

NOTE

Tables 38 through 43, inclusive, are out of sequence.

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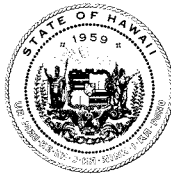
THE STATE OF HAWAII  
**DATA BOOK**  
A STATISTICAL ABSTRACT



Hawaii.

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT.  
Honolulu, Hawaii 1970

THIS BOOK was prepared by the State of Hawaii Department of Planning and Economic Development under the immediate supervision of Dr. Young P. Joun, head of the Research and Economic Analysis Division. It is chiefly the work of Robert C. Schmitt, chief of the Division's Statistics Branch, assisted by Economist Richard B. Wyckoff and Research Statistician Lynn Y.S. Zane. Proofreading and publication arrangements were by Eileen O'Brien of the Office of Information and Public Services.



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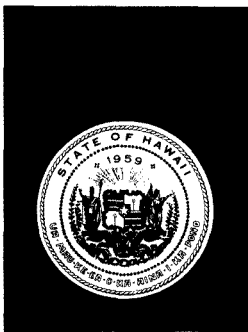
July, 1970

Progress, prosperity, personal well-being and civic order are not always measurable in statistical data. There are some things--the spirit of aloha, for example--which the heart alone understands. But insofar as the progress of a State and its citizens can be measured by statistics, this new State of Hawaii Data Book has done so, in a most valuable compilation.

This 1970 volume is one of the most complete statistical abstracts ever prepared in Hawaii. It is one of many constructive, quietly-done projects of the State Administration which contribute to the welfare of each citizen by providing the tools necessary for well-planned growth.

It is our hope that this book will be a great service to legislators, administrators, economists, market analysts, planners and others, giving them the precise information they need for decisions and actions in helping Hawaii achieve its destiny as a leader in Pacific affairs.

*John A. Burns*



STATE OF  
HAWAII

## DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

P. O. BOX 2359 • HONOLULU, HAWAII 96804

July, 1970

JOHN A. BURNS  
Governor

SHELLEY M. MARK  
Director

EDWARD J. GREANEY, JR.  
Deputy Director

The State of Hawaii 1970 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, presenting statistics available in early 1970, is the fourth such abstract to be published by the State of Hawaii; earlier versions appeared in 1962, 1967 and 1968. All three earlier editions are available from the DPED Office of Information and Public Services.

The present volume closely follows the organization and format of the U.S. Abstract, in order to facilitate comparison of Hawaii data with corresponding national series.

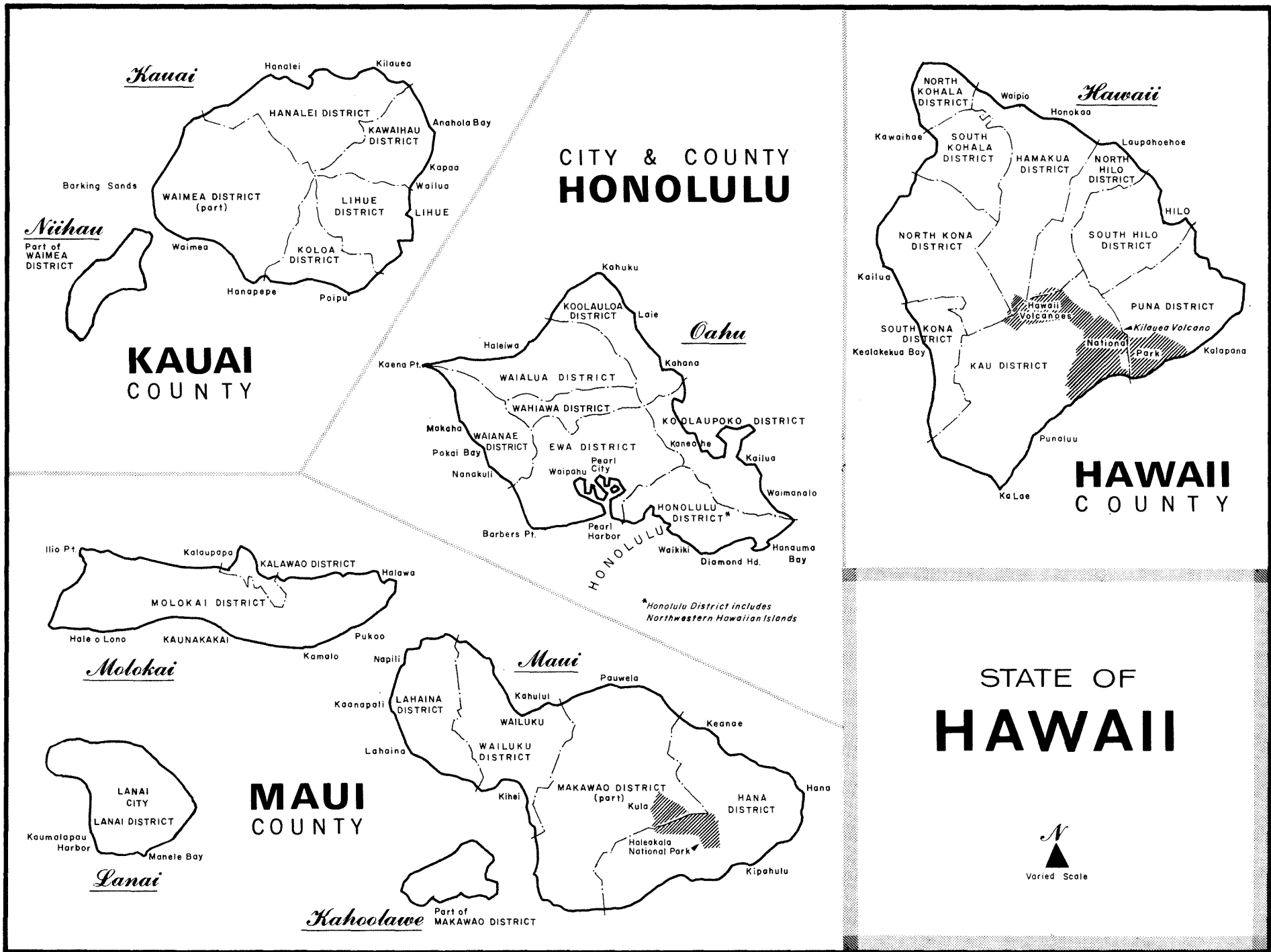
Emphasis in this Data Book is given to the most recent available State data. Historical statistics and information on Counties, islands, urban places and smaller areas are presented to a lesser extent. The publications cited as sources at the end of each table or group of tables usually contain additional statistical detail and a more complete discussion of relevant definitions and concepts than can be presented here. Persons interested in additional information should consult these other 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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*Hawaii*

Hanalei Kilauea  
 HANAIEI DISTRICT  
 Anahola Bay  
 Kapaa  
 Wailua  
 LIHUE  
 LIHUE DISTRICT  
 LIHUE  
 WAIMEA DISTRICT (part)  
 Waimea  
 KOLOA DISTRICT  
 Hanapepe Poipu

*Niihau*  
 Part of  
 WAIMEA  
 DISTRICT

**KAUAI**  
 COUNTY

**CITY & COUNTY**  
**HONOLULU**

Kahuku  
 KOO LAU LOA DISTRICT  
 Lala  
 Haleiwa  
 Kahana  
 WAI ALUA DISTRICT  
 WAI ALUA DISTRICT  
 WAHIAWA DISTRICT  
 KOO LAU PO KO DISTRICT  
 Kaneohe  
 Kailua  
 Waimanalo  
 WAI ANAE DISTRICT  
 EWA DISTRICT  
 Pearl City  
 Waipahu  
 Nanakuli  
 Barbers Pt.  
 Pearl Harbor  
 HONOLULU DISTRICT \*  
 Waikiki  
 Diamond Hd.  
 Hanauma Bay

*Oahu*

HONOLULU

\*Honolulu District includes  
 Northwestern Hawaiian Islands

*Hawaii*

NORTH KOHALA DISTRICT  
 Waipio  
 Hanakaa  
 Kawaihae  
 SOUTH KOHALA DISTRICT  
 HAMAKUA DISTRICT  
 NORTH HILO DISTRICT  
 Laupahoehoe  
 HILO  
 SOUTH HILO DISTRICT  
 NORTH KONA DISTRICT  
 Kailua  
 SOUTH KONA DISTRICT  
 Kealahou Bay  
 KAU DISTRICT  
 PUNA DISTRICT  
 Kilauea Volcano  
 National Park  
 Kalapana  
 Punaluu  
 Ka Lae

**HAWAII**  
 COUNTY

Ilio Pt.  
 Kalouppapa  
 KALAWAO DISTRICT  
 Halawa  
 MOLOKAI DISTRICT  
 Hale o Lono  
 KAUNAKAKAI  
 Pukoo  
 Kamalo  
 Napili

*Molokai*

**MAUI**  
 COUNTY

*Maui*  
 Pauwela  
 Kahului  
 WAILUKU  
 WAILUKU DISTRICT  
 Lahaina  
 Lahaina DISTRICT  
 Kihai  
 MAKAWAO DISTRICT (part)  
 Kula  
 HANA DISTRICT  
 Hana  
 Haleakala National Park  
 Kipahulu

LANAI CITY  
 LANAI DISTRICT  
 Kaunapou Harbor  
 Manele Bay

*Lanai*

*Kahoolawe* Part of  
 MAKAWAO DISTRICT

STATE OF  
**HAWAII**



# 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 results of the 1970 United States Census indicated a population of 748,182. This total included approximately 41,000 members of the armed forces and 62,000 of their dependents, but omitted 15,000 men aboard ships homeported in Hawaii, who will be included in the final census tabulations. The census count also excluded 23,000 visitors who were present on April 1, 1970, while including 11,000 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-two percent of the 1970 total lived on Oahu, giving that island a density in excess of 1,000 persons per square mile. The population is young—45 percent were under 21 years of age in 1969—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 170,000 persons (excluding military personnel and their dependents) moved to the State, while 123,000 moved away. The in-migrants included 140,000 persons from the Mainland and almost 30,000 from foreign countries, chiefly the Philippines.

The principal sources for these data are the decennial censuses (including preliminary results from 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 surveys conducted in 1964-1967 by the Department of Health and 1967 by the Vocational Rehabilitation Plan, 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: 1969*.



Table 1. -- POPULATION OF THE STATE OF HAWAII AND  
CITY OF HONOLULU: 1778 TO 1970

Estimate or census date <sup>1</sup>	State of Hawaii	City of Honolulu <sup>2</sup>	Census date	State of Hawaii	City of Honolulu <sup>2</sup>
1778-1779 <sup>3</sup> .....	300,000	--	1890: Dec. 28.....	88,990	22,907
1823 .....	142,050	6,000	1896: Sept. 27 .....	109,020	29,920
1831-1832 .....	130,313	5,522	1900: June 1 .....	154,001	39,306
1835-1836 .....	108,579	12,994	1910: April 15 .....	191,874	52,183
1850: January .....	84,165	14,484	1920: Jan. 1 .....	255,881	81,820
1853: Dec. 26 .....	73,138	11,455	1930: April 1 .....	368,300	137,582
1860: Dec. 24 .....	69,800	14,310	1940: April 1 .....	422,770	179,358
1866: Dec. 7 .....	62,959	13,521	1950: April 1 .....	499,794	248,034
1872: Dec. 27.....	56,897	14,852	1960: April 1 .....	632,772	294,194
1878: Dec. 27 .....	57,985	14,114	1970: April 1 <sup>4</sup> .....	748,182	319,477
1884: Dec. 27 .....	80,578	20,487			

1. Estimates for 1778-1779 and 1823, partial censuses (as supplemented by estimates) for 1831-1832 and 1835-1836, and official censuses by the Hawaiian Government for 1850-1896 and U. S. Bureau of the Census for 1900-1970.

2. Data for 1823 and 1831-1832 refer to the village of Honolulu; for all succeeding years, to Honolulu District (Red Hill to Makapuu Point).

3. Other estimates for this period run from 200,000 to 400,000.

4. Preliminary. Excludes 14,723 armed forces aboard ships homeported in Hawaii.

Source: Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), pp. 19, 29, 42, 70, 115, and 118; U. S. Bureau of the Census, preliminary tabulations of 1970 census.

Table 2. -- INTERCENSAL POPULATION ESTIMATES: 1940 TO 1970

Date <sup>1</sup>	Resident population		Date <sup>1</sup>	Resident population	
	Total	Civilian <sup>2</sup>		Total	Civilian <sup>2</sup>
1940: April 1 .....	423,330	395,122	1950: April 1 <sup>3</sup> .....	499,794	479,219
July 1 .....	427,884	397,843	July 1 .....	497,980	477,917
1941 .....	459,335	411,148	1951 .....	514,256	470,068
1942 .....	582,026	446,119	1952 .....	517,378	460,118
1943 .....	649,650	449,818	1953 .....	509,947	462,732
1944 .....	858,945	452,134	1954 .....	505,461	467,699
1945 .....	814,601	459,867	1955 .....	539,292	482,485
1946 .....	545,439	479,708	1956 .....	558,575	501,329
1947 .....	526,238	487,565	1957 .....	584,466	524,885
1948 .....	517,013	484,164	1958 .....	605,356	550,345
1949 .....	511,039	480,358	1959 .....	622,087	565,491
1950: April 1 <sup>3</sup> .....	499,794	476,944	1960: April 1 .....	632,772	578,884

Date <sup>1</sup>	Resident population			De facto population <sup>4</sup>	Visitors present <sup>5</sup>	Residents absent
	Total	Armed forces <sup>6</sup>	Civilian <sup>2</sup>			
1960: April 1 .....	632,772	53,888	578,884	636,974	7,912	3,710
July 1 .....	641,872	59,183	582,689	655,665	20,969	7,176
1961 .....	651,769	56,348	595,421	665,458	21,611	7,922
1962 .....	660,233	59,702	600,531	673,141	22,050	9,142
1963 .....	662,600	57,093	605,507	677,588	22,738	7,750
1964 .....	672,713	59,840	612,873	686,763	25,153	11,103
1965 .....	681,227	56,113	625,114	694,614	26,491	13,104
1966 .....	689,197	49,737	639,460	707,362	31,856	13,691
1967 .....	704,256	51,002	653,254	728,497	40,004	15,763
1968 .....	718,730	48,613	670,117	750,861	48,704	16,573
1969 .....	748,640	56,282	692,358	783,102	53,733	19,271
1970: April 1 <sup>7</sup> .....	762,905	56,085	706,820	774,955	22,970	10,920

1. July 1 unless otherwise specified.
2. Includes military dependents (61,858 on April 1, 1970).
3. April 1, 1950 civilian estimate in the 1940-1950 series differs from that in the 1950-1960 series because of use of different sources for armed forces on that date.
4. Includes visitors present but excludes residents temporarily absent.
5. Includes armed forces on Rest and Recuperation leave: 1,311 in 1967, 1,713 in 1968, 1,623 in 1969, and 1,811 in 1970.
6. Excludes armed forces on Rest and Recuperation leave in Hawaii. De facto basis for 1960 and resident basis thereafter.
7. Preliminary 1970 census count, adjusted to include 14,723 armed forces aboard ships homeported in Hawaii.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, January 1969 (Statistical Report 66, April 30, 1969), pp. 5, 12 and 13; Military Personnel and Dependents in Hawaii, April 1970 (Statistical Report 72, April 30, 1970), p. 3; and The Population of Hawaii, 1970 (forthcoming).

Table 3. -- RESIDENT POPULATION, 1850 TO 1970, AND DE FACTO POPULATION AND DENSITY, 1970, BY GEOGRAPHIC AREA

Geographic area	Resident population						De facto population, 1970 <sup>1</sup>	
	1850	1900	1940	1950	1960	1970 <sup>2</sup>	Number	Per sq. mile
The State	84,165	154,001	422,770	499,794	632,772	<del>748,182</del> <sup>768,913</sup>	774,955	120.6
City & County of Honolulu <sup>3</sup> ...	25,440	58,504	257,696	353,020	500,409	612,721	634,347	1,064.9
City of Honolulu <sup>3</sup>	14,484	39,306	179,358	248,034	294,194	319,477	328,486	3,793.1
Rest of County ..	10,956	19,198	78,338	104,986	206,215	293,244	305,861	600.8
Other Counties ...	58,725	95,497	165,074	146,774	132,363	135,461	140,608	24.1
Hawaii County ..	25,864	46,843	73,276	68,350	61,332	61,586	63,469	15.7
City of Hilo ..	(NA)	(NA)	23,353	27,198	25,966	27,502	28,221	94.4
Rest of County.	(NA)	(NA)	49,923	41,152	35,366	34,084	35,248	9.4
Kauai County ...	7,670	20,734	35,818	29,905	28,176	28,792	30,451	49.2
Island of Kauai	6,956	20,562	35,636	29,683	27,922	28,557	30,216	55.1
Island of Niihau	714	172	182	222	254	235	235	3.4
Maui County <sup>4</sup> ...	25,191	27,920	55,980	48,519	42,855	45,083	46,688	40.2
Island of Kahoolawe ...	--	--	1	--	--	--	--	--
Island of Lanai	604	} 25,416	3,720	3,136	2,115	2,175	2,171	15.6
Island of Maui	21,047		46,919	40,103	35,717	37,838	39,425	54.1
Island of Molokai <sup>4</sup>	3,540	2,504	5,340	5,280	5,023	5,070	5,092	20.6

NA Not available.

1. Includes visitors present; excludes residents temporarily absent.

2. Preliminary U. S. Census count. Excludes 14,723 armed forces aboard ships homeported in Hawaii.

3. Includes the Northwestern Hawaiian Islands (42 in 1970--19 on French Frigate Shoals and 23 on Kure Atoll).

4. Includes Kalawao County, which is coterminous with Kalaupapa Settlement (164 in 1970).

Source: Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), pp. 70, 116, and 118; Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970 (forthcoming).

Table 4. -- LAND AREA AND POPULATION OF SELECTED CITIES, TOWNS,  
AND VILLAGES IN HAWAII: 1960 AND 1970

Island and place <sup>1</sup>	Land area (acres)	Total resident population		
		1960	1970 (preliminary)	Percent increase
<b>Hawaii:</b>				
Hilo .....	35,929	25,966	27,502	5.9
Kailua .....	489	433	(NA)	(NA)
Waimea .....	652	657	(NA)	(NA)
Honokaa.....	882	1,247	(NA)	(NA)
<b>Maui:</b>				
Wailuku.....	1,499	6,969	8,904	27.8
Kahului .....	2,888	4,223	8,173	93.5
Lahaina .....	870	3,423	(NA)	(NA)
<b>Lanai:</b>				
Lanai City.....	328	2,056	(NA)	(NA)
<b>Molokai:</b>				
Kaunakakai .....	573	740	(NA)	(NA)
<b>Oahu:</b>				
Honolulu .....	53,696	294,194	319,477	8.6
Aiea .....	1,302	11,436	12,443	8.8
Pearl City .....	2,135	7,072	19,192	171.4
Waipahu .....	1,815	7,802	23,194	197.3
Wahiawa .....	1,472	15,512	21,588	39.2
Schofield Barracks .....	1,849	14,873	13,435	-9.7
Kaneohe .....	4,316	15,291	29,405	92.3
Kailua .....	4,470	24,402	33,529	37.4
<b>Kauai:</b>				
Lihue .....	3,959	4,106	3,055	-25.6
Kapaa .....	2,591	3,439	3,647	6.0

NA Not available.

1. These places are among the 93 cities, towns and villages assigned statistical boundaries under Act 25, S.L.H. 1963. Each city over 10,000, the largest place on each island if none exceeds 10,000, and other places of special interest are shown. Places are listed in geographic order.

Source: Hawaii State Department of Planning and Economic Development, Statistical Boundaries Reports (Reports SB-1 to SB-93, 1966-1969); Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970 (forthcoming).

Table 5. -- AGE OF THE POPULATION, FOR HAWAII: 1960, 1968, AND 1969

Age	April 1, 1960	July 1, 1968	July 1, 1969	Percent distribution		
				1960	1968	1969
All ages <sup>1</sup> .....	632,772	775,000	794,000	100.0	100.0	100.0
Under 5 years .....	80,962	80,000	304,000	12.8	10.3	38.3
5 to 17 years .....	169,951	220,000				
18 to 44 years .....	255,364	302,000	448,000	40.4	39.0	56.4
45 to 64 years .....	97,333	132,000				
65 years and over .....	29,162	41,000	43,000	4.6	5.3	5.4
14 years and over .....	426,489	536,000	(NA)	67.4	69.2	(NA)
18 years and over .....	381,859	475,000	490,000	60.3	61.3	61.7
21 years and over .....	348,330	424,000	438,000	55.0	54.7	55.2

NA Not available.

1. For revised all-age totals for 1968 and 1969, see table 2.

Source: U. S. Bureau of the Census, "Estimates of the Population of States, by Age: 1968. With Provisional Estimates for July 1, 1969," Current Population Reports, Population Estimates and Projections, Series P-25, No. 437, January 16, 1970.

Table 6. -- ETHNIC STOCK OF THE POPULATION, FOR HAWAII: 1940 TO 1968

Year and military status	Total	Hawaiian and part Hawaiian	Caucasian (including Puerto Rican)	Chinese	Filipino	Japanese	Mixed, except part Hawaiian	Others <sup>1</sup>
1940 .....	423,330	64,310	112,087	28,774	52,569	157,905	(2/)	7,685
1950 .....	499,794	86,091	124,344	29,501	53,391	180,521	20,337	5,609
1960 <sup>3</sup> .....	632,772	116,823	162,689	35,855	56,252	204,079	45,881	11,193
1968 <sup>4</sup> .....	778,300	144,100	220,800	41,700	61,900	232,000	65,500	12,300
Armed forces .....	53,300	1,500	46,100	300	1,300	1,400	200	2,500
Military dependents..	59,100	2,300	48,200	400	2,000	2,100	300	3,800
Others .....	665,900	140,300	126,500	41,000	58,600	228,500	65,000	6,000
PERCENT								
1940 .....	100.0	15.2	26.5	6.8	12.4	37.3	(2/)	1.8
1950 .....	100.0	17.2	24.9	5.9	10.7	36.1	4.1	1.1
1960 <sup>3</sup> .....	100.0	18.5	25.7	5.7	8.9	32.3	7.3	1.8
1968 .....	100.0	18.5	28.4	5.4	8.0	29.8	8.4	1.6
Armed forces .....	100.0	3.8	86.5	0.6	2.4	2.6	0.4	4.7
Military dependents..	100.0	3.9	81.6	0.7	3.4	3.6	0.5	6.4
Others .....	100.0	21.1	19.0	6.2	8.8	34.3	9.8	0.9

1. Korean, Negro, Samoan, and others. The 1960 Negro total was 4,943, including 2,232 members of the armed forces and 2,711 military dependents or other civilians.
  2. Not separately available; included with unmixed groups.
  3. Data differ from published Census figures because of adjustments for misclassification and different treatment of persons of mixed race.
  4. The all-race total was later revised to 718,730.
- Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, January 1969 (Statistical Report 66, April 30, 1969), p. 10.

Table 7. -- HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND MARRIED COUPLES: 1940 TO 1967

Year and geographic area	Households <sup>1</sup>		Families <sup>2</sup>	Unrelated individuals <sup>3</sup>	Married couples
	Number	Average size			
1940 .....	86,855	(NA)	(NA)	(NA)	(NA)
1950 .....	111,858	4.14	96,460	57,230	90,844
1960 .....	153,064	3.87	130,871	67,996	120,192
1964-1967 <sup>4</sup> .....	177,873	3.94	161,294	27,103	(NA)
COUNTIES, 1964-1967 <sup>4</sup>					
City & Co. of Honolulu ...	142,528	4.00	129,843	21,395	(NA)
Hawaii County .....	15,599	3.77	13,760	2,513	(NA)
Kauai County .....	7,124	3.62	6,047	1,446	(NA)
Maui County .....	12,622	3.71	11,644	1,749	(NA)
CITIES, 1964-1967 <sup>4</sup>					
Hilo .....	6,778	3.76	6,181	919	(NA)
Honolulu .....	86,045	3.74	75,198	17,621	(NA)
Kailua .....	8,995	4.13	8,580	590	(NA)

NA Not available.

1. A household consists of all the persons who occupy a housing unit. A house, an apartment or other group of rooms, or a single room, is regarded as a housing unit when it is occupied or intended for occupancy as separate living quarters.

2. A family consists of two or more persons living in the same household who are related to each other by blood, marriage, or adoption.

3. An unrelated individual is a member of a household who is not related to anyone else in the household, or is a person living in group quarters who is not an inmate of an institution. The 1964-1967 data, however, exclude persons in military barracks, included in earlier years (there were 25,073 in 1960, almost all of them on Oahu).

4. Based on the 1964-1967 average for Oahu and Fall 1967 data for other islands. Kalawao County and Niihau were excluded from the 1967 survey.

Source: Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), p. 124; Hawaii State Department of Planning and Economic Development, Population Characteristics of the Neighbor Islands, 1967 (Statistical Report 58, May 17, 1968) and Population Characteristics of Oahu, 1964-1967 (Statistical Report 61, July 10, 1968).

Table 8. -- POPULATION BORN OR LIVING IN HAWAII, BY PLACE OF BIRTH AND RESIDENCE:  
1853 TO 1960

Year and color	Living in Hawaii			Born and living in Hawaii	Born in Hawaii <sup>1</sup>	
	Total	Born elsewhere			Total	Living elsewhere
		U.S. <sup>2</sup>	Foreign			
1960, total .....	632,772	142,707	68,897	421,168	536,238	115,070
White .....	202,331	126,197	7,605	68,529	141,843	73,314
Nonwhite .....	430,441	16,510	61,292	352,639	394,395	41,756
1950 .....	499,794	67,600	76,620	355,574	407,529	51,955
1900 .....	154,001	4,290	90,780	58,931	60,238	1,307
1853 .....	73,138	692	1,136	71,310	71,843	533

1. Excludes Hawaii-born persons at sea or living in U.S. outlying areas or in foreign countries.

2. Includes persons born in U.S. outlying areas, or born abroad or at sea of American parents (4,965 in 1960), and U.S.-born persons not reporting state of birth (8,750 in 1960).

Source: Governor's Conference on Immigration, Migration Trends in Hawaii, 1959-1969 (Honolulu, 1969), table 17; Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), pp. 74, 75, 121, 122, 182 and 183.

Table 9. -- ALIEN ADDRESS CARDS RECEIVED FROM PERSONS RESIDING IN HAWAII,  
BY NATIONALITY: 1940 TO 1970

Year	Total	Philippines	Japan and Ryukyu I.	China and Taiwan	Korea	All others <sup>1</sup>
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)
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

NA Not available.

1. Includes Canada (1,568 in 1970), United Kingdom (1,548), Germany (691), and others (4,183).

Source: U.S. Immigration and Naturalization Service, annual reports and tabular releases.



Table 10. -- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION:  
1960 TO 1970  
(Preliminary)

Component of population change	Total resident population <sup>1</sup>	Armed forces <sup>1</sup>	Civilians	
			Military dependents	Other civilians
Net increase .....	130,133	3,204	1,801	125,128
Live births .....	163,137	--	45,183	117,954
Deaths .....	36,977	710	1,557	34,710
Net migration <sup>2</sup> .....	+3,973	-629	-41,825	+46,427
Change in military status <sup>3</sup> .....	--	+4,543	(NA)	- 4,543

NA Not available.

1. Adjusted to include armed forces aboard ships homeported in Hawaii.

2. Among civilians other than military dependents, in-migrants numbered 169,888 (including 140,346 from other States and 29,542 from foreign countries) and out-migrants numbered 123,461.

3. Based on 30,743 inductions and 26,200 separations between April 1, 1960 and December 31, 1969.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970 (forthcoming).

Table 11. -- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND AND ABROAD:  
1960 TO 1969

Year ended June 30	All intended residents	Migrants from the Mainland United States					Immigrants from abroad
		Total	Armed forces	Military dependents	Other civilians	Not reported	
1961 .....	15,837	14,075	1,610	1,635	10,145	685	1,762
1962 .....	21,503	19,455	3,145	4,965	10,490	855	2,048
1963 .....	22,222	20,455	3,110	5,470	10,845	1,030	1,767
1964 .....	23,773	22,150	3,745	5,405	12,145	855	1,623
1965 .....	25,961	24,240	5,355	5,900	12,320	665	1,721
1966 .....	26,985	23,915	8,580	3,655	11,070	610	3,070
1967 .....	37,385	33,560	10,235	6,505	15,520	1,300	3,825
1968 .....	42,188	37,495	11,475	6,570	18,320	1,130	4,693
1969 .....	41,381	36,850	10,785	6,540	18,150	1,375	4,531

Source: Hawaii Department of Planning and Economic Development, Hawaii's In-Migrants, 1969 (Statistical Report 70, March 10, 1970), pp. 4-5.

## 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 71.55 years in 1959-1961, seventh highest of the fifty states and almost twice the 1884-1885 average of 36.5 years. The crude death rate in 1969 was only 5.6, 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 less than 20 after 1965. The 1969 crude birth rate was 21.4.

Over 99 percent of all babies were born in hospitals, and a fourth were born to military couples. One out of eleven births was illegitimate. Marriages numbered 9,891 in 1969, with about a third accounted for by nonresidents. Divorces reached a 1969 total of 2,314. The State had 31 hospitals (with 5,447 beds) and 146 nursing and care homes (with 1,963 beds) when most recently surveyed.

Average length of stay in the largest of the hospitals was 8.5 days in 1969, compared with 13.0 in 1920 and 59 in the 1870's. State licensing boards listed 945 physicians and surgeons, 467 dentists, 3,078 professional nurses, and 205 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: 1969* contains similar data for the nation as a whole.

Table 12. -- BIRTHS, DEATHS, MARRIAGES, AND DIVORCES: 1849 TO 1969  
 (Place of occurrence basis. Not adjusted for underreporting,  
 known to have been significant before 1920)

Year <sup>1</sup>	Live births	Deaths <sup>2</sup>	Rate per 1,000 population <sup>3</sup>		Infant death rate <sup>4</sup>	Marriages	Divorces and annulments
			Birth	Death <sup>2</sup>			
1849 .....	1,422	4,320	16.6	50.5	(NA)	1,810	1
1860 .....	1,672	2,343	23.8	33.4	(NA)	1,075	86
1870 .....	2,413	3,819	40.8	64.6	(NA)	(NA)	38
1880 .....	2,350	2,550	35.6	38.6	(NA)	(NA)	79
1890 .....	(NA)	(NA)	(NA)	30.6	(NA)	(NA)	48
1900 .....	(NA)	(NA)	(NA)	32.8	(NA)	(NA)	48
1910 .....	4,302	2,941	22.8	15.6	205.5	1,959	197
1920 .....	10,165	4,564	40.4	18.1	108.8	2,127	570
1930 .....	10,873	3,976	31.1	11.4	82.3	2,443	529
1940 .....	9,524	3,025	24.1	7.6	43.7	5,355	946
1950 .....	14,059	2,883	29.4	6.0	23.8	5,575	1,173
1960 .....	17,193	3,540	29.5	6.1	23.2	5,237	1,270
1961 .....	17,558	3,367	29.3	5.6	21.7	5,298	1,556
1962 .....	17,932	3,512	29.1	5.7	20.6	5,484	1,471
1963 .....	17,744	3,643	28.1	5.8	22.5	5,750	1,515
1964 .....	17,284	3,638	26.8	5.6	19.8	5,790	1,690
1965 .....	16,259	3,705	24.4	5.6	21.5	6,071	1,111
1966 .....	14,943	3,770	22.0	5.5	18.9	5,792	897
1967 .....	14,765	3,897	21.0	5.5	16.9	7,345	1,451
1968 .....	14,595	4,192	20.3	5.8	19.0	9,021	1,865
1969 .....	15,755	4,158	21.4	5.6	19.1	9,891	2,314

Year	Percent of births			Percent of deaths 65 and over <sup>7</sup>	Resident grooms		Percent of marriages interracial
	In hospitals <sup>5</sup>	Father in armed forces	Illegitimate <sup>6</sup>		Number	Percent	
1940 .....	69.5	(NA)	6.25	28.8	(NA)	(NA)	25.0
1950 .....	97.1	(NA)	4.97	39.3	(NA)	(NA)	29.7
1960 .....	99.1	29.5	5.13	46.7	5,043	96.3	37.3
1961 .....	99.1	27.8	5.76	46.5	5,101	96.3	36.1
1962 .....	99.3	28.3	6.03	47.9	5,291	96.5	37.7
1963 .....	99.3	28.2	6.40	47.8	5,516	95.9	38.6
1964 .....	99.5	28.9	6.63	49.3	5,481	94.7	38.3
1965 .....	99.3	26.6	7.21	48.8	5,703	93.9	38.1
1966 .....	99.4	22.9	8.38	49.9	5,358	92.5	37.7
1967 .....	99.5	24.4	8.75	52.5	5,904	80.4	33.5
1968 .....	99.3	25.9	9.48	51.0	6,321	70.1	33.8
1969 .....	(NA)	25.9	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1. Divorce total for 1860 is annual average for two-year period ended March 31, 1862. Birth and death data for 1880 and divorce data for 1870-1890 are annual averages for two-year periods begun on January 1 for year specified. Birth and death data, 1910-1940, infant deaths and marriages, 1910, and hospital births, illegitimate births, and interracial marriages, 1940, are for years ended June 30. All other data are for calendar years.

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

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

4. Deaths under one year of age per 1,000 live births.

5. Place of residence basis for 1940 and 1950.

6. Place of residence basis for all years.

7. Includes armed forces through 1961 but excludes them thereafter.

Source: Hawaii State Department of Health, annual statistical reports for 1940, 1950, and 1960-1968, and records; Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), pp. 165-167, 171, and 210-212.

Table 13. -- AVERAGE REMAINING LIFETIME IN YEARS AT SPECIFIED AGES, BY SEX:  
1884-1885 TO 1959-1961

Sex and year	Birth	1	15	25	45	65
<b>Both sexes:</b>						
1884-1885 <sup>1</sup> .....	36.5	41.2	33.9	27.8	18.4	5.1
1959-1961 .....	71.55	72.22	58.71	49.19	30.48	14.97
<b>Male:</b>						
1919-1920 .....	47.7	--	--	--	--	--
1929-1931 .....	52.63	57.24	46.43	38.03	22.01	8.71
1939-1941 .....	59.46	61.79	49.38	40.31	23.37	9.10
1949-1951 .....	67.76	68.77	55.54	46.20	28.01	13.70
1959-1961....						
White .....	66.95	67.55	53.95	44.48	25.81	12.00
Nonwhite .....	70.69	71.62	58.18	48.88	30.34	14.73
<b>Female:</b>						
1919-1920 .....	47.27	--	--	--	--	--
1929-1931 .....	55.31	58.55	47.38	39.10	23.63	9.16
1939-1941 .....	62.60	64.32	51.67	42.51	25.26	9.85
1949-1951 .....	71.29	71.86	58.51	48.93	30.50	15.11
1959-1961....						
White .....	72.37	72.84	59.22	49.50	30.58	14.95
Nonwhite .....	74.81	75.31	61.82	52.12	33.28	16.92

1. City of Honolulu only. For two-year period ended March 31, 1885.

Source: Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), p. 172; U.S. Department of Health, Education, and Welfare, Public Health Service, Life Tables: 1959-61, Vol. 2, No. 12, Hawaii State Life Tables: 1959-61 (June 1966), pp. 162-171.

Table 14. -- CIVILIAN DEATHS, BY CAUSE: 1928 TO 1968

Cause of death <sup>1</sup>	Number, 1968	Percent distribution			Rate per 100,000 population		
		1968	1958	1928	1968	1958	1928
All causes .....	4,192	100.0	100.0	100.0	584.1	543.3	1,209.6
Disease of the heart .....	1,374	32.8	33.0	10.1	191.5	179.2	121.7
Malignant neoplasms .....	800	19.1	17.7	5.5	111.5	95.9	66.0
Cerebrovascular disease ....	351	8.4	8.4	5.1	48.9	45.5	61.9
All accidents .....	274	6.5	5.1	6.7	38.2	27.6	81.2
Influenza and pneumonia ....	175	4.2	3.8	14.4	24.4	20.5	174.4
Diseases of early infancy ...	169	4.0	8.3	6.2	23.5	45.2	75.3
Diabetes mellitus .....	100	2.4	2.2	0.6	13.9	12.0	7.6
Congenital anomalies .....	72	1.7	2.4	1.2	10.0	13.2	15.0
Cirrhosis of liver .....	65	1.6	1.2	0.6	9.1	6.8	7.3
Suicide .....	58	1.4	1.8	1.6	8.1	9.9	19.6
Emphysema .....	57	1.4	(NA)	(NA)	7.9	(NA)	(NA)
Nephritis and nephrosis ....	36	0.9	1.4	5.7	5.0	7.6	68.9
Arteriosclerosis .....	35	0.8	1.5	(NA)	4.9	8.2	(NA)
Peptic ulcer .....	35	0.8	0.7	0.8	4.9	3.8	9.4
Asthma .....	27	0.6	0.8	(NA)	3.8	4.5	(NA)
Other than specified above ..	564	13.4	11.7	41.4	78.6	63.4	501.3

NA Not available.

1. The 15 leading causes of death in 1968, listed in order of deaths for that year.

Source: Annual Report, Department of Health, State of Hawaii, Statistical Supplement, 1968, p. 30.

Table 15. -- AVERAGE LENGTH OF STAY AND COST PER PATIENT DAY AT THE QUEEN'S HOSPITAL: 1859 TO 1969

Year <sup>1</sup>	Average stay (days)	Cost per patient day (dollars)	Year	Average stay (days)	Cost per patient day (dollars)
1859 - 1861 .....	42	0.83	1950 .....	7.3	21.16
1877 - 1879 .....	59	0.61	1960 .....	6.5	37.90
1903 .....	33.7	1.78	1967 .....	7.5	61.93
1920 .....	13.0	4.20	1968 .....	7.8	66.48
1940 .....	8.3	6.20	1969 .....	8.5	71.65

1. August 1, 1859 - June 20, 1861; 24-month period ended in mid-1879; calendar years 1903-1940; fiscal years ended June 30, 1950-1969.

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

Table 16. -- HOSPITALS AND NURSING AND CARE HOMES, BY ISLAND: 1968

Category and island	Number of estab.	Beds		Bassi-nets	Pct. of occu-pancy	Average patient occup.	Patients ad-mitted
		Total <sup>1</sup>	Accept-able				
<b>HOSPITALS</b>							
All islands .....	31	5,447	3,005	305	78.6	4,170	81,771
Hawaii .....	5	507	355	42	75.9	385	8,084
Maui .....	3	318	181	37	62.3	197	5,180
Lanai .....	1	14	14	3	14.2	2	133
Molokai .....	2	307	28	4	53.4	164	1,093
Oahu .....	17	4,022	2,244	196	80.0	3,326	63,326
Kauai .....	3	279	183	23	73.5	205	4,155
<b>NURSING AND CARE HOMES</b>							
All islands .....	146	1,963	1,964	--	92.2	1,811	2,277
Hawaii.....	5	28	28	--	92.8	26	29
Maui .....	6	141	142	--	70.4	100	56
Oahu .....	105	987	1,001	--	92.7	914	656
Kauai .....	18	66	65	--	87.8	58	50

1. Maximum based on square foot requirements rather than actual complement. The hospital total of 5,447 beds includes 1,978 general beds, 97 maternity-gynecological, 73 pediatric, 336 tuberculosis, 1,634 mental, 539 leprosy, 689 long-term, 58 orthopedic, and 43 rehabilitation. Data include residential cottages for leprosy and mental patients.

Source: Annual Report, Department of Health, State of Hawaii, Statistical Supplement, 1968, pp. 115-117.

Table 17. -- PHYSICIANS, DENTISTS, NURSES AND PHARMACISTS LICENSED IN HAWAII, BY ISLAND: 1969

Date of data and professional group	All islands	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
<b>June 1969:</b>							
Physicians (M.D.) ..	945	58	38	2	2	825	20
Dentists .....	467	31	19	1	1	397	18
Reg. nurses (active).	3,078	205	142	7	19	2,625	80
<b>March 1969:</b>							
Pharmacists .....	205	11	10	--	1	179	4

Source: Hawaii State Department of Regulatory Agencies, October 17, 1969.

Table 18. -- STATISTICS FROM THE HAWAII HEALTH SURVEILLANCE PROGRAM SURVEY, FOR OAHU: 1964-1967

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

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

2. Surveyed April 1964 - September 1965.

Source: Hawaii State Department of Health, unpublished tabulations.

## Education

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

Enrollment in elementary, intermediate and high schools in 1969-1970 totalled 211,215, or almost double the 1940 figure. There were 217 public schools with 7,084 classroom teachers and 178,564 students (about 85 percent of the total).

Some 28,000 full-time students and 29,000 part-time students attended colleges and universities in the State in 1969, chiefly on the Manoa Campus of the University of Hawaii.

Among adults, the illiteracy rate dropped from 35 percent in 1900 to 5.0 percent in 1960, and by 1967 approximately 23 percent of all Oahuans 25 years of age or more and 15 percent of all Neighbor Islanders in this age group could report having completed one or more years of college.

Section 4 of the *Statistical Abstract of the United States: 1969* presents comparable data for the nation as a whole.



Table 19. -- PUBLIC AND PRIVATE SCHOOL ENROLLMENT AND TEACHERS, AND ILLITERACY RATE OF ADULTS: 1832 TO 1970

Year	School enrollment or membership <sup>1</sup>				Teachers <sup>2</sup>		Percent of adults illiterate <sup>3</sup>
	Public and private		Public	Private	Public	Private	
	Number	% of civ. population					
1832 .....	23,123	18.6	23,123		(NA)		(NA)
1847 .....	19,644	21.0	19,644		625		(NA)
1859 <sup>4</sup> .....	9,782	13.8	8,628	1,154	290	(NA)	25.0
1870 <sup>4</sup> .....	7,927	13.3	5,938	1,989	(NA)	(NA)	(NA)
1880 <sup>5</sup> .....	7,164	11.3	5,373	1,791	(NA)	(NA)	20.1
1890 .....	10,006	11.5	7,343	2,663	232	136	(NA)
1900 .....	15,537	10.1	11,501	4,036	352	207	35.2
1910 .....	25,770	13.4	20,245	5,525	501	276	29.2
1920 .....	48,923	19.1	41,350	7,573	1,312	402	21.2
1930 .....	88,577	24.7	76,634	11,943	2,657	594	17.5
1940 .....	112,260	27.8	92,424	19,836	3,394	833	(NA)
1949-50 .....	114,986	24.1	90,786	24,200	3,722	1,189	8.4
1959-60 .....	169,925	29.6	140,666	29,259	4,731	1,297	5.0
1964-65 .....	193,047	29.5	160,681	32,366	5,360	1,481	(NA)
1965-66 .....	194,595	28.9	162,164	32,431	5,846	1,477	(NA)
1966-67 .....	200,242	29.0	166,375	33,867	6,394	1,492	(NA)
1967-68 .....	203,734	28.7	169,673	34,061	6,624	1,594	(NA)
1968-69 .....	207,231	28.5	173,718	33,513	7,098	1,547	(NA)
1969-70 .....	211,215	(NA)	178,564	32,651	7,300	1,551	(NA)

NA Not available.

1. Month unspecified for 1832-1859; January 1, 1870 to 1890; December 31, 1900 to 1940; December data for school years 1949-50 forward.

2. Same dates as for enrollment, except 1949-50 (June 1950). The 1950 figure for public schools refers to total staff.

3. Data refer to persons 15 and over through 1930, thereafter for persons 14 and over, unless otherwise specified. Data for 1900-1960 refer to decennial census dates.

4. Public school totals for 1859 and 1870 refer to "common schools;" private school totals, to "select" and independent schools. Illiteracy rate shown for 1859 refers to 1853 rate for persons 16 years old and over.

5. Illiteracy rate is estimated value for 1878.

Source: Report of the Minister of Public Instruction for 1846 (p. 56) and 1848 (p.2); Report of the President of the Board of Education for 1860 (pp. 2 and 25), 1870 (pp. 2-3), 1880 (p. 1), and 1890 (p. 12); Report of the Superintendent of Public Instruction for 1900 (p. 93), 1910 (p. 74), and 1920 (p. 202); Report of the Department of Public Instruction for 1929-1930 (p. 155), 1939-1940 (p. 25), and June 30, 1950 (pp. 48, 50 and 51); Interim Data Book, Public and Non-Public Schools of Hawaii, 1969-1970, pp. 4, 36 and 44; Hawaii Department of Education, records; Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965, pp. 12, 125, and 223; Hawaii Department of Planning and Economic Development, Statistical Report 69 (January 13, 1970), p. 3.

Table 20. -- STATISTICS FOR PUBLIC AND PRIVATE SCHOOLS: 1968-1969

Subject	All schools	Public schools	Private schools
Pupil membership, all Counties .....	207,231	173,718	33,513
City and County of Honolulu .....	167,485	137,821	29,664
County of Hawaii .....	18,647	17,299	1,348
County of Kauai .....	8,291	7,528	763
County of Maui .....	12,808	11,070	1,738
Pupil membership, all grades .....	207,231	173,718	33,513
Kindergarten to grade 6 <sup>1</sup> .....	118,012	99,444	18,568
Grades 7 to 9 .....	46,743	39,292	7,451
Grades 10 to 12 .....	40,818	33,808	7,010
Others .....	1,658	1,174	484
Average daily membership (ADM) .....	(NA)	172,633	(NA)
Average daily attendance (ADA) .....	(NA)	160,972	(NA)
Graduates (1969) .....	11,973	9,800	2,173
Classroom teachers .....	(NA)	7,084	(NA)
ADA per teacher .....	(NA)	22.7	(NA)
Number of schools .....	333	217	116
Membership per school .....	622	801	289
Total current expenditures (\$1,000) .....	(NA)	118,802	(NA)
Per ADM (\$) .....	(NA)	688	(NA)

NA Not available.

1. Includes 2,325 in private nursery schools.

Source: Hawaii State Department of Education, Office of Business Services, Interim Data Book, Public and Non-Public Schools of Hawaii (Statistical Report No. 1, February 1, 1970), pp. 4, 21, 28, 29, 32, 42, 43, 44, 46.

Table 21. -- FULL-TIME AND PART-TIME ENROLLMENT IN HIGHER EDUCATION: SPRING 1969

Institution	Total	Full-time	Part-time
All institutions .....	57,448	28,103	29,345
East-West Center .....	550	550	--
University of Hawaii <sup>1</sup> .....	44,948	16,930	28,018
Community colleges .....	7,337	6,348	989
Private colleges .....	2,400	2,112	288
Business and technical schools .....	2,213	2,163	50

1. Because of differing definition of enrollment, data are not comparable to those in table 22.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Scientific Resources, 1969-1970 Directory. Fourth Edition, (1970), p. 7.

Table 22. -- DAYTIME ENROLLMENT AND DEGREES AWARDED AT THE UNIVERSITY OF HAWAII: 1908-09 TO 1969-70

Year	Enrollment <sup>1</sup>			Degrees awarded <sup>2</sup>			
	Manoa Campus	Hilo Campus <sup>3</sup>	Community Colleges <sup>4</sup>	Associate	Bachelor's	Master's	Doctor's
1908-09 .....	41	--	--	--	--	--	--
1919-20 .....	242	--	--	--	8	1	--
1929-30 .....	1,321	--	--	--	96	20	--
1939-40 .....	2,703	--	--	--	228	9	--
1949-50 .....	4,842	--	--	--	641	33	--
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	---	---	---	---

1. Non-duplicated annual enrollment through 1939-1940, fall semester day enrollment thereafter.

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

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

4. Transferred to the University from the Department of Education in 1965. Includes five community colleges and (in 1969-1970) Hawaii Technical School.

Source: Office of the President, University of Hawaii.

Table 23. -- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OF AGE AND OVER, FOR OAHU, 1964-1967, AND THE NEIGHBOR ISLANDS, 1967 (Percent distribution. Excludes persons living in barracks or institutions.)

Geographic area and age	Years of school completed	
	8 or fewer	College, 1 year or more
Oahu, 25 years and over .....	21.8	22.8
25 to 44 years .....	6.9	25.9
45 to 64 years .....	34.9	20.4
65 years and over .....	60.1	13.8
Neighbor Islands, 25 years and over .....	43.5	14.8
Hawaii County .....	39.2	15.6
Maui County .....	45.2	15.3
Kauai County .....	50.2	12.0

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of the Neighbor Islands, 1967 (Statistical Report 58, May 17, 1968), p. 3, and Population Characteristics of Oahu, 1964-1967 (Statistical Report 61, July 10, 1968), p. 19.

## Law Enforcement, Courts, and Prisons

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 1968 numbered 34,294, five times as many as in 1950. The rate per 100,000 population has increased from 1,246 in 1940 to 4,427 in 1968. More than nine-tenths of the 1968 total occurred on Oahu.

For the State as a whole, 20.7 percent of the major offenses and 67.2 percent of the minor offenses reported to police were cleared by arrest. Police employees in all counties numbered 1,617; police expenditures amounted to \$16,095,000, or \$20.78 per capita.

The number of inmates of State correctional institutions during 1969 averaged 392. The State Supreme Court, five Circuit Courts, and twenty-seven District Courts handled 394,000 cases during 1969.

National statistics appear in the *Statistical Abstract of the United States: 1969*, Section 5.

Table 24. -- MAJOR OFFENSES REPORTED TO THE POLICE: 1940 TO 1968

Offense	1940	1950	1960	1967	1968
All major offenses .....	5,266	6,639	14,569	27,221	34,294
Per 100,000 population ..	1,246	1,328	2,302	3,583	4,427
Murder .....	18	12	15	18	21
Manslaughter .....	10	29	29	34	28
Rape .....	20	31	20	37	55
Robbery .....	24	43	69	146	176
Aggravated assault .....	62	132	33	92	151
Burglary .....	1,518	1,604	3,330	8,513	10,609
Larceny, \$100 and over .....	207	622	481	1,778	2,429
Larceny, under \$100 .....	3,064	3,814	8,884	13,617	16,890
Auto theft .....	343	352	1,708	2,986	3,935

Source: Hawaii State Department of Attorney General, Bureau of Crime Statistics and Identification.

Table 25. -- MAJOR AND OTHER OFFENSES REPORTED TO THE POLICE AND PERCENT CLEARED BY ARREST OR OTHERWISE, BY COUNTY: 1968

Offense	The State		City & County of Honolulu	Hawaii County	Maui County	Kauai County
	Number reported	Percent cleared				
All offenses .....	68,559	43.9	59,976	2,932	4,101	1,550
Part I offenses .....	34,294	20.7	31,044	1,297	1,224	729
Murder .....	21	76.3	19	2	--	--
Manslaughter .....	28	100.0	11	9	3	5
Rape .....	55	63.6	52	1	1	1
Robbery .....	176	30.1	167	7	2	--
Aggravated assault .....	151	77.4	130	16	3	2
Burglary .....	10,609	22.4	9,776	363	251	219
Larceny, \$100 and over ..	2,429	8.3	2,214	98	57	60
Larceny, under \$100 ....	16,890	19.8	14,863	755	857	415
Auto theft .....	3,935	23.3	3,812	46	50	27
Part II offenses .....	34,265	67.2	28,932	1,635	2,877	821
Other assaults .....	5,577	82.3	4,823	259	328	167
Forgery, counterfeit ....	518	50.3	410	80	24	4
Embezzlement, fraud ...	812	69.3	627	60	95	30
Stolen property .....	37	98.1	19	5	13	--
Weapons .....	348	91.0	315	12	20	1
Prostitution .....	19	89.4	16	--	1	2
Other sex offenses .....	695	73.9	608	39	43	5
Offenses vs. family ...	68	77.9	66	1	0	1
Drug laws .....	455	88.7	355	21	49	30
Liquor laws .....	120	99.1	89	18	12	1
Drunkenness .....	1,297	100.0	1,237	27	32	1
Disorderly conduct .....	1,223	89.3	839	135	119	130
Vagrancy .....	2,167	40.9	1,776	83	244	64
Gambling .....	1,878	99.9	1,673	154	43	8
Drunk driving .....	174	100.0	114	28	5	27
All other offenses .....	18,877	57.4	15,965	713	1,849	350

Source: Hawaii State Department of Attorney General, Bureau of Crime Statistics and Identification.

Table 26. -- POLICE EMPLOYEES AND EXPENDITURES, BY COUNTY: 1968

County	Police employees, Dec. 31		Police expenditures <sup>1</sup>	
	Number	Per 1,000 population	Amount (\$1,000)	Per capita (\$)
All counties .....	1,617	2.1	16,095	20.78
Honolulu .....	1,214	1.9	11,837	18.88
Hawaii .....	185	2.8	1,843	27.64
Maui .....	132	2.6	1,474	29.55
Kauai .....	86	2.8	941	30.14

1. Kauai data refer to the year ended June 30, 1968.

Source: Hawaii State Department of Attorney General, Bureau of Crime Statistics and Identification.

Table 27. -- STATISTICAL SUMMARY FOR THE STATE JUDICIARY: 1969

Courts	Number of courts	Presiding officials		Case work, year ended June 30		
		Title	Number, June 30 <sup>1</sup>	Filed	Terminated	Pending, June 30
Supreme Court .....	1	Justice .....	4	321	300	127
Circuit Courts:						
Court proper .....	4	Judge .....	18	6,953	5,742	13,830
Family Court .....	1	Referee .....	5	20,375	17,613	11,937
District Courts .....	27	Magistrate ....	28	333,610	331,036	13,416

1. Excludes 1 Supreme Court vacancy.

Source: Annual Report. The Judiciary, State of Hawaii. July 1, 1968 to June 30, 1969, and Office of the Administrative Director of the Courts, records.

Table 28. -- STATISTICS ON STATE CORRECTIONAL FACILITIES:  
JULY 1, 1968 TO JUNE 30, 1969

Subject	Hawaii State Prison	Honor camps		Conditional Release Center	Hawaii Youth Correctional Facility
		Kulani	Olinda		
First commitments .....	50	--	--	--	39
Parolees returned .....	45	--	--	--	37
Repeaters .....	6	--	--	--	--
Transferred to facility .....	25	25	14	14	--
Transferred from facility.....	48	20	3	3	--
Paroled .....	103	25	28	4	82
Discharged .....	5	--	--	--	9
Number present on June 30 .....	233	26	22	14	66
Average number present .....	248	34	28	10	72

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

## Area, Geography, and Climate

This section relates to area, climatologic, topographic, hydrologic, and other geographic 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: out of nine major Oahu beaches, eight were rated "A" in 1968 (coliform not exceeding 50 per 100 ml) and none was rated "C" (501 or more).

Climatically, Hawaii has 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 486.1 inches atop Waialeale. The longest volcanic eruption in Island history lasted 547 days, and the highest tsunami wave reached 20 meters.

Important sources of data include the U.S. Geological Survey, U.S. Coast and Geodetic Survey, U.S. Weather Bureau, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in *Geographic Statistics of Hawaii*, published by the Department of Planning and Economic Development. National data are reported in *Statistical Abstract of the United States: 1969*, Section 6.



Table 29. -- GREAT CIRCLE DISTANCES IN STATUTE MILES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

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

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

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

Table 30. -- 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 <sup>1</sup>	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	137	234
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 .....	298.9	298.9	--	--	--
Honolulu .....	88.7	83.6	2.1	--	--
On Oahu .....	85.5	86.6	1.9	--	--
On NW Hawaiian Islands..	3.2	3.0	0.2	25	25

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

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

Table 31. -- ELEVATIONS OF MAJOR MOUNTAINS, BY ISLAND

Island and mountain <sup>1</sup>	Elevation (feet)	Island and mountain <sup>1</sup>	Elevation (feet)
Hawaii:		Oahu:	
Mauna Kea .....	13,796	Kaala .....	4,040
Mauna Loa .....	13,677	Puu Konahuanui .....	3,150
Hualalai .....	8,271	Tantalus .....	2,013
Kohala .....	5,480	Olomana Peak .....	1,643
Kilauea (Uwekahuna) .....	4,090	Diamond Head .....	760
Kahoolawe:		Punchbowl .....	500
Lua Makika .....	1,477	Koko Head .....	642
Maui:		Kauai:	
Haleakala (Red Hill).....	10,023	Kawaikini .....	5,243
Puu Kukui .....	5,788	Waialeale .....	5,148
Iao Needle .....	2,250	Niihau:	
Lanai:		Paniau .....	1,281
Lanaihale .....	3,370	Kaula .....	550
Molokai:		Nihoa <sup>2</sup> .....	910
Kamakou .....	4,970		
Puu Nana .....	1,381		

1. Highest elevation on each island and other important peaks.

2. Highest elevation in the Northwestern Hawaiian Islands.

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).

Table 32. -- 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 ave. discharge (million gal./day) ..	Wailuku River	Hawaii	303.5
Lakes:			
Greatest area (natural) (acres) <sup>1</sup> .....	Halulu	Niihau	182
Greatest area (man-made) (acres) .....	Koloa Res.	Kauai	422
Longest shoreline (miles) .....	Wahiawa Res.	Oahu	11
Highest (feet above sea level) .....	Lake Waiau	Hawaii	13,020
Named waterfalls:			
Greatest sheer drop (feet) .....	Akaka	Hawaii	442
Highest cascade (feet) .....	Kahiwa	Molokai	1,750

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

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

## Land Use and Ownership

General statistics on the use and ownership of land appear in this section. Information on specific use or ownership categories, such as farms, 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 1964; the second largest category at that time was residential use, with over 7,700 acres. Approximately 10 percent of the land in the State is owned by the Federal government, 39 percent by State government, 47 percent by major private owners (those with 1,000 or more acres), and less than 6 percent by small landowners.

Reports of the Congressional Committee on Government Operations, University of Hawaii Land Study Bureau and Legislative Reference Bureau, and Oahu Transportation Study provided the data for this section. Statistics for the Mainland are available in Sections 7 and 23 of the *Statistical Abstract of the United States: 1969*.

Table 38. -- LAND USE ACREAGES, BY ISLAND: 1968

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

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

2. Includes game management areas (87,585), national parks (229,423), and other recreation areas (17,248).

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

Table 39. -- LAND USE SUMMARY, FOR OAHU: 1964

Land use	Area (in acres)		
	Oahu	Honolulu	Rest of Oahu
Total area <sup>1</sup> .....	381,310	54,561	326,749
Residential .....	22,157	7,766	14,391
Industrial .....	6,352	2,377	3,975
Commercial .....	1,450	899	551
Hotel .....	73	70	3
Public buildings .....	4,741	2,469	2,272
Public open spaces .....	7,861	3,339	4,522
Highways and streets .....	7,405	3,320	4,085
Agriculture .....	94,474	1,343	93,131
Military .....	<u>48,633</u>	5,003	43,630
Unused open space .....	188,164	27,975	160,189

Footnotes and source follow next table.

Table 40. -- LAND AND FLOOR AREA IN COMMERCIAL AND HOTEL USE, FOR OAHU: 1964

Land use	No. of establish.	Land area (acres)	Floor area (square feet)	
			Total	Per estab.
Retailing .....	3,746	1,016	10,986,345	2,933
Services, exc. hotels .....	4,862	434	9,146,100	1,881
Hotels .....	60	73	5,001,017	83,350

1. Later revised to 379,328 for Oahu, 53,504 for Honolulu, and 325,824 for the rest of Oahu.

Source: State of Hawaii and City and County of Honolulu, Oahu Transportation Study, Vol. I, Economic, Population, and Land Use (1967), pp. IV-A-1, IV-A-2, and IV-A-3.

Table 41. -- LAND OWNERSHIP, BY ISLAND: 1964  
(In acres)

Island	All owners <sup>1</sup>	Government		Private	
		Federal <sup>2</sup>	State <sup>3</sup>	Major <sup>4</sup>	Other
All islands <sup>5</sup> .....	4,105,600	401,482	1,590,532	1,923,183	224,193
Hawaii .....	2,573,440	210,984	1,126,121	1,052,582	183,753
Kahoolawe .....	28,800	28,770	--	--	30
Maui .....	465,920	17,181	204,400	230,496	13,843
Lanai .....	90,240	8	--	88,792	1,440
Molokai .....	165,760	353	51,400	110,444	3,563
Oahu <sup>5</sup> .....	380,800	139,925	56,672	217,851	--
Kauai .....	352,640	2,200	151,939	176,953	21,549
Niihau .....	46,080	--	--	46,065	15
Other islands <sup>5</sup> .....	1,920	2,062	--	--	--
PERCENT DISTRIBUTION					
All islands <sup>5</sup> .....	100.0	9.8	38.7	46.8	5.5
Hawaii .....	100.0	8.2	43.8	40.9	7.1
Kahoolawe .....	100.0	99.9	--	--	0.1
Maui .....	100.0	3.7	43.9	49.5	3.0
Lanai .....	100.0	0.0	--	98.4	1.6
Molokai .....	100.0	0.2	31.0	66.6	2.1
Oahu <sup>4</sup> .....	100.0	6.7	14.9	57.2	--
Kauai .....	100.0	0.6	43.1	50.2	6.1
Niihau .....	100.0	--	--	100.0	0.0
Other islands .....	100.0	100.0	--	--	--

1. For more recent estimates of total land area, see table 38.

2. Includes fee simple and ceded land.

3. Includes State land managed by Hawaiian Homes Commission or County governments.

4. Owners with 1,000 acres or more in the State.

5. See source for explanation of apparent discrepancies.

Source: Robert H. Horwitz and Judith B. Finn, Public Land Policy in Hawaii: Major Landowners (Legislative Reference Bureau, University of Hawaii, Report No. 3, 1967), p. 99.

Table 42. -- LAND OWNERSHIP, PUBLIC AND PRIVATE, BY COUNTY: 1965

Subject	The State <sup>1</sup>	Hawaii County	Honolulu County	Kauai County	Maui County
NUMBER OF ACRES					
All land .....	4,105,600	2,573,440	382,720	398,720	750,720
Government lands .....	1,220,239	814,001	103,464	102,559	200,216
United States .....	310,064	212,276	49,005	2,288	46,495
State of Hawaii <sup>1</sup> .....	823,588	565,944	43,641	88,699	125,304
Hawaiian Homes.....	71,632	34,122	895	9,281	27,334
Counties .....	14,955	1,659	9,923	2,291	1,083
Private lands <sup>1</sup> .....	2,885,361	1,759,439	279,256	296,161	550,504
PERCENT DISTRIBUTION					
All land .....	100.0	100.0	100.0	100.0	100.0
Government lands .....	29.7	31.6	27.0	25.7	26.7
United States .....	7.6	8.2	12.8	0.6	6.2
State of Hawaii <sup>1</sup> .....	20.1	22.0	11.4	22.2	16.7
Hawaiian Homes .....	1.7	1.3	0.2	2.3	3.6
Counties .....	0.4	0.1	2.6	0.6	0.1
Private lands <sup>1</sup> .....	70.3	68.4	73.0	74.3	73.3

1. State-owned land leased to private industry is included with private lands for statistical purposes.

Source: Hawaii Department of Taxation, records.

Table 43. -- FEDERALLY OWNED PROPERTY: 1960 AND 1968

Subject	June 30, 1960	June 30, 1968
Number of installations .....	167	142
Land (acres), total .....	234,074.1	397,278.9
Urban .....	23,530.2	55,233.4
Rural .....	210,543.9	342,045.5
Number of buildings .....	11,506	11,590
Cost (\$1,000), total .....	877,162	1,051,246
Land .....	21,910	25,374
Buildings .....	407,478	514,262
Structures and facilities .....	447,774	511,610

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

Table 33. -- AEROMETRIC SURVEY DATA FOR DOWNTOWN HONOLULU: 1968  
 (Aerometric survey conducted from the fourth floor lanai of the State Health Department Bldg., 1250 Punchbowl St., Honolulu, for 30-minute periods between 7:30 and 8:30 a.m., representing morning traffic peaks. In parts per million.)

Pollutant	Average			Range	
	Annual	Lowest month	Highest month	Lowest	Highest
Oxidant potassium iodine .....	0.003	0	0.009	0	0.040
Nitrogen dioxide .....	0.030	0.022	0.043	0.004	0.080
Sulphur dioxide .....	0.011	0.006	0.017	0	0.096
Carbon monoxide .....	2.7	1.	5.	T	15.

Source: Hawaii State Department of Health, Air Sanitation Branch, records. Based on data for 239 days.

Table 34. -- WATER QUALITY DATA FOR OAHU BEACHES: 1960 TO 1968

Beach	Coliform per 100 milliliters (logarithmic average)		
	1968	1967	1960
Ala Moana Park .....	14	1.6	11
Fort DeRussy .....	25	18.7	7
Kuhio Beach .....	12	12.7	6
Hanauma Bay .....	6	6.3	2
Kailua Beach .....	12	37.3	6
Punaluu Park .....	20	49.5	157
Haleiwa Park .....	21	11.0	81
Waianae Park .....	52	10.4	3
Ewa Beach .....	6	5.9	9

Source: Annual Report, Department of Health, State of Hawaii, Statistical Supplement for 1960 (p. 86), 1967 (p.87), and 1968 (p. 87).

Table 35. -- AVERAGE BETA RADIOACTIVITY CONCENTRATION IN AIR, 1961 TO 1967, AND AIR QUALITY, 1966-1967, FOR HONOLULU

Year	Ave. Beta concentration <sup>1</sup>	Pollutant	Minimum	Maximum	Arithmetic average
1961 .....	1.0	Suspended particulate			
1962 .....	2.3	matter, 1967 <sup>2</sup> .....	22	83	38
1963 .....	2.6	Benzene - soluble organic			
1964 .....	0.6	matter, 1967 <sup>2</sup> .....	1.9	2.7	2.5
1965 .....	0.2	Radioactivity, 1966 <sup>1</sup> .....	0.0	1.8	0.2
1966 .....	0.2				
1967 .....	0.3				

1. In micromicrocuries per cubic meter.

2. Micrograms per cubic meter.

Source: U. S. Public Health Service, as cited in Statistical Abstract of the United States: 1969, pp. 170 and 172.



Table 36. -- CLIMATIC DATA FOR SELECTED PLACES

Island and station <sup>1</sup>	Ground elevation (feet)	Normal average temperature (°F.)		Extreme temperature of record (°F.)		Normal precipitation (inches)	Ave. ann. percent possible sunshine
		Coolest month	Warmest month	Lowest	Highest		
<b>Hawaii:</b>							
Hilo Airport .....	27	70.6	75.8	53	94	136.62	38
National Park Hdq. ....	3,971	57.9	63.6	37	85	98.45	--
Kona Airport .....	17	70.6	77.2	56	92	24.27	--
Puako (Mahukona) .....	11	73.9	80.4	52	97	9.46	--
Kamuela .....	2,670	62.0	66.5	34	90	37.90	--
<b>Maui:</b>							
Hana .....	120	71.3	76.8	50	90	70.32	--
Haleakala Summit .....	9,960	42.9	50.8	14	73	42.62	--
Kihei (Puunene A.P.) ....	90	71.1	78.5	49	98	12.33	--
Kahului Airport .....	48	71.7	79.0	48	95	16.33	69
Lahaina .....	45	71.3	77.8	52	93	13.59	--
<b>Molokai:</b>							
Kaunakakai .....	12	--	--	--	--	13.92	--
Molokai Airport .....	450	70.0	77.5	48	90	27.36	--
<b>Oahu:</b>							
Honolulu Int. Airport .....	7	72.5	80.6	52	93	21.89	69
Honolulu Federal Bldg. <sup>2</sup> ..	12	71.9	78.4	57	88	23.96	65
Waikiki <sup>3</sup> .....	10	72.1	81.1	53	93	36.16	--
Laie (Kahuku) .....	25	71.4	78.3	49	95	49.17	--
Waianae .....	20	71.8	80.3	45	96	19.64	--
<b>Kauai:</b>							
Hanalei (Kilauea Pt.) .....	180	70.7	78.4	47	93	85.00	--
Wailua (Kealia) .....	9	71.0	78.8	44	93	42.71	--
Lihue Airport .....	103	70.7	78.4	50	90	43.00	56
Poipu (Makahuena Pt.) ...	52	72.0	79.2	50	93	34.82	--
Kokee (Kanalohuluhulu) ...	3,600	56.1	63.4	27	83	70.80	--
Waialeale .....	5,075	--	--	--	--	486.1	--

1. Temperature data are not available for Puako, Kihei, Laie, Hanalei, Wailua, Poipu and Kokee, and are accordingly based on data for the stations given in parentheses.

2. Temperature sensors are 80 feet above the ground.

3. Located at Honolulu Zoo. Available for only four years. The rainfall average in particular is thought to be well above the long term average. Average water temperatures off Waikiki Beach range from 75° F. in late February to 79° in late September.

Source: Weather Bureau Pacific Region, Environmental Science Services Administration, May 8, 1969 and May 19, 1969.

Table 37. -- CLIMATIC EXTREMES, EARTHQUAKES, VOLCANIC ERUPTIONS, AND TSUNAMIS

Subject	Date	Place	Magnitude
CLIMATE (VARYING PERIODS)			
Lowest monthly average temperature (°F.) ...	February	Mauna Loa Obs.	39.8
Highest monthly average temperature (°F.)...	August	Honolulu Airport	82.3
Lowest temperature of record (°F.) .....	Jan. 2, 1961	Haleakala Summit	14.0
Highest temperature of record (°F.) .....	April 27, 1931	Pahala	100.0
Lowest average annual rainfall (in.) .....	--	N. of Kawaihae	5.7
Highest average annual rainfall (in.) .....	--	Waialeale	486.1
Lowest annual rainfall of record (in.) .....	1953	Kawaihae	0.2
Highest annual rainfall of record (in.) .....	1947-1948	Waialeale	624.1
Highest wind speed of record (m.p.h.) .....	Jan. 17-18, 1959	Mauna Loa Obs.	105+
EARTHQUAKES, 1838-1969			
Greatest Richter magnitude .....	Mar. 27, 1868	Hawaii	7-1/2
Second greatest Richter magnitude .....	Jan. 23, 1938	Hawaii	6-3/4
VOLCANIC ERUPTIONS, 1832-1969			
Longest duration (days) .....	1873-1874	Mauna Loa	547
	1919	Kilauea	294
Greatest area covered (square mi.) .....	1950	Mauna Loa	35.0
	1840	Kilauea	6.0
Greatest lava volume (million cubic yds.) ...	1859, 1950	Mauna Loa	600
	1840	Kilauea	281
TSUNAMIS (1819-1969)			
Greatest wave height (meters) .....	April 2, 1868	S. E. Hawaii	20
Greatest damage (\$1,000) .....	April 1, 1946	All islands	26,000
Most deaths .....	April 1, 1946	All islands	173

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

## Recreation and Tourism

Statistics on travel, recreation, hotels, and parks appear in this section.

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 1,369,000 in 1969. During the same time, visitor expenditures rose from \$16.4 million to \$577 million. About 18 percent of the 1969 visitors were armed forces on Rest and Recuperation Leave or friends and relatives meeting them in Hawaii. Average length of stay, excluding eastbound and layover visitors, was 12.3 days, and expenditure per visitor day averaged \$37.23.

There were almost 27,000 hotel units in the State as of February 1970, compared with 6,825 ten years earlier. Two-thirds of the units are on Oahu, chiefly in Waikiki. Hotel occupancy rates in 1969 averaged 81 percent in Waikiki and 69 percent on the Neighbor Islands.

Hawaii has three national parks, 38 State parks, 320 County parks, 36 golf courses, and 24.4 miles of safe, sandy, accessible beach.

Recreational and cultural facilities reporting more than 100,000 annual visitors include eight National or State parks, the Honolulu Academy of Arts, Honolulu Symphony Orchestra, Honolulu International Center, Honolulu Zoo, Sea Life Park, Waikiki Aquarium, professional baseball, college football, the Kodak Hula Show, and Polynesian Cultural Center. Over 113,000 Hawaii residents traveled to the Mainland in 1967 and half of them were absent more than 18 days.

Information on these subjects is issued periodically by the Hawaii Visitors Bureau, the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, and other organizations. An extensive summary of statistics on recreation and tourism, *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: 1969*.

Table 44. -- OVERNIGHT VISITORS, AVERAGE VISITOR CENSUS, AND VISITOR EXPENDITURES IN HAWAII: 1922 TO 1969

Year	Overnight or longer visitors	Visitor expenditures in Hawaii (\$1,000,000)	Year	Overnight or longer visitors	Average visitor census <sup>1</sup>	Visitor expenditures in Hawaii (\$1,000,000)
1922 .....	9,676	4.4	1946 .....	15,000	975	6.3
1923 .....	12,021	5.5	1947 .....	25,000	1,625	12.1
1924 .....	12,468	5.7	1948 .....	36,397	2,366	18.9
1925 .....	15,193	7.2	1949 .....	34,386	2,235	17.7
1926 .....	16,762	8.0	1950 .....	46,593	3,027	24.2
1927 .....	17,451	8.2	1951 .....	51,565	3,350	29.0
1928 .....	19,980	9.2	1952 .....	60,539	3,796	32.8
1929 .....	22,190	10.3	1953 .....	80,346	4,746	42.6
1930 .....	18,651	8.7	1954 .....	91,289	5,369	48.9
1931 .....	15,780	6.9	1955 .....	109,798	6,042	55.0
1932 .....	10,370	4.1	1956 .....	133,815	6,947	65.0
1933 .....	10,111	3.8	1957 .....	168,829	8,205	77.6
1934 .....	16,161	6.3	1958 .....	171,588	8,397	82.7
1935 .....	19,933	7.9	1959 .....	243,216	10,390	109.0
1936 .....	22,199	8.9	1960 .....	296,517	11,797	131.0
1937 .....	21,987	9.5	1961 .....	319,807	11,960	137.0
1938 .....	23,043	10.2	1962 .....	362,145	13,125	154.0
1939 .....	24,390	11.0	1963 .....	429,140	15,316	186.0
1940 .....	25,373	12.0	1964 .....	508,870	16,739	225.0
1941 .....	31,846	16.4	1965 .....	606,010	18,632	265.0
1942 .....	} War years; visitor industry suspended		1966 .....	717,550	19,861	302.0
1943 .....			1967 .....	1,001,810	27,670	400.0
1944 .....			1968 .....	1,209,417	35,125	460.0
1945 .....			1969 .....	1,369,058	35,126	576.8

NA Not available.

1. Not available before 1946 (except 1931, estimated at 1,200).

Source: Hawaii Visitors Bureau, annual research reports, 1952-1968, and records; Hawaii State Department of Planning and Economic Development, Tourism Data Book: 1969, p. 14.

Table 45. -- VISITOR ARRIVALS AND VISITOR DAYS, BY MILITARY STATUS: 1965 TO 1969

Military status	All groups	Rest and Recuperation		All others	
		Personnel <sup>1</sup>	Dependents <sup>2</sup>	Westbound	Eastbound and north bound
Visitor arrivals: <sup>3</sup>					
1965 .....	606,010	--	--	486,300	119,710
1966 .....	717,550	6,970	4,531	557,479	148,570
1967 .....	1,001,810	70,150	50,174	719,921	161,565
1968 .....	1,209,417	101,129	96,740	813,950	197,598
1969 .....	1,369,058	116,327	129,776	893,299	229,656
Visitor days: <sup>4</sup>					
1965 .....	6,801	--	--	5,583	1,217
1966 .....	7,249	42	35	6,328	845
1967 .....	10,100	421	383	8,290	1,005
1968 .....	12,820	607	739	9,380	2,095
1969 .....	12,821	582	779	10,760	701

NA Not available.

1. All eastbound. Flights began in August 1966.

2. All westbound.

3. Overnight and longer only.

4. In thousands. Totals independently rounded. Includes one-day visitors.

Source: Hawaii Visitors Bureau data cited in Hawaii State Department of Planning and Economic Development, Hawaii Tourism Data Book: 1969, p. 16, and Hawaii Visitors Bureau, records.

Table 46. -- CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1951 TO 1969

Year	California residents (percent)	Males per 1,000 females	Median age (years)	High-status occupations <sup>1</sup> (percent)	Persons per party	Arriving in June, July, or August (percent)	Arriving by sea (percent)
1951 .....	52.3	739	44.8	51.3	1.47	31.0	43.6
1956 .....	45.1	706	45.1	47.6	1.52	32.6	19.5
1961 .....	46.9	749	45.4	52.3	1.49	35.5	12.3
1966 .....	39.7	798	45.3	59.9	1.58	30.9	4.1
1967 .....	36.5	682	43.2	52.3	1.55	33.0	2.9
1968 .....	34.2	631	41.7	48.3	1.52	32.9	2.1
1969 .....	33.4	641	40.1	48.3	1.53	31.8	1.2

Year	Repeat visitors <sup>2</sup> (percent)	Pleasure trip (percent)	Staying in hotel (percent)	Average intended stay (days)	Intending to visit Neighbor Islands (percent)	Average visitor census	
						Number	Percent <sup>3</sup>
1951 .....	22.3	72.3	(NA)	25.0	63.9	2,971	96.7
1956 .....	27.5	77.6	79.2	22.0	66.0	6,166	95.8
1961 .....	29.1	68.4	(NA)	17.2	(NA)	9,561	92.8
1966 .....	32.1	71.6	87.1	12.7	64.1	15,989	91.7
1967 .....	29.0	74.9	84.9	12.3	56.5	22,012	92.6
1968 .....	28.5	76.8	84.6	12.1	54.9	25,993	93.8
1969 .....	30.6	72.9	83.2	12.3	53.2	29,451	94.0

NA Not available.

1. Party heads only. Professional, technical, business, managerial and official workers as percent of number reporting occupation or labor force status.

2. Party heads only.

3. Percent of average for all westbound visitors, including those destined beyond Hawaii.

Source: Hawaii Visitor Bureau, Annual Research Report (annual) and records.

Table 47. -- HAWAII RESIDENTS RETURNING FROM THE MAINLAND: 1967

Subject	Number
Number returning .....	113,660
Percent increase since 1957 .....	292.8
Oahu residents (percent of total) .....	88.0
Persons per party .....	1.24
Armed forces (percent of total) .....	11.7
Average number absent .....	12,900
Days absent, median .....	18.4
Days absent, average .....	45.9
Traveling by air (percent of total) .....	99.4

Source: Hawaii Department of Planning and Economic Development, Out-of-State Travel by Hawaii Residents During 1967 (Statistical Report 60, July 3, 1968).

Table 48. -- HOTEL UNITS, BY GEOGRAPHIC AREA: 1952 TO 1970

Geographic area	July 1952	January 1960	November 1968	February 1970	
				Existing	Planned <sup>1</sup>
The State .....	2,805	6,825	21,243	26,923	36,579
Oahu .....	2,142	5,716	15,138	18,449	14,092
Waikiki to Kahala .....	1,788	5,290	13,286	16,590	10,765
Other Honolulu .....	354	373	1,132	1,105	1,953
Other Oahu .....	--	53	720	754	1,374
Hawaii .....	370	581	2,353	3,166	10,745
Hilo and Hamakua .....	176	249	926	1,328	2,167
North and South Kohala .....	27	18	324	338	1,634
North and South Kona .....	129	270	1,042	1,449	5,776
Kau and Puna .....	38	44	61	51	1,168
Maui .....	144	247	2,081	2,643	6,332
Hana and Makawao .....	62	74	96	103	14
Wailuku and Kahului .....	82	159	596	428	600
Kihei .....	--	4	80	286	3,062
Lahaina .....	--	10	1,309	1,826	2,656
Lanai .....	11	11	10	11	--
Molokai .....	23	33	123	89	1,619
Kauai .....	115	237	1,538	2,565	3,791
Hanalei .....	6	--	79	176	1,058
Kapaa and Wailua .....	24	120	333	1,181	2,282
Lihue .....	75	117	538	659	110
Koloa .....	10	--	576	537	261
Waimea .....	--	--	12	12	80

1. Includes 4,831 scheduled for completion in 1970, 5,969 for 1971, 866 for 1972, and 2,426 without definite completion date.

Source: Harris, Kerr, Forster and Company, unpublished data from 1952 and 1960 surveys; Hawaii Visitors Bureau, Visitor Plant Inventory for November 1968 and February 1970.

Table 49. -- HOTEL UNITS, OCCUPANCY RATES, EMPLOYMENT, AND PAYROLL: 1963 TO 1969

Year	Hotel units <sup>1</sup>				Occupancy rates: Waikiki <sup>2</sup>	
	State	Oahu	Neighbor islands		Large hotels	Other hotels
			Number	Percent		
1963 .....	11,403	9,203	2,200	19.3	79.2	75.6
1964 .....	12,903	10,031	2,872	22.3	72.8	76.2
1965 .....	14,827	11,083	3,744	25.3	82.6	81.6
1966 .....	17,217	12,598	4,619	26.8	86.0	81.2
1967 .....	18,235	13,004	5,231	28.7	90.8	89.8
1968 .....	21,243	15,138	6,105	28.7	91.0	84.1
1969 .....	25,822	18,209	7,613	29.5	81.9	79.3

Year	Occupancy rates: Neighbor Islands <sup>2</sup>			Covered employ- ment <sup>2</sup>	Wages paid	
	Hawaii	MauI	Kauai		Total (\$1,000)	Per worker (\$)
1964 .....	70.1	65.9	72.3	5,823	21,069	3,618
1965 .....	71.9	63.9	71.0	6,308	23,394	3,709
1966 .....	68.7	63.5	71.1	7,316	28,173	3,851
1967 .....	71.3	71.1	79.4	8,944	34,927	3,905
1968 .....	78.4	71.6	75.8	10,550	46,730	4,334
1969 .....	76.4	67.1	62.5	12,900	(NA)	(NA)

NA Not available.

1. December 31, 1963 to 1967, November 1968, and October 1969.

2. Annual averages.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (periodic), Annual Research Report, and unpublished data; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and Labor Force Estimates (monthly).

Table 50. -- 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 51 -- STATISTICS OF NATIONAL, STATE AND COUNTY PARKS: 1968-1970

Park	Acreage, Dec. 31, 1969	Visits (thousands)				
		1968	1969			
Hawaii Volcanoes National Park .....	220,345	918.0	719.9			
Haleakala National Park.....	27,283	132.7	146.8			
City of Refuge National Historical Park <sup>1</sup> .....	181	250.7	220.2			
County	State parks			County parks		
	Number of areas, 1969	Acreage, 1969	Visits (thousands)		Number of areas, 1970 <sup>2</sup>	Acreage, 1970 <sup>2</sup>
			1968	1969		
All counties...	38	8,231.2	4,767	6,142	414	5,739
Hawaii .....	12	176.2	1,618	1,589	72	761
Maui .....	10	256.9	660	817	49	442
Honolulu.....	11	178.1	400	807	249	4,105
Kauai.....	5	7,620.0	2,488	2,929	44	431

1. The 1968-1969 decrease in visits was primarily the result in a change in the assumptions underlying the estimates.

2. Data for the Counties of Hawaii, Maui, and Kauai pertain to July 1, 1967.

Source: U. S. Department of the Interior, National Park Service, records; Hawaii State Department of Land and Natural Resources, 1968-1969 Report to the Governor, p. 80; county park departments, records.

Table 52. -- SELECTED RECREATIONAL STATISTICS: 1967-1969

Subject	Number	Attraction	Persons
Sandy shoreline (miles) .....	184.9	Attendance, 1967:	
Safe, clean accessible .....	24.4	Bishop Museum .....	75,321
Seasonal swimming .....	24.3	Hon. Academy of Arts .....	112,582
Unsuitable for swimming .....	136.2	Hon. Symphony Orchestra .....	213,419
Golf courses, 1968 .....	36	Hon. Community Theatre .....	27,678
County .....	6	Hon. International Center .....	291,761
Military .....	7	Univ. of Hawaii Theatre Group .....	37,116
Private .....	23	Honolulu Zoo .....	898,178
Fresh-water game fishing		Sea Life Park.....	405,000
licenses issued, 1969 <sup>1</sup> .....	3,798	Waikiki Aquarium .....	255,426
Hunting licenses issued, 1969 <sup>1</sup> ...	8,629	Professional baseball .....	219,005
		Univ. of Hawaii football .....	113,992
		Kodak Hula Show .....	374,400
		Polynesian Cultural Center .....	437,138

1. Year ended June 30.

Source: Hawaii Department of Planning and Economic Development, Hawaii Tourism Data Book: 1969, pp. 35, 39, 40; Hawaii Department of Land and Natural Resources, 1968-1969 Report to the Governor, p. 41.

## Labor Force 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, and hours of workers.

The number of employed persons doubled between 1940 and 1969, reaching 360,000 in April of the latter year. Agricultural employment fell from 55,000 to 14,000 during this period, while nonagricultural workers (excluding armed forces) rose from 99,000 to 290,000.

The unemployment rate averaged 2.7 percent in 1969, with county levels ranging from 2.6 to 3.6 percent. The labor force contains above-average proportions of younger persons and women: a recent survey reported that 47 percent of all females 17 years of age or more were either employed or seeking work. By occupation, one out of six civilian workers is classified as professional or technical.

Activities with especially large numbers of employees include government (69,000 in 1969, half of them in Federal jobs), services (48,000), retail trade (45,000), and manufacturing (24,000).

Wages and salary levels are high: the average annual earnings of private wage and salary workers under the Hawaii Employment Security Law reached \$5,852 in 1968 (twice the 1952 average), and in some categories exceeded \$9,000. Average weekly hours ranged from 34.0 (for hotels) to 43.6 (for communications and utilities).

Principal sources for these data are the decennial reports of the U.S. Bureau of the Census, 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: 1969*.

Table 53. -- POPULATION 14 YEARS OLD AND OVER AND EMPLOYMENT,  
BY SEX AND ACTIVITY: 1878 TO 1969

Year <sup>1</sup>	Popula- tion 14 and over <sup>2</sup>	Employment					
		Total	Sex		Activity		
			Male	Female	Agricul- ture <sup>3</sup>	Civilian non-ag.	Armed forces
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
1969 .....	553,000	360,050	(NA)	(NA)	14,450	290,150	55,450

NA Not available.

1. Census dates, 1878-1960; April 1969.

2. 15 and over for dates before 1900.

3. Includes forestry and fisheries.

Source: Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), pp. 73, 77, and 127; U. S. Census of Population: 1960, Final Report PC (1) - 13C, tables 53 and 62; Hawaii Department of Labor and Industrial Relations, Labor Force Estimates, April 12, 1969; Hawaii Department of Planning and Economic Development, April 1969 estimate of armed forces and population 14 and over derived from Statistical Report 68 (September 12, 1969), p. 3; and U. S. Bureau of the Census, Current Population Reports, Series P-25, No. 437 (January 16, 1970), pp. 7 and 11.

Table 54. -- LABOR FORCE ESTIMATES, BY COUNTY: ANNUAL AVERAGES, 1958 TO 1969

Geographic area and year	Civilian labor force	Civilian employment	Labor disputes	Unemployment	
				Number	Percent
<b>The State:</b>					
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 .....	305,480	295,730	870	8,880	2.9
1969 .....	325,600	316,000	800	8,800	2.7
<b>Oahu:</b>					
1959 .....	172,800	167,540	--	5,260	3.0
1969 .....	264,400	257,400	100	6,800	2.6
<b>Hawaii County:</b>					
1959 .....	22,190	21,590	--	600	2.7
1969 .....	27,500	26,400	200	800	3.1
<b>Maui County:</b>					
1959 .....	16,420	15,830	--	590	3.6
1969 .....	20,600	19,700	200	700	3.6
<b>Kauai County:</b>					
1959 .....	11,570	11,180	--	390	3.4
1969 .....	13,100	12,500	200	400	3.3

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

Table 55. -- EMPLOYMENT STATUS, BY AGE AND SEX, FOR OAHU, 1965, AND  
THE NEIGHBOR ISLANDS, 1967  
(Excludes persons living in institutions or barracks)

Island, sex, and age	Total	In labor force			Not in labor force	Status not reported	
		Total	Armed forces	Employed civilians			Unem- ployed
OAHU <sup>1</sup>							
Male, 17 and over.....	173,160	152,945	28,015	122,005	2,925	20,215	--
17 to 24 years .....	30,550	22,620	4,485	16,835	1,300	7,930	--
25 to 44 years .....	82,030	81,120	22,230	58,110	780	910	--
45 to 64 years .....	48,620	45,825	1,300	43,875	650	2,795	--
65 years and over .....	11,960	3,380	--	3,185	195	8,580	--
Female, 17 and over .....	178,425	84,110	--	80,015	4,095	94,315	--
17 to 24 years .....	39,845	19,305	--	17,550	1,755	20,540	--
25 to 44 years .....	84,565	41,340	--	39,845	1,495	43,225	--
45 to 64 years .....	41,860	22,165	--	21,385	780	19,695	--
65 years and over .....	12,155	1,300	--	1,235	65	10,855	--
NEIGHBOR ISLANDS <sup>2</sup>							
Male, 17 and over <sup>3</sup> .....	43,508	32,886	--	32,098	788	8,340	2,282
17 to 44 years .....	20,035	16,420	--	15,800	619	2,343	1,272
45 to 64 years .....	17,627	15,249	--	15,102	147	1,812	565
65 years and over .....	5,680	1,051	--	1,030	21	4,185	444
Female, 17 and over <sup>3</sup> .....	41,299	19,202	--	18,620	582	19,141	2,956
17 to 44 years .....	22,643	12,318	--	11,850	468	8,707	1,619
45 to 64 years .....	13,294	6,383	--	6,302	82	6,274	636
65 years and over .....	5,132	420	--	387	33	4,044	668

1. For 12-month period ended November 30, 1965.

2. For Fall 1967.

3. Includes 166 males and 231 females not reporting age.

Source: Hawaii Department of Planning and Economic Development, Statistical Reports 40 (July 29, 1966), pp. 3-4 and underlying data, and 58 (May 17, 1968), p. 10.

Table 56. -- OCCUPATION, BY SEX, FOR OAHU, 1965, AND THE NEIGHBOR ISLANDS, 1967  
(Excludes persons living in institutions or barracks)

Occupation	Oahu: Dec. 1964 to Nov. 1965		Neighbor Islands: Fall 1967	
	Male <sup>1</sup>	Female	Male	Female
Civilian employees .....	122,200	80,015	32,098	18,620
Professional, technical .....	20,020	14,170	3,335	2,593
Farmers, farm managers .....	1,105	650	1,480	248
Managers, officials, proprietors ....	18,460	4,940	4,655	1,948
Clerical workers .....	9,620	26,195	1,370	3,468
Sales workers .....	7,345	7,020	733	1,276
Craftsmen, foremen .....	27,235	650	4,261	175
Operatives .....	15,665	8,320	4,079	1,214
Service workers .....	9,750	16,835	2,208	3,858
Farm laborers, foremen .....	1,235	390	5,771	1,380
Laborers, except farm .....	11,375	455	3,618	1,221
Not reported .....	390	390	586	1,239

1. For technical reasons adds to slightly different total than distribution by age in table 55.

Source: Hawaii Department of Planning and Economic Development, Statistical Reports 40 (July 29, 1966), p. 5 and underlying data, and 58 (May 17, 1968), p. 11.

Table 57. -- EMPLOYMENT ESTIMATES, BY INDUSTRY, BY GEOGRAPHIC  
AREA: ANNUAL AVERAGES, 1958 TO 1968

Industry	1958	1963	1968				
			State	Oahu	Hawaii County	Maui County	Kauai County
Employed .....	201,370	238,630	295,730	238,740	25,660	18,870	12,460
Contract construction .....	12,660	15,050	18,720	16,190	1,210	860	470
Food processing .....	15,380	15,880	13,120	7,440	2,450	1,880	1,440
Sugar .....	(NA)	(NA)	5,210	1,170	1,890	950	1,200
Pineapple .....	(NA)	(NA)	4,480	3,570	--	780	120
Other .....	(NA)	(NA)	3,430	2,700	470	150	120
Other manufacturing .....	7,210	9,150	10,600	9,490	560	370	180
Transportation .....			12,730	10,820	800	630	480
Communication .....	12,960	15,370	5,250	4,470			
Utilities .....			2,430	1,910	460	330	510
Wholesale trade .....	10,510	12,760	14,200	12,330	1,230	380	260
Retail trade .....	26,130	33,280	45,150	38,430	3,050	2,190	1,470
Finance, ins., real est. ..	7,360	11,040	14,730	13,600	570	390	170
Hotels .....	3,660	5,240	10,550	6,340	1,850	1,270	1,090
Other services, misc. ....	21,980	28,970	37,710	33,650	1,650	1,380	1,030
National defense <sup>1</sup> .....	18,350	18,420	23,120	23,110	10	--	--
Other Federal government ..	7,210	9,490	11,970	11,320	260	180	210
State government .....	13,700	16,430	24,420	19,850	2,270	1,390	920
Local government .....	7,710	8,550	9,840	6,640	1,470	1,080	650
Agricult .....	12,270	12,690	12,130	2,880	2,900	4,150	2,190
Sugar .....	6,830	7,330	6,490	1,110	1,970	1,560	1,850
Pineapple .....	4,120	3,890	3,390	1,120	--	2,160	100
Other .....	1,320	1,470	2,250	650	930	430	240
Other non-agric. <sup>2</sup> .....	18,540	21,990	25,080	19,070	2,890	1,960	1,160
Other agricultural <sup>2</sup> .....	5,740	4,320	3,980	1,200	2,120	430	230

NA Not available.

1. Civilians only.

2. Self-employed workers, unpaid family workers.

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

Table 58. -- PRIVATE EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW: 1952 TO 1968

Year	Covered employment	Average annual wage (\$)	Total wages (\$1,000)	Year	Covered employment	Average annual wage (\$)	Total wages (\$1,000)
1952 .....	98,477	2,935	289,054	1961 .....	153,170	4,190	641,796
1953 .....	100,996	2,985	301,491	1962 .....	154,297	4,332	668,355
1954 .....	99,292	3,046	302,431	1963 .....	157,798	4,478	706,637
1955 .....	102,787	3,118	320,476	1964 .....	163,464	4,737	774,313
1956 .....	107,267	3,196	342,863	1965 .....	171,468	4,939	846,892
1957 .....	111,474	3,392	378,108	1966 .....	181,160	5,149	932,709
1958 .....	114,167	3,620	413,317	1967 .....	186,810	5,364	1,002,002
1959 .....	139,550	3,690	514,993	1968 .....	195,415	5,852	1,143,641
1960 .....	148,607	4,067	604,400				
Island and industry				Covered employment	Average annual wage (\$)	Total wages (\$1,000)	
Islands, 1968: <sup>1</sup>							
Oahu .....				154,047	6,025	928,150	
Hawaii .....				14,112	5,163	72,857	
Maui .....				9,414	5,111	48,115	
Kauai .....				7,446	5,049	37,597	
Molokai and Lanai .....				585	4,054	2,372	
Industries, 1968:							
Agriculture, forestry, fisheries .....				11,605	5,453	63,279	
Mining (quarrying) .....				34	8,890	302	
Contract construction .....				18,916	8,946	169,225	
Manufacturing .....				24,048	6,310	151,739	
Transportation .....				12,739	7,248	92,328	
Communications .....				5,353	8,822	47,225	
Electric, gas and sanitary services .....				2,369	8,911	21,110	
Wholesale trade .....				14,390	7,060	101,594	
Retail trade .....				45,053	4,043	182,130	
Finance, insurance, real estate .....				14,269	6,439	91,878	
Services .....				46,599	4,778	222,659	
Nonclassifiable establishments .....				40	4,307	172,263	

1. Excludes workers and payroll not allocatable by island.

Source: Hawaii Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 59. -- WAGE AND SALARY RATES FOR SELECTED OCCUPATIONS: 1841 TO 1969

Occupation and year <sup>1</sup>	Annual salary (dollars)	Occupation and year	Monthly salary (dollars)	Occupation and year	Daily wage (dollars <sup>4</sup> )
Chief executive: <sup>2</sup>		Policeman, Honolulu:		Sugar workers:	
1844 .....	6,000	1843 .....	3.50	1841-44 .....	0.125
1860 .....	16,000	1847 .....	6.00	1854 .....	0.11-0.25
1872 .....	22,500	1861 .....	20.00	1863 .....	0.31-0.38
1888 <sup>3</sup> .....	57,588	1873-77 .....	20-22	1888-90 .....	0.60-0.86
1898 .....	12,000	1888 .....	30	1902 <sup>5</sup> .....	0.64
1900 .....	5,000	1903 .....	60	1910 <sup>5</sup> .....	0.70
1910 .....	7,000	1904 .....	75	1915 <sup>5</sup> .....	0.74
1921 .....	10,000	1932 .....	135	1929 .....	1.82
1949 .....	15,000	1940 .....	158	1939 .....	1.88
1956 .....	19,000	1950 .....	245	1947 .....	7.63
1959 .....	25,000	1960 .....	444	1956 .....	10.73
1962 .....	27,500	1966 .....	504	1965 <sup>6</sup> .....	18.40
1965 .....	33,500	1969 .....	555	1969 <sup>6</sup> .....	21.62
1969 .....	38,182				

1. Selected years before 1900; thereafter, year each level was authorized.
2. King to 1893; President, 1893-1899; Governor, 1900 forward.
3. Includes \$20,000 for privy purse and \$37,588 revenue from rental of Crown lands.
4. Housing, hospitalization, and sometimes food were included as workers' perquisites before World War II.
5. Field hands only. Mill laborers received somewhat higher wages.
6. Cash earnings only. Value of fringe benefits was \$6.50 per day in 1965 and \$8.40 per day in 1969.

Source: Robert C. Schmitt, "Statistics on Income in Hawaii, 1825-1966," Hawaii Historical Review, Vol. II, No. 7, April 1967, pp. 358-372; Session Laws of Hawaii 1969, Act 127; Honolulu Police Department, records; Hawaii Sugar Planters Association, records. Sugar workers wages expressed on a weekly or monthly basis have been converted to a daily equivalent based on 6 working days per week and 26 per month.

Table 60. -- HOURS AND EARNINGS IN SELECTED INDUSTRIES: 1961 AND 1968

Industry	Average weekly earnings (dollars)		Average weekly hours		Average hourly earnings	
	1961	1968	1961	1968	1961	1968
Contract construction .....	118.34	193.45	38.8	39.4	3.05	4.91
Manufacturing .....	72.39	112.68	38.3	40.1	1.89	2.81
Commun., utilities .....	106.30	157.83	41.2	43.6	2.58	3.62
Trades <sup>1</sup> .....	65.64	83.20	35.1	34.1	1.87	2.44
Finance .....	84.03	99.65	--	--	--	--
Hotels .....	55.27	76.16	32.9	34.0	1.68	2.24
Laundries .....	46.25	70.10	37.6	38.1	1.23	1.84

1. Wholesale and retail, excluding eating and drinking places.

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



Table 61. -- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1953 TO 1969

Survey date	Monthly rates (dollars)				Hourly rates (dollars)		
	Junior typist	Clerk-stenographer	Secretary	Civil engineer (entry)	Laborer (heavy)	Hi-lift operator	Auto mechanic
1953 .....	193	247	317	405	1.15	1.36	1.72
1961 .....	244	318	373	481	1.53	1.89	2.37
1968 .....	327	423	487	668	2.16	2.88	3.32
1969 .....	357	450	522	768	2.37	3.15	3.53

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

## Armed Forces

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

There were approximately 57,700 officers and enlisted men (42,000 stationed ashore and 15,700 aboard ships homeported in Hawaii) and 57,900 military dependents in the Islands at the beginning of 1970. 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 half of the current total.

The importance of national defense in Hawaii can be further measured by total expenditures (\$654,600,000), civilian workers (23,000), veterans in civil life (64,000), Federally-connected pupils in public schools (54,000), military housing (14,000 units), and land controlled by the armed forces (252,000 acres).

The Department of Planning and Economic Development has, since 1959, issued a semi-annual report on *Military Personnel and Dependents in Hawaii*. Other published sources include reports of the Bureau of the Census, the Director of Selective Service, the Administrator of Veterans Affairs, the Department of Defense, the Hawaii State Department of Labor and Industrial Relations, and the Honolulu Redevelopment Agency. Section 9 of the *Statistical Abstract of the United States: 1969* presents comparable data for the entire nation.

Table 62. -- ARMED FORCES AND DEFENSE EXPENDITURES: 1900 TO 1969

Year	Armed forces <sup>1</sup>	Defense expenditures <sup>2</sup>	Year	Armed forces	Defense expenditures <sup>2</sup>
1900 .....	245	(NA)	1952 .....	57,260	245.1
1910 .....	1,608	(NA)	1953 .....	47,215	251.1
1920 .....	4,366	(NA)	1954 .....	37,762	237.2
1930 .....	16,291	(NA)	1955 .....	56,807	272.5
			1956 .....	57,246	284.5
1939 .....	(NA)	(NA)	1957 .....	59,581	307.9
1940 .....	30,041	(NA)	1958 .....	55,011	327.4
1941 .....	48,187	(NA)	1959 .....	56,596	338.0
1942 .....	135,907	(NA)	1960 .....	59,183	373.1
1943 .....	199,832	(NA)	1961 .....	60,812	401.9
1944 .....	406,811	(NA)	1962 .....	78,977	375.8
1945 .....	354,734	(NA)	1963 .....	59,562	368.6
1946 .....	65,731	(NA)	1964 .....	73,174	415.9
1947 .....	38,673	(NA)	1965 .....	53,381	459.6
1948 .....	32,849	160.0	1966 .....	54,058	517.1
1949 .....	30,681	(NA)	1967 .....	56,010	584.8
1950 .....	20,063	147.0	1968 .....	57,013	606.1
1951 .....	44,188	213.5	1969 .....	56,997	654.6

NA Not available.

1. June 1, 1900; April 15, 1910; January 1, 1930; July, 1940-1969. De facto basis, including Navy personnel aboard ships in Hawaii ports.

2. In millions of dollars.

Source: Armed forces, 1900-1930, from Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965, p. 127; 1940-1969, from U. S. Bureau of the Census, records. Defense expenditures from Bank of Hawaii, records.

Table 63. -- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1959 TO 1970

Date	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1959: Spring .....	112,525	56,303	--	--	56,222	--
1960: April 1 .....	112,938	52,881	41,927	10,954	60,057	19,631
1961: January 1 .....	115,324	54,653	43,723	10,930	60,671	19,567
1962: January 1 .....	121,464	59,487	47,402	12,085	61,977	21,281
1963: January 1 .....	122,968	59,429	47,413	12,016	63,539	21,967
1964: January 1 .....	125,602	59,626	48,242	11,384	65,976	23,025
1965: January 1 .....	135,648	62,836	48,227	14,609	72,812	24,011
1966: January 1 .....	116,328	57,066	39,919	17,147	59,262	20,515
1967: January 1 .....	110,820	47,297	34,452	12,845	63,523	21,394
1968: January 1 .....	105,700	47,339	35,593	11,746	58,361	19,851
1969: January 1 .....	112,404	54,613	38,256	16,357	57,791	19,684
July 1 <sup>1</sup> .....	115,979	56,282	38,501	17,781	59,697	21,623
1970: January 1 .....	115,595	57,685	41,971	15,714	57,910	20,930

1. Personnel aboard ship on de facto basis.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, January 1970 (Statistical Report 71, March 20, 1970).

Table 64. -- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND:  
JANUARY 1, 1970

Island and service	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
The State .....	115,595	57,685	41,971	15,714	57,910	20,930
By island:						
Oahu .....	114,992	57,366	41,681	15,685	57,626	20,827
Hawaii .....	288	150	135	15	138	48
Maui .....	121	60	46	14	61	20
Kauai .....	152	67	67	--	85	35
French Frigate Shoals .....	19	19	19	--	--	--
Kure Atoll .....	23	23	23	--	--	--
By service:						
Air Force .....	31,095	10,582	10,582	--	20,513	6,807
Army .....	22,204	11,500	11,500	--	10,704	3,848
Coast Guard .....	3,453	1,698	849	849	1,755	606
Marine Corps .....	11,926	6,568	6,568	--	5,358	2,556
Navy .....	46,917	27,337	12,472	14,865	19,580	7,113

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, January 1970 (Statistical Report 71, March 20, 1970).

Table 65. -- MISCELLANEOUS STATISTICS ON THE ARMED FORCES: 1968-1969

Subject	1968	1969
Civilian employment, July 12 .....	23,830	22,950
Air Force .....	3,720	3,550
Army .....	6,460	5,950
Navy .....	13,650	13,450
Selective service registrants from Hawaii on active duty with the armed forces, Dec. 31 .....	17,867	(NA)
Veterans in civil life, June 30 .....	61,000	64,000
War veterans .....	50,000	53,000
Others .....	11,000	11,000
Federally-connected pupils in public schools, April .....	53,646	(NA)
Housing units operated by the armed forces, April 1 .....	14,844	14,222
Owned by armed forces .....	14,219	13,555
Leased from private owners .....	625	667
Acreage controlled by the armed forces .....	251,971	(NA)
Owned .....	175,241	(NA)
Temporary use .....	33,840	(NA)
Leased .....	3,758	(NA)
Easements .....	39,132	(NA)

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Estimates (monthly); Semi-Annual Report of the Director of Selective Service; Annual Report, Administrator of Veterans Affairs; Hawaii State Department of Education, Research Report No. 63; Honolulu Redevelopment Agency, Redevelopment and Housing Research (annually).

## SECTION 10

# Welfare Services

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

Total welfare costs reached \$35,706,000 in 1969, compared with \$8,076,000 in 1960 and \$1,124,000 in 1940. About 57 percent of the 1969 total came from State funds and the remainder from the Federal government. The average monthly payment for public assistance was \$148. Among workers receiving unemployment compensation, weekly benefits averaged \$50.

Major data sources include reports of the U.S. Department of Health, Education, and Welfare, the U.S. Department of Labor, the Hawaii State Department of Social Services, and the Hawaii State Department of Labor and Industrial Relations. Section 10 of the *Statistical Abstract of the United States: 1969* presents comparable Mainland data.

Table 66. -- SOCIAL WELFARE COSTS: 1940 TO 1969  
(In thousands of dollars)

Year ended June 30	Total costs	By source of funds		By expenditure category		
		Federal	State	Admin- istration	Medical payments	Money payments
1940 .....	1,124	319	805	176	--	956
1944 .....	1,801	361	1,440	372	366	1,063
1948 .....	4,291	1,038	3,253	727	599	2,966
1952 .....	7,439	2,872	4,567	971	--	6,469
1956 .....	7,575	3,386	4,189	899	--	6,676
1960 .....	8,076	3,811	4,265	1,268	--	6,808
1964 .....	14,381	6,472	7,909	2,089	4,206	8,085
1965 .....	14,673	6,404	8,269	2,146	4,356	8,171
1966 .....	19,955	8,034	11,921	2,580	6,390	10,985
1967 .....	23,704	10,869	12,835	2,642	7,396	13,666
1968 .....	29,565	12,941	16,624	2,951	10,297	16,318
1969 .....	35,706	15,167	20,539	3,272	12,948	19,486

Source: Hawaii Department of Social Services, records.

Table 67. -- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1969  
(Year ended June 30)

Program	Total pay- ments (\$1,000)	Number of recipients (mo. ave.)	Ave. mo. payment (dollars)
All programs <sup>1</sup> .....	19,540	11,013	148
Old age assistance .....	2,075	1,952	89
Aid to disabled .....	2,285	1,611	118
Aid to families with dependent children .....	11,194	4,814	194
Child welfare foster care .....	655	556	98
General assistance .....	2,322	1,703	114

1. Includes programs not shown separately.

Source: Hawaii State Department of Social Services, Total Number of Recipients and Service Cases by Program (Obligation), July 1968-June 1969.

Table 68. -- VOCATIONAL REHABILITATION, CHILD LABOR,  
AND UNEMPLOYMENT COMPENSATION: 1969

Subject	Number	Subject	Number
VOCATIONAL REHABILITATION <sup>1</sup>		UNEMPLOYMENT INSURANCE	
Disabled persons rehabilitated . . . .	644	Workers covered . . . . .	273,300
Federal grants (\$1,000) . . . . .	1,344	Wages paid (\$1,000,000):	
CHILD LABOR CERTIFICATES <sup>2</sup>		Total paid . . . . .	1,937
Number issued . . . . .	18,251	Taxable . . . . .	829
Boys . . . . .	11,347	Contributions (\$1,000,000) . . . .	11.4
Girls . . . . .	6,904	Benefits paid (\$1,000,000) . . . .	10.5
Under 16 years of age . . . . .	3,274	Average weekly benefits	
16 and 17 years of age . . . . .	14,933	(dollars) . . . . .	49.52
18 years of age and over . . . . .	44		

1. Calendar year.
2. Year ended June 30.

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

Table 69. -- OLD-AGE, SURVIVORS, DISABILITY, AND HEALTH INSURANCE BENEFITS: 1968

Category	Number of benefits <sup>1</sup>	Amount of benefit payments (\$1,000) <sup>2</sup>
Total . . . . .	58,000	52,400
Old-age and survivors insurance:		
Retired workers and dependents <sup>3</sup> . . . . .	38,800	35,300
Survivors . . . . .	14,200	11,900
Disability insurance . . . . .	5,000	4,600

1. As of June 30.
2. Year ended June 30.
3. Average monthly benefits for retired workers were \$92.43.

Source: U. S. Department of Health, Education and Welfare data cited in Statistical Abstract of the United States: 1969, p. 284.



## 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 8; on taxable income, in Section 14.

Total 1968 earnings from overseas, exclusive of capital movements, exceeded \$2 billion, or about twice the 1960 total. The major sources of income to Hawaii were defense expenditures (\$606 million), pineapple production (\$128 million), sugar production (\$200 million), and visitor expenditures (close to \$500 million).

Personal income in 1968 was \$2,705 million, compared with \$1.3 billion only nine years earlier, and per capita personal income was \$3,513, 63 percent more than the 1959 level.

The median annual income of families in 1964-1967 ranged from \$6,446 on Hawaii Island to \$8,046 on Oahu. The most recent family expenditure survey reported that the largest items in the family budget on Oahu were food and beverages (accounting for 28.3 percent of spending for current consumption) and housing (25.6 percent).

The chief sources of data shown in this section are the U.S. Office of Business Economics, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Treasury Department, Hawaii State Department of Health, and Bank of Hawaii. Comparable data for the country as a whole are given in *Statistical Abstract of the United States: 1969*, Section 11.

Table 70. -- BALANCE OF PAYMENTS (EXCLUDING CAPITAL MOVEMENTS) AND  
INCOME FROM MAJOR ECONOMIC ACTIVITIES: 1950 TO 1969  
(In millions of dollars)

Year	Earnings by Hawaii from overseas	Expenditures by Hawaii to overseas	Income from major economic activities			
			Defense expendi- tures	Value of pineapple production	Value of sugar production	Visitor expendi- tures <sup>1</sup>
1950 .....	513	564	147.0	102.4	123.9	24.2
1951 .....	595	609	213.5	95.6	135.1	29.0
1952 .....	633	600	245.1	96.9	138.0	32.8
1953 .....	690	671	251.1	113.5	147.8	42.6
1954 .....	679	643	237.2	108.8	141.4	48.9
1955 .....	747	707	272.5	115.7	145.7	55.0
1956 .....	805	748	284.5	122.5	148.9	65.0
1957 .....	856	833	307.9	115.9	147.5	77.6
1958 .....	859	821	327.4	130.1	106.4	82.7
1959 .....	954	922	338.0	127.5	131.0	109.0
1960 .....	1,029	1,036	373.1	119.3	127.4	131.0
1961 .....	1,082	1,077	401.9	119.4	144.9	137.0
1962 .....	1,112	1,120	375.8	114.9	159.7	154.0
1963 .....	1,199	1,183	368.6	123.5	191.3	186.0
1964 .....	1,310	1,314	415.9	127.5	166.6	225.0
1965 .....	1,418	1,398	459.6	126.6	175.0	265.0
1966 .....	1,607	1,544	517.1	127.6	191.0	302.0
1967 .....	1,849	1,797	584.8	133.3	190.9	400.0
1968 .....	2,017	1,998	606.1	127.6	200.0	460.0
1969 .....	(NA)	(NA)	654.6	(NA)	182.5	510.5

NA Not available.

1. Data after 1966 are in constant 1966 dollars. The 1969 total in current dollars is provisionally estimated at \$576,800,000.

Source: Visitor expenditures from Hawaii Visitors Bureau, annual research reports for 1952-1968 and records. Other data from the Bank of Hawaii Department of Business Research.

Table 71. -- BALANCE OF PAYMENTS (EXCLUDING CAPITAL MOVEMENTS),  
BY RECEIPT OR PAYMENT ITEM: 1968  
(In millions of dollars)

Receipt item	Earnings from overseas	Payment item	Expenditures to overseas
Total receipts .....	2,017	Total payments .....	1,998
Commodity exports .....	378	Commodity imports .....	1,030
Sugar .....	192	Food from Mainland .....	121
Pineapple .....	122	Other domestic .....	766
Other products .....	61	Foreign .....	143
Federal expenditures .....	911	Payments to Federal agencies .....	527
Civilian .....	305	Tax payments .....	469
Military .....	606	Other payments .....	58
Goods and services sold		Purchased services from	
to non-residents .....	581	out of State .....	292
Return on investments		Interest, dividends, profits	
out of State .....	113	to overseas investors .....	130
Remittances, gifts .....	34	Personal remittances .....	19

Source: Bank of Hawaii, Department of Business Research, Hawaii '69, Annual Economic Review (August 1969), pp. 12-13, as revised, and records.

Table 72. -- PERSONAL INCOME, TOTAL AND PER CAPITA: 1939 TO 1969

Year	Total <sup>1</sup>	Per capita <sup>2</sup>	Year	Total <sup>1</sup>	Per capita <sup>2</sup>	Year	Total <sup>1</sup>	Per capita <sup>2</sup>
1939 .....	218	525	1949 .....	685	1,354	1959 .....	1,315	2,156
1940 .....	246	577	1950 .....	692	1,387	1960 .....	1,478	2,380
1941 .....	341	749	1951 .....	793	1,580	1961 .....	1,598	2,473
1942 .....	612	1,087	1952 .....	865	1,747	1962 .....	1,680	2,542
1943 .....	778	1,186	1953 .....	896	1,796	1963 .....	1,776	2,612
1944 .....	1,028	1,239	1954 .....	908	1,802	1964 .....	1,912	2,755
1945 .....	1,009	1,328	1955 .....	972	1,837	1965 .....	2,018	2,819
1946 .....	719	1,312	1956 .....	1,041	1,900	1966 .....	2,225	3,090
1947 .....	721	1,384	1957 .....	1,114	1,944	1967 .....	2,411	3,237
1948 .....	723	1,407	1958 .....	1,178	1,987	1968 .....	2,705	3,559
						1969 .....	3,024	3,882

1. Millions of dollars.

2. Dollars.

Source: U. S. Office of Business Economics, Personal Income by States Since 1929 (1956), pp. 140-143, and Survey of Current Business, Aug. 1969, pp. 14 and 15, and April 1970, pp. 15 and 16.

Table 73. -- PERSONAL INCOME, BY COUNTIES: 1950 TO 1967

County	Personal income (\$1,000,000)				Per capita personal income: 1967 (\$)
	1950	1955	1960	1967	
The State .....	692	972	1,478	2,415	3,237
Honolulu .....	535	794	1,253	2,046	3,392
Hawaii .....	69	81	100	170	2,619
Maui .....	54	57	75	122	2,623
Kauai .....	34	40	50	77	2,546

Source: First National Bank of Hawaii, "State and County Personal Income in Hawaii," Economic Indicators, September 1968; U. S. Office of Business Economics, unpublished estimates. Per capita personal income based on provisional population estimates, excluding armed forces afloat.

Table 74. -- INCOME OF FAMILIES AND UNRELATED INDIVIDUALS, FOR OAHU, 1964-1967, AND THE NEIGHBOR ISLANDS, 1967

Annual family income before taxes	Oahu 1964-67	Other islands, 1967		
		Hawaii	Kauai	Maui <sup>1</sup>
<b>NUMBER OF FAMILIES</b>				
Total .....	129,843	13,760	6,047	11,644
Under \$2,000 .....	4,127	1,330	391	1,125
\$2,000 to \$2,999 .....	5,742	789	303	461
\$3,000 to \$3,999 .....	8,319	1,110	616	711
\$4,000 to \$4,999 .....	12,336	1,639	692	1,237
\$5,000 to \$6,999 .....	23,689	2,296	1,203	2,291
\$7,000 to \$9,999 .....	30,719	2,528	1,323	2,670
\$10,000 to \$14,999 .....	30,086	1,986	990	1,970
\$15,000 and over .....	14,825	1,378	386	964
Amount not reported .....	--	702	143	216
<b>MEDIAN INCOME (\$)</b>				
Families .....	8,046	6,446	6,579	6,904
Unrelated individuals <sup>2</sup> .....	3,707	3,082	3,800	3,929

1. Includes Molokai (except Kalawao) and Lanai.

2. Excludes institutional and barracks population.

Source: Hawaii Department of Planning and Economic Development Population Characteristics of the Neighbor Islands, 1967 (Statistical Report 58, May 17, 1968) and Population Characteristics of Oahu, 1964-1967 (Statistical Report 61, July 10, 1968).

Table 75. -- PERSONS WITH ASSETS OF \$60,000 AND OVER: 1962

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

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

Table 76. -- AVERAGE EXPENDITURES, INCOME, AND SAVINGS OF URBAN FAMILIES  
AND SINGLE CONSUMERS, FOR OAHU: 1961

Item	Average per family (dollars)	Percent of expenditures for current consumption
Expenditures for current consumption .....	6,746	100.0
Food and beverages .....	1,909	28.3
Tobacco .....	88	1.3
Housing, total <sup>1</sup> .....	1,729	25.6
Shelter, fuel, light, refrigeration, and water .....	1,093	16.2
Household operations .....	383	5.7
House furnishings and equipment .....	238	3.5
Clothing, materials, services .....	577	8.6
Personal care .....	207	3.1
Medical care .....	403	6.0
Recreation .....	306	4.5
Reading and education .....	212	3.2
Automobile purchase and operation .....	875	13.0
Other transportation .....	253	3.7
Other expenditures .....	187	2.8
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 <sup>2</sup> .....	+472	--
Account balancing difference <sup>3</sup> .....	-102	--

1. The total may exceed the sum of the 3 subclasses because it includes items not listed separately in this table.

2. The algebraic sum of increases and decreases in assets and liabilities. Net increases in assets or decreases in liabilities represent a net saving (+) during the year. Net decreases in assets or increases in liabilities represent a deficit (-) or net dissaving.

3. A statistical measure of the net reporting discrepancy of the receipts and disbursements accounts. In this table, the balancing difference is obtained by subtracting current consumption expenditures, gifts and contributions, personal insurance, and the net change in assets and liabilities from the sum of money income after taxes and other money receipts. If reported receipts are less than disbursements (including savings or dissavings), the balancing difference is negative (-).

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.

## Prices

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

In March 1970, the Honolulu all-items consumer price index stood at 122.0, with the December 1963 level equal to 100. The index had increased 5.5 percent in the preceding 12 months, 10.1 percent since March 1968, and a third since March 1960. A "moderate" or "intermediate" budget for a four-person family living on Oahu was estimated at \$10,902 as of the spring of 1967. This family budget was 20 percent higher than the corresponding urban United States average, and was second only to Anchorage among major American metropolitan areas.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics at three-month intervals since December 1963. This index measures the average change in prices of goods and services purchased by urban wage earner and clerical families and single persons living alone. Prices are expressed as a percent of the levels reported in December 1963, 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 Spring of 1967. These data were compiled and published by the U.S. Bureau of Labor Statistics in their Bulletin 1570-5, *Three Standards of Living for an Urban Family of Four Persons*. Similar comparisons go back to 1847, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1967, and a 39-area comparison for autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of spring 1967.

Data on prices and living costs are summarized in *Statistical Abstract of the United States: 1969*, Section 12.

Table 77. -- CONSUMER PRICE INDEX, FOR HONOLULU: 1940 TO 1970  
(All items combined. December 1963=100.)

Year	Annual average	Year	Annual average	Year	Annual average	Year	Annual average
1940 .....	43.6	1945 .....	58.4	1950 .....	71.3	1955 .....	80.4
1941 .....	46.2	1946 .....	62.1	1951 .....	75.6	1956 .....	81.5
1942 .....	52.3	1947 .....	71.4	1952 .....	77.8	1957 .....	84.1
1943 .....	56.3	1948 .....	75.1	1953 .....	78.6	1958 .....	88.0
1944 .....	57.2	1949 .....	74.0	1954 .....	79.3	1959 .....	89.7

Year	Annual average	March	June	September	December
1960 .....	91.8	91.3	91.7	92.0	92.7
1961 .....	94.1	93.1	94.1	94.8	95.3
1962 .....	96.7	95.6	95.6	98.3	98.4
1963 .....	99.8	100.1	99.8	99.8	100.0
1964 .....	100.2	100.5	99.6	100.2	101.0
1965 .....	102.0	101.5	101.4	102.1	103.7
1966 .....	104.9	104.1	104.4	105.5	106.5
1967 .....	107.8	106.6	107.5	108.4	109.7
1968 .....	111.9	110.8	111.5	112.8	113.9
1969 .....	117.0	115.6	116.6	118.1	119.7
1970 .....		122.0			

Source: Unofficial index for 1940-1942, supplied by Hawaii Employers Council; index prepared by Hawaii Department of Labor and Industrial Relations, 1943-1963; index prepared by U. S. Bureau of Labor Statistics, 1964 forward. Data for 1940-1963 (originally on a March 1943 base) shifted to a December 1963 base by the Hawaii Department of Planning and Economic Development. Annual averages computed from monthly data, with intermediate months based on linear interpolation.



Table 78. -- CONSUMER PRICE INDEX FOR HONOLULU: ANNUAL AVERAGES, 1964 TO 1969  
(December 1963=100)

Group	1964	1965	1966	1967	1968	1969
ALL ITEMS .....	100.2	102.0	104.9	107.8	111.9	117.0
Food .....	100.7	102.8	106.3	108.3	112.2	117.4
At home .....	100.7	102.8	106.4	108.1	111.7	116.0
Away from home .....	100.6	102.9	105.8	109.3	113.8	122.0
Housing.....	100.6	102.5	107.2	111.2	116.2	121.9
Shelter .....	100.5	103.7	110.7	116.0	122.7	130.6
Rent .....	100.6	102.4	105.0	106.9	110.4	116.8
Homeownership...	100.4	104.5	114.8	122.3	131.1	140.2
Fuel, utilities .....	100.0	99.4	98.6	100.3	100.4	100.5
Gas, electricity ..	100.0	99.9	99.7	99.4	99.4	99.6
Household furnishings, operation .....	101.1	101.2	102.0	103.8	106.6	109.2
Apparel and upkeep .....	101.1	102.1	103.8	105.8	109.8	115.7
Men's and boys' .....	100.4	100.4	100.6	101.4	105.4	111.8
Women's and girls' ...	101.7	104.3	107.5	110.1	114.1	119.2
Footwear .....	100.7	100.7	103.4	106.8	110.3	113.9
Transportation .....	98.2	98.1	98.4	100.7	104.4	108.0
Private .....	99.1	99.7	99.8	102.5	106.9	111.4
Public .....	93.7	90.5	91.7	92.3	92.3	91.7
Health and recreation .....	100.5	102.8	105.5	108.4	112.2	117.2
Medical care .....	101.7	104.5	107.8	114.4	121.2	129.5
Personal care .....	100.2	101.3	103.3	104.1	105.5	108.8
Reading, recreation ....	100.2	100.7	101.2	103.5	106.3	110.3
Other goods, services ..	99.9	104.6	110.3	111.2	114.6	118.2

Source: U. S. Bureau of Labor Statistics.

Table 79. -- ANNUAL COSTS OF BUDGETS FOR THREE LIVING STANDARDS  
FOR A FOUR PERSON FAMILY ON OAHU: SPRING 1967

Item	Annual budget costs (dollars)		
	Lower standard	Moderate standard	Higher standard
Food .....	2,003	2,489	3,133
Food at home .....	1,785	2,146	2,579
Food away from home .....	218	343	554
Housing: total .....	1,832	2,848	4,363
Renter families .....	1,832	2,389	3,732
Homeowner families .....	--	3,001	4,474
Transportation .....	494	1,034	1,200
Clothing .....	526	737	1,062
Personal care .....	171	223	320
Medical care .....	472	474	494
Other family consumption .....	327	604	1,083
Gifts, contributions, life insurance .....	294	451	814
Occupational expenses .....	50	80	85
Social security and disability payments .....	290	290	290
Personal taxes .....	787	1,672	3,232
Cost of budget: Total .....	7,246	10,902	16,076
Renter families .....	7,246	10,277	15,137
Homeowner families .....	--	11,110	16,241
PERCENT OF URBAN U. S. AVERAGE			
Food .....	122	118	121
Housing: total .....	140	128	131
Transportation .....	111	119	107
Clothing and personal care .....	99	98	96
Medical care .....	99	99	99
Other family consumption .....	112	109	112
Total budget .....	122	120	123
Renter families .....	122	121	121
Homeowner families .....	--	120	124

Source: U. S. Bureau of Labor Statistics, Three Standards of Living for an Urban Family of Four Persons, Spring 1967 (Bulletin No. 1570-5), pp. 24, 33, 35, and 37.

## SECTION 13

# Elections

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

More than 274,000 persons were registered to vote in the general election of November 1968. This amounted to 38.2 percent of the civilian population (including those below the legal voting age or otherwise ineligible); the proportion registered was 32.4 percent in 1959 and 21.9 percent in 1940. The minimum voting age is 20 years.

Elective offices in Hawaii include the Presidency, two U.S. Senators, two U.S. Congressmen, the Governor, 25 State Senators, 51 State Representatives, and various County officials.

Official election results are published by the Office of the Lieutenant Governor. Additional information is often available from the various County Clerks and the Legislative Reference Bureau of the University of Hawaii. National statistics appear in the *Statistical Abstract of the United States: 1969*, Section 13.

Table 80. -- CIVILIAN POPULATION AND REGISTERED VOTERS: 1902 TO 1968

Year	Civilian population, July 1	Registered voters, Nov. <sup>1</sup>	Percent of pop. registered
1902 .....	157,100	12,612	8.0
1910 .....	191,300	14,442	7.5
1920 .....	254,500	26,335	10.3
1930 .....	354,100	52,149	14.7
1940 .....	397,843	87,312	21.9
1950 .....	477,917	141,319	29.6
1959 .....	565,491	183,118	32.4
1960 .....	582,773	202,059	34.7
1962 .....	617,280	221,650	35.9
1964 .....	644,203	239,361	37.2
1966 .....	679,379	253,242	37.3
1968 .....	717,640	274,199	38.2

Footnote and source follow next table.

Table 81. CIVILIAN POPULATION, REGISTERED VOTERS, AND VOTES CAST, BY COUNTY: NOVEMBER 5, 1968

County	Civ. pop., July 1	Registered voters		Votes cast	
		Number	% of pop.	Number	% of pop.
The State .....	717,640	274,199	38.2	239,765	33.4
Hawaii .....	66,520	29,370	44.2	26,953	40.5
Maui .....	49,807	19,900	40.0	17,704	35.5
Honolulu .....	570,119	211,853	37.2	183,166	32.1
Kauai .....	31,193	13,076	41.9	11,942	38.3

1. Except for 1959, which was July 28.

Source of tables 80 and 81: Civilian population, 1900-1930, from Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965, p. 223; 1940-1966, from DPED, Statistical Report 66, pp. 5, 12, and 13; 1968, from DPED, Statistical Report 69, p. 7. Registered voters and votes cast from Office of the Lieutenant Governor, Voter Registration Statistics, 1959-1968, Result of Votes Cast, General Election, Tuesday, November 5, 1968, State of Hawaii, and records.

Table 82. -- PARTY MEMBERSHIP OF SPECIFIED STATE AND COUNTY OFFICIALS: 1969

County	Mayor	Council		House of Representatives		Senate	
		Dem.	Rep.	Dem.	Rep.	Dem.	Rep.
All counties ..	...	23	11	39	12	17	8
Hawaii .....	Dem.	6	3	6	1	2	1
Maui .....	Dem.	6	3	4	1	1	1
Honolulu .....	Dem.	7	2	26	10	13	6
Kauai .....	Dem.	4	3	3	-	1	-

Source: Office of the Lieutenant Governor; Legislative Reference Bureau.

Table 83. -- VOTES CAST FOR MAJOR OFFICES: 1966 AND 1968

Election and office	Democrat		Republican		Other parties	
	Candidate	Votes	Candidate	Votes	Candidate	Votes
November 8, 1966:						
Governor .....	Burns .....	108,840	Crossley .....	104,324	--	--
U. S. Representative <sup>1</sup> ..	Matsunaga ..	140,110	Carroll .....	67,281	--	--
	Mink .....	140,880	Kealoha .....	62,473	--	--
November 5, 1968:						
President .....	Humphrey ...	141,324	Nixon .....	91,425	Wallace <sup>2</sup> ....	3,469
U. S. Senator .....	Inouye .....	189,248	Thiessen .....	34,008	Lee <sup>3</sup> .....	3,671
U. S. Representative <sup>1</sup> ..	Matsunaga ..	161,954	Blaisdell .....	78,733	Olsen <sup>3</sup> .....	2,432
	Mink .....	149,207	DuBois .....	39,233	Lombardi <sup>3</sup> ...	2,026

1. Two elected at large.

2. American Independent.

3. Peace and Freedom.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1966 and 1968.

## SECTION 14

# Government Finances and Employment

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

Local government is vested in one combined City-County (Honolulu, consisting of the Island of Oahu and numerous outlying islets), three non-metropolitan Counties (Hawaii, Kauai, and Maui), and one area (Kalawao County), the latter 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 1969 reached \$922 million, triple the level reported ten years earlier. The 1969 total included \$527 million in U.S. taxes, \$380 million in State taxes, and less than \$16 million in County licenses and fees.

Individual income taxes accounted for 78 percent of Federal collections and 23 percent of State collections in Hawaii in 1969.

State revenue receipts totalled \$497 million, chiefly from the General Excise and Use Tax (\$137 million) and Federal grants-in-aid (\$123 million).

The largest expenditure item in the State accounts for 1969 was education, with \$196 million (out of \$481 million) going to the University of Hawaii and public schools and libraries. The Counties, in contrast, depended largely on the real property tax for their revenues. They reported police and fire protection as their largest single expenditure item.

Assessed valuation of the State doubled between 1960 and 1970; during the same decade, the average County tax rate increased 54 percent. Public bonded debt outstanding at the end of 1969 exceeded \$631 million. Average employment reported for 1969 was 71,200, about 31 percent over the 1959 average but still less than the 1944 peak of 78,617. The 1969 total included 34,700 Federal workers, 26,100 persons employed by the State, and 10,300 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: 1969*, Sections 14 and 15.

Table 84. -- TAX COLLECTIONS, 1852 TO 1969, AND GOVERNMENT EMPLOYMENT, 1939 TO 1969, BY LEVEL OF GOVERNMENT

Year	Tax collections in Hawaii (\$1,000) <sup>1</sup>				Government employment (annual averages) <sup>2</sup>			
	Total	Federal	Hawaii	Counties	Total	Federal	Hawaii	Counties
1852-53 .....	170	--	170	--	(NA)	(NA)	(NA)	--
1860-62 .....	211	--	211	--	(NA)	(NA)	(NA)	--
1870-72 .....	409	--	409	--	(NA)	(NA)	(NA)	--
1880-82 .....	772	--	772	--	(NA)	(NA)	(NA)	--
1890-92 .....	1,334	--	1,334	--	(NA)	(NA)	(NA)	--
1901 .....	2,088	102	1,986	--	(NA)	(NA)	(NA)	--
1910 .....	(NA)	209	2,894	(NA)	(NA)	(NA)	(NA)	(NA)
1920 .....	(NA)	11,930	7,547	(NA)	(NA)	(NA)	(NA)	(NA)
1929 .....	(NA)	5,607	15,484	(NA)	(NA)	(NA)	(NA)	(NA)
1934 .....	20,114	5,747	12,764	1,603	(NA)	(NA)	(NA)	(NA)
1939 .....	36,102	11,894	22,307	1,901	20,495	9,642	5,990	4,863
1944 .....	192,837	150,781	40,015	2,041	78,617	66,809	6,550	5,258
1949 .....	161,273	91,203	66,355	3,715	40,119	24,082	9,392	6,645
1954 .....	224,394	136,175	82,916	5,303	42,630	24,721	10,713	7,196
1959 .....	314,277	175,176	132,693	6,408	48,320	26,200	14,290	7,830
1964 .....	493,311	293,453	191,235	8,623	54,440	28,440	17,150	8,850
1965 .....	512,066	290,164	212,712	9,190	57,840	29,690	18,880	9,270
1966 .....	596,646	323,614	263,239	9,793	62,630	31,620	21,260	9,750
1967 .....	652,681	342,842	297,410	12,429	66,340	33,900	22,630	9,810
1968 .....	778,291	440,237	324,323	13,731	69,350	35,090	24,420	9,840
1969 .....	922,122	526,624	379,881	15,617	71,200	34,700	26,100	10,300

NA Not available.

1. Data before 1901 are annual averages for biennial periods ended December 31, 1853 and March 31, 1862 to 1892. Data for 1901 forward are for fiscal years ended June 30, except for the City and County of Honolulu, 1934 and 1944-1959, and Hawaii, Kauai and Maui Counties, 1934 and 1944-1966, all of which refer to the previous calendar year, and the County total for 1939, which refers to that calendar year.

2. Excludes armed forces but includes civilian defense employees.

Source: Federal tax collections from U. S. Internal Revenue Service, records. Hawaii tax collections, 1852-1954, from Robert M. Kamins, The Tax System of Hawaii (1952), pp. 164 and 174-175, and Hawaii's Revised Tax System (1957), pp. 39-41; 1959-1969 from Tax Foundation of Hawaii, Government in Hawaii for 1968 (p. 17) and 1970 (p. 18). County tax collections, 1934 and 1944-1954, from Chamber of Commerce of Honolulu, Facts and Faces, 4th ed. (1955), p. 17; 1939 and 1959-1969 from Tax Foundation of Hawaii, Government in Hawaii for 1968 (p. 17) and 1970 (p. 18), and records. Government employment, 1939-1954, from U. S. Office of Business Economics, Income of Hawaii (1953), p. 20 and 1955 supplement; 1959-1969 from Hawaii Department of Labor and Industrial Relations, Labor Force Estimates (annual) and records.

Table 85. -- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCE: 1959 TO 1969  
(Years ended June 30. In thousands of dollars.)

Level of government and source	1959	1964	1968	1969
Total, all levels .....	314,277	493,311	778,291	922,122
Federal collections .....	175,176	293,453	440,237	526,624
Individual income and employment .....	132,024	225,116	336,171	410,939
Corp. income and excess profits .....	30,730	52,416	53,611	81,138
Other sources .....	12,422	15,921	50,455	34,547
State .....	132,693	191,235	324,323	379,881
General excise and use .....	54,623	71,099	114,460	137,236
Fuel .....	13,176	16,058	21,911	23,917
Public service companies .....	3,766	7,262	10,545	10,841
Corporate income .....	5,601	7,053	11,196	13,749
Individual net income .....	25,681	34,665	70,309	86,496
Real property .....	18,074	34,272	63,705	70,296
Unemployment compensation .....	3,496	9,374	11,461	13,325
Other sources .....	8,276	11,452	20,736	24,021
Counties <sup>1</sup> .....	6,408	8,623	13,731	15,617
Motor vehicle weight .....	4,207	5,454	8,777	9,173
Other sources .....	2,201	3,169	4,954	6,444

1. Previous calendar year for Honolulu, 1959, and Hawaii, Kauai, and Maui, 1959 and 1964.  
Source: Tax Foundation of Hawaii, Government in Hawaii, 1970, pp. 18 and 36.



Table 86. -- STATE REVENUE RECEIPTS, BY SOURCE, AND OPERATING EXPENDITURES,  
 BY FUNCTION: 1968 AND 1969  
 (For years ended June 30. In thousands of dollars.)

Source of revenue	Revenue, 1968 (total)	Revenue, 1969		
		Total	General Fund	Special funds
All revenue receipts .....	418,103	497,425	390,420	107,005
Tax revenues .....	253,499	301,757	272,374	29,383
General excise tax .....	114,518	137,234	137,234	--
Other taxes .....	138,981	164,523	135,140	29,383
Federal grants-in-aid .....	104,557	123,171	89,358	33,813
Departmental earnings .....	21,245	20,143	14,106	6,038
Other sources .....	38,802	52,354	14,582	37,771
Function		Expenditures		
		1968	1969	
All expenditures .....		416,453	480,625	
General government .....		23,318	30,002	
Public safety .....		20,354	19,922	
Highways .....		36,223	45,013	
Natural resources .....		13,963	15,231	
Health, sanitation, hospitals, institutions .....		25,527	28,336	
Public welfare .....		31,436	37,615	
University .....		63,007	72,842	
Public schools and libraries .....		108,630	123,097	
Recreation .....		2,084	2,174	
Utilities and other enterprises .....		15,627	21,542	
Interest .....		7,764	10,026	
Bond redemptions .....		13,634	15,434	
Retirement and pension .....		18,887	22,528	
Employees' health and hospital insurance .....		3,566	4,579	
Unemployment compensation .....		13,761	12,098	
Grants-in-aid to Counties .....		11,427	12,442	
Miscellaneous .....		7,246	7,744	

Source: Tax Foundation of Hawaii, Government in Hawaii, 1970, pp. 21 and 41.

Table 87. -- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES,  
 BY OBJECT, FOR COUNTIES: 1969  
 (For year ended June 30. In thousands of dollars.)

Subject	City & Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES				
Total .....	98,282	9,542	13,631	6,221
Real property taxes .....	60,375	3,432	4,794	1,743
Other taxes .....	15,054	1,393	1,545	808
Licenses, fees, permits, fines .....	4,633	327	523	159
Departmental earnings .....	5,936	581	571	257
State grants .....	4,598	3,770	4,421	2,743
Federal grants .....	2,535	--	333	161
Land sales .....	3,474	--	1,257	--
Other sources .....	1,676	40	188	350
OPERATING EXPENDITURES				
Total .....	96,351	8,972	13,562	6,333
General government .....	9,759	1,287	2,549	946
Police and fire .....	18,484	2,146	2,956	1,649
Other protection .....	5,098	156	841	175
Highways .....	6,831	1,544	2,313	1,340
Health and sanitation .....	7,824	500	373	442
Recreation .....	7,034	1,049	1,596	444
Interest .....	5,437	354	304	105
Bond redemption .....	10,773	369	729	267
Pension and retirement .....	5,844	1,142	1,519	696
Urban redevelopment .....	4,827	--	--	--
Miscellaneous .....	1,603	426	382	268
Cash cap. improvement .....	12,837	--	--	--

Source: Tax Foundation of Hawaii, Government in Hawaii, 1970, pp. 30, 31, 42, and 43.

Table 88. -- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1959 TO 1969

Source of revenue	Tax base (\$1,000)			Tax collections (\$1,000)		
	1959 <sup>1</sup>	1968	1969	1959 <sup>1</sup>	1968	1969
Total <sup>2</sup> .....	2,158,081	4,548,105	5,450,401	58,983	124,792	151,078
Retailing .....	756,003	1,423,835	1,670,287	26,409	56,975	66,823
Services .....	165,402	358,851	451,814	5,776	14,344	18,015
Contracting .....	206,822	451,697	624,957	7,188	18,027	24,987
Theater, amusement, etc.	21,174	36,203	39,220	726	1,450	1,569
Interest .....	13,764	31,251	35,372	479	1,234	1,415
Commissions .....	41,211	72,779	82,984	1,437	2,909	3,319
Rentals .....	134,060	417,247	490,856	4,688	16,652	19,634
Consumption .....	35,824	--	--	1,245	--	--
Use (4%) .....	--	61,885	69,922	--	2,474	2,782
Others .....	19,707	46,534	56,150	694	1,868	2,245
Insurance solicitors ....	--	11,713	13,604	--	234	274
Sugar processing .....	113,865	184,663	196,744	2,846	910	984
Pineapple canning .....	98,957	114,554	116,466	2,474	573	582
Public utilities .....	10,563	--	--	370	--	--
Producing .....	49,509	67,483	65,729	497	337	329
Manufacturing .....	129,123	234,071	279,482	1,281	1,175	1,397
Wholesaling .....	320,194	651,512	747,204	2,403	3,262	3,736
Services (intermediary) .	11,376	19,958	20,338	86	101	102
Compensating .....	80,194	--	--	227	--	--
Use (1/2%) .....	--	362,647	487,908	--	1,813	2,440

1. General excise, consumption and compensating tax data.

2. Includes minor sources not shown separately.

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

Table 89. -- REAL PROPERTY TAX VALUATIONS, 1902 TO 1970, AND REAL PROPERTY TAX RATES AND COLLECTIONS, 1960 AND 1970

Year	Assessor's gross valuation (\$1,000) <sup>1</sup>	Year	Assessor's gross valuation (\$1,000) <sup>1</sup>	Year	Assessor's gross valuation (\$1,000) <sup>1</sup>
1902 .....	60,952	1930 .....	283,857	1960 .....	3,173,626
1910 .....	75,793	1940 .....	350,734	1965 .....	4,574,005
1920 .....	155,238	1950 .....	772,784	1970 <sup>2</sup> .....	6,555,382

Year and County	Assessor's gross valuation (\$1,000) <sup>1</sup>			Total exemptions (\$1,000) <sup>3</sup>	Net taxable valuation (\$1,000)	County tax rates per \$1,000 val. (dollars) <sup>4</sup>	Real property tax collections (\$1,000)
	Total	Land	Improvement				
1960, total...	3,174,073	1,829,141	1,344,932	1,310,344	1,863,729	12.18	21,871
Honolulu...	2,752,760	1,595,517	1,157,243	1,185,343	1,567,417	11.70	17,663
Maui .....	147,047	76,333	70,714	42,860	104,187	13.61	1,399
Hawaii ....	186,293	107,794	78,499	58,623	127,670	15.10	1,838
Kauai.....	87,973	49,496	38,477	23,518	64,455	15.50	970
1970 total <sup>2</sup> ..	6,555,382	3,816,477	2,738,905	2,465,690	4,089,692	18.79	76,344
Honolulu...	5,636,717	3,283,198	2,353,519	2,200,636	3,436,081	19.21	65,523
Maui .....	308,960	167,765	141,195	84,161	224,799	15.00	3,366
Hawaii ....	425,316	252,698	172,618	131,958	293,358	17.90	5,247
Kauai .....	184,389	112,816	71,573	48,935	135,454	16.50	2,208

1. The assessment ratio was 40 per cent of market value in 1940, 30 percent in 1950, and 70 percent in 1960, 1965 and 1970. Ratios before 1940 are not available.

2. Year ended June 30. Tax collections for 1970 are estimated.

3. Includes Federal real property (\$675,512 in 1970), State (\$719,561), County (\$236,981), Hawaiian Homes Commission (\$8,026), homes (\$385,529 fee, \$107,536 leasehold), public utilities (\$44,196), and religious, charitable, educational, hospitals, etc. (\$288,349).

4. State figures for both 1960 and 1970 and County data for 1970 are weighted averages. Since 1965, County rates have differed for land and improvements and also for different land use classes.

Source: Tax valuations from The Hawaiian Annual for 1937, p. 31, and the Hawaii State Department of Taxation, Real Property Tax Valuations and Tax Rates (annual) and records. Tax rates and collections from the Tax Foundation of Hawaii, Government in Hawaii, 1970, p. 28.

Table 90. -- STATE INCOME TAX RESIDENT RETURNS FOR 1966,  
BY ADJUSTED GROSS INCOME CLASSES

Adjusted gross income class	Number of returns	Adjusted gross income <sup>1</sup> (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
Total taxable resident returns ..	200,562	1,619,784	1,030,994	58,292
\$600-4,999 .....	72,838	197,138	107,482	4,155
\$5,000-9,999 .....	71,786	526,490	310,023	14,911
\$10,000-24,999 .....	51,915	722,703	483,085	28,534
\$25,000-49,999 .....	3,304	107,862	81,989	6,277
\$50,000-99,999 .....	582	37,914	29,479	2,607
\$100,000 or more .....	137	27,677	18,936	1,809

1. The median for taxable returns was \$6,725; for taxable and non-taxable returns, \$5,559. For single taxable and non-taxable returns, it was \$2,418; for joint returns, \$9,017.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns-1966, Individuals (September 1969), pp. 9 and 12.

Table 91. -- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS:  
DECEMBER 31, 1969

Governmental unit and funds charged with debt service costs	All bonds (\$1,000)	Issued by State (\$1,000)	Issued by Counties (\$1,000)
Total .....	631,315	439,468	191,847
State .....	423,076	423,073	3
General fund .....	202,656	202,656	--
Highway fund .....	59,198	59,195	3
Airport fund .....	18,512	18,512	--
Airport Revenue .....	85,000	85,000	--
Harbor fund (revenue) .....	29,413	29,413	--
All others .....	28,297	28,297	--
City and County of Honolulu .....	185,779	11,270	174,509
General fund .....	136,931	11,270	125,661
All others .....	48,848	--	48,848
County of Maui, total .....	10,996	789	10,207
County of Hawaii, total .....	8,786	3,654	5,132
County of Kauai, total .....	2,678	683	1,996

Source: Tax Foundation of Hawaii, Government in Hawaii, 1970, p. 59.

Table 92. -- EMPLOYMENT AND PAYROLLS OF STATE AND LOCAL GOVERNMENT:  
OCTOBER 1967

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

NC Not computed.

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

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

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

## SECTION 15

# Banking, Insurance, and Business Enterprise

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

Deposits in Island banks reached \$1.5 billion in 1969, compared with \$673 million in 1960, \$123 million in 1940, and \$4.7 million in 1901. Assets of savings and loan associations stood at \$650 million in 1969, triple their 1960 level and eighty-five times as great as in 1940. Life insurance in force in Hawaii at the end of 1968 amounted to \$5.9 billion, double the figure reported seven years earlier and almost twenty-eight times the 1940 coverage.

By mid-1969, some 13,000 corporations and partnerships were registered to do business in Hawaii: 9,035 local ("domestic") corporations, 1,492 Mainland ("foreign") corporations, and 2,492 partnerships. Business units with one or more employees as of the first quarter of 1968 numbered 11,863, including 635 with twenty or more employees. During fiscal 1969, 1,570 new businesses with 4,958 employees were recorded; during the same year, 518 businesses with 2,038 workers were terminated.

Sources for statistics on these subjects include the Hawaii State Department of Regulatory Agencies (specifically its Bank Examination, Insurance, and Business Registration Divisions), Hawaii State Department of Labor and Industrial Relations, and the annual report on *County Business Patterns* issued by the U.S. Bureau of the Census. Comparable Mainland data appear in Sections 16 and 17 of *Statistical Abstract of the United States: 1969*.

Table 93. -- BANKING AND INSURANCE: 1901 TO 1969  
(In thousands of dollars)

Year	Banks, June 30		Savings and loan as- sociations, June 30		Insurance premiums written <sup>1</sup>		Life insur- ance in force, Dec. 31
	Assets	Deposits	Assets	Deposits	Total	Life	
1901 <sup>2</sup> .....	(NA)	4,662	(NA)	(NA)	914	436	(NA)
1910 .....	(NA)	13,324	(NA)	(NA)	1,391	528	14,857
1920 .....	(NA)	52,783	(NA)	(NA)	5,071	1,872	45,164
1930 <sup>3</sup> .....	(NA)	80,175	5,211	(NA)	7,939	4,675	123,978
1940 .....	137,489	123,296	7,663	6,452	9,861	6,797	211,284
1950 .....	400,031	376,456	43,336	36,826	35,521	19,247	707,063
1960 .....	735,652	672,866	202,200	165,653	91,387	45,607	2,555,929
1961 .....	843,084	769,200	228,476	188,179	97,782	50,003	2,873,220
1962 .....	934,438	842,596	263,781	220,120	105,597	54,166	3,265,933
1963 .....	934,223	838,080	322,674	273,288	116,263	59,230	3,593,592
1964 .....	991,432	887,057	395,586	322,355	124,287	63,318	3,760,033
1965 .....	1,081,588	940,834	460,454	365,211	137,331	69,315	4,212,206
1966 .....	1,201,515	1,001,426	490,130	387,152	149,321	74,127	4,697,954
1967 .....	1,263,917	1,110,733	514,407	424,005	162,102	80,217	5,102,132
1968 .....	1,440,891	1,287,166	569,325	480,137	179,236	85,713	5,874,280
1969 .....	1,669,606	1,499,459	650,398	528,570	(NA)	(NA)	(NA)

NA Not available.

1. Calendar years. Includes surplus lines. Life insurance data from 1962 forward include fraternal.

2. Insurance data refer to 1903, earliest year available.

3. Savings and loan data refer to 1932.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division and Insurance Division, records; Report of the Treasurer to the Legislature, 1935, pp. 62 and 86.



Table 94. -- ASSETS AND LIABILITIES OF BANKS AND SAVINGS AND LOAN ASSOCIATIONS:  
 DECEMBER 31, 1960 TO 1969  
 (In thousands of dollars)

Subject	1960	1965	1969
<b>BANKS</b>			
Total assets .....	813,618	1,155,117	1,694,440
Loans and discounts .....	400,109	667,133	1,023,995
U. S. government and other securities .....	248,905	282,558	395,470
Cash and due from banks .....	143,400	144,138	191,389
Fixed assets .....	12,105	27,476	40,267
Other assets .....	9,099	33,812	43,319
Total liabilities and capital.....	813,618	1,155,117	1,694,440
Demand deposits .....	275,452	373,402	579,592
Time and other deposits .....	467,844	632,113	923,143
Other liabilities .....	12,275	62,868	83,602
Capital.....	58,047	86,734	108,103
<b>SAVINGS AND LOAN ASSOCIATIONS</b>			
Total assets .....	210,993	482,067	694,828
Mortgage loans .....	185,034	423,603	595,029
Other loans .....	4,713	8,750	12,481
U. S. government and other securities.....	10,082	17,418	42,089
Fixed assets .....	2,693	8,361	23,153
Cash on hand and in banks.....	7,940	19,687	11,682
Other assets .....	531	4,248	10,394
Total liabilities .....	210,993	482,067	694,828
Withdrawable shares .....	175,040	364,036	511,269
Withdrawable deposits & invest. certificates...	277	14,034	41,987
Reserves .....	15,728	27,898	35,880
Surplus and undivided profits .....	977	5,718	17,393
Other liabilities .....	18,971	70,381	88,299

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

Table 95. -- INSURANCE: 1951 TO 1968

Year	Life insurance, excluding annuities					Other insurance	
	Companies	Insurance written (\$1,000)	In force, Dec. 31 (\$1,000)	Premiums received (\$1,000)	Losses paid (\$1,000)	Direct premiums written (\$1,000)	Direct losses paid (\$1,000)
1951 .....	45	152,353	801,460	20,891	4,265	18,745	6,312
1960 .....	116	594,203	2,555,929	45,607	16,677	45,248	21,612
1965 .....	117	839,399	3,754,782	69,315	26,815	67,524	29,295
1968 .....	216	1,181,382	5,874,280	85,713	36,609	92,946	49,363
Insurance by class, 1968 (\$1,000)							
Subject	Total	Life, excluding annuities	Accident and health	Fire	Workmen's Compensation	Auto-mobile	All others
Premiums ....	178,659	85,713	14,617	5,042	13,154	37,680	22,453
Losses paid ..	85,972	36,609	8,939	2,399	7,526	22,396	8,103
Life insurance in force, December 31, 1968							
Subject	All types	Ordinary	Group	Industrial	Fraternal		
Number of policies .....	418,203	408,183	1,215	7,686	1,119		
Amount (\$1,000) .....	5,192,303	3,288,851	1,895,372	3,281	4,800		

Source: Hawaii State Department of Regulatory Agencies, Report of the Insurance Commissioner of Hawaii (annual).

Table 96. -- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1910 TO 1969  
(Number on record as of June 30. Excludes eleemosynary corporations.)

Year	Corporations <sup>1</sup>		Partner- ships	Year	Corporations <sup>1</sup>		Partner- ships
	Domestic	Foreign			Domestic	Foreign	
1910 .....	628	124	(NA)	1963 .....	5,789	867	2,331
1920 .....	719	155	(NA)	1964 .....	6,409	896	2,186
1930 .....	870	214	(NA)	1965 .....	7,080	998	2,238
1940 .....	929	68	584	1966 .....	7,566	1,052	2,303
1950 .....	1,491	167	2,637	1967 .....	7,996	1,131	2,132
1960 .....	4,139	640	2,153	1968 .....	8,356	1,248	2,196
1961 .....	4,794	722	2,276	1969 .....	9,035	1,492	2,492
1962 .....	5,300	844	2,355				

Year ended June 30	Domestic corporations <sup>1</sup>		Foreign corporations <sup>1</sup>		Partnerships	
	Formed	Dissolved or merged	Qualified	Withdrew, merged, or cancelled	Registered	Dissolved or cancelled
1966 .....	957	471	142	88	343	278
1967 .....	813	383	178	99	376	547
1968 .....	984	624	199	82	389	325

NA Not available.

1. Hawaii corporations are termed "domestic"; Mainland corporations, "foreign."

Source: Report of the Treasurer to the Legislature of 1911 (pp. 37-38), 1921 (11. 58-59), 1931 (pp. 94 and 96), 1941 (pp. 34 and 39), and 1951 (pp. 22-24); Report of the Department of Treasury and Regulation ... 1960, pp. 15-17; Department of Regulatory Agencies, Annual Report ... 1968, pp. 17, 18, and 20, and records.

Table 97. -- CHARACTERISTICS OF BUSINESS UNITS, BY COUNTY: 1968

Geographic area and industry	Number of employees, mid-March pay period	Taxable payrolls, Jan.-Mar. (\$1,000)	Reporting units <sup>1</sup>		Employees per unit
			Total	50 or more employees	
The State .....	180,127	242,509	11,863	635	15.2
Counties:					
Hawaii .....	13,780	16,480	1,184	54	11.6
Honolulu .....	150,353	207,735	9,122	533	16.5
Kalawao .....	20	20	1	--	20.0
Kauai .....	5,950	6,492	470	20	12.7
Maui .....	8,481	9,486	735	28	11.5
Statewide .....	1,543	2,296	351	--	4.4
Industry group:					
Agricultural, forest, fish ....	777	701	134	--	5.8
Mining .....	352	805	12	3	29.3
Contract construction .....	18,960	39,005	1,092	85	17.4
Manufacturing .....	25,777	37,394	686	107	37.6
Transportation, utilities .....	18,387	34,060	454	63	40.5
Wholesale trade .....	13,445	21,919	1,059	44	12.7
Retail trade .....	42,898	38,581	3,024	142	14.2
Finance, insurance, real est.	14,314	20,225	1,427	49	10.0
Services .....	43,857	48,529	3,696	142	11.9
Unclassified .....	1,360	1,290	279	--	4.9
Employment-size class:					
1 to 3 .....	9,226	--	5,296	--	1.7
4 to 7 .....	12,935	--	2,484	--	5.2
8 to 19 .....	28,363	--	2,353	--	12.1
20 to 49 .....	32,377	--	1,095	--	29.6
50 to 99 .....	24,823	--	365	365	68.0
100 to 249 .....	27,751	--	187	187	148.4
250 to 499 .....	18,488	--	56	56	330.1
500 or more .....	26,164	--	27	27	969.0

1. Each manufacturing location of a company is counted as a separate reporting unit. In nonmanufacturing industries, employers (i. e., separate legal entities) are counted once in each County for each industry in which they operate, regardless of the number of establishments operated.

Source: U. S. Bureau of the Census, County Business Patterns, 1968, Hawaii, CBP-68-13.

Table 98. -- NEW AND TERMINATED BUSINESSES: 1960 TO 1969

Year (ended June 30), area, and kind of business	New businesses		Terminated businesses		Net increase	
	Number	Employment	Number	Employment	Number	Employment
1960 <sup>1</sup> .....	1,276	4,465	738	3,023	538	1,442
1961 <sup>1</sup> .....	1,605	4,901	719	2,912	886	1,989
1962 <sup>1</sup> .....	2,175	6,770	869	3,311	1,306	3,459
1963 <sup>1</sup> .....	1,543	5,603	1,068	3,708	475	1,895
1964 <sup>1</sup> .....	1,501	5,072	1,109	3,580	392	1,492
1965 <sup>1</sup> .....	1,351	4,451	847	2,903	504	1,548
1966 <sup>1</sup> .....	1,427	4,664	469	1,871	958	2,793
1967 .....	1,236	4,105	595	2,427	641	1,678
1968 .....	1,441	4,341	628	2,654	813	1,687
1969 .....	1,570	4,958	518	2,038	1,052	2,920
GEOGRAPHIC AREA, 1969						
Oahu .....	1,290	4,207	429	1,772	861	2,435
Maui County .....	90	206	29	74	61	132
Hawaii County .....	137	379	41	128	96	251
Kauai County .....	53	166	19	64	34	102
KIND OF BUSINESS, 1969						
Agric., forest., fisheries....	29	94	6	61	23	33
Construction .....	157	489	53	335	104	154
Manufacturing .....	77	236	26	125	51	111
Transp., comm., utilities ...	53	129	28	228	25	-99
Wholesale, retail trade.....	380	1,516	133	579	247	937
Finance, insurance, realest..	211	488	49	122	162	366
Services .....	636	1,935	214	573	422	1,362
Not classifiable .....	27	71	9	15	18	56

1. Excludes agriculture, forestry, and fisheries and nonclassifiable businesses, included in data for 1967-1969.

Source: Hawaii State Department of Labor and Industrial Relations, Business Births and Deaths (November 1967), pp. 12-13, and records.

## SECTION 16

# Communications, Power, and Science

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

Hawaii is served by all communications media. The most recent statistics indicate 80 post offices, 352,000 telephones, 28 radio stations, 12 television stations, and seven daily newspapers.

Electricity sales exceeded 3.4 billion kilowatt-hours in 1969, or 6,577 per housing unit. Domestic gas sales totalled 34 million therms.

The State is also well served with scientific resources. A 1969 inventory reported 265 companies and agencies with research or scientific capabilities. Employment in these organizations was more than 20,000.

Information on communications, power and science can be obtained from reports and records of the U.S. Post Office Department, Federal Communications Commission, Hawaii State Public Utilities Commission, individual utility companies, and Audit Bureau of Circulations. Similar data for the nation as a whole can be found in the *Statistical Abstract of the United States: 1969*, Sections 18, 19, and 20.

Table 99. -- COMMUNICATIONS: 1940 TO 1969

Subject	1940	1950	1960	1968	1969
Postal:					
Post offices, June 30 .....	95	97	83	80	(NA)
Postal receipts (\$1,000) .....	1,480	3,955	7,732	17,617	(NA)
Telephone service:					
Telephones in operation, Dec. 31	39,179	99,310	208,411	352,196	(NA)
Interisland calls .....	48,103	271,501	538,294	1,649,734	(NA)
Transpacific calls <sup>1</sup> .....	9,799	92,752	303,334	1,613,963	(NA)
Telegraph messages between Hawaii and Mainland .....	336,537	337,984	499,331	463,985	(NA)
Radio and television (Jan. 1):					
AM stations .....	3	8	15	25	24
FM stations .....	--	--	3	3	4
TV stations <sup>2</sup> .....	--	--	6	10	12
Newspaper circulation: <sup>3</sup>					
Honolulu .....	60,157	125,017	168,826	192,329	197,549
Hilo .....	4,674	9,848	9,884	11,645	12,483

NA Not available.

1. In and out, 1940 and 1950; out only, 1960 and thereafter.

2. Excludes unmanned satellite stations.

3. Average daily circulation of English language newspapers, for October 1940 and October-December, 1950 forward. Excludes Sunday editions.

Source: Hawaii State Department of Planning and Economic Development, Communications Statistics for Hawaii, 1964 (Statistical Report 19, May 31, 1964); Annual Report of the Postmaster General; Hawaiian Telephone Company, records; Federal Communications Commission, records; Audit Bureau of Circulations, reports.

Table 100. -- ELECTRICITY AND GAS SOLD, BY COUNTY: 1940 TO 1969

Subject	The State	City & Co. of Honolulu	Hawaii County	Maui County	Kauai County
Electricity sold (1,000 KWH):					
1940 .....	240,272	213,189	15,096	7,708	3,118
1950 .....	604,811	522,325	41,413	26,359	10,412
1960 .....	1,601,322	1,370,880	83,363	96,294	41,108
1968 .....	3,110,006	2,727,627	167,176	124,570	77,542
1969 .....	3,426,052	3,004,187	186,478	145,102	90,285
Average annual residential use (KWH): <sup>1</sup>					
1940 .....	(NA)	1,244	(NA)	(NA)	(NA)
1950 .....	2,388	2,645	1,770	1,743	1,009
1960 .....	4,330	4,803	3,084	3,485	1,724
1968 .....	6,322	6,799	4,591	4,863	4,070
1969 .....	6,577	7,085	4,845	5,013	4,256
Gas sold (1,000 therms): <sup>2</sup>					
1940 .....	(NA)	4,425	(NA)	(NA)	(NA)
1950 .....	(NA)	11,453	(NA)	(NA)	(NA)
1960 .....	18,977	16,538	1,331	447	361
1968 .....	31,146	26,041	2,639	1,398	1,068
1969 .....	34,315	28,546	2,975	1,623	1,171

NA Not available.

1. Based on number of customers at end of year.

2. Either manufactured or bottled.

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



Table 101. -- STATISTICAL SUMMARY OF SCIENTIFIC RESOURCES: 1969

Type of organization	Number reported	Employment		
		Total	Professional or technical	
Total companies and agencies . . . .	265	20,490	5,094	
Organizations with scientific capabilities . . . .	19	7,158	1,339	
Computer sciences . . . . .	27	1,351	637	
Research and development . . . . .	46	3,513	629	
Testing laboratories . . . . .	23	704	415	
Government research agencies . . . . .	101	7,183	1,882	
Federal civilian . . . . .	20	1,703	260	
Military . . . . .	12	806	150	
State, except U. H. . . . .	34	1,950	662	
University of Hawaii . . . . .	22	1,133	622	
County . . . . .	13	1,591	188	
Private research agencies . . . . .	29	581	192	
Type of organization	Number reported	Membership		Scientific books
		Regular	Associate	
Professional associations . . . .	43	10,226	545	--
Scientific libraries . . . . .	27	--	--	656,918

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Scientific Resources, 1969-1970 Directory, Fourth Edition, p. 7.

# 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 374,000 in 1969. Vehicle miles rose during the same period from 716 million to 3.2 billion. By the end of 1968, 375,000 licensed drivers had access to 3,442 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 42 million in 1950 to 24 million in 1969.

All scheduled interisland travel is now by air. As recently as 1940, interisland steamers carried 159,000 passengers, while the single airline then operating carried 24,000. In 1969, two scheduled airlines and a number of air taxis reported 2.7 million interisland passengers, triple their 1960 total.

Similar growth is evident in transpacific travel. Although surface passengers dropped from 95,000 in 1940 to 45,000 in 1969, air passengers increased during the same 29-year span from 639 to 3.8 million. Between 1936 and 1969, sharp declines occurred in both scheduled flight time between California and Hawaii (from 20 to 5 hours) and minimum roundtrip fare (from \$712 to \$170). Overseas cargo received in the State now amounts to 39,000 tons by air and 7.8 million tons by ship.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors, and Airports Divisions. Other sources include the U.S. Bureau of Public Roads, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Hawaii State Public Utilities Commission, and individual transportation companies. Similar statistics for other areas are reported in *Statistical Abstract of the United States: 1969*, Sections 21 and 22.

Table 102. -- MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES:  
1900 TO 1969

Year and county	Motor vehicle registration <sup>1</sup>			Fuel consumption per vehicle (gal.)	Vehicle miles	
	Total	Passenger cars	Other vehicles <sup>2</sup>		Total (millions)	Per vehicle
1900 .....	4	--	--	--	--	--
1910 .....	861	--	--	--	--	--
1922 .....	15,336	--	--	--	--	--
1932 .....	48,717	39,495	9,222	488	333.0	6,835
1940 .....	71,596	58,541	13,055	714	715.6	9,995
1950 .....	137,917	110,622	27,295	642	1,240.3	8,993
1960 .....	230,791	199,829	30,962	616	1,989.6	8,621
1961 .....	244,898	212,650	32,248	602	2,063.7	8,427
1962 .....	257,215	225,086	32,129	595	2,142.9	8,331
1963 .....	270,176	237,422	32,754	580	2,192.3	8,114
1964 .....	288,452	254,249	34,203	574	2,316.7	8,031
1965 .....	309,331	273,559	35,772	566	2,449.8	7,920
1966 .....	323,843	286,836	37,007	566	2,565.6	7,922
1967 .....	335,326	297,766	37,560	580	2,721.0	8,114
1968 .....	353,888	315,024	38,864	592	2,934.3	8,292
1969 .....	373,541	332,213	41,328	605	3,162.8	8,467
COUNTIES: 1969						
Honolulu .....	294,089	266,823	27,266	606	2,493.2	8,478
Hawaii .....	35,331	28,663	6,668	627	310.2	8,780
Maui .....	27,222	22,642	4,580	575	219.2	8,052
Kauai .....	16,899	14,085	2,814	593	140.2	8,296

1. Taxable and non-taxable, exclusive of scooters and motorcycles (8,579 in 1969), trailers and semi-trailers (9,254), and military vehicles (not reported).

2. Trucks (38,724 in 1969), buses (887), and tow cars, truck tractors, tractors tow trucks, patrols, ambulances, hearses, sweepers, hilifts, etc., (1,717).

Source: Hawaii State Department of Transportation, Highways Division, records; Robert C. Schmitt, "Automobile Ownership in Hawaii Before 1931: Dates and Data," Hawaii Historical Review, Vol. II, No. 10, January 1968, pp. 426-432.

Table 103. -- HIGHWAY MILEAGE, DRIVERS LICENSES, AND TRAFFIC ACCIDENTS,  
BY ISLAND: 1968

Island	Highway mileage, Dec. 31	Drivers licenses in force, Dec. 31	Traffic accidents <sup>1</sup>		
			Accidents	Persons injured	Deaths <sup>2</sup>
All islands . . . . .	3,442.4	374,616	13,989	10,082	147
Hawaii . . . . .	1,354.7	28,713	1,161	868	18
Maui . . . . .	511.7				
Lanai . . . . .	49.7	19,289	682	596	9
Molokai . . . . .	81.6				
Oahu . . . . .	1,140.8	313,845	11,741	8,349	109
Kauai . . . . .	303.9	12,769	405	269	11

1. With damage of \$100 or more, or causing injury or death.

2. Five traffic accidents have caused five or more deaths; seven-fatality accidents on Oahu in 1944 and 1969, and five-fatality accidents on Hawaii in 1945, Kauai in 1959, and Maui in 1967. See Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. 3 (1969), p. 78.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, Summary and Analysis, State of Hawaii, 1968, pp. 4-5, and records of highway mileage and drivers licenses.

Table 104. -- REVENUE PASSENGERS, BY MEANS OF TRANSPORTATION: 1860 TO 1969

Year	Bus or street car (Honolulu only) <sup>1</sup>	Steam railway <sup>2</sup>		Ship		Airline	
		All railroads	Oahu Rwy. and Land Co.	Inter-island <sup>3</sup>	Trans-pacific <sup>4</sup>	Inter-island <sup>5</sup>	Trans-pacific <sup>6</sup>
1860 .....	--	--	--	(NA)	1,348	--	--
1870 .....	--	--	--	(NA)	2,495	--	--
1880 .....	--	(NA)	--	(NA)	7,521	--	--
1890 .....	(NA)	(NA)	36,352	(NA)	11,010	--	--
1900 <sup>7</sup> .....	(NA)	(NA)	278,872	(NA)	41,788	--	--
1910 <sup>8</sup> .....	8,979,874	694,793	617,719	62,236	29,178	--	--
1920 <sup>9</sup> .....	16,926,617	2,760,585	2,033,756	95,237	30,170	--	--
1930 .....	14,505,045	591,069	322,685	143,806	70,000	10,356	--
1940 .....	23,390,745	354,159	331,587	158,328	94,582	28,624	639
1950 <sup>9</sup> .....	41,787,045	--	--	--	35,643	438,938	118,738
1960 .....	29,083,700	--	--	--	80,903	955,610	785,589
1961 .....	26,116,687	--	--	--	68,102	939,336	926,072
1962 .....	24,530,398	--	--	--	66,925	979,756	1,084,076
1963 .....	22,922,296	--	--	--	62,760	1,144,265	1,295,740
1964 .....	22,945,470	--	--	--	56,177	1,340,996	1,516,259
1965 .....	23,190,704	--	--	--	53,990	1,538,392	1,794,255
1966 .....	23,694,206	--	--	--	54,511	1,754,970	2,125,479
1967 <sup>9</sup> .....	18,301,341	--	--	--	52,876	2,117,557	2,735,151
1968 .....	23,514,205	--	--	--	49,099	2,358,964	3,171,259
1969 .....	24,079,233	--	--	--	45,428	2,724,622	3,806,147

NA Not available.

1. Calendar year data for the Honolulu Rapid Transit Co., Ltd. Street railway service, using mule cars, was initiated in Honolulu in 1888. Since 1903, HRT (which commenced operations in 1901) has provided the only large scale public transit service in Honolulu.

2. Calendar years through 1930; unspecified for 1940. 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. Total track mileage in the State was 209 in 1910, 325 in 1920, 374 in 1930, 323 in 1940, 59 in 1950, and 10 in 1969.

3. Years ended June 30, 1910 to 1930, and December 31, 1940. Except for limited accommodations aboard freighters, scheduled interisland passenger service was discontinued in January 1949.

4. Calendar years 1860-1899 and 1930; years ended June 30, 1911, 1920, and 1940-1969. This series shows combined totals for arrivals and departures, excluding through passengers (1,134 in 1870, 1,903 in 1880, 3,965 in 1890, and 44,621 in 1969; not available for other years). There were 24,089 arrivals, 21,339 departures, and 44,621 through passengers in 1969.

5. Calendar years. Service began in 1929.

6. Calendar years. Includes Hilo (35,173 in 1967, 321,613 in 1968, and 341,629 in 1969) as well as Honolulu. This series shows combined totals for arrivals, departures, and through passengers. In 1969 there were 1,766,720 arrivals, 1,769,087 departures, and 270,340 through passengers. Scheduled service started in Honolulu in 1936 and in Hilo in 1967.

7. The transpacific ship total refers to calendar 1899.

8. The transpacific ship total refers to the year ended June 30, 1911.

9. Passenger volumes affected by major strikes.

Source: Hawaii State Department of Planning and Economic Development, Passenger Statistics of Hawaii (in preparation).

Table 105. -- AIR FARES AND FLIGHT TIMES, HONOLULU TO HILO AND SAN FRANCISCO:  
1929 TO 1969

Date fare was initiated	Honolulu-Hilo <sup>1</sup>		Date fare was initiated	Honolulu-San Francisco <sup>2</sup>	
	Regular round trip fare <sup>3</sup> (dollars)	Scheduled flight time (hours)		Lowest round trip fare <sup>3</sup> (dollars)	Scheduled flight time (hours)
1929, Nov. 11 .....	60.00	1:40	1936, Oct. 12 .....	712.00	20:00
1933, Apr. 17 .....	45.00	1:40	1939, Mar. 8 .....	556.00	17:30
1939, July 31 .....	41.40	1:25	1940, Aug. 1 .....	500.00	17:30
1941, Jan. 11 .....	37.80	1:25	1946, Apr. 1 .....	350.00	11:45
1943, Feb. 1 .....	32.40	1:20	1947, May 1 .....	243.00	11:45
1945, Oct. 15 .....	30.00	1:20	1947, Nov. ....	270.00	11:45
1946, July 10 .....	27.00	1:20	1949, Mar. ....	288.00	9:25
1948, Feb. 15 .....	30.00	1:20	1952, Nov. 1 .....	302.40	9:25
1949, July 1 .....	27.00	1:20	1952, Dec. 3 .....	250.00	9:25
1954, Feb. 17 .....	30.00	1:02	1958, Apr. 10 .....	266.00	8:25
1957, Apr. 1 .....	33.00	1:02	1963, Nov. 1 .....	200.00	4:50
1958, Apr. 1 .....	35.20	1:02	1969, Oct. 1 .....	170.00	4:50
1960, Sept. 12 .....	38.18	1:02			
1962, Nov. 16 .....	38.28	1:02			
1968, Mar. 1 .....	40.00	0:32			
1969, Mar. 1 .....	44.00	0:32			
1969, Nov. 1 .....	48.00	0:32			

1. By Hawaiian Airlines. Flight time is average for the following equipment: 1929-1936, Sikorsky-38; 1936-1941, Sikorsky-43; Nov. 1941 - Nov. 1952, Douglas DC-3; Nov. 1952 - Aug. 1963, Convair CV-340; Aug. 1963 - March 1966, Viscount; 1966-1969, Douglas DC-9.

2. By Pan American World Airways. Flight time is average (eastbound and westbound) block to block for the following equipment: 1936-1938, Martin M-130; 1939-1945, Boeing B-314; 1946-1948, Douglas DC-4; 1949-1956, Boeing B-377; 1957-1959, Douglas DC-7C; 1960-1969, Boeing B-707.

3. Excludes Federal tax of 5 percent effective October 10, 1941; raised to 10 percent effective November 1, 1942; raised to 15 percent effective April 1, 1944; lowered to 10 percent effective April 1, 1954; lowered to 5 percent effective November 16, 1962. Since October 1, 1956, the tax has not been imposed on that part of transpacific flights outside the three-mile limit; it amounts to \$0.06 on a \$200.00 round trip fare.

Source: Hawaiian Airlines and Pan American World Airways, records.

Table 106. -- AIR CARGO AND AIR MAIL: 1950 TO 1969

Year	Overseas air cargo (1,000 lb.) <sup>1</sup>			Overseas air mail (1,000 lb.) <sup>1</sup>			Interisland (1,000 lb.) <sup>2</sup>	
	Outgoing	Incoming	Through	Outgoing	Incoming	Through	Air cargo	Air mail
1950 <sup>3</sup> .....	1,144	1,935	1,389	1,214	1,230	1,121	17,126	863
1960 <sup>4</sup> .....	8,240	10,878	3,837	7,955	8,702	--	25,803	1,139
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 .....	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

1. For Honolulu International Airport and (beginning in 1967) General Lyman Field, Hilo. The decline after 1968 may be attributable to incomplete reporting.

2. For all airports under State jurisdiction. The air mail data reflect the airlifting of all interisland third- and fourth-class mail beginning in October 1965.

3. Year ended June 30.

4. Year ended June 30 for overseas air mail and December 31 for all other series.

Source: Hawaii Aeronautics Commission, Annual Report for 1950 and 1960, and Hawaii State Department of Transportation, Airports Division, annual tabular releases.

Table 107. -- SHIP ARRIVALS AND GROSS TONNAGE, 1824 TO 1969, AND CARGO TONS, 1910 TO 1969

Calendar year	Overseas vessel arrivals <sup>1</sup>		Calendar year	Overseas vessel arrivals <sup>1</sup>	
	Number	Tonnage (1,000)		Number	Tonnage (1,000)
1824 .....	105	(NA)	1860 <sup>2</sup> .....	286	39
1830 .....	133	(NA)	1870 .....	239	118
1840 .....	78	(NA)	1880 .....	217	138
1850 .....	467	137	1890 .....	252	213

Year ended June 30	Overseas vessel arrivals <sup>1</sup>		Interisland vessel arrivals <sup>1</sup>		Overseas cargo (1,000 tons) <sup>3</sup>		Interisland cargo (1,000 tons) <sup>3</sup>	
	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	In	Out	In	Out
1901 .....	559	853	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1910 .....	373	1,239	(NA)	(NA)	(NA)	(NA)	414	414
1920 .....	839	4,530	(NA)	(NA)	(NA)	(NA)	393	393
1930 .....	903	7,607	1,365	1,638	(NA)	(NA)	355	355
1940 .....	872	7,236	2,622	1,917	(NA)	(NA)	235	235
1950 .....	861	7,281	2,210	1,059	2,520	2,046	617	589
1960 .....	1,411	12,305	2,272	1,061	3,773	2,095	974	976
1961 .....	1,518	12,699	2,460	1,143	4,830	2,496	1,170	1,173
1962 .....	1,818	13,094	2,522	1,150	4,988	2,678	1,224	1,232
1963 .....	1,799	12,487	2,550	1,119	4,566	2,603	1,240	1,219
1964 .....	2,064	13,103	2,446	1,275	5,185	2,732	1,334	1,372
1965 .....	1,948	12,992	2,551	1,125	5,840	2,922	1,427	1,354
1966 .....	1,941	14,654	2,877	1,220	6,165	3,031	1,600	1,511
1967 .....	1,684	13,821	2,652	1,422	6,830	3,051	2,424	1,990
1968 .....	1,774	15,277	2,474	1,414	7,818	3,105	1,651	1,505
1969 .....	1,903	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1. Port of Honolulu only. Data before 1901 exclude national vessels, such as warships and government survey vessels.

2. Tonnage total excludes 179 whaling vessels, included in the number of arrivals.

3. State and private piers on all islands. Data for 1910-1940 are limited to freight carried by Inter-Island Steam Navigation Co.

Source: The Friend, May 1, 1844, p. 49; The Polynesian, February 1, 1851; Collector General of Customs, Custom House Statistics for 1860, 1870, and 1880, and Report for 1890; Report of the Governor of Hawaii for 1902 and 1910; Territorial Planning Board, First Progress Report (1939), Plate 142; Board of Harbor Commissioners, Annual Report, 1920-1961; Hawaii State Department of Transportation, Harbors Division, Shipping Information, 1962-1968 and records; Anson Chong, Economic Development of Hawaii and the Growth of Tourism (1963), p. 74.



## SECTION 18

# Agriculture

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

There were 4,700 farms in Hawaii as of 1968, with a total area of 2,350,000 acres. Both figures have declined appreciably during the past decade. The value of crop sales in 1968 was \$168 million, about 44 percent more than in 1960. Livestock sales amounted to \$38 million, or 14 percent more than the 1960 level. Combined crop and livestock sales ranged from \$29 million in Kauai County to \$62 million on the Big Island.

Major crops in 1968 were sugar (\$112 million in sales), pineapple (\$38 million), and vegetables and melons (\$6 million). Important products of livestock farms as of 1968 included cattle (\$12.9 million in sales), milk (\$12.6 million), and eggs (\$6.6 million). Coffee and rice production have declined sharply since the early years of the century, but macadamia nuts have increased rapidly.

Important sources for data on agriculture include the *United States Census of Agriculture* for 1964 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: 1969*.

Table 108. -- FARMS, FARM ACREAGE, CROPS HARVESTED, AND LIVESTOCK: 1900 TO 1964

Subject	1900	1920	1930	1940	1950	1959	1964
Number of farms .....	2,273	5,284	5,955	4,995	5,750	6,242	4,864
Under 10 acres.....	1,209	2,734	3,407	2,870	3,558	3,569	2,603
10 to 259 acres .....	886	2,333	2,373	1,954	2,008	2,420	2,010
260 or more acres ...	178	217	175	171	184	253	251
Farm acreage (1,000's) ...	2,610	2,702	2,815	2,486	2,432	2,461	2,354
Farms over 260 acres	2,568	(NA)	2,727	2,411	2,350	2,364	2,266
Irrigated .....	(NA)	(NA)	(NA)	133	117	141	144
Cropland harvested ..	(NA)	(NA)	(NA)	185	159	176	167
Quantity harvested:							
Coffee (tons).....	(NA)	9,942	9,975	4,273	2,324	5,003	4,840
Macadamia nuts							
(1,000 lbs.)...	(NA)	(NA)	5	181	704	2,015	7,015
Pineapples (1,000							
tons).....	(NA)	150	355	614	655	1,010	924
Rice (10,000 lb.)....	3,444	2,957	758	190	66	29	(NA)
Sugar cane (1,000							
tons).....	2,239	4,863	7,471	8,535	7,889	9,391	10,741
Animals on farms (1,000's):							
Cattle and calves ...	103	137	138	139	156	205	218
Hogs and pigs .....	8	24	31	32	65	78	68
Sheep and lambs ....	102	43	32	26	14	12	12
Chickens over 4 mo.	32	65	271	273	472	806	1,045
Farm operators .....	2,273	5,284	5,955	4,995	5,750	6,242	4,864
Hired workers (150							
days or more).....	(NA)	(NA)	(NA)	(NA)	21,597	14,403	12,527

NA Not available.

Source: U. S. Bureau of the Census, U. S. Census of Agriculture: 1959, Final Report, Vol. I, Part 50, Hawaii, and U. S. Census of Agriculture: 1964, Vol. 1, Part 50, Hawaii.

Table 109. -- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP  
AND LIVESTOCK SALES: 1960 TO 1968

Area and year	Number of farms	Area in farms <sup>1</sup> (1,000 acres)	Value of sales (\$1,000)		
			Crops and livestock	Crops	Livestock
The State:					
1960 .....	6,600	2,600	149,859	116,338	33,521
1961 .....	6,200	2,550	160,330	125,980	34,350
1962 .....	5,700	2,500	170,355	136,101	34,254
1963 .....	5,200	2,450	192,759	158,450	34,309
1964 .....	5,100	2,450	176,354	140,752	35,602
1965 .....	5,000	2,400	186,541	150,848	35,693
1966 .....	4,900	2,400	197,270	160,015	37,255
1967 .....	4,800	2,360	200,450	162,599	37,851
1968 .....	4,700	2,350	206,188	167,852	38,336
Hawaii County:					
1960 .....	3,600	1,521	39,219	31,224	7,995
1968 .....	2,550	1,375	61,960	51,448	10,512
Kauai County:					
1960 .....	600	315	21,169	18,734	2,435
1968 .....	400	284	29,294	26,481	2,813
Maui County:					
1960 .....	1,050	595	41,016	37,350	3,666
1968 .....	750	538	56,980	52,654	4,326
Oahu:					
1960 .....	1,350	169	48,455	29,030	19,425
1968 .....	1,000	153	57,954	37,269	20,685

1. Includes land not in crop and pasture. Also includes land in houselots, roads, etc.

Source: Hawaii Crop and Livestock Reporting Service, Statistics of Hawaiian Agriculture, 1968 (U. S. Department of Agriculture, in cooperation with Hawaii State Department of Agriculture, July 1969).

Table 110. -- ACREAGE IN CROP AND PASTURE, NUMBER OF FARMS, VOLUME OF CROP MARKETINGS,  
AND VALUE OF CROP SALES, BY CROP: 1960 TO 1968

Subject	The State		Counties, 1968			
	1960	1968	Hawaii	Kauai	Mau	Honolulu
<b>Acreege (1,000 acres):</b>						
Sugarcane .....	224.6	238.9	106.1	51.6	44.2	37.0
Pineapple .....	75	65	--	2.3	44.2	18.5
Vegetables and melons	3.4	3.2	1.0	0.1	0.9	1.2
Fruits (excl. pineapple)	2.6	3.4	2.1	0.3	0.4	0.6
Coffee .....	5.5	4.7	4.7	--	--	--
Macadamia nuts .....	3.8	8.5	8.4	0.1		--
Pasture .....	1,250	1,286	796	127	324	39
<b>Number of crop farms:</b>						
Sugar .....	988	768	752	8	3	5
Pineapple .....	135	63	--	29	32	2
Vegetables and melons	773	562	125	50	118	269
Fruits (excl. pineapple)	651	507	215	67	62	163
Coffee .....	1,128	860	860	--	--	--
Macadamia nuts .....	215	247	236	7	3	1
Taro .....	233	141	30	43	59	9
<b>Volume of crop marketings:<sup>1</sup></b>						
Sugar (unprocessed cane).....	8,613	11,280	4,660	2,377	2,348	1,892
Pineapple (fresh equivalent) .....	884	919	(NA)	(NA)	(NA)	(NA)
Vegetables and melons	48,475	49,655	18,085	2,017	15,845	13,810
Fruits (excl. pineapple) .....	24,190	39,107	24,800	2,165	1,559	4,330
Coffee (parchment) ..	13,272	6,180	6,180	--	--	--
Macadamia nuts (in shell) .....	2,569	10,151	10,051	100	--	--
Taro .....	9,675	9,140	2,105	4,875	1,845	315
<b>Value of crop sales (\$1,000):</b>						
Sugar (unprocessed cane).....	67,200	112,400	41,600	24,000	26,300	20,500
Pineapple (fresh equivalent) .....	36,100	37,800	--	1,500	23,500	12,800
Vegetables and melons	4,611	6,342	2,113	343	1,567	2,319
Fruits (excl. pineapple) .....	1,400	3,213	2,336	188	330	359
Coffee (parchment) ..	3,202	1,545	1,545	--	--	--
Macadamia nuts (in shell) .....	472	2,316	2,294	22		--
Others <sup>2</sup> .....	3,353	4,236	1,560	428	957	1,291

NA Not available.

1. Sugar and pineapple in 1,000 tons, other crops in 1,000 pounds.

2. Chiefly flowers, foliage and nursery products (\$2,600,000 in 1968) and taro (\$676,000).

Source: Hawaii Crop and Livestock Reporting Service, Statistics of Hawaiian Agriculture, 1968 (U. S. Department of Agriculture, in cooperation with Hawaii State Department of Agriculture, July 1969).

Table 111. -- NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS,  
AND VALUE OF LIVESTOCK SALES, BY PRODUCT: 1960 TO 1968

Subject	The State		Counties, 1968			
	1960	1968	Hawaii	Kauai	Maui	Oahu
Number of livestock farms:						
Cattle .....	1,820	1,500	620	220	390	270
Hogs .....	1,760	1,000	360	90	260	290
Milk .....	260	160	53	19	45	43
Eggs .....	900	420	170	30	110	110
Broilers .....	39	34	4	2	4	24
Honey .....	48	27	6		5	16
Volume of livestock marketings:						
Beef (1,000 lb. dressed weight)....	25,001	33,621	20,405	2,958	6,965	3,293
Pork (1,000 lb. dressed weight)....	8,831	9,229	1,194	436	818	6,781
Milk (million lbs.) ..	120	132	9.2	4.8	7.0	111.1
Eggs (million eggs) ..	138	203	30.2	11.6	12.0	149.7
Broilers and chickens (1,000 lb. live weight)	6,592	7,282	595	392	248	6,047
Honey, beeswax (1,000 lb.).....	285	362	238.2		105.6	18.5
Value of livestock sales (\$1,000):						
Cattle .....	9,837	12,860	7,825	1,123	2,804	1,108
Hogs .....	3,684	4,171	508	228	427	3,008
Milk .....	10,635	12,619	784	458	1,001	10,376
Eggs .....	6,911	6,631	1,127	891		4,613
Broilers and chickens	2,347	1,934	183	113	79	1,559
Others .....	107	121	85		15	21

Source: Hawaii Crop and Livestock Reporting Service, Statistics of Hawaiian Agriculture, 1968 (U. S. Department of Agriculture, in cooperation with Hawaii State Department of Agriculture, July 1969).

## **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 Hawaii Island. More than 44,000 acres had been planted in eucalyptus and other species of trees by 1968. The volume of sawtimber reported in that year was 789 million board feet. Primary forest products harvested in 1967 had a value of \$334,000.

The commercial fish catch in 1969 exceeded 9.7 million pounds and had a value of \$3.5 million. *Aku* (Skipjack) accounted for almost half of the total value.

The value of mineral production reached \$29 million in 1969, most of it in cement and stone.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries, and reports of the Hawaii State Department of Land and Natural Resources Fish and Game Division and Forestry Division. Comparable Mainland statistics are reported in the *Statistical Abstract of the United States: 1969*, Sections 24, 25 and 26.

Table 112. -- AREA OF FOREST LAND, 1961, AND PLANTED FOREST, 1968, AND VOLUME OF SAWTIMBER, 1968, BY ISLAND

Island	Forest land area, 1961 (1,000 acres)		Area of planted forest, to 1968 (acres) <sup>3</sup>	Volume of sawtimber, 1968 (1,000 board feet) <sup>4</sup>
	Total <sup>1</sup>	Commercial <sup>2</sup>		
State total.....	1,981.6	1,088.9	44,513	788,931
Niihau .....	28.0	--	--	--
Kauai.....	223.0	136.7	4,548	37,316
Oahu .....	210.6	97.1	7,099	49,652
Molokai .....	82.9	23.6	2,716	4,204
Lanai .....	28.2	2.1	512	2,920
Kahoolawe .....	11.7	--	--	--
Maui .....	263.6	120.4	10,229	105,560
Hawaii.....	1,133.6	709.0	19,409	589,279

1. Includes commercial (1,088.9), unproductive (807.3), and productive-reserved (85.4).
  2. Includes Federal military (8.6), State (487.3), County (0.4), farmer-owned (365.9), and miscellaneous private (266.7).
  3. Chiefly *Robusta Eucalyptus* (10,866), other *Eucalyptus* (7,384), other hardwoods (11,515), and conifers (5,182).
  4. Includes *Ohia* (377,555), *Koa* (120,903), *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).

Table 113. -- PRIMARY FOREST PRODUCTS HARVESTED: 1958 TO 1967

Primary forest product	Production <sup>1</sup>			Value (\$1,000)		
	1958	1963	1967	1958	1963	1967
Total .....	--	--	--	269	230	334
Sawlogs .....	405	913	3,925	40	149	161
Craftwood .....	510		196	121		58
Fuelwood .....	1,300	847	720	19	19	28
Posts .....	65	22	7.1	54	23	12
Tree fern .....	100	118	143.5	35	39	75

1. Sawlogs and craftwood in 1,000 board feet, fuelwood in cords, posts in 1,000 pieces and tree fern in 1,000 cubic feet.
- Source: U. S. Department of Agriculture, Pacific Southwest Forest and Range Experiment Station, Forest Products Harvested in Hawaii—1967, Res. Note PSW-179.

Table 114. -- COMMERCIAL FISH LANDINGS: 1950 TO 1969  
(Includes both sea and pond catch)

Calendar year	Pounds caught	Pounds sold	Value (dollars)	Value per pound (cents)
1950 .....	16,217,546	16,163,613	3,556,332	22.0
1955 .....	15,457,444	15,396,173	3,164,742	20.6
1960 .....	11,136,020	11,103,934	2,705,152	24.4
1961 .....	14,450,334	14,430,654	2,903,181	20.1
1962 .....	13,169,717	13,125,616	2,819,331	21.5
1963 .....	11,756,645	11,707,788	2,682,049	22.9
1964 .....	12,702,696	12,658,664	2,849,371	22.5
1965 .....	19,601,705	19,545,636	3,603,058	18.4
1966 .....	13,037,479	12,974,097	3,128,534	24.1
1967 .....	11,859,136	11,786,073	3,076,198	26.1
1968 .....	13,014,062	12,908,570	3,449,621	26.7
1969 <sup>1</sup> .....	9,728,134	9,586,966	3,501,209	36.5

1. Total catch for the year ended June 30, 1969 was 11,096,116 pounds (11,078,312 sea catch and 17,804 pond catch) with a value of \$3,378,553 (\$3,368,882 sea catch and \$9,671 pond catch). Ocean species with a value in excess of \$100,000 were aku (skipjack) (\$1,404,317), ahi (bigeye) (\$555,944), ahi (yellowfin) (\$194,407), stripe marlin (\$184,010), akule (\$155,482), hahalalu (\$145,683), and opelu (\$100,952). The chief pond catch was awa (\$4,756).

Source: Hawaii State Department of Land and Natural Resources, 1968-1969 Annual Report to the Governor, p. 42, and Division of Fish and Game, records.

Table 115. -- MINERAL OPERATIONS: 1909 TO 1969

Year	Establishments	All employees		Value of shipments and receipts (\$1,000)		Value added in mining (\$1,000)	Capital expenditures (\$1,000)
		Total	Payroll (\$1,000)	Total <sup>1</sup>	Mineral industries only		
1963 .....	49	339	1,758	7,462	6,525	5,677	520
1958 .....	24	445	1,820	6,207	5,847	4,887	704
1954 .....	13	171	598	1,778	(NA)	1,266	193
1919 .....	5	151	95	251	(NA)	202	(NA)
1909 .....	6	43	14	21	(NA)	16	(NA)

Year	Value of mineral production (\$1,000)				Quantity produced	
	Total	Cement	Stone	Other	Cement <sup>2</sup>	Stone <sup>3</sup>
1969 (est.) .....	29,116	10,312	15,877	2,927	2,059	6,292
1968 .....	23,225	9,254	11,273	2,698	1,841	5,211
1967 .....	16,936	7,360	7,207	2,369	1,395	4,100

NA Not available.

1. Including operations in manufacturing (5 establishments in 1963).

2. Thousand 376-pound barrels.

3. Thousand short tons.

Source: U. S. Bureau of the Census, Census of Mineral Industries, 1963. Area Statistics: Hawaii, MIC63 (2)-10, table 1, and U. S. Bureau of Mines, "The Mineral Industry of Hawaii in 1969," Mineral Industry Surveys, December 1969.



## 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.

Approximately 21,000 structures or projects, with a permit value of \$552.7 million, were authorized by building permits issued during fiscal 1969. Almost half of dollar volume was for new apartments, chiefly on Oahu. The value of land transfers reached an all-time peak of \$809 million in 1969. Mortgage loans outstanding as of the end of 1968 amounted to \$1.4 billion, or triple the 1959 total.

The number of occupied housing units in the State increased from 30,000 in 1900 to 87,000 in 1940 and an estimated 193,000 in 1968. Owner occupied units numbered 32,000 in 1950 and 84,000 in 1969; the latter total included 65,000 on land owned in fee and almost 19,000 on leased land. Military and public housing accounted for 21,500 units as of 1969.

Housing was in short supply throughout most of the past decade: on Oahu, the 1969 vacancy rate was only 1.2 percent, although 29 percent of all units turned over at least once during the year. Median monthly rent on Oahu rose from \$70 in 1958 to \$147 in 1968-1969, and the rent-income ratio increased from 16.9 percent to 23.8.

The average property value of homes insured by the Federal Housing Administration in Hawaii was \$24,000 in 1963 and \$32,000 in 1968—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: 1969*.

Section 20  
CONSTRUCTION AND HOUSING

Table 116. -- ESTIMATED VALUE OF BUILDING PERMITS, FOR THE CITY AND  
COUNTY OF HONOLULU: 1940 TO 1969

Calendar year	Estimated value (\$1,000)		Calendar year	Estimated value (\$1,000)	
	All permits	New housing <sup>1</sup>		All permits	New housing <sup>1</sup>
1940 .....	10,845	6,510	1955 .....	62,245	35,780
1941 .....	11,874	6,911	1956 .....	65,623	33,450
1942 .....	2,684	235	1957 .....	78,303	42,434
1943 .....	3,374	827	1958 .....	99,144	48,444
1944 .....	9,491	4,283	1959 .....	129,020	80,585
1945 .....	11,818	6,068	1960 .....	164,098	78,463
1946 .....	23,021	9,592	1961 .....	135,900	59,815
1947 .....	35,026	19,767	1962 .....	179,229	94,424
1948 .....	46,047	24,595	1963 .....	137,888	71,169
1949 .....	30,003	12,305	1964 .....	145,873	77,156
1950 .....	46,692	25,664	1965 .....	219,294	122,603
1951 .....	42,633	29,119	1966 .....	255,176	138,183
1952 .....	42,164	31,089	1967 .....	210,408	92,325
1953 .....	45,768	28,453	1968 .....	345,600	164,941
1954 .....	49,373	27,227	1969 .....	412,594	195,963

1. New 1-family, 2-family, or multi-family dwellings. Excludes hotels.

Source: City and County of Honolulu, Department of Buildings, Summary of Building Permits (annual) and records.

Table 117. -- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMIT,  
BY COUNTY: 1965 TO 1969

Category and year authorized	The State	Hawaii County	Honolulu County	Kauai County	Maui County
<b>New 1-family dwellings:</b>					
1965 .....	5,480	431	4,512	202	335
1966 .....	3,954	453	2,944	212	345
1967 .....	3,930	393	3,005	160	372
1968 .....	4,811	493	3,680	214	424
1969 .....	4,886	652	3,569	264	401
<b>Units in new 2-family structures:</b>					
1965 .....	178	4	132	14	28
1966 .....	80	12	52	12	4
1967 .....	54	4	46	-	4
1968 .....	424	6	416	-	2
1969 .....	316	16	286	-	14
<b>New apartments:</b>					
1965 .....	5,799	90	5,555	6	148
1966 .....	6,495	61	6,320	12	102
1967 .....	3,341	18	3,159	4	160
1968 .....	6,686	354	5,747	100	485
1969 .....	7,571	390	6,310	18	853
<b>Demolition and conversion:</b>					
1965 .....	-1,086	-64	-794	-136	-22
1966 .....	-982	-57	-788	-96	-41
1967 .....	-1,123	-82	-722	-276	-43
1968 .....	-1,189	-119	-927	-92	-51
1969 .....	-1,000	-120	-694	-128	-58

Source: Compiled from County building departments by the Hawaii State Department of Planning and Economic Development.

Table 118. -- CONSTRUCTION AUTHORIZED, BY CATEGORY, BY COUNTY: JULY 1, 1968 TO JUNE 30, 1969

Type of construction	All counties		Honolulu		Hawaii		Kauai		Maui	
	Projects	Value (\$)	Projects	Value (\$)	Projects	Value (\$)	Projects	Value (\$)	Projects	Value (\$)
All types .....	21,045	552,682,433	15,981	454,834,018	3,308	45,934,293	456	19,930,328	1,300	31,983,794
New .....	11,113	506,152,268	8,982	421,675,266	1,024	42,273,726	333	16,900,479	774	25,302,797
1-family .....	8,159	93,856,882	3,898	72,234,073	576	9,642,790	243	4,295,980	442	7,684,039
Duplex .....	136	3,758,254	126	3,494,526	3	69,000	-	-	6	194,728
Apartment .....	466	249,557,531	376	231,111,969	27	6,951,589	8	1,234,286	55	10,259,687
Hotels .....	117	54,214,464	41	34,107,375	36	11,837,589	39	8,167,500	1	102,000
Other private .....	5,104	81,711,803	4,506	68,678,609	313	7,112,489	30	1,446,022	255	4,474,683
Public .....	132	23,053,334	35	12,048,714	69	6,660,269	13	1,756,691	15	2,587,660
Additions, alterations....	9,932	46,530,165	6,999	33,158,752	2,284	3,660,567	123	3,029,849	526	6,680,997
Homes, apartments ...	7,348	16,769,371	5,675	12,641,613	1,231	2,086,790	63	835,035	379	1,205,933
Other private .....	2,479	26,935,984	1,300	20,107,999	990	989,122	46	1,341,244	143	4,497,619
Public .....	105	2,824,810	24	409,140	63	584,655	14	853,570	4	977,445

Source: F. W. Dodge Division, McGraw-Hill Information Systems Co., unpublished monthly tabulations.

Table 119. -- CONSTRUCTION COST INDEX, BUILDING PERMIT VALUE PER UNIT, REAL ESTATE MORTGAGE LOANS OUTSTANDING, AND VALUE OF LAND TRANSFERS: 1949 TO 1969

Year	Hawaiian Construction Cost Index (1950-54=100)	Building permit value per unit: Oahu (\$)		Mortgage loans outstanding, Dec. (\$1,000)	Value of land transfers (\$1,000) <sup>1</sup>	
		Single-family	Apartment units		State	Oahu
1949 .....	90.3	7,426		106,076	...	...
1959 .....	138.0	10,601	8,381	443,365	...	...
1967 .....	193.7	16,982	12,913	1,228,091	442,371	374,706
1968 .....	201.3	18,134	15,607	1,386,863	440,689	356,318
1969 .....	209.9	19,427	16,745	(NA)	809,415	596,427

NA Not available.

1. Includes leases, agreement of sales assignments, subleases, etc. Comparable data not available before 1967.

Source: Builders Report Pacific, January 13, 1969; Honolulu Redevelopment Agency, Redevelopment and Housing Research, No. 19, June 1961, p. 27, and Supplemental Research Notes, Nov. 1967, p. 6, Feb. 1969, pp. 11-12, August-December 1969, p. 7, and February-March 1970, p. 12; Bank of Hawaii, Construction in Hawaii-1969, p. 31; Honolulu Building Department, records; First Hawaiian Bank, records.

Table 120. -- OCCUPIED HOUSING UNITS AND POPULATION PER UNIT: 1890 TO 1968

Year	Total	Occupied housing units <sup>1</sup>				Population <sup>2</sup>	
		Location		Tenure <sup>3</sup>		Total	Per unit
		Oahu	Other islands	Owner occ.	Renter occ.		
1890 .....	12,023	5,036	6,987	(NA)	(NA)	89,990	7.48
1896 .....	14,026	5,816	8,210	5,966	8,060	109,020	7.77
1900 .....	29,763	10,325	19,438	6,321	21,086	154,001	4.17
1910 .....	52,219	20,377	31,842	6,776	44,900	191,909	3.68
1920 .....	65,670	28,657	37,013	8,695	56,386	255,912	3.90
1930 .....	77,070	39,563	37,507	14,624	61,807	368,336	4.78
1940 .....	86,855	51,554	35,301	22,030	64,825	423,330	4.87
1950 .....	112,290	77,893	34,397	37,025	75,265	499,794	4.47
1960 .....	153,064	117,856	35,208	62,937	90,127	632,772	4.13
1968 .....	193,000	(NA)	(NA)	(NA)	(NA)	775,000	4.02

NA Not available.

1. Termed "private residences" in 1890 and 1896, "families" in 1900-1930, "occupied dwelling units" in 1940 and 1950, and "occupied housing units" in 1960 and 1968. Data for 1910-1930 include institutions, barracks, and other group quarters as separate units.

2. Includes population in group quarters (29,287 in 1890, 37,211 in 1896, 43,695 in 1900, 36,564 in 1950, 39,965 in 1960, and not available for other years). Excluding these persons, population per unit was 5.05 in 1890, 5.12 in 1896, 3.71 in 1900, 4.14 in 1950, and 3.87 in 1960.

3. Units not reporting tenure numbered 2,356 in 1900, 543 in 1910, 589 in 1920, and 639 in 1930.

Source: Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), pp. 78, 124, and 129; Report of the General Superintendent of the Census for 1890 (table 9) and 1896 (pp. 101, 110-111, and 114); U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 440 (March 3, 1970) and Series P-26, No. 5 (February 18, 1970).

Table 121. -- HOUSING CHARACTERISTICS, BY COUNTY: 1960 TO 1970

County	All housing units, 1960			% of occ. units with 1.01 or more persons per room, 1960	Percent of units vacant <sup>1</sup>		
	Median number of rooms	% in one-unit structures	% sound, with all plumbing facilities		Feb. 1967	Feb. 1969	Feb. 1970
The State ..	4.5	74.2	69.6	25.7	(NA)	(NA)	(NA)
Honolulu .....	4.4	67.7	76.1	27.1	1.9	1.2	1.7
Hawaii .....	4.7	94.0	48.2	22.2	2.5	(NA)	0.7
Kauai .....	4.6	92.7	49.6	18.4	3.4	1.0	1.9
Maui .....	4.8	97.2	49.8	21.4	0.8	(NA)	0.6

NA Not available.

1. Federal Housing Administration Postal Vacancy Surveys. The Oahu surveys included the entire island, but the Neighbor Island surveys were limited to selected urban areas: Hilo, Hawaii; Kapaa and Lihue, Kauai; and Kahului, Wailuku, and (for 1970 only) Lahaina, Maui. The 1969 Kauai survey was made in June.

Source: U. S. Bureau of the Census, U. S. Census of Housing: 1960, Final Report HC(1)-13; Federal Housing Administration, Honolulu Office, press releases.

Table 122. -- CONTROL OF HOUSING: 1950 TO 1969

Control	April 1, 1950	April 1, 1960	April 1, 1969, by county				
			The State	Hono- lulu	Hawaii	Kauai	Maui <sup>1</sup>
All units .....	120,606	165,506	219,906	172,307	21,339	9,796	16,464
Private <sup>2</sup> .....	108,899	148,850	199,394	152,969	20,797	9,582	16,046
Owner occ., fee .....	30,373	49,798	65,164	45,919	8,816	3,334	7,095
Owner occ., lease ...	1,502	6,247	18,585	18,236	213	70	66
Renter occ. or vac. <sup>2</sup> ...	77,024	92,805	115,645	88,814	11,768	6,178	8,885
Federal .....	7,231	12,115	14,236	14,195	20	4	17
Air Force .....	1,501	2,085	2,530	2,530	--	--	--
Army .....	1,289	2,922	3,565	3,553	12	--	--
Navy .....	4,441	7,089	7,938	7,938	--	--	--
Other .....	--	19	203	174	8	4	17
State .....	4,476	4,541	6,276	5,143	522	210	401
Public <sup>3</sup> .....	4,438	4,385	5,191	4,576	310	114	191
Other .....	38	156	1,085	567	212	96	210

1. Includes Kalawao County (Kalaupapa Settlement).

2. Data for 1950 and 1960 include approximately 500 teachers cottages operated by the counties.

3. Units operated by the Hawaii Housing Authority, exclusive of teachers cottages.

Source: State and Honolulu totals for 1969 estimated by Hawaii State Department of Planning and Economic Development. Other data from the Honolulu Redevelopment Agency, Redevelopment and Housing Research, No. 15 (May 1959), p. 51; No. 18 (October 1960), pp. 7 and 17; No. 29 (July 1969), pp. 5-6; and Supplemental Research Notes for January 1970, p. 8.

Table 123. -- CHARACTERISTICS OF HOUSING UNITS AND HOUSEHOLDS,  
BY TENURE, FOR OAHU: 1969

(For 12-month period ended August 31, 1969. Excludes units on military bases.)

Tenure	Percent of sample <sup>1</sup>	Households		Turnover rate <sup>3</sup> (percent)	Median rent or value (dollars)	
		Military (percent)	Median income <sup>2</sup>		All units	Turnover units <sup>3</sup>
All occ. units . . . .	100.0	17.0	9,400	29.4	...	...
Owner occupied . . . . .	59.5	7.6	11,300	...	...	...
Land owned . . . . .	37.0	5.4	...	9.5	34,400	37,500
Land leased . . . . .	22.5	11.1	...	26.7	31,800	31,000
Renter occupied . . . . .	39.4	31.1	7,500	50.5	147	162
Tenure not reported . . . . .	1.1	...	...	...	...	...

1. Based on sample of 800 households. Owner occupants appear to be greatly overrepresented.
  2. Annual family income before taxes, in dollars.
  3. Turnover based on units vacant at least once during preceding year.
- Source: Hawaii Newspaper Agency, Inc., unpublished tabulation of survey by Facts Consolidated.

Table 124. -- MEDIAN MONTHLY RENT AND RENT-INCOME RATIO, FOR OAHU: 1958 TO 1969

Survey date <sup>1</sup>	Median monthly rent (\$)	Rent as % of income (median)	Survey date <sup>1</sup>	Median monthly rent (\$)	Rent as % of income (median)
Jan. 1958 . . . . .	66	...	July 1965-March 1966 . . . .	105	19.5
Dec. 1958 . . . . .	70	16.9	Jan. - Dec. 1966 . . . . .	110	21.9
Dec. 1959 . . . . .	76	18.7	Jan.-Dec. 1968 . . . . .	140	22.9
Jan. 1961 . . . . .	81	17.9	Sept. 1968-Aug. 1969 . . . .	147	23.8
Oct. 1961 . . . . .	81	17.2			
Oct. 1962 . . . . .	86	17.8			

1. Housing on military bases included 1958-1962, excluded thereafter.
- Source: Sample surveys by Hawaii Newspaper Agency, Inc., reported in Honolulu Redevelopment Agency, Redevelopment and Housing Research, 1958-1970.



Table 125. -- AVERAGE VALUES FOR HOMES INSURED UNDER F.H.A. SECTION 203: 1963 TO 1968

Subject	Property value (dollars)	Market price of site		Improved floor area (square feet)	Lot size (square feet)	Dollars per square foot		
		Amount (dollars)	% of property value			Sales price	Site cost	Const. cost
New homes:								
1963 .....	24,019	8,842	36.8	1,080	(NA)	20.51	(NA)	(NA)
1967 .....	29,938	11,802	39.4	1,106	6,847	25.05	1.79	16.33
1968 .....	32,038	13,235	41.3	1,104	6,788	26.27	2.05	17.48
% increase	33.4	49.7	...	2.2	(NA)	28.1	(NA)	(NA)
Existing homes:								
1963 .....	23,732	8,768	36.9	1,135	(NA)	18.73	(NA)	...
1967 .....	29,817	12,532	42.0	1,091	7,854	24.17	1.81	...
1968 .....	31,647	12,768	40.3	1,126	8,350	24.76	1.73	...
% increase	33.4	45.6	...	-0.8	(NA)	32.2	(NA)	...

NA Not available.

Source: U.S. Department of Housing and Urban Development, F.H.A. Homes, Data for States and Selected Areas. On Characteristics of F.H.A. Homes under Section 203 (annual).

# 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 699 in 1967, and the value added by manufacture rose from \$11 million to \$58 million to \$327 million during the same period. Over 77 percent of all manufacturing activity in the State was on Oahu in 1967.

Food processing—mostly sugar and pineapple—accounted for 57 percent of the value added by manufacture in that year. Growth has been most rapid, however, in manufacturing outside of the sugar and pineapple industries. Between 1959 and 1969, the general excise and use tax base increased 73 percent for sugar processing, 18 percent for pineapple canning, and 116 percent for all other manufacturing.

Sources for data on this subject include the United States Census of Manufactures, most recently taken as of 1967, 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: 1969*.

Table 126. -- MANUFACTURING: 1899 TO 1967

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manu- facture, adjusted (\$1,000)	Capital expendi- tures, new (\$1,000)
	Total	With 20 employees or more	Total	Payroll (\$1,000)	Total	Man- hours (1,000)	Wages (\$1,000)		
1967....	699	215	25,400	139,600	19,000	35,900	86,900	326,800	26,000
1963....	672	203	25,144	109,007	18,722	33,210	67,471	261,147	15,375
1958....	618	179	23,896	82,249	17,823	31,930	51,802	164,861	17,181
1954....	520	137	24,381	77,130	19,524	36,114	50,806	140,275	11,693
1939....	474	(NA)	19,518	15,319	17,002	(NA)	11,458	58,354	(NA)
1919....	496	(NA)	11,744	8,666	9,969	(NA)	6,637	51,917	(NA)
1909....	500	(NA)	7,572	2,795	5,904	(NA)	2,109	21,586	(NA)
1899....	222	(NA)	4,418	2,038	3,655	(NA)	1,473	11,103	(NA)

NA Not available.

1. Data are only approximately comparable from year to year; see sources for discussion.

Source: U. S. Bureau of the Census, Census of Manufactures, 1963. Area Statistics: Hawaii, MC63(3)-12, table 2, and 1967 Census of Manufactures, Preliminary Report, Area Series: Hawaii, MC67(P)-S12, table 1.

Table 127. -- MANUFACTURING, BY INDUSTRY AND COUNTY: 1967

County and industry	Establishments		All employees		Production workers			Value added by manufac- ture (million dollars)	Capital expendi- tures, new (million dollars)
	Total	With 20 employees or more	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man- hours (million)	Wages (million dollars)		
The State .....	699	215	25.4	139.6	19.0	35.9	86.9	326.8	26.0
Counties:									
Hawaii .....	72	22	1.9	11.6	1.5	3.1	8.2	34.9	4.2
Honolulu .....	548	170	19.5	107.5	14.4	26.9	64.3	252.2	18.0
Kauai .....	28	11	1.3	6.7	1.0	2.0	4.7	20.8	1.5
Maui .....	51	12	2.7	13.7	2.1	3.9	9.7	18.9	2.2
Industries:									
Food, kindred products .....	217	79	14.2	71.5	11.1	21.0	47.3	186.0	17.8
Lumber, wood products .....	38	7	0.6	3.1	0.5	1.0	2.3	5.3	0.5
Printing, publishing .....	82	20	2.0	13.0	1.2	2.1	7.4	27.0	1.3
Stone, clay, glass product ..	43	14	1.1	8.3	0.8	1.6	5.4	18.4	1.8
Machinery, exc. electrical ..	27	7	0.5	2.9	0.4	0.8	2.3	5.5	0.3
Other industries .....	274	81	6.0	31.1	5.0	9.4	22.2	84.6	4.3
Administrative, auxiliary .....	18	7	1.0	9.7	--	--	--	--	--

Source: U. S. Bureau of the Census, 1967 Census of Manufactures. Preliminary Report Area Series: Hawaii, MC67(P)-S12, tables 2 and 3.

Table 128. -- GENERAL EXCISE AND USE TAX BASE FOR SUGAR PROCESSING,  
PINEAPPLE CANNING, AND MANUFACTURING: 1958 TO 1969

Year	Sugar processing (\$1,000)	Pineapple canning (\$1,000)	Manufacturing (\$1,000)
1958 .....	67,358	107,300	103,867
1959 .....	113,865	93,957	129,123
1960 .....	99,079	96,939	145,739
1961 .....	118,398	93,777	163,514
1962 .....	135,328	99,143	158,157
1963 .....	146,761	99,353	170,501
1964 .....	148,103	109,803	178,830
1965 .....	152,701	123,761	183,741
1966 .....	172,909	105,747	205,463
1967 .....	171,155	131,695	218,272
1968 .....	184,663	114,554	234,071
1969 .....	196,744	116,466	279,482

Source: Hawaii State Department of Taxation, annual releases.

Table 129. -- PINEAPPLE PRODUCTION: 1903 TO 1968-1969

Year <sup>1</sup>	Number of actual cases			Concentrated juice (equivalent 6/10 cases)
	Total	Fruit	Juice, except concentrated	
1903 .....	1,893	1,893	--	--
1910 .....	464,968	464,968	--	--
1920 .....	5,986,986	5,986,986	--	--
1930 .....	12,672,296	12,672,296	--	--
1940-1941 .....	21,755,716	10,947,414	10,808,302	--
1950-1951 .....	27,451,562	15,097,960	12,353,602	--
1960-1961 .....	30,035,864	18,461,912	11,573,952	723,619
1966-1967 .....	30,327,598	19,004,793	11,322,805	1,211,166
1967-1968 .....	28,035,755	17,241,338	10,794,417	679,735
1968-1969 .....	28,659,533	17,729,546	10,929,987	1,011,512

1. Calendar years to 1930, thereafter for fiscal or pack years ended May 31.

Source: Pineapple Growers Association of Hawaii, Pineapple Fact Book Hawaii 1969, p. 18, and records.

Table 130. -- SUGAR PRODUCTION: 1837 TO 1969

Year	Short tons, 96° raw value	Year	Short tons, 96° raw value	Year	Short tons, 96° raw value
1837 .....	2	1890 .....	129,899	1950 .....	960,961
1840 .....	180	1900 .....	289,544	1960 .....	935,744
1850 .....	375	1910 <sup>1</sup> .....	517,090	1966 .....	1,234,121
1860 .....	572	1920 <sup>1</sup> .....	555,727	1967 .....	1,191,042
1870 .....	9,392	1930 <sup>1</sup> .....	912,357	1968 .....	1,232,182
1880 .....	31,792	1940 .....	976,677	1969 .....	1,182,414

1. Crop years.

Source: U. S. Bureau of Labor Statistics, Labor in the Territory of Hawaii, 1939 (1940), p. 12, and Hawaiian Sugar Planters' Association, Facts About Sugar (May 1961), p. 3, and records.

## SECTION 22

# Distribution and Services

This section presents statistics relating to retail trade, wholesale trade, and selected services.

These activities have undergone rapid growth in recent decades. Retail sales increased from \$121 million in 1939 to \$522 million in 1958 and \$1.1 billion in 1967. Wholesale sales rose from \$97 million to \$1.0 billion in the same 28-year period. Hotels, amusements, and other services reported receipts of \$295 million in 1967, compared with \$101 million in 1958 and only \$15 million in 1939. General excise and use tax base data for more recent years indicate continued increases.

The major source for these data is the United States Census of Business, most recently conducted in 1967. Statistics on the retailing, wholesaling, and services tax base are available from the Hawaii State Department of Taxation. Data on hotel room counts and occupancy are given in the section on recreation and tourism. The *Statistical Abstract of the United States: 1969*, Section 29, presents similar data for the nation as a whole.

Table 131. -- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES,  
FOR HAWAII: 1939 TO 1967

(Coverage varies somewhat from year to year)

Year	Retail trade		Wholesale trade		Selected services <sup>1</sup>	
	Estab- lishments	Sales (\$1,000)	Estab- lishments	Sales (\$1,000)	Estab- lishments	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

1. Includes 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, Vol. III, V, and VII; U. S. Census of Business: 1958, Bulletins BC58-RA52, BC58-SA52, and BC58-WA52; U. S. Census of Business: 1967, Bulletins BC67-RA13, BC67-SA13, and BC67-WA13.



Table 132. -- RETAIL TRADE, BY GEOGRAPHIC AREA AND KIND OF BUSINESS, FOR HAWAII: 1967

Subject	Number of establishments	Sales (\$1,000)	Proprietors	Payroll, entire year (\$1,000)	Paid employees, March 12
Total <sup>1</sup> .....	5,212	1,083,458	4,408	147,608	41,347
GEOGRAPHIC AREA					
City and County of Honolulu .....	3,835	899,704	3,245	126,411	35,135
City of Honolulu .....	2,963	734,509	2,459	107,532	29,566
Kailua .....	153	33,780	119	4,150	1,141
Remainder of County .....	719	131,415	667	14,729	4,428
County of Hawaii .....	642	83,635	547	9,523	2,911
Hilo .....	362	58,975	279	7,251	2,201
Remainder of County .....	280	24,660	268	2,272	710
County of Kauai .....	320	32,487	265	5,098	1,388
County of Maui .....	413	57,595	349	6,576	1,913
KIND OF BUSINESS					
Building materials, hardware, farm equipment dealers .....	68	26,016	50	4,087	691
General merchandise stores .....	279	187,258	225	26,155	7,540
Food stores .....	852	254,536	793	20,388	5,756
Automotive dealers .....	159	153,597	93	16,300	2,688
Gasoline service stations.....	457	72,987	437	8,437	3,225
Apparel and accessory stores .....	403	67,321	230	10,433	2,930
Furniture, home furnishings, equipment stores .....	274	40,650	197	5,581	1,170
Eating and drinking places .....	1,255	143,860	1,104	39,613	13,396
Drug stores, proprietary stores .....	101	40,717	53	4,511	1,133
Miscellaneous retail stores .....	1,065	78,943	925	9,699	2,258
Nonstore retailers .....	299	17,573	301	2,404	560

1. Excludes commissaries, exchanges, and eating and drinking places operated for military personnel by the U. S. Department of Defense (sales, \$109,467,000).

Source: U. S. Bureau of the Census, Census of Business, 1967. Retail Trade: Hawaii, BC67-RA13.

Table 133. -- WHOLESALE TRADE, BY GEOGRAPHIC AREA, TYPE OF OPERATION,  
AND KIND OF BUSINESS, FOR HAWAII: 1967

Subject	Estab- lish- ments	Sales (\$1,000)	Payroll, entire year (\$1,000)	Paid em- ployees, March 12	Proprie- tors
Total .....	1,030	1,013,813	76,054	12,442	311
GEOGRAPHIC AREA					
City and Co. of Honolulu .....	849	912,333	67,698	10,742	267
City of Honolulu .....	802	891,432	66,673	10,545	243
Remainder of County .....	47	20,901	1,025	197	24
County of Hawaii .....	99	61,709	4,960	1,035	17
County of Kauai .....	29	14,821	1,504	284	11
County of Maui .....	53	24,950	1,892	381	16
TYPE OF OPERATION					
Merchant wholesalers .....	754	537,555	--	--	--
Manufacturers' sales branches .....	118	201,273	--	--	--
Merchandise agents, workers .....	82	144,500	--	--	--
Other operating types .....	76	130,485	--	--	--
KIND OF BUSINESS					
Motor vehicles, automotive equip. .	70	62,804	5,381	914	19
Groceries, related products.....	232	244,888	11,876	2,283	88
Electrical goods .....	62	84,760	6,494	1,031	12
Machinery, equip, supplies .....	159	86,835	13,439	2,004	41
Petroleum bulk terminals .....	43	118,063	2,374	335	3
Lumber and construction materials ..	34	57,366	4,841	839	9
Other products .....	430	359,097	31,649	5,036	139

Source: U. S. Bureau of the Census, Census of Business, 1967. Wholesale Trade: Hawaii, BC67-WA13.

Table 134. -- SELECTED SERVICES, BY GEOGRAPHIC AREA AND KIND OF BUSINESS,  
FOR HAWAII: 1967

Subject	Estab- lish- ments	Receipts (\$1,000)	Proprie- tors	Payroll entire year (\$1,000)	Paid em- ployees, March 12
Total .....	4,057	294,828	2,784	88,024	22,004
GEOGRAPHIC AREA					
City and Co. of Honolulu .....	3,208	236,858	2,141	71,587	17,362
City of Honolulu .....	2,454	218,623	1,530	67,124	16,125
Remainder of County .....	754	18,235	611	4,463	1,237
County of Hawaii .....	387	26,503	302	7,723	2,134
County of Kauai .....	184	13,850	130	3,822	1,039
County of Maui .....	278	17,617	211	4,892	1,469
KIND OF BUSINESS					
Hotels, motels, camps .....	212	113,216	105	32,744	8,509
Personal services .....	1,541	40,512	1,119	14,975	4,032
Miscellaneous business services ...	895	60,520	593	21,331	4,515
Automobile repair, services, garages .....	487	39,283	375	7,823	1,791
Miscellaneous repair services .....	384	9,731	298	2,380	440
Motion pictures .....	68	9,531	24	1,662	701
Amusement and recreation, except motion pictures .....	470	22,035	270	7,109	2,016

Source: U. S. Bureau of the Census, Census of Business, 1967. Selected Services: Hawaii, BC67-SA13.

Table 135. -- GENERAL EXCISE AND USE TAX BASE FOR RETAILING, WHOLESALING,  
AND SERVICES: 1958 TO 1969

Year	Retailing (\$1,000)	Wholesaling (\$1,000)	Services (\$1,000)
1958 .....	664,973	282,734	135,730
1959 .....	756,003	320,194	165,402
1960 .....	846,729	354,598	188,752
1961 .....	859,563	359,725	203,354
1962 .....	920,956	386,135	228,420
1963 .....	928,895	396,462	231,777
1964 .....	998,510	435,707	240,909
1965 .....	1,097,826	482,563	260,693
1966 .....	1,184,736	547,031	276,833
1967 .....	1,271,932	570,678	305,691
1968 .....	1,423,835	651,512	358,852
1969 .....	1,670,287	747,204	451,814

Source: Hawaii State Department of Taxation, annual releases.

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