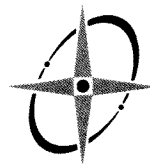


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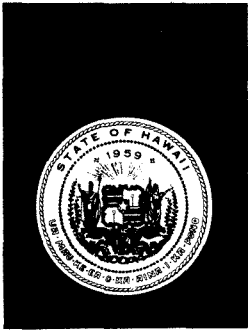
THE STATE OF HAWAII
DATA BOOK
A STATISTICAL ABSTRACT



Hawaii

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

Honolulu, Hawaii 1971



**STATE OF
HAWAII**

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

P. O. BOX 2359 • HONOLULU, HAWAII 96804

May, 1971

JOHN A. BURNS
Governor

SHELLEY M. MARK
Director

EDWARD J. GREANEY, JR.
Deputy Director

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

The present volume, containing statistics available in early 1971, is the fifth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968 and 1970. The 1968 edition is the only earlier edition still 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 series for the nation and other jurisdictions.

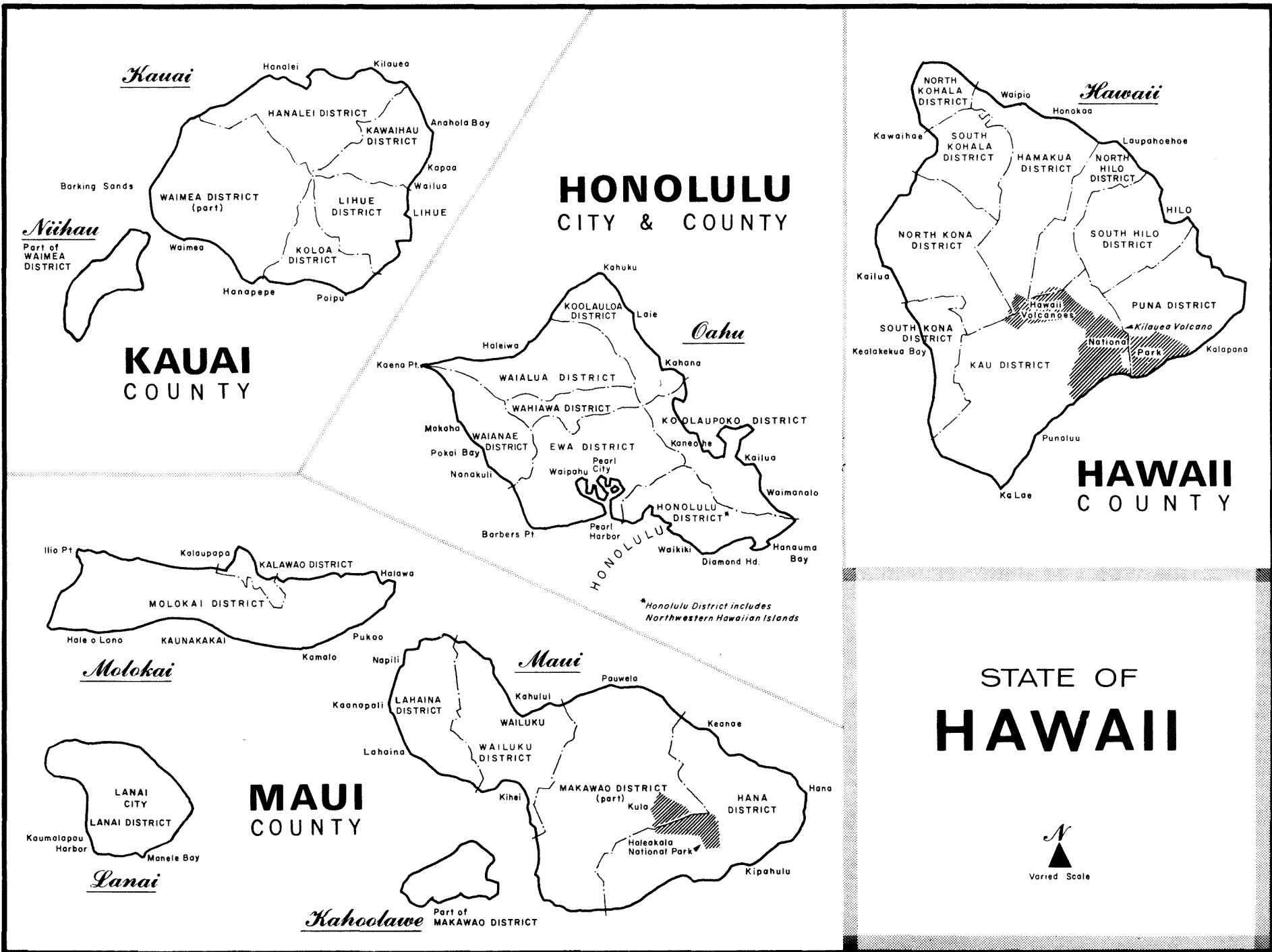
Emphasis in the *Data Book* is given to the most recent available State data. Historical statistics and information for counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each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

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

Shelley M. Mark

CONTENTS

Section		Page
1	Population	5
2	Vital statistics and health	16
3	Education	25
4	Law enforcement, courts, and corrections	31
5	Elections	38
6	Area, geography, environment, and climate	43
7	Land use and ownership	51
8	Income, expenditures, and wealth	56
9	Prices	63
10	Labor force and earnings	68
11	Recreation and tourism	76
12	Armed forces	86
13	Government finances and employment	91
14	Welfare services	101
15	Banking, insurance, and business enterprise	105
16	Communications, power, and science	112
17	Transportation	117
18	Agriculture	125
19	Forests, fisheries, and mining	130
20	Construction and housing	134
21	Manufactures	141
22	Distribution and services	146
	Index	153



Kauai

Hanalei Kilauea

HANALEI DISTRICT

KAWAIHAU DISTRICT

Anahola Bay

Kapaa

WAIMEA DISTRICT (part)

LIHUE DISTRICT

Wailua

LIHUE

Niihau

Part of WAIMEA DISTRICT

Waimea

Hanapepe

Poipu

KAUAI COUNTY

HONOLULU CITY & COUNTY

Kahuku

KOOLAULOA DISTRICT

Laie

Oahu

Haleiwa

Kaena Pt.

Kahana

WAIALUA DISTRICT

WAHIAWA DISTRICT

KOOLAUPOKO DISTRICT

Makaha

WAIANAE DISTRICT

EWA DISTRICT

Kaneohe

Pokai Bay

Nanaku

Waipahu

Pearl City

Kailua

Waimanalo

HONOLULU DISTRICT*

Barbers Pt.

HONOLULU

Waikiki

Diamond Hd.

Hanauma Bay

Ilio Pt.

Kalaupapa

KALAWAO DISTRICT

Halawa

MOLOKAI DISTRICT

Hale o Lono

KAUNAKAKAI

Pukoo

Kamalo

Napili

Maui

Pauwela

Kaanopali

Lahaina

WAILUKU DISTRICT

WAILUKU

Keano

LANAI CITY
LANAI DISTRICT
Kaunaloa Harbor
Manele Bay

Lanai

MAUI COUNTY

MAKAWAO DISTRICT (part)

HANA DISTRICT

Hana

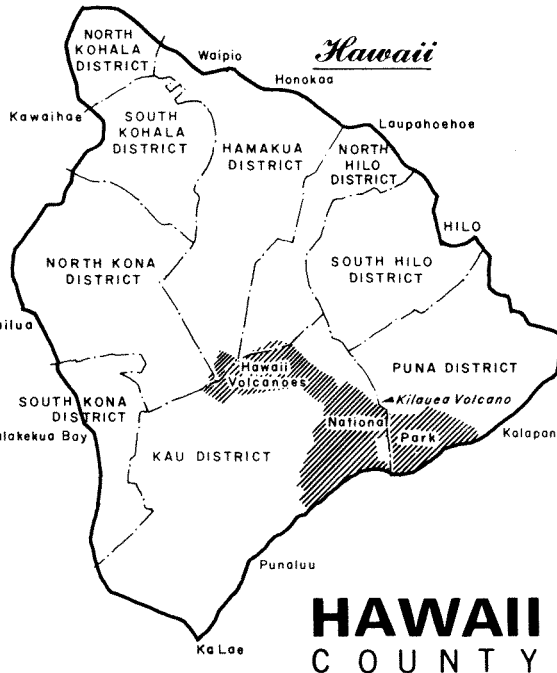
Kula

Haleakala National Park

Kipahulu

Kahoolawe

Part of MAKAWAO DISTRICT



HAWAII COUNTY

STATE OF

HAWAII



Varied Scale

SECTION 1

POPULATION

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

Final results of the 1970 United States Census indicated a population of 769,913. This total included approximately 56,000 members of the armed forces and 62,000 of their dependents.

The census count 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—50 percent were under 25 years of age in 1970—and racially diversified, over one-fourth of the total being the product of mixed marriages. Migration has been a major factor in the growth of the population: between 1960 and 1970, approximately 170,000 persons (excluding military personnel and their dependents) moved to the State, while 118,000 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 advance 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: 1970*.

Table 1.—POPULATION OF THE STATE OF HAWAII, ISLAND OF OAHU, AND CITY OF HONOLULU: 1778 TO 1970

Estimate or census date ¹	State of Hawaii	Island of Oahu	City of Honolulu ²	Estimate or census date ¹	State of Hawaii	Island of Oahu ³	City of Honolulu ²
1778-1779 ⁴	300,000	60,000	—	1890: Dec. 28	89,990	31,194	22,907
1823	142,050	20,000	—	1896: Sept. 27	109,020	40,205	29,920
1831-1832	130,313	29,755	13,344	1900: June 1	154,001	58,504	39,306
1835-1836	108,579	27,809	12,994	1910: April 15	191,874	81,993	52,183
1850: January	84,165	25,440	14,484	1920: Jan. 1	255,881	123,496	81,820
1853: Dec. 26	73,138	19,126	11,455	1930: April 1	368,300	202,887	137,582
1860: Dec. 24	69,800	21,275	14,310	1940: April 1	422,770	257,696	179,358
1866: Dec. 7	62,959	19,799	13,521	1950: April 1	499,794	353,020	248,034
1872: Dec. 27	56,897	20,671	14,852	1960: April 1	632,772	500,409	294,194
1878: Dec. 27	57,985	20,236	14,114	1970: April 1	769,913	630,528	324,871
1884: Dec. 27	80,578	28,068	20,487				

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

²Same as Honolulu District, that is, the area from Maunalua to Moanalua, inclusive, plus minor outlying islands legally part of the City and District.

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

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

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 19, 42, 70, and 116; U.S. Bureau of the Census, *1970 Census of Population, PC(V1)-13*, as corrected.

Table 2.—INTERCENSAL POPULATION ESTIMATES: 1940 TO 1970

Date ¹	Resident population		Date ¹	Resident population	
	Total	Civilian ²		Total	Civilian ²
1940: April 1	423,330	395,122	1950: April 1 ³	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 ³	499,794	476,944	1960: April 1	632,722	578,884

Date ¹	Resident population			De facto population ⁴	Visitors present ⁵	Residents absent
	Total	Armed forces ⁶	Civilian ²			
1960: April 1	632,722	53,888	578,884	636,974	7,912	3,710
July 1	648,525	59,183	589,342	662,318	20,969	7,176
1961	658,364	56,348	602,016	672,053	21,611	7,922
1962	666,692	59,702	606,990	679,600	22,050	9,142
1963	668,960	57,093	611,867	683,948	22,738	7,750
1964	678,946	59,840	619,106	692,996	25,153	11,103
1965	687,383	56,113	631,270	700,770	26,491	13,104
1966	695,215	49,737	645,478	713,380	31,856	13,691
1967	710,145	51,002	659,143	734,386	40,004	15,763
1968	724,530	48,613	675,917	756,661	48,704	16,573
1969	754,727	56,282	698,445	789,189	53,733	19,271
1970: April 1	769,913	56,085	713,828	781,963	22,970	10,920

¹July 1 unless otherwise specified.

²Includes military dependents (61,858 on April 1, 1970).

³April 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.

⁴Includes visitors present but excludes residents temporarily absent.

⁵Includes armed forces on Rest and Recuperation leave.

⁶Excludes armed forces on Rest and Recuperation leave in Hawaii. De facto basis for 1960 and resident basis thereafter.

Source: Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1970 (Final Report)*, Statistical Report 77 (November 19, 1970), p. 9, as corrected.

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 ¹		
	1850	1900	1940	1950	1960	1970	Number	Per square mile	
The State	84,165	154,001	422,770	499,794	632,772	769,913	781,963	121.7	
City & County of Honolulu ²	25,440	58,504	257,696	353,020	500,409	630,528	637,460	1,070.1	
City of Honolulu ²	14,484	39,306	179,358	248,034	294,194	324,871	333,880	3,993.8	
Rest of County	10,956	19,198	78,338	104,986	206,215	305,657	303,580	596.3	
Other Counties	58,725	95,497	165,074	146,774	132,363	139,385	144,503	24.8	
Hawaii County	25,864	46,843	73,276	68,350	61,332	63,468	65,336	16.2	
City of Hilo	(NA)	(NA)	23,353	27,198	25,966	26,353	27,072	482.6	
Rest of County	(NA)	(NA)	49,923	41,152	35,366	37,115	38,264	9.6	
Kauai County	7,670	20,734	35,818	29,905	28,176	29,761	31,420	50.8	
Island of Kauai	6,956	20,562	35,636	29,683	27,922	29,524	31,183	56.8	
Island of Niihau	714	172	182	222	254	237	237	3.4	
Maui County ³	25,191	27,920	55,980	48,519	42,855	46,156	47,747	40.7	
Island of Kahoolawe	—	—	1	—	—	—	—	—	
Island of Lanai	604	} 25,416	{ 3,720	3,136	2,115	2,204	2,200	15.8	
Island of Maui	21,047			46,919	40,103	35,717	38,691	40,264	55.3
Island of Molokai ³	3,540			2,504	5,340	5,280	5,023	5,261	20.2

NA Not available.

¹Includes visitors present; excludes residents temporarily absent.

²Includes the Northwestern Hawaiian Islands (42 in 1970—19 on French Frigate Shoals and 23 on Kure Atoll).

³Includes Kalawao County, which is coterminous with Kalaupapa Settlement (172 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 (Revised Final Report)* (Statistical Report 79 (January 8, 1971), pp. 2-3.

Table 4—LAND AREA, 1970, AND POPULATION, 1960 AND 1970, OF URBAN PLACES

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

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

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

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

Source: Hawaii State Department of Planning and Economic Development, *Statistical Boundaries of Cities, Towns and Villages as Approved Through June 30, 1970* (Report SB-A5, August 12, 1970); U.S. Bureau of the Census, *1970 Census of Population*, PC(V1)-13, as corrected by letter dated December 16, 1970.

Table 5—CHARACTERISTICS OF THE POPULATION: 1970

Subject	The State	City & County of Honolulu	Other counties		
			Hawaii	Kauai	Maui
Total	768,561	629,176	63,468	29,761	46,156
Age:¹					
Under 5 years	70,811	58,701	5,446	2,629	4,035
5 to 17 years	203,818	165,156	17,656	8,311	12,695
18 to 24 years	109,228	96,972	5,810	2,317	4,129
25 to 44 years	202,621	171,021	14,380	6,835	10,385
45 to 64 years	137,967	105,941	14,338	6,945	10,473
65 years and over	44,116	31,385	5,838	2,724	4,169
Sex:²					
Male	399,205	327,041	32,898	15,556	23,710
Female	369,356	302,135	30,570	14,205	22,446
Race:³					
White	298,160	259,519	18,298	7,733	12,610
Negro	7,573	7,388	114	41	30
Other	462,828	362,269	45,056	21,987	33,516
Households	203,088	164,763	17,260	8,282	12,783
Families	170,358	138,277	14,533	6,902	10,646

¹The State median was 24.3 years in 1960 and 25.0 years in 1970.

²The State sex ratio was 114.8 males per 100 females in 1960 and 108.1 in 1970.

³Most persons of mixed race were classified by race of father. In 1969, 46.7 percent of the babies born in Hawaii were of mixed race.

Source: *U.S. Census of Population: 1970, PC(V2)-13.*

Table 6.—ETHNIC STOCK FOR OAHU, 1964-1967, AND THE NEIGHBOR ISLANDS, 1967

Ethnic stock	Oahu, 1964-1967 ¹		Neighbor islands, 1967	
	Number	Percent	Number	Percent
All groups ²	522,160	100.0	130,000	100.0
Caucasian	146,180	28.0	20,200	15.5
Portuguese	13,120	2.5	8,600	6.6
Other Caucasian	133,060	25.5	11,600	8.9
Chinese	32,880	6.3	2,000	1.5
Filipino	34,900	6.7	18,700	14.4
Hawaiian & part Hawaiian	98,680	18.9	27,500	21.2
Hawaiian	4,840	0.9	2,700	2.1
Part Hawaiian	93,840	18.0	24,800	19.1
Japanese	150,580	28.8	47,000	36.7
Puerto Rican	3,340	0.6	1,400	1.1
Samoan	2,420	0.5	—	—
Mixed, exc. part Haw'n	43,860	8.4	9,400	7.2
Other groups ³	8,460	1.6	500	0.4
Not reported	860	0.2	2,600	2.0

¹Excludes approximately 25,000 persons in military barracks (22,000 Caucasian and 3,000 non-Caucasian) and 4,000 inmates of institutions (1,000 Caucasian and 3,000 non-Caucasian).

²Revised to take account of 1970 census results.

³Korean, Negro, Micronesian and other unspecified races.

Source: Hawaii State Department of Planning and Economic Development, Statistical Report 77 (November 19, 1970), p. 12, as revised.

**Table 7.—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 ¹	
	Total	Born elsewhere			Total	Living elsewhere
		U.S. ²	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

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

²Includes 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 8.—ALIEN ADDRESS CARDS RECEIVED FROM PERSONS RESIDING IN HAWAII, BY NATIONALITY: 1940 TO 1971

Year	Total	Philippines	Japan and Ryukyu Is.	China and Taiwan	Korea	All others ¹
1940	91,447	38,340	38,223	4,981	2,491	7,412
1951	66,181	(NA)	(NA)	(NA)	(NA)	(NA)
1960	51,316	(NA)	18,832	(NA)	(NA)	(NA)
1965	46,352	20,449	18,047	1,383	880	5,593
1966	45,794	19,678	17,780	1,368	893	6,075
1967	46,998	21,315	16,975	1,499	914	6,295
1968	47,882	22,159	16,388	1,640	944	6,751
1969	49,642	23,410	15,850	1,750	1,005	7,627
1970	53,003	26,311	15,351	2,213	1,138	7,990
1971	57,187	29,116	15,099	2,167	1,483	9,322

NA Not available.

¹Includes Canada (1,641 in 1971), United Kingdom (1,949), Germany (757), and others (4,975).

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

Table 9.—MEMBERSHIP IN SPECIFIED RELIGIOUS GROUPS: 1970

Group	Membership ¹
All specified groups	403,715-453,715
Buddhist ²	100,000-150,000
Roman Catholic	210,000
Other specified groups	93,715
American Baptist	750
Assembly of God	2,000
Christ Presbyterian	200
Episcopal	18,000
First Presbyterian	800
Jewish	215
Lutheran	3,000
Methodist	6,800
Mormon (Latter Day Saints)	27,600
Salvation Army	3,900
Seventh Day Adventist	2,600
Southern Baptist	9,600
Unitarian	250
United Church of Christ	18,000

¹Based on definitions of individual groups and hence not directly comparable from group to group.

²Includes approximately 10,000 Shinshu families.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from church officials in August 1970.

Table 10.—COMPONENTS OF CHANGE IN THE RESIDENT POPULATION: 1960 TO 1970

(Preliminary)

Component of population change	Total resident population	Armed forces ¹	Civilians	
			Military dependents	Other civilians
Net increase	135,789	3,204	1,801	130,784
Live births	163,137	-	45,183	117,954
Deaths	36,977	710	1,557	34,710
Net migration ¹	+9,629	-629	-41,825	+52,083
Change in military status ²	—	+4,543	(NA)	-4,543

NA Not available.

¹Among 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 117, 805.

²Based 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 (Final Report)* (Statistical Report 77, November 19, 1970), p. 11.

**Table 11.—INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND OR ABROAD:
1950 TO 1970**

Year ended June 30—	All intended residents	Migrants from the Mainland United States ¹					Immigrants from abroad ²	
		Total	Military personnel	Military dependents	Other civilians	Not reported	Total	From Philippines
1950	—	—	—	—	—	—	179	—
1951	—	—	—	—	—	—	294	—
1952	6,833	6,131	—	—	—	—	702	—
1953	7,589	6,976	—	—	—	—	613	—
1954	6,549	5,728	—	—	—	—	821	—
1955	7,451	6,500	—	—	—	—	951	—
1956	11,047	9,960	—	—	—	—	1,087	—
1957	14,908	13,524	—	—	—	—	1,384	—
1958	19,547	18,140	—	—	—	—	1,407	—
1959	17,492	15,876	—	—	—	—	1,616	—
1960	19,589	17,970	—	—	—	—	1,619	—
1961	15,837	14,075	1,610	1,635	10,145	685	1,762	530
1962	21,503	19,455	3,145	4,965	10,490	855	2,048	776
1963	22,222	20,455	3,110	5,470	10,845	1,030	1,767	569
1964	23,773	22,150	3,745	5,405	12,145	855	1,623	455
1965	25,961	24,240	5,355	5,900	12,320	665	1,721	447
1966	26,985	23,915	3,580	1,655	11,070	610	3,070	1,352
1967	37,385	33,560	10,235	6,505	15,520	1,300	3,825	2,147
1968	42,188	37,495	11,475	6,570	18,320	1,130	4,693	3,033
1969	42,049	36,850	10,785	6,540	18,150	1,375	5,199	3,181
1970	39,309	33,810	7,740	6,540	17,880	1,650	5,499	4,053

¹Intended residents arriving by civilian carriers from Mainland States. Includes a few aliens. Totals not available before October 1950; military status, before April 1960.

²Immigrants admitted to the United States, reporting Hawaii as their place of intended future residence. Nationality not available before July 1960.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's In-Migrants* (Annual report); U.S. Immigration and Naturalization Service, *Annual Report*, and records.

SECTION 2

VITAL STATISTICS AND HEALTH

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

Vital indices generally reflect the high health standards of Hawaii. Expectation of life at birth was 71.55 years in 1959-1961, seventh highest of the fifty states and almost twice the 1884-1885 average of 36.5 years. The provisional crude death rate in 1970 was only 5.8, half the 1930 level and four-fifths below mortality rates at the turn of the century.

Deaths under one-year of age per 1,000 live births dropped from 205 in 1910 to less than 20 after 1965. The provisional 1970 crude birth rate was 23.1. 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 10,562 in 1970, with about a third accounted for by nonresidents. Divorces reached a 1970 total of 2,589.

The State had 31 hospitals (with 5,035 beds) and 150 nursing and care homes (with 1,959 beds) when most recently surveyed. Average length of stay in the largest of the hospitals was 7.9 days in 1970, 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: 1970* contains similar data for the nation as a whole.

Table 12.—BIRTHS, DEATHS, MARRIAGES, AND DIVORCES: 1849 TO 1970
(Place of occurrence basis. Not adjusted for underreporting, known to have been significant before 1920)

Year ¹	Live births	Deaths ²	Rate per 1,000 pop. ³		Infant death rate ⁴	Marriages	Divorces and annulments
			Birth	Death ²			
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	29.2	6.0	23.2	5,237	1,270
1961	17,558	3,367	29.2	5.6	21.7	5,298	1,556
1962	17,932	3,512	29.5	5.8	20.6	5,484	1,471
1963	17,744	3,643	29.0	6.0	22.5	5,750	1,515
1964	17,284	3,638	27.9	5.9	19.8	5,790	1,690
1965	16,259	3,705	25.8	5.9	21.5	6,071	1,111
1966	14,943	3,770	23.2	5.8	18.9	5,792	897
1967	14,765	3,897	22.4	5.9	16.9	7,345	1,451
1968	14,595	4,192	21.6	6.2	19.0	9,021	1,865
1969	15,755	4,146	22.6	5.9	19.2	9,891	2,314
1970	16,463	4,132	23.1	5.8	19.0	10,562	2,589
Year ¹	Percent of births			Percent of deaths 65 and over ⁵	Resident grooms		Percent of marriages interracial
	In hospitals	Father in armed forces	Illegitimate		Number	Percent	
1920	(NA)	(NA)	(NA)	8.5	(NA)	(NA)	18.0
1930	34.2	(NA)	2.66	16.0	(NA)	(NA)	21.3
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	99.5	25.9	9.45	51.6	6,709	67.8	33.7
1970	(NA)	23.7	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹Divorce 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, illegitimate births, 1930-1940, and hospital births and interracial marriages, 1940, are for years ended June 30. Hospital birth percentage for 1930 refers to year ended June 30, 1934. Interracial marriage percentage for 1920 refers to four-year period ended June 30, 1924; for 1930, to two-year period ended June 30, 1930. All other data are for calendar years.

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

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

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

⁵Includes armed forces through 1961 but excludes them thereafter.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 165-167, 171, and 210-212; Hawaii State Department of Health, annual statistical reports for 1930-1969, and records.

Table 13.—POPULATION, BIRTHS, AND DEATHS, BY MILITARY STATUS: 1969 AND 1970
(Data for 1970 are preliminary)

Year and military status	Population, July 1	Live births		Deaths	
		Number	Rate per 1,000	Number	Rate per 1,000
1969, total	754,727	15,755	20.9	4,214	5.6
Armed forces	56,282	—	0	68	1.2
Civilians	698,445	15,755	22.6	4,146	5.9
Military dependents	59,697	4,082	68.4	149	2.5
Other civilians	638,748	11,673	18.3	3,997	6.3
1970, total	766,848	16,463	21.5	4,205	5.5
Armed forces	53,768	—	0	73	1.4
Civilians	713,080	16,463	23.1	4,132	5.8
Military dependents	57,781	3,906	67.6	144	2.5
Other civilians	655,299	12,557	19.2	3,988	6.1

Source: Population, 1969, from DPED, Statistical Reports 76 (p.3) and 77 (p.9); 1970, from linear extrapolation of intercensal trend for civilians other than military dependents, plus number of military personnel and dependents reported in DPED, Statistical Report 76, p. 3. Births and deaths from Hawaii State Department of Health, *Annual Report, Statistical Supplement, 1969*, pp. 3 and 24, and records. (Deaths of military dependents were based on a crude rate of 2.5, as estimated from 1960 data on the age distribution of military dependents and age-specific death rates for the total population.)

**Table 14.—AVERAGE REMAINING LIFETIME IN YEARS AT SPECIFIED AGES, BY SEX:
1884-1885 TO 1959-1961**

Period	Years remaining at birth		Age	Years remaining, 1959-1961			
	Male	Female		White		Nonwhite	
				Male	Female	Male	Female
1884-1885 ¹ ...	36.5		Birth	66.95	72.37	70.69	74.81
1919-1920	47.79	47.27	1	67.55	72.84	71.62	75.31
1929-1931	52.63	55.31	15	53.95	59.22	58.18	61.82
1939-1941	59.46	62.60	25	44.48	49.50	48.88	52.12
1949-1951	67.76	71.29	45	25.81	30.58	30.34	33.28
1959-1961	71.55		65	12.00	14.95	14.73	16.92

¹City 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 15.—CIVILIAN DEATHS, BY CAUSE: 1929, 1959, AND 1969

Cause of death ¹	Number, 1969	Percent distribution			Rate per 100,000 population		
		1969	1959	1929	1969	1959	1929
All causes	4,146	100.0	100.0	100.0	598.8	581.0	1,225.5
Diseases of the heart	1,372	33.1	32.3	9.9	198.2	187.6	121.3
Malignant neoplasms	765	18.5	17.3	5.4	110.5	100.8	66.3
Cerebrovascular diseases	359	8.7	7.8	4.4	51.9	45.5	54.0
All accidents	245	5.9	5.7	6.3	35.4	33.2	76.6
Pneumonia	200	4.8	3.1	11.6	28.9	17.7	141.8
Diseases of early infancy	169	4.1	7.6	6.0	24.4	43.9	73.0
Diabetes mellitus	123	3.0	2.5	1.0	17.8	14.6	12.6
Congenital anomalies	83	2.0	2.2	1.2	12.0	12.7	14.3
Suicide	76	1.8	1.7	1.8	11.0	9.8	21.5
Cirrhosis of liver	63	1.5	1.3	0.6	9.1	7.8	7.8
Emphysema	44	1.1	(NA)	(NA)	6.4	(NA)	(NA)
Homicide	35	0.8	0.6	0.4	5.1	3.4	4.5
Nephritis and nephrosis	34	0.8	1.6	5.4	4.9	9.1	66.0
Infections of kidney	31	0.7	(NA)	(NA)	4.5	(NA)	(NA)
Peptic ulcer	29	0.7	0.7	0.9	4.2	4.1	11.2
All other causes	518	12.5	15.6	45.3	74.8	90.6	554.7

NA Not available.

¹The fifteen leading causes of death in 1969, listed in order of deaths for that year.

Source: Hawaii State Department of Health, records.

Table 16.—FETAL AND INFANT DEATHS: 1967 TO 1970

(Place of occurrence basis. Not adjusted for underreporting of fetal deaths, known to have been significant in past years.)

Subject	1967	1968	1969	1970 ¹
Total deliveries	15,772	15,709	16,986	20,684
Live births	14,765	14,595	15,755	16,463
Fetal deaths	1,007	1,114	1,231	4,221
Gestation period of fetal deaths:				
Under 20 weeks	801	795	959	(NA)
20 weeks and over	202	209	215	(NA)
Not stated	4	110	57	(NA)
Class of fetal death:				
Intentional termination of pregnancy ²	12	11	19	2,779
Spontaneous or not reported	995	1,103	1,212	1,442
Infant deaths (under 1 year)				
Under 1 day	132	149	164	(NA)
1 to 27 days	66	62	75	(NA)
28 days to 11 months	52	66	63	(NA)

NA Not available.

¹Preliminary.

²Includes therapeutic abortions (26 in 1970), self-induced or criminal abortions (1 in 1970), and elective abortions consistent with Act 1, Session Laws of 1970, effective March 11, 1970 (2,752 in 1970).

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1967 (pp. 5, 49, 57), 1968 (pp. 3, 32, 34), and 1969 (pp. 3, 32, 34), and records.

**Table 17.—ACCIDENTS AND NATURAL DISASTERS CAUSING FIVE OR MORE DEATHS:
1779 TO 1969**

Kind of disaster	Worst disaster		All disasters	
	Year	Deaths	Number	Deaths
All categories	1941	2,500	115	5,635
Natural disasters	1790	400	11	755
Tsunami	1946	159	5	287
Flood, wind, or earth movement	1868	31	5	68
Volcano	1790	400	1	400
Fire or explosion	1944	163	6	219
Transportation	1830	250	91	1,989
Marine	1830	250	49	1,475
Air	1955	66	37	485
Railroad or motor vehicle	1944, 1969	7	5	29
Violence	1941	2,500	7	2,672
Pearl Harbor attack	1941	2,500	1	2,500
Assault, murder, or riot	1790	100+	6	172

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

**Table 18.—AVERAGE LENGTH OF STAY AND COST PER PATIENT DAY AT THE QUEEN'S HOSPITAL:
1859 TO 1970**

Year ¹	Average stay (days)	Cost per patient day (dollars)	Year	Average stay (days)	Cost per patient day (dollars)
1859-1861	42	0.83	1960	6.5	37.90
1877-1879	59	0.61	1966	7.5	61.85
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
1950	7.3	21.16	1970	7.9	82.04

¹August 1, 1859-June 20, 1861; 24-month period ended in mid-1879; calendar years 1903-1940; fiscal years ended June 30, 1950-1970.

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

Table 19.—HOSPITALS AND NURSING AND CARE HOMES, BY ISLAND: 1969

Category and island	Number of estab.	Beds		Bassinets	Percent of occupancy	Average patient occupancy	Patients admitted
		In place ¹	Acceptable				
HOSPITALS							
All islands	31	5,035	2,632	333	79.1	3,951	83,635
Hawaii	5	524	355	49	73.3	384	8,168
Maui	3	305	181	32	77.1	236	5,434
Lanai	1	14	14	6	13.3	2	158
Molokai	2	297	28	4	51.7	151	993
Oahu	17	3,646	1,886	228	81.6	2,968	64,118
Kauai	3	249	168	14	84.5	210	4,764
NURSING AND CARE HOMES							
All islands	150	1,959	1,840	—	102.6	2,010	2,050
Hawaii	6	32	32	—	96.2	31	19
Maui	6	141	141	—	91.7	129	128
Oahu	122	1,730	1,611	—	103.9	1,798	1,872
Kauai	16	56	56	—	93.4	52	31

¹The hospital total of 5,035 beds includes 1,866 general beds, 107 maternity-gynecological, 136 pediatric, 190 tuberculoses, 1,659 mental, 423 leprosy, 560 long-term, 58 orthopedic, and 36 rehabilitation. Data include residential cottages for leprosy and mental patients.

Source: *Annual Report, Department of Health, State of Hawaii, Statistical Supplement, 1969*, pp. 116-118.

Table 20.—AVERAGE DAILY RESIDENT POPULATION AND TOTAL ADMISSIONS, FOR OAHU INSANE ASYLUM, 1868-1870 TO 1920, AND HAWAII STATE HOSPITAL, 1930 TO 1969

Year ¹	Resident population, end of period	Total admissions ann. ave.	Year ¹	Average daily resident population	Total admissions
1868-1870	32	20	1930 ²	560	236
1878-1880	31	22	1940	901	289
1888-1890	70	28	1950	1,088	509
1898-1899	136	54	1960	1,173	555
1910	246	94	1968	622	536
1920	378	108	1969	584	791

¹Twenty-four month periods ended March 31, 1870 to 1890, and December 31, 1899; twelve-month periods ended June 30, 1910 forward.

²On January 6, 1930, the 541 patients of Oahu Insane Asylum (opened on School Street, Honolulu, in September 1866) were transferred to the new Territorial Hospital in Kaneohe.

Source: *Report of the Board of Health . . . 1870*, pp. 16-17; *Biennial Report of the Minister of the Interior* for 1880 (pp. 58-59) and 1890 (pp. 13-14); *Report of the President of the Board of Health* for 1899 (p. 34), 1901 (pp. 27-28), 1910 (p. 121) 1920 (p. 40), and 1930 (pp. 393, 397); *Annual Report, Department of Institutions* for 1940 (p. 17) and 1950 (p.26); *Annual Report, Department of Health, Statistical Supplement* for 1960 (p. 83), 1968 (p. 120), and 1969 (p. 119).

Table 21.—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
June 1969:							
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
March 1969:							
Pharmacists	205	11	10	—	1	179	4

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

**Table 22.—STATISTICS FROM THE HAWAII HEALTH SURVEILLANCE PROGRAM SURVEY,
FOR OAHU: 1964-1967**

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

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

²Surveyed April 1964-September 1965.

Source: Hawaii State Department of Health, unpublished tabulations.

SECTION 3

EDUCATION

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

Enrollment, in elementary, intermediate and high schools in 1969-1970 totalled 211,215, or almost double the 1940 figure. There were 216 public schools with 7,300 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: 1970* presents comparable data for the nation as a whole.

Table 23—PUBLIC AND PRIVATE SCHOOL ENROLLMENT, TEACHERS, AND GRADUATES: 1832 TO 1971

Year	School enrollment or membership ¹		Teachers ¹		High school graduates ²		
	Total	Public	Private	Public	Private	Public	Private
1832	23,123	23,123		(NA)		(NA)	
1847	19,644	19,644		625		(NA)	
1859 ³	9,782	8,628	1,154	290	(NA)	(NA)	
1870 ³	7,927	5,938	1,989	(NA)	(NA)	(NA)	
1880	7,164	5,373	1,791	(NA)	(NA)	(NA)	
1890	10,006	7,343	2,663	232	136	(NA)	
1900	15,537	11,501	4,036	352	207	6	(NA)
1910	25,770	20,245	5,525	501	276	26	(NA)
1920	48,923	41,350	7,573	1,312	402	164	(NA)
1930	88,577	76,634	11,943	2,657	594	1,288	502
1940	112,260	92,424	19,836	3,394	833	4,264	873
1949-50	114,986	90,786	24,200	3,122	878	5,585	1,072
1959-60	169,925	140,666	29,259	4,731	1,297	6,288	1,611
1960-61	175,172	145,134	30,038	4,850	1,151	7,267	1,731
1961-62	180,006	149,554	30,452	5,013	1,213	7,797	1,785
1962-63	184,231	153,298	30,933	5,179	1,227	7,763	1,748
1963-64	187,825	156,651	31,174	5,173	1,205	8,327	1,866
1964-65	193,047	160,681	32,366	5,368	1,481	9,239	1,976
1965-66	194,595	162,164	32,431	5,846	1,477	9,009	2,048
1966-67	200,242	166,375	33,867	6,394	1,492	9,540	2,175
1967-68	203,734	169,673	34,061	6,624	1,594	9,430	2,133
1968-69	207,231	173,718	33,513	7,098	1,547	9,800	2,173
1969-70	211,215	178,564	32,651	7,300	1,551	10,407	2,209
1970-71	213,165	180,770	32,395	7,948	1,698	—	—

NA Not available.

¹Month unspecified for 1832-1859; January 1, 1870 to 1890; December 31, 1900 to 1940; December data for school years 1949-1950 forward.

²Data for 1900-1930 are for twelfth grade enrollment rather than graduates.

³Public school data refer to "common schools"; private school data, to "select" and "independent" schools.

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 and 51); Department of Education, *A Compilation of Selected Statistics, Public and Non-Public Schools of Hawaii, 1969-1970*, pp. 9, 39, 57, and 67, and records.

**Table 24.—PUPIL MEMBERSHIP, FACILITIES, AND EXPENDITURES OF PUBLIC AND PRIVATE SCHOOLS:
1969-1970**

Subject	All schools	Public schools	Private schools
Pupil membership, all counties	211,215	178,564	32,651
City and County of Honolulu	171,457	142,442	29,015
County of Hawaii	18,282	16,936	1,346
County of Maui	13,004	11,416	1,588
County of Kauai	8,472	7,770	702
Pupil membership, all grades	211,215	178,564	32,651
Nursery	2,362	—	2,362
Kindergarten	15,984	13,906	2,078
1	17,263	14,924	2,339
2	17,171	14,867	2,304
3	16,775	14,551	2,224
4	16,459	14,225	2,234
5	16,352	14,141	2,211
6	15,852	13,699	2,153
7	15,923	13,418	2,505
8	15,772	13,331	2,441
9	15,341	12,980	2,361
10	15,139	12,718	2,421
11	13,686	11,432	2,254
12	12,866	10,659	2,207
Specials	3,563	3,006	557
Others	707	707	—
Average daily attendance, 1968-1969	(NA)	160,990	(NA)
Average daily membership, 1968-1969	(NA)	172,633	(NA)
Number of schools	332	216	116
Current expenditures, 1968-1969 (\$1,000)	(NA)	119,182	(NA)
Per ADA (\$)	(NA)	119,182	(NA)
Per ADM (\$)	(NA)	690	(NA)

NA Not available.

Source: Hawaii State Department of Education, *A Compilation of Selected Statistics, Public and Non-Public Schools of Hawaii, 1969-1970* (Statistical Report No. 3, June 1970), pp. 9, 27, 53, 63, 66, 67, and 69.

**Table 25.—DAYTIME ENROLLMENT AND DEGREES AWARDED AT THE UNIVERSITY OF HAWAII:
1908-09 TO 1970-71**

Year	Enrollment ¹			Degrees awarded ²			
	Manoa Campus	Hilo Campus ³	Community Colleges ⁴	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	668	2,333	1,018	53
1970-71	21,090	1,184	10,853	—	—	—	—

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

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

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

⁴Transferred 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 26.—FULL-TIME AND PART-TIME ENROLLMENT IN HIGHER EDUCATION IN HAWAII:
SPRING 1969**

Institution	Total	Full-time	Part-time
All institutions	57,448	28,103	29,345
East-West Center	550	550	—
University of Hawaii ¹	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

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

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

Table 27.—SCHOOL ATTENDANCE AND ILLITERACY: 1853 TO 1960

Year	Persons 5 to 20 attending school		Persons 15 and over illiterate ¹	
	Number	Percent	Number	Percent
1853	12,722	52.5	(NA)	25.0
1878	6,991	43.8	8,400	20.1
1900	15,284	45.3	41,949	35.2
1920	48,825	62.9	35,083	21.2
1940	109,009	72.4	35,000	11.6
1960	170,890	83.7	21,000	5.0

¹Except 1853, based on population 16 and over, and 1940 and 1960, based on population 14 and over.

Source: Hawaii State Department of Planning and Economic Development, Statistical Report 31 (June 21, 1965), p. 18.

**Table 28.—YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OF AGE AND OVER,
FOR OAHU, 1964-1967, AND THE NEIGHBOR ISLANDS, 1967**

(Excludes persons living in barracks or institutions)

Geographic area and age	Years of school completed (percent)			
	Total	8 or fewer	9 to 12	College, 1 or more
Oahu, 25 years and over	100.0	21.8	55.4	22.8
25 to 44 years	100.0	6.9	67.2	25.9
45 to 64 years	100.0	34.9	44.7	20.4
65 years and over	100.0	60.1	26.1	13.8
Neighbor Islands, 25 years and over	100.0	43.5	41.7	14.8
Hawaii County	100.0	39.2	45.2	15.6
Maui County	100.0	45.2	39.5	15.3
Kauai County	100.0	50.2	37.8	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.

SECTION 4

LAW ENFORCEMENT, COURTS, AND CORRECTIONS

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

Major offenses reported to the police in 1969 numbered 36,060, two and a half times as many as in 1959. The rate per 100,000 population has increased from 1,147 in 1939 to 4,778 in 1969. More than five-sixths of the 1969 total occurred on Oahu.

For the State as a whole, 18.2 percent of the major offenses and 67.6 percent of the minor offenses were cleared by arrest or otherwise. Seven-tenths of the persons arrested for major crimes and two-fifths of those arrested for lesser offenses were less than eighteen years of age. Well over half of the juveniles were counseled and released, and only a small number were committed to the State Youth Correctional Facility.

Inmates of the State correctional institutions averaged 348 during 1970, compared with 1,000 five decades earlier. The State Supreme Court, five Circuit Courts, and twenty-seven District Courts handled over 400,000 cases in 1970.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, and the Department of Social Services and Housing. National data are summarized in the *Statistical Abstract of the United States: 1970*, Section 5.

Table 29.—MAJOR OFFENSES KNOWN TO THE POLICE: 1884-1886 TO 1969

Offense	1884-1886 ¹	1931 ²	1939	1949	1959	1967	1968	1969 ³
All major offenses	579	1,742	4,760	6,645	14,205	27,221	34,294	36,060
Per 100,000 pop. ⁴	356	615	1,147	1,300	2,283	3,833	4,733	4,778
Murder	5	} 33	} 18	17	17	18	21	28
Manslaughter (negligent) . .	3	}	}	20	32	34	28	44
Rape	22	16	28	22	22	37	55	95
Robbery	16	58	19	57	108	146	176	280
Aggravated assault	(NA)	102	55	138	53	92	151	162
Burglary	58	563	1,332	1,867	3,547	8,513	10,609	10,340
Larceny over \$100	} 475	882	} 202	526	401	1,778	2,429	3,131
Larceny, \$100 and under . . .	}	}	} 2,772	3,631	8,032	13,617	16,890	17,713
Automobile theft	—	88	322	367	1,993	2,986	3,935	4,267

NA Not available.

¹April 1, 1884 to March 31, 1886. Reclassified according to uniform system.

²Excludes Counties of Kauai and Maui.

³Kauai data are for 1968.

⁴Annual average, based on total resident population estimates for April 1, 1885 and July 1, 1931 to 1969. The 1885 and 1931 estimates were interpolated from data in Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778 to 1965* (University of Hawaii Press, 1968), pp. 116 and 223; the 1939 estimate is from the U.S. Office of Business Economics, *Personal Income by States Since 1929* (GPO, 1956), p. 144; the 1949-1969 estimates are from DPED Statistical Report 77 (Nov. 19, 1970), p. 9.

Source: *Report of the Attorney General to the Legislative Assembly of 1886*, table E; Seth W. Richardson, *Law Enforcement in the Territory of Hawaii* (1932), pp. 228 and 230; Hawaii State Department of Attorney General, Bureau of Crime Statistics and Identification.

Table 30.—MAJOR AND OTHER OFFENSES KNOWN TO POLICE, BY COUNTY, AND PERCENT CLEARED BY ARREST OR OTHERWISE: 1969

Offense (uniform classification)	State of Hawaii		City and County of Honolulu	Hawaii County	Maui County	Kauai County ¹
	Number known	Percent cleared				
All offenses	66,717	41.0	57,851	2,944	4,372	1,550
Part I offenses	36,060	18.2	32,636	1,406	1,288	730
Murder, non-negligent manslaughter	28	82.1	23	—	5	—
Manslaughter (negligent)	44	100.0	22	10	6	6
Rape	95	52.6	82	9	3	1
Robbery	280	39.6	272	6	2	—
Aggravated assault	162	77.7	124	28	8	—
Burglary	10,340	17.9	9,417	426	278	219
Larceny over \$100	3,131	7.4	2,728	241	102	60
Larceny, \$100 and under	17,713	18.6	15,848	615	835	415
Auto theft	4,267	19.9	4,120	71	49	27
Part II offenses	30,657	67.6	25,215	1,538	3,084	820
Other assaults	5,153	80.1	4,350	308	328	167
Forgery	376	58.8	276	66	30	4
Fraud and embezzlement	807	60.2	580	109	88	30
Stolen property	63	98.4	43	15	5	—
Weapons	343	93.2	317	4	21	1
Prostitution	31	96.7	28	—	1	2
Other sex offenses	574	67.5	507	31	31	5
Offenses against family	64	92.1	57	5	1	1
Drug laws	720	91.1	516	58	116	30
Liquor laws	134	99.2	101	21	11	1
Disorderly conduct	1,174	92.8	826	102	116	130
Vagrancy	1,556	45.8	1,202	74	216	64
Gambling	584	99.5	482	5	89	8
Drunk driving	441	100.0	361	33	20	27
All other offenses	18,637	61.4	15,569	707	2,011	350

¹Data refer to 1968.

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

Table 31.—PERSONS ARRESTED OR CHARGED, FOR OAHU: 1969

Subject	Part I offenses	Part II offenses
Persons arrested, total	6,217	12,480
Under 18, male	3,340	3,692
Under 18, female	1,030	1,521
18 to 24, male	956	2,294
18 to 24, female	282	369
25 to 44, male	305	2,479
25 to 44, female	141	396
45 and over, male	99	1,569
45 and over, female	60	110
Unknown age, male	3	45
Unknown age, female	1	5
Juveniles arrested, total	4,370	5,213
Released without charges	659	226
Counseled and released	1,290	1,038
Referred to social agencies	3	195
Referred to Family Court	2,263	3,485
Probation or protective supervision	848	621
Counseled and released	1,206	2,425
Hawaii Youth Correctional Facilities	74	66
Discharged or other disposition	267	592
Dispositions by District and Circuit Courts, total	1,367	6,463
Convicted	1,014	4,089
Disposed of otherwise	353	2,394
Fine	496	3,294
Jail	203	322
Probation, suspended sentence	315	433
Bail forfeitures	60	347
Discharged	106	1,152
Others stricken, N/P	187	895
Arrested for drug laws	791	
Under 18 years of age	266	
18 years of age and over	525	
Average number of inmates in jail	97	

Source: Honolulu Police Department, *1969 Statistical Report*, pp. 41-43, 46, 53, 54, 65, and 74.

Table 32.—STATE JUDICIARY CASELOAD: 1969 AND 1970

(Years ended June 30)

Court	Filings		Terminations		Pending, June 30	
	1969	1970	1969	1970	1969	1970
Supreme Court	321	294	300	324	127	97
Circuit Courts:						
Circuit Court proper	6,953	7,893	5,742	8,045	13,830	13,678
Family Court	20,375	20,002	17,613	19,213	11,937	12,726
District Courts	333,610	394,508	331,036	390,695	13,416	(NA)

NA Not available.

Source: *The Judiciary, Annual Report* for years ended June 30, 1969 and 1970.

Table 33.—HAWAII STATE PRISON SYSTEM INMATES: 1878 TO 1970

Year ¹	Average daily census ²		Year ¹	Average daily census	
	Oahu Prison ³	Other facilities ⁴		Hawaii State Prison	Other facilities ⁴
1878-1880	115	—	1962	465	138
1888-1890	154	—	1963	451	110
1899	158	—	1964	403	102
1909-1910	229	—	1965	415	99
1920	703	—	1966	396	84
1930	380	103	1967	364	73
1940	506	52	1968	305	78
1951	407	218	1969 ⁴	248	72
1961	449	142	1970 ⁴	209	72

Subject	Year ended June 30, 1970			
	Hawaii State Prison	Kulani Honor Camp	Olinda Honor Camp	Conditional Release Center
Committed	39	—	—	—
Returned from parole	75	—	—	—
Transferred in from camps, etc.	29	46	26	13
Transferred out to camps, etc.	87	11	7	10
Continue on parole	14	—	—	—
Paroled	64	19	18	9
Discharged	6	1	1	—
Died	1	—	—	—
Average number	209	40	22	10
Population, June 30	204	41	22	8

¹Two-year periods ended March 31, 1880 and 1890 and December 31, 1910; calendar year 1899; one-year periods ended June 30, 1920 to 1970.

²Data for 1930 and 1951 refer to number as of June 30.

³Misdemeanants as well as felons were held in Oahu Prison before World War I. The average number of criminal offenders only was 86 in 1899 and 193 in 1909-1910. Oahu Prison was renamed Hawaii State Prison in April 1962.

⁴Includes Kulani Honor Camp, Olinda Honor Camp, and the Conditional Release Center.

Source: *Biennial Report of the Minister of the Interior* for 1880 (p. 26) and 1890 (p. 147); *Report of the Attorney General* for 1899 (p. 103) and 1910 (pp. 48-49); *Report of the Governor* for 1920 (p. 70) and 1930 (p. 112); *Report of the Department of Institutions* for 1940 (p. 10) and 1951 (p. 28.); Corrections Division, Hawaii State Department of Social Services and Housing, records, 1961-1970.

Table 34.—HAWAII STATE YOUTH CORRECTIONAL FACILITY INMATES: 1920 TO 1970

Year ended June 30	Average ward population ¹	Year ended June 30	Average ward population ¹	Subject	Year ended June 30, 1970
1920	297	1965	148	Committed	47
1930	370	1966	135	Returned from parole	40
1940	277	1967	111	Continue on parole	20
1950	220	1968	85	Paroled	53
1962	197	1969	72	Discharged	12
1963	197	1970	67	Died	—
1964	162			Population, June 30	68

¹Data for 1920-1950 refer to June 30 totals rather than annual averages. Data for 1962-1966 include Molokai Forestry Camp, closed in fiscal year 1966-1967: 18 in 1962, 14 in 1963, 14 in 1964, 13 in 1965, and 12 in 1966.

Source: *Report of the Governor* for 1920 (p. 64) and 1930 (p. 87); *Annual Report of the Department of Institutions* for 1940 (pp. 8-9) and 1950 (pp. 85 and 98); Corrections Division, Department of Social Services and Housing, records, 1962-1970.

SECTION 5

ELECTIONS

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

More than 291,000 persons were registered to vote in the general election of November 1970. This amounted to 37.9 percent of the population (including those below the legal voting age or otherwise ineligible); the proportion registered was 29.4 percent in 1959 and 20.4 percent in 1940. The minimum voting age is 20 years. Elective offices in Hawaii include the President, 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: 1970*, Section 13.

Table 35.—REGISTERED VOTERS AND VOTES CAST: 1858 TO 1970

Election date	Population ¹	Registered voters		Votes cast ²		
		Number	Percent of population	Number	Percent of population	Percent of registration
1858: Jan. 4 ³	71,800	(NA)	(NA)	12,673	17.7	(NA)
1890: Feb. 5	87,300	14,113	16.2	11,672	13.4	82.7
1900: Nov. 6	154,001	11,216	7.3	9,589	6.2	85.5
1910: Nov. 8	191,874	14,442	7.5	13,541	7.1	93.8
1920: Nov. 2	255,881	26,335	10.3	22,833	8.9	86.7
1930: Nov. 4	368,300	52,127	14.2	43,544	11.8	83.5
1940: Nov. 5	427,884	87,321	20.4	74,538	17.4	85.4
1950: Nov. 7	497,980	141,319	28.4	118,704	23.8	84.0
1959: July 28	622,087	183,118	29.4	171,383	27.5	93.6
1960: Nov. 8	648,525	202,059	31.2	188,206	29.0	93.1
1962: Nov. 6	666,692	221,650	33.2	200,441	30.1	90.4
1964: Nov. 3	678,946	239,361	35.3	214,693	31.6	89.7
1966: Nov. 8	695,215	253,242	36.4	220,137	31.7	86.9
1968: Nov. 5	724,530	274,199	37.8	239,765	33.1	87.4
1970: Nov. 3	769,913	291,681	37.9	246,235	32.0	84.4
COUNTIES: 1970						
Honolulu	630,528	226,633	35.9	188,500	29.9	83.2
Hawaii	63,468	30,350	47.8	27,173	42.8	89.5
Maui	46,156	21,170	45.9	18,470	40.0	87.2
Kauai	29,761	13,528	45.5	12,092	40.6	89.4

NA Not available.

¹Total resident population. Includes armed forces and persons ineligible to vote because of age, sex, citizenship or other reasons. Data for 1858 and 1890 are January 1 estimates; for 1900-1930 and 1970, official census counts; and for 1940-1968, July 1 estimates.

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

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

Source: Population from Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 115 and 223, and the Hawaii State Department of Planning and Economic Development, Statistical Report 77, pp. 2 and 9 (as corrected). Registered voters and votes cast from *Pacific Commercial Advertiser*, January 28, 1858; *Report of the General Superintendent of the Census, 1890*, p. 38; Archives of Hawaii, official records of elections of 1900-1950; and Office of the Lieutenant Governor, *Voter Registration Statistics, 1959-1968* and *Results of Votes Cast, General Election* for 1966, 1968, and 1970.

Table 36.—SEX OF REGISTERED VOTERS, FOR HAWAII: 1890 TO 1970

Year	Population 20 years and older ¹			Registered voters ²			Percent of population registered		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1890 ...	56,766	40,132	16,634	13,593	13,593	—	23.9	33.9	0
1900 ...	108,486	81,817	26,669	11,216	11,216	—	10.3	13.7	0
1910 ...	121,602	86,313	35,289	14,442	14,442	—	11.9	16.7	0
1920 ...	144,462	93,364	51,098	26,325	17,084	9,251	18.2	18.3	18.1
1930 ...	201,505	135,657	65,848	52,149	31,845	20,304	25.9	23.5	30.8
1940 ...	243,982	152,304	91,678	87,321	(NA)	(NA)	35.8	(NA)	(NA)
1950 ...	299,749	170,583	129,166	140,800	76,602	64,198	47.0	44.9	49.7
1960 ...	360,193	196,431	163,762	202,059	104,591	97,468	56.1	53.2	59.5
1970 ...	466,259	243,893	222,366	291,681	146,630	145,051	62.6	60.1	65.2

NA Not available.

¹As of December 28, 1890, June 1, 1900, April 15, 1910, January 1, 1920, and April 1, 1930-1970. Includes persons of unreported age.

²As of December 28, 1890 and November 1900-1970.

Source: *Report of the General Superintendent of the Census, 1890*, table 5 and 7; *U.S. Census of Population: 1960*, Final Report PC (1)-13B, table 17; *U.S. Census of Population: 1970*, PC (V2)-13, p. 3; Archives of Hawaii, records

Table 37.—SEX AND PARTY OF REGISTERED VOTERS: NOVEMBER 3, 1970

County	Total	Sex		Party affiliation		
		Male	Female	Democratic party	Republican party	Independent
The State	291,681	146,630	145,051	133,479	36,787	121,415
Honolulu	226,633	113,292	113,341	94,484	28,732	103,417
Hawaii	30,350	15,412	14,938	14,992	4,952	10,406
Maui	21,169	10,928	10,241	14,621	2,128	4,420
Kauai	13,529	6,998	6,531	9,382	975	3,172

Source: Office of the Lieutenant Governor, *Result of Votes Cast, General Election, Tuesday, November 3, 1970, State of Hawaii*, p. 79.

Table 38.—PARTY MEMBERSHIP OF THE TERRITORIAL AND STATE LEGISLATURES: 1901 TO 1971

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

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

²One Senate Democrat died prior to the session and his seat was left vacant.

Source: *Report of the Governor of Hawaii, 1931*, p. 15; *Session Laws of Hawaii; 1941-1969*; Office of the Lieutenant Governor, *Result of Votes Cast, General Election, 1970*.

Table 39.—VOTES CAST FOR MAJOR OFFICES: 1966 TO 1970

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

¹Two elected at large.

²American Independent.

³Peace and Freedom.

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

SECTION 6

AREA, GEOGRAPHY, ENVIRONMENT, 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: nine out of nine major Oahu beaches were rated "A" in 1969 (coliform not exceeding 50 per 100 ml) and none was rated either "B" (51-500) or "C" (501 or more).

Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range in downtown Honolulu, for example, is from 57° to 88°F. Normal precipitation, however, ranges from 5.7 inches near Kawaihae to 486.1 inches atop Waialeale. The longest volcanic eruption in Island history lasted 547 days, and the highest tsunami wave reached 66 feet.

Important sources of data include the U.S. Geological Survey, U.S. Coast and Geodetic Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in *Geographic Statistics of Hawaii*, published by the Department of Planning and Economic Development. National data are reported in *Statistical Abstract of the United States: 1970*, Section 6.

Table 40.—GREAT CIRCLE DISTANCES IN STATUTE MILES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

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

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

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

Table 41.—AREA AND COASTLINE OF COUNTIES, ISLANDS, AND CITIES

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

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

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

Table 42.—ELEVATIONS OF MAJOR MOUNTAINS, BY ISLAND

Island and mountain ¹	Elevation (feet)	Island and mountain ¹	Elevation (feet)
Hawaii:		Oahu:	
Mauna Kea	13,796	Kaala	4,040
Mauna Loa	13,677	Puu Konahuanui	3,105
Hualalai	8,271	Tantalus	2,013
Kohala	5,480	Olomana Peak	1,643
Kilauea (Uwekahuna)	4,090	Diamond Head	760
		Punchbowl	500
Kahoolawe:		Koko Head	642
Lua Makika	1,477		
		Kauai:	
Maui:		Kawaikini	5,243
Haleakala (Red Hill)	10,023	Waialeale	5,148
Puu Kukui	5,788		
Iao Needle	2,250	Niihau:	
		Paniau	1,281
Lanai:			
Lanaihale	3,370	Kaula Island	550
		Nihoa ²	910
Molokai:			
Kamakou	4,970		
Puu Nana	1,381		

¹Highest elevation on each island and other important peaks.

²Highest 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 43.—MAJOR STREAMS, LAKES, AND WATERFALLS

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

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

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

Table 44.—WATER QUALITY DATA FOR OAHU BEACHES: 1950 TO 1969

Beach	Coliform per 100 milliliters (logarithmic average)					
	1950	1960	1966	1967	1968	1969
Ala Moana Park	177.0	11	7	1.6	14	5
Fort De Russy	19.2	7	15	18.7	25	13
Kuhio Beach	4.0	6	8	12.7	12	15
Hanauma Bay	3.9	2	45	6.3	6	13
Kailua Beach	6.4	6	8	37.3	12	13
Punaluu Park	6.3	157	311	49.5	20	7
Haleiwa Park	12.6	81	29	11.0	21	7
Waianae Park	1.7	3	10	10.4	52	9
Ewa Beach	2.4	9	22	5.9	6	6

Source: *Annual Report, Department of Health, State of Hawaii, Statistical Supplement, 1950-1969.*

Table 45.—AEROMETRIC SURVEY DATA FOR DOWNTOWN HONOLULU: 1968 AND 1969

(Aerometric survey conducted from the fourth floor lanai, State Health Department Building, 1250 Punchbowl Street, Honolulu. Concentration in parts per million.)

Year	Oxidant		Nitrogen dioxide		Sulphur dioxide		Carbon monoxide	
	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum
1968003	.040	.030	.080	.011	.096	2.7	15.0
1969004	.035	.026	.077	.010	.082	2.4	16.6

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement, 1969*, p. 91, and records.

Table 46.—AEROMETRIC SURVEY DATA, FOR HONOLULU: 1957 TO 1969

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

NA Not available.

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

Table 47.—CLIMATIC DATA FOR SELECTED PLACES

Island and station ¹	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		
Hawaii:							
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	93	24.27	—
Puako (Mahukona)	11	73.9	80.4	52	98	9.46	—
Kamuela	2,670	62.0	66.5	34	90	37.90	—
Maui:							
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	—
Molokai:							
Kaunakakai	12	—	—	—	—	13.92	—
Molokai Airport	450	70.0	77.5	48	90	27.36	—
Oahu:							
Hon. Int. Airport	7	72.5	80.6	52	93	21.89	69
Hon. Federal Bldg. ²	12	71.9	78.4	57	88	23.96	65
Waikiki ³	10	72.1	81.1	53	93	33.13	—
Laie (Kahuku)	25	71.4	78.3	49	95	49.17	—
Waianae	20	71.8	80.3	45	96	19.64	—
Kauai:							
Hanalei (Kilauea Pt)	180	70.7	78.4	47	94	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	—	—	—	—	48.61	—

¹Temperature 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.

²Temperature sensors are 80 feet above the ground.

³Located at Honolulu Zoo. Available for only five 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: National Weather Service, Pacific Region, records.

Table 48.—CLIMATIC EXTREMES, EARTHQUAKES, VOLCANIC ERUPTIONS, AND TSUNAMIS

Subject	Date	Place	Magnitude
CLIMATE (VARYING PERIODS)			
Lowest monthly ave. temp. (°F.)	February	Mauna Loa Obs.	39.8
Highest monthly ave. temp. (°F.)	August	Honolulu Airport	82.3
Lowest temp. of record (°F.)	Jan. 2, 1961	Haleakala Summit	14.0
Highest temp. of record (°F.)	Apr. 27, 1931	Pahala	100.0
Lowest ave. annual rainfall (in.)	—	N. of Kawaihae	5.7
Highest ave. 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, 1838-1970			
Greatest Richter magnitude	March 27, 1868	Hawaii	7½
Second greatest Richter magnitude	Jan. 23, 1938	Hawaii	6¾
VOLCANIC ERUPTIONS, 1832-1970			
Longest duration (days)	1873-1874	Mauna Loa	547
	1919	Kilauea	294
Greatest area covered (square mi.)	1950	Mauna Loa	35.0
	1840	Kilauea	6.6
Greatest lava volume (million cubic yds.)	1859, 1950	Mauna Loa	600
	1840	Kilauea	281
TSUNAMIS (1819-1970)			
Greatest wave height (feet)	April 2, 1868	S.E. Hawaii	66
Greatest damage (\$1,000)	April 1, 1946	All islands	26,000

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

SECTION 7

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 1969; the second largest category at that time was residential use, with over 8,300 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: 1970*.

Table 49.—LAND USE ACREAGES, BY ISLAND: 1968

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

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

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

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

Table 50.—LAND USE SUMMARY, FOR OAHU: 1969

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

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

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

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

Table 51.—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

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 52.—LAND OWNERSHIP, BY ISLAND: 1964

(In acres)

Island	All owners ¹	Government		Private	
		Federal ²	State ³	Major ⁴	Other
All islands ⁵	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 ⁵	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 ⁵	1,920	2,062	—	—	—
PERCENT DISTRIBUTION					
All islands ⁵	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 ⁴	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	—	—	—

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

²Includes fee simple and ceded land.

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

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

⁵See source for explanation of apparent discrepancies.

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

Table 53.—LAND OWNERSHIP, PUBLIC AND PRIVATE, BY COUNTY: 1970

Land ownership	The State	City & County of Honolulu	County of Hawaii	County of Kauai	County of Maui
NUMBER OF ACRES					
All land	4,112,256	381,248	2,583,680	396,224	751,104
Government land	1,156,674	100,230	810,436	94,006	152,002
United States	309,240	45,927	211,044	2,273	49,996
State of Hawaii	775,948	43,545	562,101	91,224	79,078
Hawaiian Home Lands	59,375	705	36,773	180	21,717
Counties	12,111	10,053	518	329	1,211
Private land	2,955,582	281,018	1,773,244	302,218	599,102
PERCENT DISTRIBUTION					
All land	100.0	100.0	100.0	100.0	100.0
Government land	28.1	26.3	31.4	23.7	20.2
United States	7.5	12.0	8.2	0.6	6.7
State of Hawaii	18.9	11.4	21.8	23.0	10.5
Hawaiian Home Lands	1.4	0.2	1.4	0.0	2.9
Counties	0.3	2.6	0.0	0.1	0.1
Private land	71.9	73.7	68.6	76.3	79.8

Source: Hawaii State Department of Taxation, records.

Table 54.—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).

SECTION 8

INCOME, EXPENDITURES, AND WEALTH

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

Total 1969 earnings from overseas, exclusive of capital movements, exceeded \$2,200,000,000, or about twice the 1962 total. The major sources of income to Hawaii were defense expenditures (\$660 million), pineapple production (\$128 million), sugar production (\$182 million), and visitor expenditures (594 million).

Personal income in 1969 was \$3,060 million, compared with \$1.3 billion only ten years earlier, and per capita personal income was \$3,928, 82 percent more than the 1959 level. The median annual income of families in 1964-1967 ranged from \$6,446 on the Big Island to \$8,047 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: 1970*, Section 11.

Table 55.—BALANCE OF PAYMENTS (EXCLUDING CAPITAL MOVEMENTS) AND INCOME FROM MAJOR ECONOMIC ACTIVITIES: 1950 TO 1970

(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 expenditures
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	280.9
1967	1,849	1,762	584.8	133.3	190.9	392.6
1968	2,003	1,999	606.1	127.6	200.0	470.6
1969	2,213	2,326	660.2	125.3	182.5	545.6
1970	(NA)	(NA)	683.4	(NA)	(NA)	593.6

NA Not available.

Source: Visitor expenditures from Hawaii Visitors Bureau, annual research reports for 1952-1965 and records. Other data from the Bank of Hawaii, *Hawaii '70 Annual Economic Review* (August 1970) and records.

Table 56.—BALANCE OF PAYMENTS (EXCLUDING CAPITAL MOVEMENTS), BY RECEIPT OR PAYMENT ITEM: 1969

(In millions of dollars)

Receipt item	Earnings from overseas	Payment item	Expenditures to overseas
Total receipts	2,213	Total payments	2,326
Commodity exports	368	Commodity imports	1,196
Sugar	182	Food from Mainland	120
Pineapple	120	Other domestic	909
Other products	66	Foreign	167
Federal expenditures	986	Payments to Federal agencies	634
Civilian	326	Tax payments	572
Military	660	Other payments	62
Goods and services sold to non-residents ...	720	Purchased services from out of State	318
Return on investments out of State	124	Interest, dividends, profits to overseas	
Remittances, gifts	15	investors	155
		Personal remittances	23

Source: Bank of Hawaii, Department of Business Research, *Hawaii '70. Annual Economic Review* (August 1970), p. 11.

Table 57.—EXPENDITURES ON GROSS DOMESTIC PRODUCT: 1958 TO 1968

(In millions of dollars)

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

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

Table 58.—PERSONAL INCOME: 1939 TO 1969

Year	Total (millions of dollars)	Per capita (dollars)	Year	Total (millions of dollars)	Per capita (dollars)	Year	Total (millions of dollars)	Per capita (dollars)
1939	218	525	1951	793	1,580	1963	1,776	2,612
1940	246	577	1952	865	1,747	1964	1,912	2,755
1941	341	749	1953	896	1,796	1965	2,018	2,819
1942	612	1,087	1954	908	1,802	1966	2,225	3,090
1943	778	1,186	1955	972	1,837	1967	2,419	3,247
1944	1,028	1,239	1956	1,041	1,900	1968	2,710	3,565
1945	1,009	1,328	1957	1,114	1,944	1969	3,060	3,928
1946	719	1,312	1958	1,178	1,987			
1947	721	1,384	1959	1,315	2,156			
1948	723	1,407	1960	1,478	2,380			
1949	685	1,354	1961	1,598	2,473			
1950	692	1,387	1962	1,680	2,542			
	Total by county (millions of dollars)				Per capita by county (dollars)			
Year	Honolulu	Hawaii	Maui	Kauai	Honolulu	Hawaii	Maui	Kauai
1962	1,403.0	124.5	95.1	57.3	2,649	2,132	2,155	2,064
1965	1,705.4	161.3	101.2	62.5	2,953	2,560	2,246	2,129
1966	1,874.7	174.5	111.8	67.0	3,228	2,762	2,424	2,323
1967	2,050.7	169.0	119.3	75.2	3,325	2,911	2,760	2,916
1968	2,277.3	202.0	135.4	88.1	3,636	3,174	3,098	3,528

Source: U.S. Office of Business Economics, *Personal Income by States Since 1929* (1956), pp. 140-143, and *Survey of Current Business*, August 1970, pp. 34-35; First Hawaiian Bank, *Hawaii in 1970* (December 1970), pp. 10, 20, 32 and 40.

**Table 59.—INCOME OF FAMILIES AND UNRELATED INDIVIDUALS, FOR OAHU, 1964-1967,
AND THE NEIGHBOR ISLANDS, 1967**

Annual family income before taxes	Oahu, 1964-1967 ¹			Hawaii, 1967	Kauai, 1967	Maui, 1967 ²
	All families	Head in armed forces	Civilian head			
NUMBER OF FAMILIES						
Total	118,940	21,580	97,360	13,760	6,047	11,644
Under \$2,000	3,760	540	3,220	1,330	391	1,125
\$2,000 to \$2,999	5,260	1,340	3,920	789	303	461
\$3,000 to \$3,999	7,620	2,700	4,920	1,110	616	711
\$4,000 to \$4,999	11,300	4,600	6,700	1,639	692	1,237
\$5,000 to \$6,999	21,700	5,700	16,000	2,296	1,203	2,291
\$7,000 to \$9,999	28,140	3,340	24,800	2,528	1,323	2,670
\$10,000 to \$14,999	27,560	2,840	24,720	1,986	990	1,970
\$15,000 and over	13,580	520	13,060	1,378	386	964
Amount not reported	20	—	20	702	143	216
MEDIAN INCOME (DOLLARS)						
Families	8,047	5,565	8,683	6,446	6,579	6,904
Unrelated individuals ³	3,761	(NA)	(NA)	3,082	3,800	3,929

NA Not available.

¹Revised from earlier reports.

²Includes Molokai (except Kalawao) and Lanai.

³Excludes institute and barracks population.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program survey, special tabulation; Hawaii State Department of Planning and Economic Development, Statistical Report 58 (May 17, 1968), p.12.

Table 60.—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 61.—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 ¹	1,729	25.6
Shelter, fuel, light, refrigeration, and water	1,093	16.2
Household operations	383	5.7
Housefurnishings 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 ²	+472	—
Account balancing difference ³	-102	—

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

²The 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.

³A 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.

SECTION 9

PRICES

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

In December 1970, the Honolulu all-items consumer price index stood at 124.7, with the December 1963 level equal to 100. The index had increased 4.2 percent in the preceding 12 months, 9.5 percent since December 1968, and a third since December 1960. A "moderate" or "intermediate" budget for a four-person family living on Oahu was estimated at \$12,776 as of the Spring of 1970. 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 1970. These data were compiled and published by the U.S. Bureau of Labor Statistics. Similar comparisons go back to 1847, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1968, and a 40-area comparison for various dates since Autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, and 1969.

Data on prices and living costs are summarized in *Statistical Abstract of the United States: 1970*, Section 12.

Table 62.—CONSUMER PRICE INDEX, FOR HONOLULU: 1940 TO 1970

(All items combined. December 1963=100)

Year	Annual average	March	June	September	December
1940	43.6	43.2	—	44.0	—
1941	46.2	44.5	—	47.1	—
1942	52.3	50.8	—	53.5	—
1943	56.3	56.0	56.6	56.5	56.5
1944	57.3	56.2	57.7	57.7	58.1
1945	58.6	58.4	58.6	58.8	59.0
1946	62.8	58.6	59.6	65.4	72.0
1947	72.5	70.9	71.7	73.6	74.5
1948	76.4	75.4	75.1	77.5	78.9
1949	75.1	75.5	74.4	76.3	71.8
1950	72.1	71.2	71.3	72.8	73.6
1951	76.5	76.4	76.2	76.8	78.2
1952	78.8	77.9	78.3	79.5	80.0
1953	79.4	78.4	79.5	80.1	79.7
1954	80.2	80.3	79.7	80.5	80.6
1955	81.3	81.3	80.9	81.7	81.9
1956	82.4	82.3	82.0	82.5	83.4
1957	85.1	83.3	83.5	86.8	88.4
1958	89.2	89.2	88.4	89.8	89.8
1959	90.8	90.5	90.2	91.1	92.2
1960	93.0	92.5	92.9	93.3	94.1
1961	95.5	94.5	95.5	96.1	96.8
1962	97.6	97.1	97.0	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	123.1	122.0	123.3	123.9	124.7

Source: Semi-annual data for 1940-1942 from studies by Eugene Danaher cited in Hawaii Employers Council, *Cost of Living in Honolulu, 1940-1948* (April 1948), pp. 5 and 7; quarterly data for 1943-1963 from Hawaii State Department of Labor and Industrial Relations, unpublished summary table (revised by DLIR from previously published values); annual and quarterly data for 1964-1970 from U.S. Bureau of Labor Statistics, *The Consumer Price Index* (monthly); annual averages for 1940-1963 computed by Hawaii State Department of Planning and Economic Development, using estimates for unsurveyed months (Jan., Feb., April, May, July, August, Oct. Nov.) based on linear interpolation. Data for 1940-1963 (originally on a March 1943 base) shifted to a December 1963 base by DPED.

Table 63.—CONSUMER PRICE INDEX FOR HONOLULU: 1943 TO 1970

(December 1963=100)

Group	1943: March	1950: Dec.	1960: Dec.	1965: Dec.	1969: Dec.	1970: Dec.
ALL ITEMS	56.0	73.6	94.1	103.7	119.7	124.7
Food	—	—	—	105.1	120.8	123.6
At home	53.6	75.2	94.7	105.4	118.8	119.7
Away from home	—	—	—	104.2	127.1	135.5
Housing	—	—	—	105.3	124.5	130.8
Shelter	—	—	—	107.8	134.5	142.4
Rent	—	—	—	103.7	121.2	129.2
Homeownership	—	—	—	110.6	143.7	151.6
Fuel, utilities	71.5	76.7	101.1	99.4	100.6	101.3
Gas, electricity	—	—	—	99.9	99.8	101.8
Household furnishings, operation	—	—	—	101.5	109.6	114.5
Apparel and upkeep	75.3	86.4	98.2	102.7	117.9	124.5
Men's and boys'	—	—	—	100.5	114.3	115.9
Women's and girls'	—	—	—	105.5	121.1	132.9
Footwear	—	—	—	101.6	116.0	123.0
Transportation	43.4	56.3	84.4	98.1	109.7	114.7
Private	—	—	—	99.7	114.0	119.7
Public	—	—	—	90.5	89.0	90.5
Health and recreation	—	—	—	104.3	120.1	125.4
Medical care	49.2	69.9	94.1	105.7	131.5	139.6
Personal care	48.2	61.7	89.9	102.2	110.4	119.1
Reading, recreation	48.2	66.6	91.8	100.4	113.7	117.9
Other goods, services	—	—	—	109.6	122.0	124.3

Source: Hawaii State Department of Labor and Industrial Relations, quarterly releases (as revised); U.S. Bureau of Labor Statistics, *The Consumer Price Index* (monthly). The 1943-1960 indexes, originally on a March 1943 base, have been shifted to a December 1963 base by the Hawaii State Department of Planning and Economic Development.

TABLE 64.—COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1847 TO 1970

Category and date	Cost of budget (dollars)			Percent of U.S. urban average ¹		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
1847	—	—	—	—	200	—
1945: March	—	—	—	—	125	—
1951	—	—	—	—	115	—
URBAN FAMILY OF FOUR PERSONS						
1966: Autumn	—	11,190	—	—	122	—
1967: Spring	7,246	10,902	16,076	122	120	123
1969: Spring	8,135	12,118	18,315	124	120	126
1970: Spring	8,597	12,776	19,311	124	120	125
RETIRED COUPLE						
1966: Autumn	—	4,434	—	—	115	—
1967: Spring	3,110	4,429	7,219	116	115	120
1969: Spring	3,365	4,755	7,858	116	113	119

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

Source: Honolulu Redevelopment Agency, *Redevelopment and Housing Research*, No. 21, June 1962, p. 49, and Supplemental Research Notes for November 1967, pp. 1-2; U.S. Bureau of Labor Statistics, *City Worker's Family Budget, Autumn 1966* (Bull. No. 1570-1), pp. 12-13; *Retired Couple's Budget, Autumn 1966* (Bull. No. 1570-4), pp. 6-7; *Three Standards of Living for an Urban Family of Four Persons*, Spring 1967 (Bull. No. 1570-5), pp. 24, 33, 35, and 37; *Three Budgets for a Retired Couple, 1967-68* (Bull. No. 1570-6), p.21; "Three Budgets for an Urban Family of Four Persons, Final Spring 1969 Cost Estimates" (release, Dec. 1970); "Three Budgets for An Urban Retired Couple, Preliminary Spring 1969 Cost Estimates" (release); "Living Costs in Pacific Cities, Spring 1970" (release, Dec. 21, 1970).

Table 65.—ANNUAL COSTS OF BUDGETS FOR THREE LIVING STANDARDS FOR A FOUR PERSON FAMILY ON OAHU: SPRING 1969

Item	Annual budget costs (dollars)		
	Lower standard	Moderate standard	Higher standard
Food	2,156	2,698	3,467
Food at home	1,922	2,321	2,800
Food away from home	234	377	667
Housing: total	1,905	2,995	4,664
Renter families	1,905	2,545	4,055
Homeowner families	—	3,145	4,771
Transportation	535	1,012	1,347
Clothing	631	872	1,235
Personal care	189	249	353
Medical care	566	570	593
Other family consumption	357	653	1,100
Gifts, contributions, life insurance	309	473	868
Occupational expenses	57	90	95
Social security and disability payments	374	374	374
Personal taxes	1,056	2,132	4,219
Cost of budget: total	8,135	12,118	18,315
Renter families	8,135	11,481	17,374
Homeowner families	—	12,330	18,480
PERCENT OF URBAN U.S. AVERAGE			
Food	121	118	120
Housing: total	138	124	129
Transportation	110	115	118
Clothing and personal care	106	103	100
Medical care	107	107	107
Other family consumption	109	107	109
Total budget	124	120	126
Renter families	124	122	123
Homeowner families	—	120	126

Source: U.S. Bureau of Labor Statistics, San Francisco, *Three Budgets for an Urban Family of Four Persons: Final Spring 1969 Cost Estimates* (December 1970).

SECTION 10

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 1970, reaching 335,000 in the latter year. Agricultural employment fell from 55,000 to 17,000 during this period, while nonagricultural workers (excluding armed forces) rose from 99,000 to 291,000.

The unemployment rate averaged 3.6 percent in 1970, with county levels ranging from 3.3 to 5.2 percent. The labor force contains above-average proportions of younger persons and women: a recent survey reported that 45 percent of all females 17 years of age or more were either employed or seeking work. By occupation, one out of seven civilian workers is classified as professional or technical. Activities with especially large numbers of employees include government (74,000 in 1970, almost half of them in Federal jobs), services (57,000), retail and wholesale trade (69,000), and manufacturing (25,000).

Wage and salary levels are high: the average annual earnings of private wage and salary workers under the Hawaii Employment Security Law reached \$6,375 in 1969 (twice the 1956 average), and in some categories exceeded \$9,000. Average weekly hours ranged from 31.9 (for hotels) to 43.1 (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: 1970*.

Table 66.—WORKING-AGE POPULATION AND EMPLOYMENT: 1872 TO 1970

Year	Working-age population ¹	Employment, including armed forces					
		Total	By sex		By military status and activity		
			Male	Female	Civilians		Armed forces
					Agric, forestry, fisheries	Other activities	
1872	41,097	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1878	41,719	24,795	(NA)	(NA)	(NA)	(NA)	(NA)
1884	58,055	39,541	(NA)	(NA)	(NA)	(NA)	(NA)
1890	66,472	41,073	38,930	2,143	(NA)	(NA)	(NA)
1896	78,819	55,294	51,705	3,589	(NA)	(NA)	(NA)
1900	121,044	90,172	84,047	6,125	57,125	32,802	245
1910	137,727	100,900	89,719	11,181	56,122	43,170	1,608
1920	169,164	111,613	97,439	14,174	56,087	51,160	4,366
1930	241,782	154,086	136,400	17,686	63,478	74,317	16,291
1940	301,686	180,796	145,659	35,137	54,629	99,167	27,000
1950	351,375	190,427	143,544	46,883	31,806	135,765	22,856
1960	426,495	256,637	183,459	73,178	15,982	193,388	47,267
1970 ²	523,055	393,235	(NA)	(NA)	16,650	320,500	56,085

NA not available.

¹Population 15 and over before 1900, 14 and over for 1900-1960, and 16 and over for 1970.

²Employment data are preliminary estimates.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 73, 77, and 127; U.S. Bureau of the Census, *U.S. Census of Population: 1960*, Final Report PC (1)-13C, tables 53 and 62, and *1970 Census of Population*, PC(V2)-13, p. 3; Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates, April 12, 1970*; Hawaii State Department of Planning and Economic Development, *Statistical Report 72* (April 30, 1970), p. 3.

Table 67.—LABOR FORCE ESTIMATES: ANNUAL AVERAGES, 1940 TO 1970

Year	Civilian labor force	Civilian employment	Workers in labor disputes	Unemployment	
				Number	Percent
1940	162,763	155,531	(NA)	7,232	4.4
1941	179,568	173,068	(NA)	6,500	3.6
1942	215,885	213,455	(NA)	2,430	1.1
1943	218,501	216,615	(NA)	1,886	0.9
1944	214,522	212,922	(NA)	1,600	0.7
1945	210,368	208,868	(NA)	1,500	0.7
1946	190,297	188,165	(NA)	2,132	1.1
1947	191,695	188,742	(NA)	2,953	1.5
1948	193,467	184,020	(NA)	9,447	4.9
1949	194,776	173,340	(NA)	21,436	11.0
1950	187,773	170,075	(NA)	17,698	9.4
1951	191,678	183,129	271	8,278	4.3
1952	194,067	185,639	6	8,422	4.3
1953	196,142	186,437	163	9,542	4.9
1954	197,376	185,514	103	11,759	6.0
1955	199,276	189,291	61	9,924	5.0
1956	204,082	195,075	—	9,007	4.4
1957	207,564	199,831	—	7,733	3.7
1958 ¹	211,540	201,370	3,090	7,080	3.4
1959	222,980	216,140	—	6,840	3.1
1960	235,140	228,050	—	7,090	3.0
1961	242,850	232,910	—	9,940	4.1
1962	246,180	234,420	160	11,600	4.7
1963	250,880	238,630	230	12,020	4.8
1964	257,630	247,560	20	10,050	3.9
1965	269,020	259,680	90	9,250	3.4
1966	281,880	272,730	30	9,120	3.2
1967	293,400	282,940	260	10,200	3.5
1968	306,780	297,030	870	8,880	2.9
1969	325,560	315,990	750	8,820	2.7
1970	347,570	334,590	520	12,460	3.6
ISLANDS: 1970					
Oahu	282,700	272,870	30	9,800	3.5
Hawaii	30,120	28,870	260	990	3.3
Maui	18,560	17,510	90	960	5.2
Kauai	13,260	12,580	130	550	4.1
Molokai, Lanai	2,930	2,770	—	160	5.6

NA Not available

¹Data for 1958 and later years are only approximately comparable to data for 1940 to 1957.

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

Table 68—EMPLOYMENT STATUS, BY AGE AND SEX, FOR OAHU, 1964-1967, AND THE NEIGHBOR ISLAND, 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			Unemployed
OAHU¹							
Male, 17 and over	154,120	134,040	23,300	108,420	2,320	20,080	480
17 to 24 years	29,400	21,080	4,700	15,580	800	8,320	260
25 to 44 years	70,560	69,400	16,980	51,580	840	1,160	140
45 to 64 years	43,800	40,660	1,620	38,440	600	3,140	60
65 years and over	10,360	2,900	—	2,820	80	7,460	20
Female, 17 and over	161,240	72,340	120	69,780	2,440	88,900	300
17 to 24 years	36,360	15,660	40	14,500	1,120	20,700	120
25 to 44 years	74,340	36,740	40	35,800	900	37,600	140
45 to 64 years	38,820	18,960	40	18,520	400	19,860	40
65 years and over	11,720	980	—	960	20	10,740	—
NEIGHBOR ISLANDS²							
Male, 17 and over ³	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 ³	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

¹For 36-month period ended March 31, 1967.

²For Fall 1967.

³Includes 166 males and 231 females not reporting age.

Source: Hawaii Dept. of Planning and Economic Development, Statistical Report 58 (May 17, 1968), p. 10; Hawaii State Department of Health, Hawaii Health Surveillance Program survey, special tabulation.

Table 69.—OCCUPATION, BY SEX, FOR OAHU, 1964-1967, AND THE NEIGHBOR ISLANDS, 1967

(Excludes persons living in institutions or barracks)

Occupation	Oahu: April 1964 to March 1967		Neighbor Islands: Fall 1967	
	Male	Female	Male	Female
Civilian employees	108,420	69,780	32,098	18,620
Professional, technical	16,060	11,780	3,335	2,593
Farmers, farm managers	920	440	1,480	248
Managers, officials, proprietors	16,640	4,620	4,655	1,948
Clerical workers	9,060	24,620	1,370	3,468
Sales workers	6,380	6,400	733	1,276
Craftsmen, foremen	25,780	740	4,261	175
Operators	13,860	7,480	4,079	1,214
Service workers	8,680	12,960	2,208	3,858
Farm laborers, foremen	1,520	340	5,771	1,380
Laborers, except farm	9,520	400	3,618	1,221
Not reported	—	—	586	1,239

Source: Hawaii Dept. of Planning and Economic Development, Statistical Report 58 (May 17, 1968), p. 11; Hawaii State Department of Health, Hawaii Health Surveillance Program survey, special tabulation.

Table 70.—EMPLOYMENT, BY INDUSTRY: ANNUAL AVERAGES, 1960 AND 1970

Industry	1960: State total	1970, by island (revised preliminary)					
		State total	Oahu	Hawaii	Maui	Kauai	Lanai, Molokai
Total employment	228,050	334,590	272,870	28,870	17,510	12,580	2,770
Contract construction	17,600	25,230	22,290	1,500	1,000	420	20
Manufacturing	25,770	25,000	18,230	2,960	2,180	1,610	20
Durable goods	3,410	4,850	4,410	150	230	60	10
Non-durable goods	22,360	20,150	13,820	2,820	1,950	1,550	20
Transp., commun., utilities	14,780	23,860	20,310	1,380	1,000	1,050	130
Trade	42,720	68,760	58,880	5,010	2,830	1,880	150
Finance, insur., real estate	9,240	18,040	16,430	900	410	240	60
Services and miscell.	29,310	56,850	48,170	3,730	2,760	2,010	180
Government	49,510	73,740	64,440	4,370	2,440	2,060	430
Federal	27,010	33,420	32,550	360	180	300	40
State	14,620	30,660	24,600	2,960	1,630	1,150	320
Local	7,880	9,660	7,290	1,060	630	600	80
Agriculture	13,790	12,170	2,960	3,610	2,290	1,680	1,630
Non-agr. self-employed ¹	19,930	26,310	19,870	3,120	1,950	1,290	80
Agric. self-employed ¹	5,400	4,630	1,290	2,290	650	340	70

¹Includes unpaid family workers and (in non-agricultural category) domestics.

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

Table 71.—PRIVATE EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW: 1952 TO 1969

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	1969	213,594	6,375	1,361,576
Island and industry					Covered employment	Average annual wage (\$)	Total wages (\$1,000)
Islands, 1968: ¹							
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	

¹Excludes workers and payroll not allocatable by island.

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

Table 72.—WAGE AND SALARY RATES FOR SPECIFIED OCCUPATIONS: 1841 TO 1971

Occupation and year	Annual salary (dollars)	Occupation and year	Monthly salary (dollars)	Occupation and year	Daily wage (dollars)
Chief executive: ¹		Policeman: ²		Sugar workers: ³	
1844	6,000	1843	3.50	1841-44	0.125
1860	16,000	1847	6.00	1854	0.11-0.25
1872	22,500	1861	20.00	1863	0.31-0.38
1888 ⁴	57,588	1873-77	20-22	1888-90	0.60-0.86
1898	12,000	1888	30	1902	0.64
1900	5,000	1903	60	1910	0.70
1910	7,000	1904	75	1915	0.74
1921	10,000	1932	135	1929	1.82
1949	15,000	1940	158	1935	1.70
1956	19,000	1950	245	1941	2.48
1959	25,000	1960	444	1946	5.28
1962	27,500	1966	504	1947	7.63
1965	33,500	1969	555	1957	11.20
1969	38,182	1971	612	1969	23.26
1970	42,000				

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

²Beginning salary for Honolulu policemen. For selected years.

³Data for 1902-1915 refer to field workers only. Data for 1935 and succeeding years are averages for non-supervisory employees in the industry. Data refer to cash wages only and do not include value of "employee benefits" (\$9.76 a day in 1969) or various workers' prerequisites (housing, hospitalization, and sometimes food) provided prior to December 1946.

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

Source: Robert C. Schmitt, "Statistics on Income in Hawaii, 1825-1966," *Hawaii Historical Review, Selected Readings* (Hawaiian Historical Society, 1969), pp.274-292; Hawaiian Sugar Planters' Association, *HSPA Sugar Manual* (1970), p. 6; *Session Laws of Hawaii 1969*, Act 127; Honolulu Police Department, records. Sugar workers' daily wages for 1863-1929 computed from weekly or monthly data, assuming six working days per week or 26 per month.

Table 73.—HOURS AND EARNINGS IN SELECTED INDUSTRIES: 1961 AND 1969

Industry	Average weekly earnings (dollars)		Average weekly hours		Average hourly earnings (dollars)	
	1961	1969	1961	1969	1961	1969
Contract construction	118.34	213.44	38.8	40.5	3.05	5.27
Manufacturing	72.39	119.59	38.3	39.6	1.89	3.02
Communications, utilities	106.30	160.76	41.2	43.1	2.58	3.73
Trades ¹	65.64	89.23	35.1	33.8	1.87	2.64
Finance	84.03	106.47	—	—	—	—
Hotels	55.27	75.60	32.9	31.9	1.68	2.37
Laundries	46.25	69.78	37.6	35.6	1.23	1.96

¹Wholesale and retail, excluding eating and drinking places.
 Source: Hawaii Dept. of Labor and Industrial Relations, records.

Table 74.—AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1953 TO 1970

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	372	474	547	866	2.50	3.46	3.79

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

SECTION 11

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 1,595,000 in 1970. During the same time, visitor expenditures rose from \$16.4 million to \$594 million. About 15 percent of the 1970 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 in 1969, and expenditure per visitor day averaged \$37.23. There were over 30,000 hotel units in the State as of October 1970, compared with 6,825 ten years earlier. Seven-tenths of the units are on Oahu, chiefly in Waikiki. Hotel occupancy rates in 1970 averaged 74 percent in Waikiki and 65 percent on the Neighbor Islands.

The State has three national parks, 41 State parks, 411 county parks, 32 golf courses, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than 100,000 annual visitors include nineteen 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. More than 132,000 Hawaii residents traveled to the Mainland in 1969 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: 1970*.

Table 75.—OVERNIGHT VISITORS, AVERAGE VISITOR CENSUS, HOTEL UNITS, HOTEL OCCUPANCY, AND VISITOR EXPENDITURES: 1922 TO 1970

Year	Visitors staying overnight or longer			Visitor expenditures in Hawaii (\$ million)	Year	Visitors staying overnight or longer			Visitor expenditures in Hawaii (\$ million)
	Total	Westbound	Eastbound or northbound			Total	Westbound	Eastbound or northbound	
1922	9,676	8,493	1,183	4.4	1932	10,370	9,464	906	4.1
1923	12,021	10,699	1,322	5.5	1933	10,111	9,345	766	3.8
1924	12,468	11,311	1,157	5.7	1934	16,161	14,841	1,320	6.3
1925	15,193	13,689	1,504	7.2	1935	19,933	18,030	1,903	7.9
1926	16,762	15,177	1,585	8.0	1936	22,199	20,039	2,160	8.9
1927	17,451	15,693	1,758	8.2	1937	21,987	19,489	2,498	9.5
1928	19,980	18,275	1,705	9.2	1938	23,043	20,853	2,190	10.2
1929	22,190	20,041	2,149	10.3	1939	24,390	21,737	2,653	11.0
1930	18,651	16,995	1,656	8.7	1940	25,373	23,369	2,004	12.0
1931	15,780	14,332	1,448	6.9	1941 ¹	31,846	30,425	1,421	16.4
Year	Visitors staying overnight or longer			Average visitor census (including eastbound)	Hotel units ²		Percent of hotel units occupied (ann. ave.)		Visitor expenditures in Hawaii (\$ million)
	Total	Westbound	Eastbound or northbound		Oahu	Other islands	Oahu ³	Other islands	
1946 ¹	15,000	(NA)	(NA)	975	1,006	566	(NA)	(NA)	6.3
1947	25,000	(NA)	(NA)	1,625	1,392	566	(NA)	(NA)	12.1
1948	36,397	(NA)	(NA)	2,366	1,392	566	(NA)	(NA)	18.9
1949	34,386	(NA)	(NA)	2,235	1,392	588	(NA)	(NA)	17.7
1950	46,593	(NA)	(NA)	3,027	1,415	588	(NA)	(NA)	24.2
1951	51,565	47,634	3,931	3,350	1,597	600	(NA)	(NA)	29.0
1952	60,539	54,618	5,921	3,796	1,788	624	(NA)	(NA)	32.8
1953	80,346	72,152	8,194	4,746	2,212	713	(NA)	(NA)	42.6
1954	91,289	81,388	9,901	5,369	2,372	729	84.3	(NA)	48.9
1955	109,798	98,105	11,693	6,042	3,300	815	81.5	(NA)	55.0
1956	133,815	114,813	119,002	6,947	3,500	827	80.5	(NA)	65.0
1957	168,829	141,518	27,311	8,205	3,877	877	84.6	(NA)	77.6
1958	171,588	139,984	31,604	8,397	4,454	1,040	78.9	(NA)	82.7
1959	243,216	207,645	35,571	10,390	5,657	1,145	88.3	(NA)	109.0
1960	296,517	250,795	45,722	11,797	8,118	1,404	75.3	(NA)	131.0
1961	319,807	248,540	71,267	11,960	8,720	1,473	70.1	(NA)	137.0
1962	362,145	279,625	82,520	13,125	9,098	1,817	74.2	(NA)	154.0
1963	429,140	332,680	96,460	15,316	9,203	2,200	77.4	66.0	186.0
1964	508,870	405,235	103,635	16,739	10,031	2,872	74.5	68.0	225.0
1965	606,010	486,300	119,710	17,294	11,083	3,744	82.1	68.2	265.0
1966	717,550	562,010	155,540	19,990	12,598	4,619	83.7	67.1	280.9
1967	1,001,810	770,095	231,715	27,636	13,004	5,231	90.0	72.8	392.6
1968	1,209,413	910,690	298,723	32,470	15,138	6,105	89.2	75.2	470.6
1969	1,369,058	1,023,075	345,983	36,778	18,209	7,613	81.3	69.3	545.6
1970	1,595,540	1,174,705	420,835	38,256	21,217	9,106	74.1	64.8	593.6

NA Not available

¹The visitor industry was suspended during World War II, 1942-1945.

²Month unspecified through 1958; December 31, 1959 to 1967; November 1968; October 1969 and 1970.

³Waikiki only.

Source: Hawaii Visitors Bureau, *Annual Research Report* for 1952-1969, *Visitor Plant Inventory* for December 1967-October 1970, and records.

Table 76.—VISITOR ARRIVALS AND VISITOR DAYS, BY MILITARY STATUS AND DIRECTION OF TRAVEL: 1965 TO 1970

Subject and year	All groups	Rest and Recuperation		Non-Rest and Recuperation	
		Personnel ¹	Dependents ²	Westbound	Eastbound and northbound
Visitor arrivals:³					
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
1970	1,595,540	110,815	121,866	1,052,839	310,020
Visitor days:⁴					
1965	6,312,323	—	—	5,583,450	728,873
1966	7,296,467	41,820	31,717	6,330,888	892,042
1967	10,087,225	420,900	351,218	8,322,407	992,700
1968	11,851,450	606,744	677,180	9,441,890	1,125,606
1969	13,423,926	697,962	908,432	10,523,283	1,294,249
1970	13,963,534	664,890	853,062	10,720,503	1,725,079

¹All eastbound. Flights began in August 1966.

²All westbound.

³Overnight and longer only.

⁴Includes one-day visitors. Revised March 1971.

Source: Hawaii Visitors Bureau, unpublished estimates.

Table 77.—CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1951 TO 1969

Year	California residents (percent)	Males per 1,000 females	Median age (years)	High-status occupations ¹ (percent)	Persons per party	Arriving in June, July, or Aug. (percent)	Arriving by sea (percent)
1951	52.3	739	44.8	51.3	1.47	31.0	43.6
1956	45.1	706	46.1	47.6	1.52	32.6	19.5
1961	46.9	749	45.4	52.3	1.49	36.5	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 ² (percent)	Pleasure trip (percent)	Staying in hotel (percent)	Average intended stay (days)	Intending to visit Neighbor Islands (percent)	Average visitor census	
						Number	Percent ³
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.

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

²Party heads only.

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

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

Table 78.—HAWAII RESIDENTS RETURNING FROM THE MAINLAND: 1961 TO 1969

Subject	1961 ¹	1967	1968	1969
Number returning	41,450	113,660	126,325	131,835
Oahu residents (percent)	86.0	88.0	(NA)	(NA)
Median age (years)	32.9	(NA)	(NA)	(NA)
Males per 100 females	125.9	(NA)	(NA)	(NA)
Persons per party	1.35	1.24	1.26	1.25
Armed forces (percent)	6.2	11.7	(NA)	(NA)
Average number absent ²	5,200	12,900	(NA)	(NA)
Days absent, median ²	23.7	18.4	(NA)	(NA)
Days absent, average ²	49.6	45.9	(NA)	(NA)
Returning from California (percent)	52.8	(NA)	(NA)	(NA)
Traveling by air (percent)	97.4	99.4	99.5	99.7

NA Not available.

¹Year ended June 30.

²Based on persons absent 1-365 days.

Source: Hawaii State Department of Planning and Economic Development, *Off-Island Travel by Hawaii Residents in 1969* (Statistical Report 73, May 29, 1970), table 2.

Table 79.—PASSENGERS ON SCHEDULED INTERISLAND FLIGHTS ORIGINATING IN HONOLULU, BY PLACE OF RESIDENCE: 1963 AND 1969

Place of residence	1963	1969	Percent distribution	
			1963	1969
All passengers	448,300	959,300	100.0	100.0
Oahu residents	163,500	300,100	36.5	31.3
Neighbor island residents	69,900	131,200	15.6	13.7
Other passengers ¹	214,900	528,000	47.9	55.0

¹Residents of other states or foreign countries.

Source: Hawaii State Department of Planning and Economic Development, *Off-Island Travel by Hawaii Residents in 1969* (Statistical Report 73, May 29, 1970), table 3.

Table 80.—HOTEL UNITS, BY GEOGRAPHIC AREA: 1952 TO 1971

Geographic area	July	January	November	February 1971	
	1952	1960	1968	Existing	Planned ¹
The State	2,805	6,825	21,243	32,289	23,668
Oahu	2,142	5,716	15,138	22,531	8,108
Waikiki to Kahala	1,788	5,290	13,286	19,304	6,341
Other Honolulu	354	373	1,132	2,312	280
Other Oahu	—	53	720	915	1,487
Hawaii	370	581	2,353	3,435	6,925
Hilo and Hamakua	176	249	926	1,204	1,167
North and South Kohala	27	18	324	338	—
North and South Kona	129	270	1,042	1,842	5,070
Ka'u and Puna	38	44	61	51	688
Maui	144	247	2,081	3,596	4,780
Hana and Makawao	62	74	96	97	—
Wailuku and Kahului	82	159	596	414	250
Kihei and Maalaea	—	4	80	464	3,158
Lahaina	—	10	1,309	2,621	1,372
Lanai	11	11	10	11	—
Molokai	23	33	123	88	1,369
Kauai	115	237	1,538	2,628	2,486
Hanalei	6	—	79	151	1,000
Kapaa and Wailua	24	120	333	1,258	1,255
Lihue	75	117	538	662	—
Koloa	10	—	576	545	231
Waimea	—	—	12	12	—

¹Includes 5,396 scheduled for completion in 1971, 3,855 for 1972, 300 for 1973, and 14, 117 without definite completion date. Source: Harris, Kerr, Forster & Company, unpublished data from 1952 and 1960 surveys; Hawaii Visitors Bureau, *Visitor Plant Inventory* for November 1968 and February 1971.

Table 81.—HOTEL OCCUPANCY RATES, EMPLOYMENT, AND PAYROLLS: 1960 TO 1970

Year	Percent of rooms occupied (annual average)					Covered employment (annual average)	Wages and salaries	
	Waikiki		Hawaii	Maui	Kauai		Total (\$1,000)	Per worker (dollars)
	Large hotels	Other hotels						
1960	82.4	68.2	(NA)	(NA)	(NA)	4,235	13,364	3,155
1961	69.7	70.4	(NA)	(NA)	(NA)	4,666	14,227	3,049
1962	75.8	72.6	67.5	64.8	63.3	4,629	15,158	3,275
1963	79.2	75.6	69.6	62.7	65.4	5,621	19,070	3,392
1964	72.8	76.2	70.1	65.9	72.3	5,834	21,080	3,613
1965	82.6	81.6	71.9	63.9	71.0	6,308	23,438	3,716
1966	86.0	81.2	68.7	63.5	71.1	7,316	28,173	3,851
1967	90.8	89.8	71.3	71.1	79.4	8,944	34,927	3,905
1968	91.0	84.1	78.4	71.6	75.8	10,783	46,730	4,334
1969	81.9	79.3	76.4	67.1	62.5	12,546	58,212	4,640
1970		74.1	68.3	66.7	58.0	(NA)	(NA)	(NA)

NA—Not available.

Source: Hawaii Visitors Bureau, *Annual Research Report*, 1963 to 1969, and records; Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual) and records.

Table 82.—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 83.—NATIONAL, STATE, AND COUNTY PARKS: 1969—1970

Park	Acreage, Dec. 31, 1970			Visits (thousands)	
	Total	Federal land	Non-Federal land	1969	1970
Hawaii Volcanoes National Park	229,616	210,667	18,949	719.9	822.3
Haleakala National Park	27,283	21,190	6,093	146.8	197.4
City of Refuge National Historical Park	181	181	—	220.2	213.5

County	State parks				County parks		
	Number of areas, 1970	Acreage, 1970		Visits (thousands)		Number of areas, 1970	Acreage, 1970
		Total	Developed	1969	1970		
Total	41	15,584	487.7	6,142	9,520	411	5,884
Hawaii	12	1,446	206.3	1,589	2,075	70	865
Maui	10	394	47.0	817	1,058	49	484
Honolulu	14	5,929	77.4	807	3,119	249	4,105
Kauai	5	7,815	157.0	2,929	3,268	43	430

Source: U.S. Department of the Interior, National Park Service, records; Hawaii State Department of Land and Natural Resources, *Report to the Governor* for 1968-1969 (p. 80) and 1969-1970 (p. 84); county park departments, records.

Table 84.—RESIDENT AND VISITOR PARTICIPATION IN MAJOR OUTDOOR RECREATION ACTIVITIES: 1967

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

*Pleasure driving only.

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

Table 85.—SELECTED RECREATIONAL FACILITIES AND ACTIVITIES: 1969-1970

Subject	Number
Sandy shoreline, six major islands (length in miles)	184.9
Safe, clean, accessible, suitable for swimming	24.4
Suitable for swimming during part of the year	24.3
Unsafe, poor bottom, or otherwise unsuitable	136.2
Golf courses, 1970	38
Public, 9-hole	2
Public, 18-hole	5
Private, open to public, 9-hole	7
Private, open to public, 18-hole	10
Private, restricted use	6
Military	8
Licenses issued by the State, 1970:	
Fresh-water game fishing	5,070
Hunting	9,773
Ski Association of Hawaii paid members, March 1971	270
Spectator sports home attendance:	
Baseball (Hawaii Islanders, 1970 regular season)	467,217
Basketball (Univ. of Hawaii, 1970-1971 season)	118,510
Football (Univ. of Hawaii, 1970 season)	120,528
Attendance at major cultural attractions, 1969:	
Bernice P. Bishop Museum	97,328
Dole Co. Cannery	74,321
Foster Botanical Garden	100,000
Hawaiian Wax Museum	188,500
Honolulu Academy of Arts	108,642
Honolulu Community Theatre (1969-1970)	28,000
Honolulu Symphony Orchestra (1966-1967)	213,419
Honolulu Theater for Youth (1969-1970)	72,000
Honolulu Zoo	1,108,823
Kilohana Planetarium	58,838
Kodak Hula Show (1970)	400,000
Mormon Temple Grounds	300,256
Paradise Park	180,292
Polynesian Cultural Center	398,919
Sea Life Park	447,900
Ulu Mau Village (1970)	76,000
University of Hawaii Theatre Group (1966-1967)	37,116
Waikiki Aquarium	258,860

Source: Hawaii State Department of Land and Natural Resources, *1969-1970 Report to the Governor*, p. 43; Hawaii State Department of Planning and Economic Development, *Hawaii Tourism Data Book: 1969*, pp. 35, 39 and 40, as updated; *Honolulu Star-Bulletin*, September 18 and 21, 1970.

SECTION 12

ARMED FORCES

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

There were approximately 54,000 officers and enlisted men (including 14,000 aboard ships homeported in Hawaii) and over 57,000 military dependents in the Islands as of July 1, 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 almost half of the current total.

The importance of national defense in Hawaii can be further measured by total expenditures (\$683,400,000), civilian employment (22,000), veterans in civil life (64,000), Federally-connected pupils in public schools (55,000), 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 periodic reports on *Military Personnel and Dependents in Hawaii*. Other published sources include reports of the Bureau of the Census, the Director of Selective Service, the Administrator of Veterans Affairs, the Department of Defense, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Census Tract Committee, and the Honolulu Redevelopment Agency. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. Section 9 of the *Statistical Abstract of the United States: 1970* presents data on national defense and veterans affairs for other States and the entire nation.

Table 86.—ARMED FORCES AND DEPENDENTS: 1900 TO 1970

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

NA Not available.

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

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

³Navy personnel afloat, identified with the nearest port.

Source: Data for 1900-1935 from the Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1965* (Statistical Report 36, September 24, 1965), p. 7; 1939 from the U.S. Office of Business Economics, *Income of Hawaii* (1953), p. 20; 1940-1970 from Office of the Assistant Secretary of Defense, records.

Table 87.—MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1959 TO 1970

(Includes Navy and Coast Guard personnel afloat on a homeported basis and hence is not comparable to Department of Defense data in the preceding table.)

Date	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families in Hawaii
		Total	Ashore	Aboard ship ¹		
1959: Spring	112,525	56,303	—	—	56,222	—
1960: April 1	112,938	52,881	41,927	10,954	60,057	19,631
1961: July 1	118,381	56,348	44,155	12,193	62,033	21,007
1962: July 1	122,933	59,702	48,020	11,682	63,231	21,973
1963: July 1	118,588	57,093	45,354	11,739	61,495	21,651
1964: July 1	128,930	59,840	47,959	11,881	69,090	21,631
1965: July 1	121,929	56,113	42,960	13,153	65,816	23,156
1966: July 1	112,359	49,737	31,476	18,261	62,622	21,154
1967: July 1	112,303	51,002	38,904	12,098	61,301	20,854
1968: July 1	107,746	48,613	36,712	11,901	59,133	21,818
1969: July 1	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
April 1	117,943	56,085	41,362	14,723	61,858	20,558
July 1	111,549	53,768	39,822	13,946	57,781	20,568
ISLAND: 1970						
Oahu	110,819	53,373	39,456	13,917	57,446	20,450
Hawaii	244	151	136	15	93	35
Maui	95	59	45	14	36	13
Kauai	348	142	142	—	206	70
French Frigate Shoals	20	20	20	—	—	—
Kure Atoll	23	23	23	—	—	—
SERVICE: 1970						
Air Force	29,603	9,758	9,758	—	19,845	7,100
Army	20,809	10,000	10,000	—	10,809	4,094
Coast Guard	3,464	1,698	857	841	1,766	610
Marine Corps	13,467	6,922	6,922	—	6,545	2,247
Navy	44,206	25,390	12,285	13,105	18,816	6,517

NA Not available.

¹Navy and Coast Guard personnel aboard ships homeported in Hawaii, regardless of location on date specified.

Source: Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1970* (Statistical Report 76, September 1, 1970).

Table 88.—FEDERAL MILITARY EXPENDITURES: 1969 AND 1970

Subject	Millions of dollars	
	1969	1970
Total expenditures	660.2	683.4
By service:		
Air Force	100.4	113.2
Army	212.4	191.6
Coast Guard	14.5	22.2
National Guard	13.5	13.5
Navy	319.4	342.9
By expenditure category:		
Military payroll	186.5	211.8
Civilian payroll	225.8	240.3
Dependents and retired personnel	34.7	41.8
Transients	8.0	8.0
Supplies and services	205.1	181.4

Source: Bank of Hawaii, records.

Table 89.—DEFENSE EMPLOYMENT, SELECTIVE SERVICE REGISTRANTS, VETERANS, FEDERALLY-CONNECTED PUPILS, ARMED FORCES HOUSING, AND ACREAGE CONTROLLED BY THE ARMED FORCES: 1968 TO 1970

Subject	1968	1969	1970
Civilian employment, July 12	23,840	24,080	22,350
Air Force	3,720	4,000	3,700
Army	6,460	6,580	6,150
Navy	13,660	13,500	12,500
Selective service registrants from Hawaii on active duty with the armed forces, Dec. 31	17,867	16,380	(NA)
Veterans in civil life, June 30	61,000	64,000	(NA)
War veterans	50,000	53,000	(NA)
Others	11,000	11,000	(NA)
Federally-connected pupils in public schools, Nov.	53,646	54,980	(NA)
Housing units operated by the armed forces, April 1	14,844	14,222	14,425
Owned by the armed forces	14,219	13,555	13,627
Leased from private owners	625	667	798
Acreage controlled by the armed forces, June 30	251,971	(NA)	(NA)
Owned	175,241	(NA)	(NA)
Temporary use	33,840	(NA)	(NA)
Leased	3,758	(NA)	(NA)
Easements	39,132	(NA)	(NA)

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates* (monthly); National Headquarters, Selective Service System, records; *Annual Report, Administrator of Veterans Affairs*; Hawaii State Department of Education, Research Report No. 63 and Statistical Report No. 2; Honolulu Redevelopment Agency, *Redevelopment and Housing Research* (annual).

SECTION 13

GOVERNMENT FINANCES AND EMPLOYMENT

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

Local government is vested in one combined City and 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) 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 1970 reached \$1,055 million, double the level reported five years earlier. The 1970 total included \$601 million in U.S. taxes, \$438 million in State taxes, and \$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, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State doubled between 1963 and 1970. Public bonded debt outstanding at the end of 1969 exceeded \$631 million. Average employment reported for 1970 was 73,740, about 49 percent over the 1960 average but still less than the 1944 peak of 78,617. The 1970 total included 33,420 Federal workers, 30,660 persons employed by the State, and 9,660 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: 1970*, Sections 14 and 15.

**Table 90.—TAX COLLECTIONS, 1852 TO 1970, AND GOVERNMENT EMPLOYMENT, 1939 TO 1970,
BY LEVEL OF GOVERNMENT**

Year	Tax collections in Hawaii (\$1,000) ¹				Government employment (annual averages) ²			
	Total	Federal	State	Counties	Total	Federal	State	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	69,230	34,970	24,420	9,840
1969	922,122	526,624	379,881	15,617	71,130	34,680	26,090	10,360
1970	1,055,004	600,626	438,397	15,981	73,740	33,420	30,660	9,660

NA Not available.

¹Data 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.

²Excludes 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; 1959-1970 from Tax Foundation of Hawaii, *Government in Hawaii* for 1968 (p. 17) and 1970 (p. 18) and records. County tax collections, 1934 and 1944-1954, from Chamber of Commerce of Honolulu, *Facts and Faces*, 4th ed. (1955), p. 17; 1939 and 1959-1970 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; 1959-1970 from Hawaii Department of Labor and Industrial Relations, *Labor Force Estimates* (annual) and records.

Table 91.—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
Indiv. 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 ¹	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

¹Previous 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 92.— STATE 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 93.—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
License, 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 capital improvement	12,837	—	—	—

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

Table 94.—GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1960, 1969, AND 1970

Source of revenue	Tax base (\$1,000)			Tax collections (\$1,000)		
	1960 ¹	1969	1970	1960 ¹	1969	1970
Total	2,410,855	5,450,401	6,207,690	65,887	150,640	171,711
Retailing	846,729	1,670,288	1,895,089	29,584	66,823	75,792
Services	188,752	451,814	504,191	6,663	18,015	20,162
Contracting	268,530	624,957	782,972	9,363	24,987	31,309
Theater, amuse., etc.	21,940	39,220	43,588	764	1,569	1,743
Interest	16,475	35,372	35,704	576	1,415	1,428
Commissions	44,307	82,984	86,799	1,549	3,319	3,472
Hotel rentals	153,134	490,856	176,923	5,333	19,634	7,077
Other rentals			354,745			14,190
Consumption	44,874	—	—	1,568	—	—
Use (4%)	—	69,922	72,138	—	2,782	2,885
All others	23,974	56,150	60,691	778	2,245	2,410
Public utilities airlines	12,695	—	—	444	—	—
Insurance solicitors	939	13,604	17,908	14	274	358
Sugar processing	99,079	196,744	175,337	1,969	984	877
Pineapple canning	96,939	116,466	114,634	2,234	582	573
Producing	50,631	65,729	74,642	482	329	373
Manufacturing	145,739	279,482	285,251	1,455	1,397	1,426
Blind vendors	584	1,365	1,048	6	7	5
Wholesaling	354,598	747,204	854,660	2,658	3,736	4,273
Services (intermediary)	11,951	20,338	27,138	90	102	136
Compensating	28,984	—	—	218	—	—
Use (½%)	—	487,908	644,232	—	2,440	3,221

¹General excise, consumption and compensating tax base.
Source: Hawaii State Department of Taxation, annual tabular releases.

Table 95.—ASSESSED VALUATION OF REAL-PROPERTY: 1860 TO 1971

(In thousands of dollars. Real property has been legally assessed at 70 percent of market value since 1956. The ratio was 60 percent from 1952 to 1956, 30 percent from 1943 to 1951, and unspecified for earlier years.)

Year	Assessor's gross valuation	Valuation for tax rate purposes	Year	Assessor's gross valuation	Valuation for tax rate purposes
1860 ¹	3,417	(NA)	1960	3,174,073	1,820,104
1870	5,396	(NA)	1961	3,327,737	1,958,352
1880	12,194	(NA)	1962	3,630,203	2,146,472
1890	18,483	(NA)	1963	3,810,422	2,270,903
1901	58,548	(NA)	1964 ²	2,988,028	2,544,552
1910	75,793	(NA)	1965	4,574,005	2,749,162
1920	155,238	144,734	1966	5,036,156	3,069,066
1930	283,903	202,102	1967	(NA)	3,416,194
1940	350,734	183,048	1968-1969	6,044,461	3,639,215
1950	772,784	333,644	1969-1970	6,555,382	4,062,060

County	Assessor's gross valuation, 1970-1971			Total exemptions, 1970-1971	Assessor's net taxable valuation, 1970-1971	Valuation for tax rate purposes, 1970-1971
	Total	Land	Improvement			
The State	7,663,518	4,335,564	3,327,953	2,994,141	4,669,377	4,627,047
Honolulu	6,347,918	3,509,328	2,838,589	2,601,801	3,746,117	3,716,169
Maui	442,640	266,225	176,415	128,724	313,916	310,100
Hawaii	628,971	406,922	222,049	200,000	428,971	427,152
Kauai	243,989	153,089	90,900	63,616	180,373	173,626

NA Not available.

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

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

Source: *Biennial Report of the Minister of Finance* for 1870 and 1872; *Report of the Auditor General* for 1886 and 1892; *Report of the Treasurer ... 1933*; *Report of the Tax Commissioner* for 1940 and 1950; Hawaii State Department of Taxation, annual tabular releases for 1960-1971.

Table 96.—STATE INCOME TAX RESIDENT RETURNS FOR 1967, BY ADJUSTED GROSS INCOME CLASSES

Adjusted gross income class	Number of returns ¹	Adjusted gross income ² (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
Total	243,217	1,792,129	1,134,116	65,439
Taxable returns	205,713	1,754,166	1,134,116	65,439
\$600 to \$4,999	70,695	189,307	103,967	4,034
\$5,000 to \$9,999	71,995	529,798	319,559	15,617
\$10,000 to \$14,999	39,312	477,002	308,070	16,963
\$15,000 to \$19,999	14,181	241,627	166,617	10,455
\$20,000 to \$24,999	4,509	99,506	71,237	4,885
\$25,000 to \$49,999	4,060	132,793	99,296	7,577
\$50,000 to \$99,999	771	51,021	39,715	3,495
\$100,000 to \$149,999	116	14,118	11,087	1,036
\$150,000 and over	74	18,994	14,567	1,376
Non-taxable returns	37,504	37,963	—	—
Loss	675	-2,984	—	—
Under \$600	20,496	6,595	—	—
\$600 to \$4,999	15,417	24,784	—	—
\$5,000 and over	916	6,585	—	—

¹The median for taxable returns was \$7,069 (\$3,745 for single returns and \$10,223 for joint returns); for taxable and non-taxable returns, it was \$5,860 (\$2,646 for single returns and \$9,575 for joint returns).

²Totals and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns 1967. Individuals* (June 1970), pp. 2 and 12.

Table 97.—PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: DECEMBER 31, 1969

Government 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 98.—EMPLOYMENT AND PAYROLLS OF STATE AND LOCAL GOVERNMENTS:
OCTOBER 1967**

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

NC Not computed.

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

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

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

SECTION 14

WELFARE SERVICES

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

Total welfare costs reached \$46,566,000 in 1970, compared with \$8,076,000 in 1960 and \$1,124,000 in 1940. About 56 percent of the 1970 total came from State funds and the remainder from the Federal government. The average monthly payment for public assistance was \$170. 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: 1970* presents comparable Mainland data.

Table 99.—SOCIAL WELFARE COSTS: 1940 TO 1970

(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
1970	46,566	20,396	26,170	3,730	16,421	26,415

Source: Hawaii Department of Social Services, records.

Table 100.—PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1969

(Year ended June 30)

Program	Total payments (\$1,000)	Number of recipients (mo. ave.)	Ave. mo. payments (dollars)
All programs ¹	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

¹Includes 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 101.—PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1960 TO 1970, MONTHLY AVERAGES

Year ended June 30	Major programs ¹		Service cases	Medical payments		Average payments (gross obligation basis)	
	Recipients	Individuals		Cases	Individuals	Per case (\$)	Per individual (\$)
1960	6,764	14,974	962	—	—	—	38.19
1961	6,537	14,661	967	—	—	—	39.48
1962	6,599	15,898	1,378	—	—	91.59	37.91
1963	6,897	17,300	1,463	—	—	96.75	37.70
1964	6,931	17,722	1,696	—	—	97.21	38.02
1965	6,807	17,634	1,474	—	—	100.03	38.62
1966	7,383	19,136	1,457	—	—	123.99	47.84
1967	8,581	22,350	1,311	—	—	132.71	50.96
1968	10,043	26,337	961	—	—	137.39	52.39
1969	11,013	28,845	926	2,492	2,700	147.86	56.45
1970	12,940	34,320	900	2,942	3,370	170.17	64.14

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

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

Table 102.—VOCATIONAL REHABILITATION, CHILD LABOR, AND EMPLOYMENT COMPENSATION: 1969

Subject	Number	Subject	Number
VOCATIONAL REHABILITATION¹		UNEMPLOYMENT INSURANCE	
Disabled persons rehabilitated	644	Workers covered	273,300
Federal grants (\$1,000)	1,344	Wages paid (\$1,000,000):	
		Total paid	1,937
CHILD LABOR CERTIFICATES²		Taxable	829
Number issued	18,251	Contributions (\$1,000,000)	11.4
Boys	11,347	Benefits paid (\$1,000,000)	10.5
Girls	6,904	Average weekly benefits (dollars)	49.52
Under 16 years of age	3,274		
16 and 17 years of age	14,933		
18 years of age and over	44		

¹Calendar year.

²Year ended June 30.

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

Table 103.—OLD AGE, SURVIVORS, DISABILITY, AND HEALTH INSURANCE BENEFITS: 1969

Category	Number of benefits ¹	Amount of benefit payments (\$1,000) ²
Total	60,600	61,200
Old-age and survivors insurance:		
Retired workers and dependents ³	40,300	41,300
Survivors	14,800	14,100
Disability insurance	5,500	5,700

¹As of June 30.

²Year ended June 30.

³Average monthly benefits for retired workers were \$98.23.

Source: U.S. Department of Health, Education, and Welfare data cited in *Statistical Abstract of the United States: 1970*, p. 285.

SECTION 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

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

Deposits in Island banks reached \$1.56 billion in 1970, compared with \$673 million in 1960, \$123 million in 1940, and \$4.7 million in 1901. Assets of savings and loan associations stood at \$731 million in 1970, more than triple their 1960 level and ninety-five times as great as in 1940. Life insurance in force in Hawaii at the end of 1969 amounted to \$6.6 billion, double the figure reported seven years earlier and thirty-one times the 1940 coverage.

By mid-1970, some 14,200 corporations and partnerships were registered to do business in Hawaii: 9,755 local ("domestic") corporations, 1,734 Mainland ("foreign") corporations, and 2,750 partnerships. Business units with one or more employees as of the first quarter of 1969 numbered 12,046 including 677 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: 1970*.

Table 104.—BANKING AND INSURANCE: 1901 TO 1970

(In thousands of dollars)

Year	Banks, June 30		Savings and loan associations, June 30		Insurance premiums ¹		Life insurance in force, Dec. 31
	Assets	Deposits	Assets	Deposits	Total	Life	
1901 ²	(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 ³	(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	207,184	91,402	6,632,539
1970	1,762,811	1,558,671	730,712	584,017	(NA)	(NA)	(NA)

NA Not available.

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

²Insurance data refer to 1903, earliest year available.

³Savings 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; *Report of the Insurance Commissioner, 1970*, pp. 6-7.

Table 105.—ASSETS AND LIABILITIES OF BANKS AND SAVINGS AND LOAN ASSOCIATIONS: DECEMBER 31, 1960 TO 1969

(In thousands of dollars)

Subject	1960	1965	1969
BANKS			
Total assets	813,618	1,155,117	1,694,440
Loans and discounts	400,109	667,133	1,023,995
U.S. govt. 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
SAVINGS AND LOAN ASSOCIATIONS			
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. govt. 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
Withdrawal 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 106.—INSURANCE: 1969

Class of insurance	Premiums (\$1,000)	Losses, claims, and benefits paid (\$1,000)	Subject ¹		Amount, Dec. 31 (\$1,000)
All insurance	207,184	98,867	Assets		199,024,280
Life	91,289	39,667	Liabilities, excluding		
Fraternal	113	35	capital & surplus		176,212,868
Fire, marine, casualty, miscell.	115,083	58,875	Policyholders' surplus,		
Accident and health	15,970	8,708	Incl. capital		22,811,412
Fire	6,420	3,090	Capital		1,653,246
Automobile	46,341	29,785	Investments, total ²		868,252
Workmen's compensation	16,861	8,655	Mortgage loans		521,982
Fidelity and surety	4,563	991	Collateral loans		617
Marine	3,962	1,685	State, county bonds		71,450
Other types	20,967	5,960	Utility stocks, bonds		91,551
Surplus lines	699	289	Other stocks, bonds		171,981
			Real estate		10,671

Type of life insurance	Policies written (\$1,000)	Policies transferred (net) (\$1,000)	Policies terminated (\$1,000)	Policies in force, Dec. 31		Premiums received ³ (\$1,000)	Claims and benefits paid (\$1,000)
				Number	Amount (\$1,000)		
All life insurance	1,296,880	-7,316	553,962	440,718	6,632,539	91,402	39,703
Ordinary	662,295	-11,792	351,660	428,682	3,819,761	71,190	27,704
Group	631,992	4,636	201,460	2,500	2,801,763	20,039	11,924
Industrial	285	-22	290	8,194	3,760	60	39
Fraternal	2,307	-138	552	1,342	7,256	113	35

¹For all insurance companies authorized to transact business in Hawaii.

²Hawaii investments only. Stocks, bonds, and real estate at market value.

³Includes \$11,031 by Hawaii companies, \$70,338 by Mainland ("foreign") companies, and \$10,033 by non-U.S. ("alien") companies.
Source: *Report of the Insurance Commissioner of Hawaii, 1970*, pp. 6, 16, 34, 50-51.

Table 107.—REGISTERED CORPORATIONS AND PARTNERSHIPS: 1910 TO 1970

(Number on record as of June 30. Excludes eleemosynary corporations.)

Year	Corporations ¹		Partnerships	Year	Corporations ¹		Partnerships
	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	1970	9,755	1,734	2,750

Year ended June 30	Domestic corporations ¹		Foreign corporations ¹		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
1969	1,177	498	297	53	524	512
1970	1,392	672	303	61	228	254

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

Source: *Report of the Treasurer to the Legislature* of 1911 (pp. 37-38), 1921 (pp. 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 108.—CHARACTERISTICS OF BUSINESS UNITS: 1969

Subject	Number of employees, mid-March pay period	Taxable payrolls, Jan.-Mar. (\$1,000)	Number of reporting units ¹	
			Total	50 or more employees
The State	196,343	283,081	12,046	677
Counties:				
Hawaii	14,689	17,590	1,243	57
Honolulu	163,975	245,039	9,191	563
Kalawao	24	23	1	—
Kauai	6,363	6,745	486	22
Maui	9,568	10,965	753	35
Statewide	1,724	2,719	372	—
Industry groups:				
Agric., forest, fisheries	882	897	138	1
Mining	582	1,070	15	4
Contract construction	20,899	47,477	1,076	102
Manufacturing	28,691	43,353	694	114
Transport., other utilities	18,859	38,173	441	59
Wholesale trade	14,016	24,518	1,077	45
Retail trade	46,159	43,452	3,010	147
Finance, insur., real estate	16,098	24,396	1,467	54
Services	48,519	58,124	3,797	151
Unclassified establishments	1,638	1,621	331	—
Employment-size class:				
1 to 3	9,237	—	5,268	—
4 to 7	12,808	—	2,449	—
8 to 19	29,853	—	2,462	—
20 to 49	36,274	—	1,190	—
50 to 99	25,364	—	369	369
100 to 249	33,309	—	220	220
250 to 499	18,204	—	56	56
500 or more	31,294	—	32	32

¹Each 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, 1969. Hawaii*, CBP-69-13.

Table 109.—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 ¹	1,276	4,465	738	3,023	538	1,442
1961 ¹	1,605	4,901	719	2,912	886	1,989
1962 ¹	2,175	6,770	869	3,311	1,306	3,459
1963 ¹	1,543	5,603	1,068	3,708	475	1,895
1964 ¹	1,501	5,072	1,109	3,580	392	1,492
1965 ¹	1,351	4,451	847	2,903	504	1,548
1966 ¹	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 Co.	90	206	29	74	61	132
Hawaii Co.	137	379	41	128	96	251
Kauai Co.	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, insur., real est.	211	488	49	122	162	366
Services	636	1,935	214	573	422	1,362
Not classifiable	27	71	9	15	18	56

¹Excludes 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, 414,000 telephones, 29 radio stations, 10 commercial 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: 1970*, Sections 18, 19, and 20.

Table 110.—COMMUNICATIONS FACILITIES AND USAGE: 1898 TO 1971

Year	Post offices		Telephones in operation, Dec. 31		Telephone calls		
	Number, June 30	Receipts (\$1,000)	State	Oahu	Inter-island	Transpacific	
						In and out	Out
1901 ¹	90	103	(NA)	1,090	—	—	—
1910	93	(NA)	(NA)	2,657	—	—	—
1920	91	352	(NA)	10,761	—	—	—
1930	93	774	24,319	19,169	—	—	—
1940	95	1,480	39,179	31,799	48,103	9,799	(NA)
1950	97	3,955	99,310	79,968	271,501	92,752	(NA)
1960	83	7,732	208,411	171,793	538,294	(NA)	303,334
1965	80	13,692	283,689	236,006	969,531	(NA)	757,352
1966	80	13,742	302,506	251,505	1,153,375	(NA)	957,163
1967	80	14,951	323,849	268,190	1,354,805	(NA)	1,271,406
1968	80	17,617	352,196	291,317	1,649,734	(NA)	1,561,184
1969	80	20,178	381,982	314,915	1,994,026	(NA)	1,948,391
1970	(NA)	(NA)	414,165	339,952	2,315,000	(NA)	2,300,000
1971	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Year	Telegraph messages to and from Hawaii	Commercial broadcast stations on the air ²			Daily newspaper circulation ³		
		AM	FM	TV	Advertiser	Star-Bulletin	Hawaii Tribune- Herald
1912	(NA)	—	—	—	3,210	4,262	(NA)
1920	(NA)	—	—	—	5,793	8,509	(NA)
1930	(NA)	2	—	—	12,308	20,618	(NA)
1940	336,537	4	—	—	23,078	37,079	4,674
1950	337,984	12	—	—	45,449	79,568	9,848
1960	499,331	17	1	7	64,719	104,107	9,884
1965	561,377	23	2	10	64,763	107,342	11,136
1966	589,386	24	2	10	68,351	110,735	11,447
1967	579,696	25	2	10	69,686	114,770	10,944
1968	463,985	25	3	10	73,799	118,529	11,645
1969	466,197	25	4	10	74,869	122,680	12,473
1970	(NA)	25	4	10	(NA)	(NA)	(NA)
1971	(NA)	25	4	10	(NA)	(NA)	(NA)

NA Not available.

¹The figure on telephones in operation refers to 1898.

²July 1, 1930 and 1940; June 7, 1950; January 1, 1960 forward. Excludes educational stations (1 FM and 2 TV in 1971).

³October 1, 1912 to 1940; October-December average, 1960 forward.

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 111.—POSTAL, TELEPHONE AND TELEGRAPH RATES AND NEWSPAPER PRICES
JULY 1, 1929 TO 1970**

Subject	1929 ¹	1940	1951	1960	1970
Postage rates²					
First-class letter	0.02	0.03	0.03	0.04	0.06
Air mail letter	—	0.25	0.06	0.07	0.10
Telephone rates:					
Local calls ³	0.05	0.05	0.05	0.10	0.10
Honolulu-Hilo ⁴	3.00	2.00	2.00	1.75	0.90
Honolulu-San Francisco ⁴ ..	21.00	9.00	7.50	6.00	3.90
Cable rate ⁵	0.20	0.12	0.19	0.21	0.21
Newspaper prices:					
Daily ⁶	0.05	0.05	0.05	0.10	0.10
Saturday ⁷	0.05	0.05	0.10	0.10	0.10
Sunday ⁸	0.10	0.10	0.15	0.15	0.25

¹Telephone rates refer to 1931.

²Between Hawaii and U.S. Mainland. Air mail letter rate for 1940 is per half ounce; all other rates listed are per ounce.

³From pay telephones in Honolulu. The present rate was established on December 30, 1952.

⁴Station to station, 3-minute daytime call. Excludes tax.

⁵Between Oahu and San Francisco, per full rate word. Minimum number of chargeable words in a full rate cablegram or radiogram was five in 1940 and 1951, seven in 1960 and thereafter (there was no minimum in 1929, although, as a practical matter, cablegrams must have at least three and probably four or five words).

⁶*Honolulu Advertiser*, Monday through Saturday; *Honolulu Star-Bulletin*, Monday through Friday.

⁷*Honolulu Star-Bulletin*.

⁸*Honolulu Advertiser*, 1929-1961; *Honolulu Star-Bulletin*, 1960 and 1961; *Honolulu Star-Bulletin and Advertiser*, 1962 and thereafter.

Source: Postmaster, U.S. Post Office, Honolulu; Public Relations Department, Hawaiian Telephone Company; Secretary, Federal Communications Commission; newspaper mastheads.

Table 112.—ELECTRICITY AND GAS SOLD, BY COUNTY: 1940 TO 1969

Subject	The State	City & County 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
Ave. ann. residential use (KWH):¹					
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):²					
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.

¹Based on number of customers at end of year.

²Either manufactured or bottled.

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

Table 113.—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	1,596	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.

SECTION 17

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, local public transit, civil aviation, and water traffic.

Most local travel in Hawaii is by private automobile. Motor vehicle registration increased from 72,000 in 1940 to 231,000 in 1960 and 404,000 in 1970. Vehicle miles rose during the same period from 716 million to 3.4 billion. By 1971, 503,500 licensed drivers had access to over 3,500 miles of streets and highways throughout the State. There was a corresponding decline in the use of local bus service: revenue passengers of the Honolulu Rapid Transit Company dropped from 93 million in 1944 to 23.7 million in 1970.

All scheduled interisland travel is now by air. As recently as 1941, interisland steamers carried 163,000 passengers, while the single airline then operating carried 49,000. In 1970, two scheduled airlines and a number of air taxis reported 3.0 million interisland passengers, triple their 1960 total.

Similar growth is evident in transpacific travel. Although surface passengers dropped from 95,000 in 1940 to 27,000 in 1970, air passengers increased during the same 29-year span from 639 to 5.2 million. Between 1936 and 1971, sharp declines occurred in both scheduled flight time between California and Hawaii (from 20 to 5 hours) and minimum round-trip fare (from \$712 to \$177). Overseas cargo reported received in the state now amounts to 27,000 tons by air and 7.8 million tons by ship.

Table 114.—MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES: 1900 TO 1970

Year and county	Motor vehicle registration ¹			Fuel consumption per vehicle (gal.)	Vehicle miles	
	Total	Passenger cars	Other vehicles ²		Total (millions)	Per vehicle
1900	4	—	—	—	—	—
1910	861	—	—	—	—	—
1922	15,336	—	—	—	—	—
1932	48,717	39,495	9,222	488	1,333.0	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
1970	404,463	358,255	46,208	602	3,408.7	8,428
COUNTIES: 1970						
Honolulu	318,553	287,656	30,897	598	2,668.7	8,377
Hawaii	39,548	32,059	7,489	640	354.6	8,965
Maui	28,230	23,545	4,685	590	233.3	8,263
Kauai	18,132	14,995	3,137	600	152.3	8,398

¹Taxable and non-taxable, exclusive of scooters and motorcycles (10,834 in 1970), trailers and semi-trailers (11,580), and military vehicles (not reported).

²Includes trucks (45,089 in 1970), buses (1,119).

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.

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: 1970*, Sections 21 and 22.

Table 115.—STREET AND HIGHWAY MILEAGE, 1970, AND DRIVERS LICENSES IN FORCE, 1971, BY ISLAND

Island	Mileage in public streets and highways, December 31, 1970	Drivers licenses in force (unduplicated), January 23, 1971
All islands	3,527.43	503,542
Hawaii	1,361.33	35,662
Maui	517.32	} 29,810
Lanai	62.47	
Molokai	89.03	
Oahu	1,192.25	420,675
Kauai	305.03	17,395

Source: Hawaii State Department of Transportation, Highways Division, records; City and County of Honolulu, Department of Information Systems, records.

Table 116.—MAJOR TRAFFIC ACCIDENTS, PERSONS INJURED, AND TRAFFIC DEATHS: 1920 TO 1970

Year	Major traffic accidents ¹	Persons injured in traffic accidents	Traffic deaths ²
1920	(NA)	(NA)	41
1930	(NA)	(NA)	86
1940	(NA)	(NA)	63
1950	6,599	2,112	61
1960	7,254	4,754	96
1965	9,495	7,493	99
1966	10,225	8,051	116
1967	11,529	8,707	138
1968	13,989	10,082	147
1969	16,174	10,603	133
1970	18,172	11,744	152

NA Not available.

¹Traffic accidents with damage of \$100 or more, or causing injury or death.

²Data for 1920, 1930 and 1940 include non-traffic motor vehicle deaths (such as those occurring on military bases or private property). Prior to 1966, the highest annual number of traffic deaths was 107 in 1945.

Source: Hawaii State Department of Transportation, Highways Division, *Major Traffic Accidents, Summary and Analysis* (annual) and records; Hawaii State Department of Health, records.

Table 117.—LICENSED BICYCLES, PRIVATE AIRCRAFT, AND UNDOCUMENTED STATE-REGISTERED VESSELS: 1970

Type of conveyance	Number
Licensed bicycles (Oahu only), 1970	28,749
Private airplanes, 1970	300
Active	180-190
Undocumented State-registered vessels, Dec. 31, 1970	8,042
Cabin motorboat	842
Open motorboat	3,301
Runabout	2,433
Sail/inboard	199
Sail/outboard	325
Sail only	907
Other	35
Under 16 feet	4,051
16 to less than 26 feet	3,333
26 to less than 40 feet	561
40 feet and over	97
Pleasure	7,439
Commercial fishing	319
Other uses	284
Oahu	6,049
Other islands	1,993
Moored on water	2,040
Stored on land	6,002

Source: Honolulu Police Department, Division of Licenses; Hawaii State Department of Transportation, Airports Division; and Harbors Division.

Table 118.—REVENUE PASSENGERS, BY MEANS OF TRANSPORTATION: 1860 TO 1970

Year	Bus or street car (Honolulu only) ¹	Steam railway ²		Ship		Airline	
		All railroads	Oahu Rwy. & Land Co.	Interisland ³	Transpacific ⁴	Interisland ⁵	Transpacific ⁶
1860	—	—	—	(NA)	1,348	—	—
1870	—	—	—	(NA)	2,495	—	—
1880	—	(NA)	—	(NA)	7,521	—	—
1890	(NA)	(NA)	36,352	(NA)	11,010	—	—
1900 ⁷	(NA)	(NA)	278,872	(NA)	41,788	—	—
1910 ⁸	8,979,874	694,793	617,719	62,236	29,178	—	—
1920 ⁹	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 ⁹	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 ⁹	18,301,341	—	—	—	52,876	2,117,557	2,735,151
1968	23,514,205	—	—	—	49,099	2,347,949	3,171,259
1969	24,079,233	—	—	—	45,428	2,724,622	3,806,147
1970	23,693,547	114,000	—	—	26,966	2,992,777	5,243,276

NA Not available.

¹Calendar 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.

²Calendar years, except for the year ended June 30, 1910. The Oahu Railway and Land Company, the only passenger railroad on Oahu, provided passenger service from 1890 to 1947. Other companies operated on the Neighbor Islands, offering passenger service from 1879 to 1946, and from May 1970 forward. Total track mileage in the State was 209 in 1910, 325 in 1920, 374 in 1930, 323 in 1940, 59 in 1950, and 6 in 1970.

³Years 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.

⁴Calendar years 1860-1899 and 1930; years ended June 30, 1911, 1920, and 1940-1970. 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 13,267 arrivals and 13,699 departures in 1970.

⁵Calendar years. Service began in 1929. Includes non-revenue passengers for 1970.

⁶Calendar years. Includes Hilo as well as Honolulu. Data for 1970 include non-revenue passengers. This series shows combined totals for arrivals, departures, and through passengers. In 1970 there were 2,190,809 arrivals, 2,158,577 departures, and 893,890 through passengers. Scheduled service started in Honolulu in 1936 and in Hilo in 1967.

⁷The transpacific ship total refers to calendar 1899.

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

⁹Passenger volumes affected by major strikes.

Source: Hawaii State Department of Planning and Economic Development, *Passenger Statistics of Hawaii* (Statistical Report 75, August 25, 1970), as updated.

Table 119.—AIR FARES AND FLIGHT TIMES FOR SPECIFIED INTERISLAND AND TRANSPACIFIC FLIGHTS: 1930 TO 1971

Year (as of Jan. 1)	Honolulu-Hilo by Hawaiian Airlines				Honolulu-San Francisco by Pan American World Airways			
	Aircraft	1-way fare ¹	Round trip fare ¹	Time ²	Aircraft	1-way fare ¹	Round trip fare ¹	Time ²
1930	S-38	30.00	60.00	1:40	—	—	—	—
1935	S-38	30.00	45.00	1:40	—	—	—	—
1940	S-43	23.00	41.40	1:25	B-314	278.00	556.00	17:30
1945	DC-3	20.70	37.26	1:20	B-314	319.70	575.00	17:30
1950	DC-3	15.53	31.05	1:20	B-377	184.00	331.20	9:25
1955	CV-340	16.50	33.00	1:02	B-377	137.50	275.00	9:25
1960	CV-340	19.36	38.72	1:02	B-707	133.08	266.16	4:55
1965	Viscount	20.10	40.19	0:53	B-707	100.03	200.06	4:55
1970	DC-9	25.20	50.40	0:42	B-707	85.03	170.05	4:55
1971	DC-9	26.00	52.00	0:42	B-747	88.28	176.56	4:55

¹Least expensive regular fare, including tax, in dollars.

²Average scheduled flight time in hours and minutes.

Source: Hawaii State Department of Planning and Economic Development, *Chronology of Transpacific and Interisland Airline Fares and Flight Times, 1929-1971* (memorandum, February 19, 1971).

Table 120—AIR CARGO AND AIR MAIL: 1950 TO 1970

Year	Overseas air cargo (1,000 lb.) ¹			Overseas air mail (1,000 lb.) ¹			Interisland (1,000 lb.) ²	
	Outgoing	Incoming	Through	Outgoing	Incoming	Through	Air cargo	Air mail
1950 ³	1,144	1,935	1,389	1,214	1,230	1,121	17,126	863
1960 ⁴	8,240	10,878	3,837	7,955	8,702	(NA)	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
1970	37,553	54,285	(NA)	21,362	18,109	(NA)	52,139	14,141

NA Not available.

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

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

³Year ended June 30.

⁴Year 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 121.—SHIP ARRIVALS AND GROSS TONNAGE, 1824 TO 1969, AND CARGO TONS, 1910 TO 1969

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

Year ended June 30	Overseas vessel arrivals ¹		Interisland vessel arrivals ¹		Overseas cargo (1,000 tons) ³		Interisland cargo (1,000 tons) ³	
	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	In	Out	In	Out
1901	559	853	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1910	373	1,239	(NA)	(NA)	(NA)	(NA)	414	414
1920	839	4,530	(NA)	(NA)	(NA)	(NA)	393	393
1930	903	7,607	1,365	1,638	(NA)	(NA)	355	355
1940	872	7,236	2,622	1,917	(NA)	(NA)	235	235
1950	861	7,281	2,210	1,059	2,520	2,046	617	589
1960	1,411	12,305	2,272	1,061	3,773	2,095	974	976
1961	1,518	12,699	2,460	1,143	4,830	2,496	1,170	1,173
1962	1,818	13,094	2,522	1,150	4,988	2,678	1,224	1,232
1963	1,799	12,487	2,550	1,119	4,566	2,603	1,240	1,219
1964	2,064	13,103	2,446	1,275	5,185	2,732	1,334	1,372
1965	1,948	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.

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

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

³State and private piers on all Islands. Data from 1910-1940 are limited to freight carried by Interisland Steam Navigation Co.

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

Table 122.—FREIGHT TRAFFIC FOR SPECIFIED HARBORS: 1968

(Short tons)

Harbor and commodity ¹	Total	Foreign		Coastwise		Internal receipts
		Imports	Exports	Receipts	Shipments	
Hilo	991,111	206	3,476	479,239	507,860	330
Sugar	290,558	—	—	1,665	288,893	—
Kawaihae	342,614	—	—	68,425	274,177	12
Kahului	957,198	21,835	16,126	377,486	541,593	158
Sugar	269,451	—	—	1,736	267,715	—
Kaunakakai	322,766	—	—	93,397	229,375	4
Barbers Point	2,472,532	1,717,360	—	742,467	12,705	—
Crude petroleum	1,794,056	1,717,360	—	76,696	—	—
Distillate fuel oil	277,794	—	—	277,794	—	—
Residual fuel oil	381,114	—	—	378,783	2,331	—
Honolulu ²	6,828,855	1,313,109	150,810	3,207,751	2,156,053	92
Fresh fruits, tree nuts	482,246	709	1,086	458,365	22,086	—
Prep. fruit, veg. juice	586,705	1,300	41,011	112,183	432,211	—
Gasoline	334,375	—	8,939	160,976	164,460	—
Kerosene	1,318,850	1,008,027	12,740	166,044	132,039	—
Distillate fuel oil	371,914	14	39,010	272,266	60,624	—
Nawiliwili	561,132	8,372	—	183,759	368,982	19
Sugar	268,616	—	—	1,080	267,536	—
Port Allen	129,189	(NA)	(NA)	(NA)	(NA)	(NA)
Kaumalapau	274,061	(NA)	(NA)	(NA)	(NA)	(NA)
Pearl Harbor	1,142,898	(NA)	(NA)	(NA)	(NA)	(NA)
Residual fuel oil	488,081	(NA)	(NA)	(NA)	(NA)	(NA)
Other Honolulu area ports	532,780	(NA)	(NA)	(NA)	(NA)	(NA)
Sand, gravel, crushed rock	518,350	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹Commodities under 250,000 short tons not shown separately.

²Total includes 1,040 short tons of local traffic.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1968, Part 4* (1970), pp. 54-71.

SECTION 18

AGRICULTURE

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

There were 4,600 farms in Hawaii as of 1969, with a total area of 2,350,000 acres. Both figures have declined appreciably during the past decade. The value of crop sales in 1969 was \$159 million, about 37 percent more than in 1960. Livestock sales amounted to \$40 million, or 19 percent more than the 1960 level. Combined crop and livestock sales ranged from \$28 million in Kauai County to \$59 million on the Big Island.

Major crops in 1969 were sugar (\$105 million in sales), pineapple (\$36 million), and vegetables and melons (\$6 million). Important products of livestock farms as of 1969 included cattle (\$12.9 million in sales), milk (\$12.8 million), and eggs (\$7.8 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: 1970*.

Table 123:—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 and 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.)	3,344	2,957	758	190	66	29	(NA)
Sugarcane (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 124.—NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES
1960 TO 1969**

Area and year	Number of farms	Area in farms ¹ (1,000 acres)	Value of sales (\$1,000)		
			Crops and livestock	Crops	Livestock
The State:					
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	186,542	150,849	35,693
1966	4,900	2,400	197,263	160,008	37,255
1967	4,800	2,360	200,457	162,606	37,851
1968	4,700	2,350	205,424	167,118	38,306
1969	4,600	2,350	199,274	159,313	39,961
Hawaii County:					
1960	3,600	1,521	39,219	31,224	7,995
1969	2,750	1,375	59,342	48,885	10,457
Kauai County:					
1960	600	315	21,169	18,734	2,435
1969	350	284	28,163	25,193	2,970
Maui County:					
1960	1,050	595	41,016	37,350	3,666
1969	650	538	53,912	49,141	4,771
Oahu:					
1960	1,350	169	48,455	29,030	19,425
1969	850	156	57,857	36,094	21,763

¹Includes land not in crop and pasture, such as farm houselots, roads, woodlots, etc.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture 1969* (U.S. Department of Agriculture, in cooperation with Hawaii State Department of Agriculture, July 1970).

Table 125.—ACREAGE IN CROP AND PASTURE, NUMBER OF FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY CROP: 1960 TO 1969

Subject	The State		Counties, 1969			
	1960	1969	Hawaii	Kauai	Maui	Honolulu
Acreage (1,000 acres):						
Sugarcane	224.6	241.4	106.9	52.0	44.9	37.6
Pineapple	75.0	64.0	—	2.5	43.5	18.5
Vegetables and melons	3.4	2.9	1.0	0.1	0.7	1.1
Fruits (excl. pineapple)	2.6	3.5	2.2	0.3	0.4	0.6
Coffee	5.5	4.3	4.3	—	—	—
Macadamia nuts	3.8	8.7	8.6	—	0.1	—
Pasture	1,250	1,286	796	127	324	39
Number of crop farms:						
Sugar	988	753	738	7	3	5
Pineapple	135	59	—	27	30	2
Vegetables and melons	773	501	108	59	103	231
Fruits (excl. pineapple)	651	501	178	85	83	155
Coffee	1,128	770	770	—	—	—
Macadamia nuts	215	247	238	6	2	1
Taro	233	115	25	37	45	8
Volume of crop marketings:¹						
Sugar (unprocessed cane)	8,613	10,839	4,623	2,321	2,186	1,709
Pineapple (fresh equivalent)	884	864	—	(NA)	(NA)	(NA)
Vegetables and melons	48,475	48,700	17,515	1,985	14,600	14,625
Fruits (excl. pineapple)	24,190	38,027	20,295	1,745	1,540	4,545
Coffee (parchment)	13,272	5,500	5,500	—	—	—
Macadamia nuts (in shell)	2,569	10,470	10,373	56	—	41
Taro	9,675	8,605	2,035	4,690	1,665	215
Value of crop sales (\$1,000):						
Sugar (unprocessed cane)	67,200	104,900	38,900	22,800	23,900	19,300
Pineapple (fresh equivalent)	36,100	36,000	—	1,400	22,400	12,200
Vegetables and melons	4,611	6,165	2,162	347	1,368	2,288
Fruits (excl. pineapple)	1,400	3,414	2,412	199	336	467
Coffee (parchment)	3,202	1,524	1,524	—	—	—
Macadamia nuts (in shell)	472	2,282	2,261	—	—	—
Others ²	3,353	5,028	1,626	426	21	1,839

NA Not available.

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

²Chiefly flowers, foliage and nursery products (\$3,305,000 in 1969).

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture 1969* (U.S. Department of Agriculture, in cooperation with the Hawaii State Department of Agriculture, July 1970).

**Table 126.—NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY PRODUCT: 1960 TO 1969**

Subject	The State		Counties, 1969			
	1960	1969	Hawaii	Kauai	Maui	Oahu
Number of livestock farms:						
Cattle	1,820	1,480	610	220	390	260
Hogs	1,760	900	300	70	220	310
Milk	260	140	45	15	40	40
Eggs	900	370	150	30	100	90
Broilers	39	36	4	4	3	25
Honey	48	25		7	5	13
Volume of livestock marketings:						
Beef (1,000 lb. dressed weight)	25,001	31,364	18,372	2,941	7,151	2,900
Pork (1,000 lb. dressed weight)	8,831	9,227	1,211	410	988	6,618
Milk (million pounds)	120	131	8.6	4.6	7.4	110.5
Eggs (million eggs)	138	199	32.5	9.3	12.2	145.2
Broilers and chickens						
(1,000 lb. live weight)	6,592	7,390	563	367	298	6,162
Honey, beeswax (1,000 lb.)	285	382		217.0	128.2	37.0
Value of livestock sales (\$1,000):						
Cattle	9,837	12,854	7,506	1,196	3,052	1,100
Hogs	3,684	4,404	557	222	503	3,122
Milk	10,635	12,752	769	470	1,098	10,415
Eggs	6,911	7,794	1,385		964	5,445
Broilers and chickens	2,347	2,042	170	118	98	1,656
Others	107	115		70	20	25

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture, 1969* (U.S. Department of Agriculture, in cooperation with Hawaii State Department of Agriculture, July 1970).

Table 127.—FLOWERS, FOLIAGE, AND NURSERY PRODUCTS: 1969

County	Number of farms	Growing area (acres)	Wholesale value (\$1,000)	Commodity	Wholesale value (\$1,000)
The State	422	718.9	3,305.0	Cut flowers and foliage	2,404.0
				Anthuriums	680.0
				Orchids	513.5
Hawaii	250	354.9	1,152.0	Carnations	391.0
Kauai	12	11.8	37.0	Other cut flowers, foliage	819.5
Maui	53	89.8	493.0	Potted plants	520.0
Honolulu	107	262.4	1,623.0	Other products	381.0

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture 1969* (U.S. Department of Agriculture, in cooperation with Hawaii State Department of Agriculture, July 1970).

SECTION 19

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.1 million acres of commercial forest in the State, most of it on the Big Island. Over 46,000 acres have been planted in eucalyptus and other species of trees by 1970. The volume of sawtimber reported in 1968 was 789 million board feet. Primary forest products harvested in 1969 had a value of \$281,000.

The commercial fish catch in 1970 exceeded 9.7 million pounds and had a value of \$3.6 million. *Aku* (Skipjack) accounted for almost a third of the total value.

The value of mineral production reached \$30 million in 1970, 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: 1970*, Sections 24, 25 and 26.

**Table 128.—AREA OF FOREST LAND, 1961, AND PLANTED FOREST, 1970
AND VOLUME OF SAWTIMBER, 1968, BY ISLAND**

Island	Forest land area, 1961 (1,000 acres)		Area of planted forest, to 1970 (acres) ³	Volume of sawtimber, 1968 (1,000 board feet) ⁴
	Total ¹	Commercial ²		
State total	1,981.6	1,088.9	46,469	788,931
Niihau	28.0	—	—	—
Kauai	223.0	136.7	4,736	37,316
Oahu	210.6	97.1	7,138	49,652
Molokai	82.9	23.6	2,732	4,204
Lanai	28.2	2.1	512	2,920
Kahoolawe	11.7	—	—	—
Maui	263.6	120.4	10,299	105,560
Hawaii	1,133.6	709.0	21,052	589,279

¹Includes commercial (1,088.9), unproductive (807.3), and productive-reserved (85.4).

²Includes Federal military (8.6), State (487.3), County (0.4), farmer-owned (365.9), and miscellaneous private (266.7).

³Chiefly Robusta Eucalyptus, other Eucalyptus, other hardwoods, and conifers.

⁴Includes Ohia (377,555), Koa (120,908), Eucalyptus (252,648), other hardwoods (19,778), and conifers (18,042).

Source: Hawaii State Department of Land and Natural Resources, Forestry Division, *Facts About Hawaii's Forests* (1969), and records.

Table 129.—PRIMARY FORESTRY PRODUCTS HARVESTED: 1958 TO 1969

Subject	Total	Sawlogs	Craftwood	Fuelwood	Posts	Treefern
Production:¹						
1958	—	405	510	1,300	65	100
1963	—	913		847	22	118
1967	—	3,925	196	720	7.1	143.5
1969	—	1,650	422	1,720	10	55
Value (\$1,000):						
1958	269	40	121	19	54	35
1963	230	149		19	23	39
1967	334	161	58	28	12	75
1969	281	86	98	54	16	27

¹Sawlogs and craftwood in 1,000 board feet, fuelwood in cords, posts in 1,000 pieces, and treefern in 1,000 cubic feet.

Source: U.S. Department of Agriculture, Pacific Southwest Forest and Range Experiment Station, *Forest Products Harvested in Hawaii—1967*, Res. Note PSW-179, and *Forest Products Harvested in Hawaii—1969*, forthcoming.

Table 130.—COMMERCIAL FISH LANDINGS: 1926 TO 1970

Subject ¹	Pounds	Value (dollars)	Value per lb. (cents)
1926 ²	8,784,004	(NA)	(NA)
1930	9,252,926	1,076,452	11.6
1940	19,403,249	1,468,688	7.6
1950	14,904,681	3,547,608	23.8
1960	14,266,795	2,994,033	21.0
1961	13,730,912	2,898,380	21.1
1962	13,931,171	2,873,274	20.6
1963	10,879,389	2,566,045	23.6
1964	12,099,123	2,738,323	22.6
1965	17,192,431	3,355,553	19.5
1966	15,987,978	3,319,917	20.8
1967	12,354,658	3,147,566	25.5
1968	12,829,326	3,253,622	25.4
1969	11,096,116	3,378,553	30.4
1970	9,786,726	3,584,936	36.6
ISLANDS: 1970			
Hawaii	768,848	310,778	40.4
Maui	749,897	179,566	23.9
Lanai	13,131	5,823	44.3
Molokai	13,397	6,598	49.2
Oahu	7,935,323	2,976,094	37.5
Kauai	306,130	106,077	34.7
SPECIES: 1970 ³			
Sea catch	9,766,983	3,574,521	36.6
Aku (Skipjack)	5,704,127	1,149,566	20.2
Ahi (Bigeye)	729,672	683,370	93.7
Akule	696,692	253,369	36.4
Ahi (Yellowfin)	586,574	361,113	61.6
Stripe Marlin	330,275	212,670	64.4
Hahalalu	271,953	101,982	37.5
Opelu	184,271	94,195	51.1
Pacific Blue Marlin	150,306	52,117	34.7
Ulua	93,203	42,901	46.0
Kahala	86,165	30,085	34.9
Mahimahi	73,876	60,409	81.8
Opakapaka	72,730	48,813	67.1
Uku	50,673	27,964	55.2
Other species	736,466	455,967	61.9
Pond catch	19,743	10,415	52.8

NA Not available.

¹Years ended June 30, except for calendar year 1940.

²Earliest year available.

³Shown separately for all species over 50,000 pounds in 1970. Value per pound ranged from 6.8¢ for *pui* (eel) and 14.7¢ for *kala* to \$1.47 for *ulaula koae* (onaga) and \$1.59 for *opae* (shrimp).

Source: *Report of the Fish and Game Commission... 1927*, p. 4; *Report of the Board of Commissioners of Agriculture and Forestry* for 1930 (p. 109), 1940 (p. 42), and 1950 (p. 56); *Report of the Department of Agriculture and Conservation* for 1960 (p. 113) and 1961 (p. 117); *Annual Report to the Governor, Department of Land and Natural Resources* for 1962 (p. 23), 1962-1964 (pp. 27 and 33), 1964-1966 (p. 41), 1966-1967 (p. 47), 1967-1968 (p. 44), 1968-1969 (p. 42), and 1969-1970 (p. 44). Data for 1940, 1960 and 1961 have been revised.

Table 131.—MINERAL OPERATIONS: 1909 TO 1970

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 ¹	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 ²	Stone ³
1970 (est.)	30,113	10,517	15,995	3,601	2,126	6,600
1969	29,539	10,544	16,059	2,936	2,075	6,534
1968	23,225	9,254	11,273	2,649	1,841	5,211

NA Not available.

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

²Thousand 376-pound barrels.

³Thousand 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 1970," *Mineral Industry Surveys*, December 1970.

SECTION 20

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing, and residential financing.

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 \$880 million in 1970. Mortgage loans outstanding as of the end of 1969 amounted to \$1.6 billion, or more than 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 203,000 in 1970. Owner occupied units numbered 32,000 in 1950 and 89,000 in 1970; the latter total included 68,000 on land owned in fee and almost 21,000 on leased land. Military and public housing accounted for 19,500 units as of 1970.

Housing was in short supply throughout most of the past decade: on Oahu, the 1970 vacancy rate was only 3.1 percent, although 29 percent of all units turned over at least once during the previous year. Median monthly rent for the State rose from \$64 in 1960 to \$120 in 1970, and the Oahu rent-income ratio increased from 16.9 percent in 1958 to 23.8 in 1969. The average property value of homes insured by the Federal Housing Administration in Hawaii was \$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: 1970*.

Table 132.—ESTIMATED VALUE OF BUILDING PERMITS, FOR THE CITY AND COUNTY OF HONOLULU: 1912 TO 1970

Calendar year	Estimated value (\$1,000)	Calendar year	Estimated value (\$1,000)	
			All permits	New housing ¹
1912	2,400	1940	10,845	6,510
1913	1,675	1941	11,874	6,911
1914	1,275	1942	2,684	235
1915	1,450	1943	3,374	827
1916	2,350	1944	9,491	4,283
1917	2,090	1945	11,818	6,068
1918	1,500	1946	23,021	9,592
1919	4,400	1947	35,026	19,767
1920	3,403	1948	46,047	24,595
1921	5,081	1949	30,003	12,305
1922	6,222	1950	46,692	25,664
1923	5,866	1951	42,633	29,119
1924	5,643	1952	42,164	31,089
1925	8,611	1953	45,768	28,453
1926	5,733	1954	49,373	27,227
1927	6,398	1955	62,245	35,780
1928	6,750	1956	65,623	33,450
1929	7,254	1957	78,303	42,434
1930	5,921	1958	99,144	48,444
1931	3,622	1959	129,020	80,585
1932	2,423	1960	164,098	78,463
1933	1,408	1961	135,900	59,815
1934	1,717	1962	179,229	94,424
1935	3,064	1963	137,888	71,169
1936	4,940	1964	145,873	77,156
1937	7,266	1965	219,294	122,603
1938	9,584	1966	255,176	138,183
1939	10,142	1967	210,408	92,325
		1968	345,600	164,941
		1969	412,594	195,963
		1970	386,687	170,983

¹New one-family, two-family, or multi-family dwellings. Excludes hotels.

Source: City and County of Honolulu, Department of Buildings, *Report of Building Activities* for 1931 and 1935, *Summary of Building Permits* (annual report, 1951-1970), and records; Chamber of Commerce of Honolulu, *Business Statistics... 1922-1936* and *General Information About Honolulu, Hawaii, U.S.A.* for 1928-1938 (p. 31) and 1938-1942 (p. 39).

Table 133.—PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMIT, BY COUNTY: 1965 TO 1970.

Category and year authorized	The State	Hawaii County	Honolulu County	Kauai County	Maui County
New 1-family dwellings:					
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
1970	(NA)	796	3,802	320	(NA)
Units in new 2-family structures:					
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
1970	(NA)	6	212	6	(NA)
New apartments:					
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
1970	(NA)	389	3,953	67	(NA)
Demolition and conversion:					
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
1970	(NA)	(NA)	-642	-112	(NA)

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

Table 134.—CONSTRUCTION AUTHORIZED, BY CATEGORY, BY COUNTY: JULY 1, 1968 TO JUNE 30, 1969

Type of construction	All counties		Honolulu		Hawaii		Kauai		Maui	
	Projects	Value (dollars)	Projects	Value (dollars)	Projects	Value (dollars)	Projects	Value (dollars)	Projects	Value (dollars)
All types	21,045	552,682,433	15,981	454,834,018	3,308	45,934,293	456	19,903,328	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
Addns, 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 135.—CONSTRUCTION COST INDEX, BUILDING PERMIT VALUE PER HOUSING UNIT, REAL ESTATE MORTGAGE LOANS OUTSTANDING, AND VALUE OF LAND TRANSFERS: 1949 TO 1970

Year	Construction cost index, ann. ave. (1950-54 ave.=100)	Oahu building permit value per unit (dollars)		Mortgage loans outstanding, Dec. 31 (\$1,000)	Value of land transfers (\$1,000) ¹	
		Single family	Apartment units		State	Oahu
1949	90.3	7,426		106,076	—	—
1959	138.0	10,601	8,381	443,465	—	—
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	16,752	1,579,560	809,415	596,427
1970	221.6	20,204	22,521	(NA)	880,196	668,003

NA Not available.

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

Source: *Builders Report Pacific*, January 13, 1969; First Hawaiian Bank, records; Honolulu Redevelopment Agency, *Redevelopment and Housing Research*, No. 19, June 1961, p. 27, and Supplemental Research Notes for January 1971, p. 9; Bank of Hawaii, *Construction in Hawaii 1970*, p. 32; City and County of Honolulu, Department of Buildings, *Summary of Building Permits* (annual) and records; Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 136.—CHARACTERISTICS OF CONSTRUCTION INDUSTRIES: 1967

Payroll and activity classification	Number of establishments	Number of proprietors and working partners	All employees (average)	Total receipts (\$1,000)
Construction industries, total	1,927	1,392	17,171	558,526
With payroll	1,220	718	17,171	543,304
Without payroll	707	674	—	15,222
General building contractors	543	351	6,802	286,422
Heavy construction contractors	92	30	2,606	65,697
Special trade contractors	1,123	922	7,036	156,727
Subdividers and developers and operative builders	169	89	727	49,680

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1967. Area Statistics. Hawaii, CC67-A-13*, table 1.

Table 137.—OCCUPIED HOUSING UNITS AND POPULATION PER UNIT: 1890 TO 1970

Year	Occupied housing units ¹				Population		Population per occupied unit ²
	Total	Owner occupied		Renter occupied	In housing units	In group quarters	
		Number	Percent				
1890	12,023	(NA)	(NA)	(NA)	60,703	29,287	5.05
1896	14,026	5,966	42.5	8,060	71,809	37,211	5.12
1900	29,763	6,321	23.1	21,086	110,306	43,695	3.71
1910	52,219	6,776	13.1	44,900	191,909		(NA)
1920	65,670	8,695	13.4	56,386	255,912		(NA)
1930	77,070	14,624	19.1	61,807	368,336		(NA)
1940	86,855	22,030	25.4	64,825	423,330		(NA)
1950	112,290	37,025	33.0	75,265	463,230	36,564	4.14
1960	153,064	62,937	41.1	90,127	592,807	39,965	3.87
1970	203,088	95,271	46.9	107,817	730,095	38,466	3.59

NA Not available.

¹Termed "private residences" in 1890 and 1896, "families" in 1900-1930, "occupied dwelling units" in 1940 and 1950, and "occupied housing units" in 1960 and 1970. Data for 1890 and 1896 exclude plantation quarters. Data for 1910-1930 include group quarters as separate units. Units with tenure unreported numbered 2,356 in 1900, 543 in 1910, 589 in 1920, and 639 in 1930.

²Based on population in housing units. Total population per occupied unit was 7.48 in 1890, 7.77 in 1896, 4.17 in 1900, 3.68 in 1910, 3.90 in 1920, 4.78 in 1930, 4.87 in 1940, 4.47 in 1950, 4.13 in 1960, and 3.78 in 1970.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 78, 124, 129; *U.S. Census of Housing: 1970 HC(VI)-13*.

Table 138.—HOUSING CHARACTERISTICS: 1940 TO 1970

Year and county	All housing units	Population per occ. unit	Percent vacant ¹		Median number of rooms ¹	Percent in one-unit structures ¹
			For rent or sale	Other		
1940, all Counties	90,830	(NA)	4.4		4.2	78.9
1950, all Counties	120,606	4.1	2.4	4.2	4.3	71.9
1960, all Counties	165,506	3.9	2.7	4.8	4.5	74.2
1970, all Counties	216,085	3.6	2.9	3.0	4.6	65.0
City & County of Honolulu	174,170	3.6	3.1	2.3	4.5	59.0
Hawaii County	18,972	3.6	2.5	6.3	4.8	88.4
Kauai County	9,021	3.5	2.3	5.5	4.8	91.0
Maui County	13,922	3.5	1.7	6.1	4.8	91.6

Year and county	Percent lacking some or all plumbing ¹	Occupied housing units			Owner occupied: median value ² (\$)	Renter occupied: median rent ³ (\$)
		Number	Percent owner occupied	Percent 1.01 or more persons per room		
1940, all Counties	(NA)	86,855	25.4	38.4	2,540	17
1950, all Counties	38.8	112,290	33.0	30.8	12,283	32
1960, all Counties	(NA)	153,064	41.1	25.7	20,900	64
1970, all Counties	5.6	203,088	46.9	19.9	35,100	120
City & County of Honolulu	3.3	164,763	45.0	19.9	38,100	130
Hawaii County	16.3	17,260	56.9	20.4	25,000	56
Kauai County	15.2	8,282	45.7	20.1	26,300	40-
Maui County	13.1	12,783	58.5	19.1	23,500	46

NA Not available.

¹Data for 1970 limited to year-round housing units (215,897 for the State).

²Value of land and building combined. Except for 1940, excludes units in multi-unit structures. Data for 1950 exclude units on leased land.

³Contract monthly rent, excluding rent free units.

Source: *U.S. Census of Housing: 1940, Hawaii*; *U.S. Census of Housing: 1950*, Bulletin H-A52; *U.S. Census of Housing: 1960*, Final Report HC(1)-13; *U.S. Census of Housing: 1970*, HC(V1)-13.

Table 139.—CONTROL OF HOUSING: 1950 TO 1970

Control	April 1, 1950	April 1, 1960	April 1, 1970, by county				
			The State	Honolulu	Hawaii	Kauai	Maui ¹
All units	120,606	165,506	216,085	174,170	18,972	9,021	13,922
Private ²	108,899	148,850	196,547	155,817	18,405	8,801	13,524
Owner occ., fee ³	30,373	49,798	68,422	48,263	9,298	3,509	7,352
Owner occ., lease ³	1,502	6,247	20,802	20,409	249	74	70
Renter occ. or vac. ²	77,024	92,805	107,323	87,145	8,858	5,218	6,102
Federal	7,231	12,115	13,641	13,602	20	4	15
Air Force	1,501	2,085	2,523	2,523	—	—	—
Army	1,289	2,922	3,563	3,551	12	—	—
Navy	4,441	7,089	7,354	7,354	—	—	—
Other	—	19	201	174	8	4	15
State	4,476	4,541	5,897	4,751	547	216	383
Public ⁴	4,438	4,385	4,979	4,324	350	114	191
Other	38	156	918	427	197	102	192

¹Includes Kalawao County (Kalaupapa Settlement, 117 State units).

²Data for 1950 and 1960 include approximately 500 teachers cottages operated by the counties. Data for 1970 include 1,191 privately owned units leased by the Air Force, Navy, and Hawaii Housing Authority.

³Based on number of taxpayers claiming home exemptions. Totals based on this source are somewhat lower than corresponding U.S. Census figures, in part because of eligibility restrictions.

⁴Units operated by the Hawaii Housing Authority, exclusive of teachers cottages and leased from private owners.

Source: Total inventory from *U.S. Census of Housing, 1950-1970*. Owner occupied units from Hawaii State Department of Taxation, records. Federal and State housing from Honolulu Redevelopment Agency, *Redevelopment and Housing Research*, No. 15 (May 1959), p. 51; No. 18 (October 1960), p. 7; and No. 30 (July 1970), p. 6.

Table 140.—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	1.18	—
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, *FHA Homes, Data for States and Selected Areas. On Characteristics of FHA Homes under Section 203* (annual).

SECTION 21

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy.

The number of manufacturing establishments in Hawaii increased from 222 in 1899 to 474 in 1939 and 697 in 1967, and the value added by manufacture rose from \$11 million to \$58 million to \$236 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 1960 and 1970, the general excise and use tax base increased 77 percent for sugar processing, 18 percent for pineapple canning, and 96 percent for all other manufacturing.

Sources for data on this subject include the United States Census of Manufacturers, 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: 1970*.

Table 141.—MANUFACTURING: 1899 TO 1967

Year ¹	Establishments		All employees		Production workers			Value added by manufacture, adjusted (\$1,000)	Capital expenditures, new (\$1,000)
	Total	With 20 employees or more	Total	Payroll (\$1,000)	Total	Man-hours (1,000)	Wages (\$1,000)		
1967	697	215	25,400	139,600	19,000	35,900	86,900	326,200	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.

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

Source: U.S. Bureau of the Census, *Census of Manufacturers, 1963. Area Statistics: Hawaii*, MC 63(3)-12, table 2, and *Census of Manufacturers, 1967. Area Series: Hawaii*, MC67(3)-12, table 2.

Table 142.—MANUFACTURING, BY INDUSTRY AND COUNTY: 1967

County and industry	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Capital expenditures, 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	694	215	25.4	139.6	19.0	35.9	86.9	326.2	26.0
Counties:									
Hawaii	72	22	1.9	11.6	1.5	3.1	8.2	34.4	4.2
Honolulu	550	170	19.5	107.6	14.4	26.9	64.4	252.2	18.0
Kauai	26	10	1.2	6.6	1.0	2.0	4.6	20.6	1.4
Maui	49	13	2.8	13.9	2.2	3.9	9.8	19.0	2.3
Industries:									
Canned fruits and vegetables	18	8	6.8	26.8	6.1	11.1	20.8	67.2	3.4
Raw cane sugar	23	23	3.8	24.4	2.7	5.7	16.3	71.3	10.5
Other food and kindred products	176	48	3.6	20.3	2.3	4.2	10.2	46.9	3.9
Apparel, other textile products	96	41	2.5	9.9	2.2	4.0	7.4	16.3	(D)
Printing and publishing	81	20	2.0	13.0	1.2	2.1	7.4	27.0	1.3
Stone, clay, and glass products	43	14	1.1	8.3	0.8	1.6	5.4	18.4	1.8
Other manufacturing industries	260	61	5.6	36.9	3.7	7.2	19.4	79.1	5.1

D Included with "other manufacturing industries."

Source: U.S. Bureau of the Census, *Census of Manufactures, 1967. Area Series: Hawaii*, MC67(3)-12, tables 4 and 5.

Table 143.—GENERAL EXCISE AND USE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1958 TO 1970

Year	Sugar processing (\$1,000)	Pineapple canning (\$1,000)	Manufacturing (\$1,000)
1958	67,358	107,300	103,867
1959	113,865	98,957	129,123
1960	99,079	96,939	145,739
1961	118,398	93,777	168,514
1962	135,328	99,143	158,157
1963	146,761	99,353	170,501
1964	148,103	109,808	178,830
1965	152,701	123,761	188,741
1966	178,909	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
1970	175,337	114,634	285,251

Source: Hawaii State Department of Taxation, annual releases.

Table 144.—PINEAPPLE PRODUCTION: 1903 TO 1970

Year ¹	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	21,479,449	12,923,553	8,555,896	—
1950	25,183,903	14,073,323	11,110,580	—
1960	28,136,990	17,286,739	10,850,251	840,508
1961	30,035,864	18,461,912	11,573,952	723,619
1962	29,880,482	18,121,674	11,758,808	449,715
1963	30,395,233	18,457,107	11,938,126	728,075
1964	28,794,589	17,644,797	11,149,792	1,184,964
1965	26,728,812	16,301,014	10,427,798	1,041,084
1966	29,714,443	17,833,405	11,881,038	1,129,046
1967	30,327,598	19,004,793	11,322,805	1,211,166
1968	28,035,755	17,241,338	10,794,417	679,735
1969	28,659,533	17,729,546	10,929,987	1,011,512
1970	28,784,396	16,970,762	11,813,634	731,294

¹Calendar years, 1903-1930; fiscal or pack years ended May 31, 1940 and thereafter.

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

Table 145.—SUGAR PRODUCTION: 1837 TO 1970

Year	Total cane land (acres)	Sugar produced (96° raw value, short tons)	Average yield per acre (short tons)	Ave. N.Y. raw sugar price cwt. (dollars)	Ave. daily cash wage, non-superv. employees (dollars)	Man-hours per ton of sugar
1837	—	2	—	—	—	—
1840	—	180	—	—	—	—
1850	—	375	—	—	—	—
1860	—	572	—	—	—	—
1870	—	9,392	—	—	—	—
1880	—	31,792	—	—	—	—
1890	—	129,899	—	—	—	—
1900	—	289,544	—	—	—	—
1909-1910 ¹	209,469	529,940	37.4	—	—	—
1919-1920 ¹	247,838	560,379	39.2	—	—	—
1929-1930 ¹	242,761	939,287	58.7	—	—	—
1940	235,110	976,677	62.7	2.78	2.18	—
1950	220,383	960,961	74.7	5.93	8.30	25.86
1960	224,617	935,744	83.15	6.31	13.18	16.72
1961	227,027	1,092,481	88.58	6.30	14.11	13.90
1962	228,926	1,120,011	90.36	6.45	14.96	13.76
1963	231,321	1,100,768	93.39	8.20	16.68	13.56
1964	233,145	1,178,770	94.76	6.90	17.60	11.76
1965	235,576	1,217,667	97.97	6.75	18.40	10.82
1966	237,499	1,234,121	98.82	6.99	19.76	10.50
1967	239,813	1,191,042	98.74	7.28	21.35	10.88
1968	242,476	1,232,182	99.36	7.52	21.62	10.52
1969	242,216	1,182,414	95.73	7.75	23.26	(NA)
1970	(NA)	1,162,025	(NA)	(NA)	(NA)	(NA)

¹Year ending September 30.

Source: U.S. Bureau of Labor Statistics, *Labor in the Territory of Hawaii, 1939* (1940), p. 12; Hawaiian Sugar Planters' Association, *HSPA Sugar Manual* [1970], pp. 6-9, and records.

SECTION 22

DISTRIBUTION AND SERVICES

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

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

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: 1970*, Section 29, presents similar data for the nation as a whole.

**Table 146.—RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES,
FOR HAWAII: 1939 TO 1967**

(Coverage varies somewhat from year to year)

Year	Retail trade		Wholesale trade		Selected services ¹	
	Establishments	Sales (\$1,000)	Establishments	Sales (\$1,000)	Establishments	Receipts (\$1,000)
1939	4,256	120,681	704	97,045	2,186	15,340
1948	4,881	382,680	702	480,734	2,337	44,617
1954	4,807	426,115	594	581,940	2,595	64,726
1958	4,760	521,877	793	618,155	3,070	101,142
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	294,828

¹Includes hotels; personal services; miscellaneous business services; automobile repair, services, and garages; miscellaneous repair services; and motion pictures and other amusement and recreation services.

Source: U.S. Bureau of the Census, *U.S. Census of Business: 1948*, 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 147.—RETAIL TRADE, BY GEOGRAPHIC AREA AND KIND OF BUSINESS: 1967

Subject	Number of establishments	Sales (\$1,000)	Proprietors	Payroll, entire year (\$1,000)	Paid employees, March 12
Total ¹	5,212	1,083,458	4,408	147,608	41,347
GEOGRAPHIC AREA					
City and County of Honolulu	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

¹Excludes 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 148.—RETAIL TRADE FOR MAJOR RETAIL CENTERS ON OAHU: 1948 TO 1967

Retail center	Sales (\$1,000)			Percent distribution		
	1948	1958	1967	1948	1958	1967
Oahu	285,710	415,471	884,069	100.0	100.0	100.0
Honolulu ¹	249,850	346,094	720,371	87.4	83.3	81.5
Central business district	71,648	64,059	55,138	25.1	15.4	6.2
Waikiki	14,824	31,881	84,005	5.2	7.7	9.5
Ala Moana Center	—	—	122,051	—	—	13.8
Waiialae-Kahala	—	4,152	15,984	—	1.0	1.8
Kapalama	(NA)	(NA)	23,896	(NA)	(NA)	2.7
Remainder of Oahu ¹	35,860	69,377	163,698	12.6	16.7	18.5
Kailua Shopping Center ...	(NA)	8,835	22,769	(NA)	2.1	2.6
Wahiawa Shopping Center .	(NA)	(NA)	18,883	(NA)	(NA)	2.1

NA Not available.

¹Includes areas not shown separately.

Source: Honolulu Redevelopment Agency, *Redevelopment and Housing Research*, No. 7, January 1957, pp. 25-26; U.S. Bureau of the Census, *U.S. Census of Business, 1958*, BC58-CBD36, and *U.S. Census of Business, 1967*, BC67-MRC-12.

Table 149.—MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS: 1967

Merchandise line	The State		Oahu	
	Establishments	Sales (\$1,000)	Establishments	Sales (\$1,000)
All lines	3,537	1,041,540	2,644	869,784
Groceries, other foods	807	217,420	540	166,248
Meals, snacks	1,047	107,012	815	96,349
Alcoholic drinks	454	35,627	350	32,782
Packaged alcoholic beverages	392	22,913	244	18,700
Cigars, cigarettes, tobacco	613	14,601	406	11,862
Cosmetics, drugs, cleaners	501	42,223	317	37,655
Men's, boys' clothing, exc. footwear	382	39,779	227	34,507
Women's, girls' clothing, exc. footwear	493	75,472	317	67,150
All footwear	286	17,719	187	15,746
Curtains, draperies, dry goods	252	23,298	133	19,878
Major appl., radio, TV, musical inst.	264	35,400	172	30,177
Furniture, sleep equip., floor cov.	164	19,978	105	17,323
Kitchenware, home furnishings	306	15,728	196	14,090
Jewelry, optical goods	323	17,195	221	15,241
Sporting, recreation equipment	176	9,577	112	8,587
Hardware, gardening equipment	251	11,890	132	9,365
Lumber, building materials	129	15,515	72	8,175
Automobiles, trucks	100	128,359	72	106,807
Auto fuels, lubricants	477	57,175	337	47,018
Auto tires, batteries, access.	479	28,426	354	21,789
Farm equipment machinery	16	1,766	6	1,462
Hay, grain, feed, farm supplies	103	7,278	36	4,952
All other merchandise	764	57,334	519	49,484
Nonmerchandise receipts	1,074	39,479	828	34,188
Miscellaneous merchandise	—	376	—	248

Source: U.S. Bureau of the Census, *Census of Business, 1967. Retail Trade. Merchandise Line Sales. Hawaii*, BC67-MLS-13, pp. 3 and 12.

**Table 150.—WHOLESALE TRADE, BY GEOGRAPHIC AREA, TYPE OF OPERATION,
AND KIND OF BUSINESS, FOR HAWAII: 1967**

Subject	Establish- ments	Sales (\$1,000)	Payroll, entire year (\$1,000)	Paid employees, 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	—	—	—
Mdse. agents, brokers	82	144,500	—	—	—
Other operating types	76	130,485	—	—	—
KIND OF BUSINESS					
Motor vehicles, automotive equipment	70	62,804	5,381	914	19
Groceries, related products	232	244,888	11,876	2,283	88
Electrical goods	62	84,760	6,494	1,031	12
Machinery, equip., supplies	159	86,835	13,439	2,004	41
Petroleum bulk terminals	43	118,063	2,374	335	3
Lumber and construction materials	34	57,366	4,841	839	9
Other products	430	359,097	31,649	5,036	139

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

Table 151.—SELECTED SERVICES, BY GEOGRAPHIC AREA AND KIND OF BUSINESS: 1967

Subject	Establishments	Receipts (\$1,000)	Proprietors	Payroll, entire year (\$1,000)	Paid employees, March 12
Total	4,057	294,828	2,784	88,024	22,004
GEOGRAPHIC AREA					
City and Co. of Honolulu	3,208	236,858	2,141	71,587	17,362
City of Honolulu	2,454	218,623	1,530	67,124	16,125
Remainder of county	754	18,235	611	4,463	1,237
County of Hawaii	387	26,503	302	7,723	2,134
County of Kauai	184	13,850	130	3,822	1,039
County of Maui	278	17,617	211	4,892	1,469
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 Census, *Census of Business, 1967. Selected Services: Hawaii, BC67-SA13.*

**Table 152.—GENERAL EXCISE AND USE TAX BASE FOR RETAILING, WHOLESALING,
AND SERVICES: 1958 TO 1970**

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	1,670,288	747,204	451,814
1970	1,895,089	854,660	504,191

Source: Hawaii State Department of Taxation, annual releases.

Index

	Table Number
Abortions	16
Accidents	17, 22, 116
Acreage. <i>See</i> Land	
Aerometric data	45, 46
Age of population	5, 31, 68, 77, 78
Agriculture	49, 50, 66, 123-127, 145
Air Force. <i>See</i> Armed forces.	
Air pollution	45, 46
Air transportation	77-79, 117-120
Aliens	8
Altitudes	42, 47
Amusements. <i>See</i> Recreation	
Animals. <i>See</i> Livestock	
Apparel	63, 65, 142
Area <i>See also</i> Land	41, 48, 49-54
Army. <i>See</i> Armed forces	
Armed forces	2, 10-13, 55, 56, 66, 68, 76, 78, 86-89, 139
Arrests	30, 31
Assessed values	95
Assets and liabilities	60, 61, 104-106
Attendance, recreational	83, 84, 85
Automobiles	114
Banks	104, 105
Beaches	44, 85
Bicycles	117
Birth, place of	7, 8
Births	10, 12, 13, 16
Boats	117
Bonded debt	97
Broadcasting	110
Budgets, family	61, 64, 65
Building. <i>See</i> Construction	
Buses	118
Business enterprise	107-109
Cables	110-111
Cargo	120-122
Catastrophes	17, 48

Table Number

Cattle	123, 124, 126
Cement	131
Children. <i>See</i> Age of Population	
Circulation, newspaper	110
Cities	1, 3, 4, 41, 47, 50, 62, 63, 147, 148, 150, 151
Climate	47, 48
Coast Guard	87, 88
Coastline	41
Coffee	123, 125
Colleges	25, 26, 28
Communications	110, 111
Construction	132-136
Consumer prices	62-65, 111, 119
Corporations	107
Corrections	31, 33, 34
Cost of living	18, 61-65
County data	1, 3, 24, 28, 30, 31, 35, 37, 38, 41, 58, 59, 61-65, 81, 83, 90, 91, 93 95, 97, 98, 108-110, 112, 114, 124-127, 132-135, 138, 139, 142, 147, 150, 151
Courts	31, 32
Crime	29-31
Crops	123-125
Cultural activities	85
Deaths	10, 12, 13, 15-17, 116
Debt, public	97
Defense. <i>See</i> Armed forces	
Degrees conferred	25
Density of population	3
Dentists	21
Deposits. <i>See</i> Banks	
Disability	22, 100, 102, 103
Disasters	17, 48
Disease	15, 22
Distances	40
Divorce	12
Doctors	21
Drivers licenses	115
Drug offenses	30, 31
Dwellings. <i>See</i> Households; Housing	
Earnings. <i>See</i> Income	
Earthquakes	17, 48
Education	23-28, 89, 92, 93, 98
Elections	35-39
Electricity	112
Employment	66-74, 81, 89, 90, 98, 102, 108, 109, 113, 123, 131, 136, 141, 142, 147, 150, 151
Enrollment, school	23-27, 89
Environmental data	44-48
Expectation of life	14
Expenditures, family	61
Expenditures, government	55-57, 88, 92, 93

Table Number

Expenditures, visitor	55, 56, 75, 82
Exports	56, 122
Families	5, 59, 61, 87
Farms	123-127
Federal employment	70, 89, 90
Federal real property	52-54
Federal taxes	90, 91
Fetal deaths	16
Finance	104-106
Fish catch	130
Fishing licenses	85
Flowers	127
Food. <i>See also</i> Agriculture	61, 63, 65, 123-126, 142-145, 147, 149
Forests	49, 128, 129
Freight	120-122
Fruit. <i>See also</i> Pineapple	123, 125
Fuel	112, 114
Gas	112
Gasoline	114
Geographic data	40-54
Golf	84, 85
Government employment	70, 89, 90, 98
Government finance	56, 90-97
Government housing	89, 139
Government land	52-54
Governor	39, 72
Gross domestic product	57
Harbors	122
Hawaii (island). <i>See</i> Island data	
Hawaii County. <i>See</i> County data	
Health. <i>See also</i> Vital statistics	22
Highways	115
Hilo. <i>See</i> Cities	
Honolulu. <i>See</i> Cities; County data	
Hospitals	18-20, 22
Hotels	51, 73, 75, 77, 80, 81, 134, 151
Hours worked	73, 142, 145
Households and households size	5, 137, 138
Housing	61, 63, 65, 89, 132-135, 137-140
Hunting licenses	85
Illegitimate births	12
Illiteracy	27
Illness. <i>See</i> Disease	
Immigration	7, 8, 11
Imports	55, 56, 122
Income, family	59, 61, 96
Income, industrial source	55, 56
Income, personal	57, 58

Table Number

Income, wage and salary 71-74, 81, 108, 131, 141, 142, 145, 147, 150, 151
 Industry 70, 71, 73, 108, 109, 142
 Infant deaths 12, 16
 Injuries 22, 116
 Institutions. *See* corrections; Hospitals; Jail; Prisons
 Insurance 102-104, 106
 Irrigation 123
 Island data 1, 3, 19, 21, 22, 40, 41, 47, 49-52, 61, 65,
 67-71, 75, 77-82, 87, 115, 117-121, 128, 130
 Intended residents 11

 Jail 31
 Judiciary 32

 Kahoolawe 3, 41, 42, 52, 128
 Kailua. *See* Cities
 Kaulaupapa. *See* Kalawao.
 Kalawao 3, 41, 108
 Kauai (island). *See* Island data
 Kauai County. *See* County data
 King, salary of 72

 Labor force. *See* Employment
 Lakes 43
 Lanai. *See* Island data.
 Land area 41, 49-54
 Land in farms 123-125, 127, 145
 Land in forests 49, 128
 Land in parks 83
 Land ownership 52-54, 89
 Land use 49-51, 123-125, 127, 145
 Land values 95, 135
 Law enforcement 29-34
 Leaseholds 139
 Legislature 38
 Licenses 85
 Life expectancy 14
 Life insurance. *See* Insurance.
 Live stock 123, 124, 126
 Living costs. *See* Cost of living
 Lot size 140
 Lumber. *See* Forests

 Mail 110, 111, 120
 Manufactures 141-145
 Marriage 12
 Married couples 64
 Maui (island). *See* Island data
 Maui County. *See* County data
 Medical care 18-22, 61, 63, 65
 Mental hospital 20
 Merchandise lines 149

Table Number

Migration	7, 8, 10, 11
Military. <i>See</i> Armed forces	
Military dependents	10, 11, 13, 76, 86, 87, 88
Minerals	131
Mining	131
Molokai (island). <i>See</i> Island data	
Morbidity	22
Mortgages	135
Motor vehicles	114
Mountains	42
Murder	29, 30
Museums	85
Music	85
National defense. <i>See</i> Armed forces	
Nationality	8
Navy. <i>See</i> Armed forces	
Newspapers	110, 111
Niihau. <i>See</i> Island data	
Nurses	21
Nursing homes	19
Oahu. <i>See</i> County data; Island data	
Occupation	69, 72, 74, 77
Outdoor recreation	84, 85
Parks	83
Partnerships	107
Passengers	75-79, 118
Personal income	58
Physicians	21
Pineapple	49, 55, 56, 123, 125, 143, 144
Police	29-31, 72
Political parties	37-39
Population. <i>See also</i> Vital statistics.....	1-11, 13
Pollution	44-46
Post offices	110
Postage rates	111
Poverty	59, 96
Precipitation	47, 48
President, salary of (Hawaii)	72
Prices	62, 63, 111, 119, 135, 138, 140
Prisons	33, 34
Product, gross domestic	57
Property values	95, 138, 140
Public utilities	110-112, 118
Quarries	131
R & R	76
Race	5-7, 14
Radio	110

Table Number

Radioactivity	46
Railroads	118
Rainfall	47, 48
Recreation	84, 85, 151
Religion	9
Rent	63, 65, 137, 138
Research and development	113
Resorts. <i>See</i> Hotels	
Retail trade	51, 146-149, 152
Retired couple, budget	64
Rivers	43
Roads	115
Salaries and wages. <i>See</i> Income, wage and salary	
Savings and loan associations	104, 105
Schools. <i>See</i> Education	
Science	113
Services	51, 146, 151, 152
Sex	5, 14, 31, 36, 37, 66, 68, 69, 77
Shipping	118, 121, 122
Shopping centers	148
Shoreline	41, 43
Social insurance	102, 103
Social Security	103
Social welfare	99-103
Sports	84, 85
State government. <i>See</i> Government	
Streams	43
Strikes	67
Sugar	49, 55, 56, 72, 123, 125, 143, 145
Taxation	90-96
Teachers	23, 98
Telegraph messages	110, 111
Telephone service	110, 111
Television stations	110
Temperature	47, 48
Tenure of housing	137-139
Tenure of land. <i>See</i> Land ownership	
Theaters	85
Timber. <i>See</i> Forests	
Tonnage of vessels	121
Tourism	55, 56, 75-82
Traffic accidents	116
Transportation. <i>See also</i> Shipping; Air transportation	17, 77-79, 114-122
Travel. <i>See</i> Tourism; Transportation	
Trucks	114
Tsunamis	17, 48
Unemployment	67, 68, 102
Universities	25, 26
Utilities	110-112

Table Number

Vacancies, housing 138
Vegetables 125
Vehicles 114
Veterans 89
Visitors 2, 56, 75-77, 82, 83, 84
Vital statistics 12-17
Volcanic eruptions 17, 48
Voting 35-39

Wages and salaries. *See* Income, wage and salary

Waikiki 75, 80, 81, 148
Water area 41, 43, 49
Water pollution 44
Water transportation 117, 118, 121, 122
Waterfalls 43
Wealth 60
Weather 47, 48
Welfare services 99-103
Wholesale trade 146, 150, 152
Work stoppages 67

Zoo, Honolulu 85

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