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THE STATE OF HAWAII **DATA BOOK**

1978

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT



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DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

NOVEMBER 1978

This book has been catalogued as follows:

Hawaii. Department of Planning and Economic Development.

State of Hawaii data book; a statistical abstract. Honolulu: 1962, 1967, 1968, 1970- . Annual.

Report for 1962 issued under earlier name: Hawaii. Department of Planning and Research. Statistical abstract of Hawaii, 1962.

1. Hawaii - Statistics. I. Data Book. II. Title.
Ref/HA4007/H356/1978.

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This report was prepared by Robert C. Schmitt, State Statistician, with the assistance of Lynn Y.S. Zane, Research Statistician, both of the Statistics Branch in the DPED's Research and Economic Analysis Division headed by Dr. Richard Y.P. Joun. Editing, proofreading and printing arrangements were handled by the DPED's Information Office. Maps were prepared by the DPED's Planning Division.

Copies of this report may be obtained for \$4.00 each from the Information Office on the 7th floor of the Kamamalu Building, 250 South King Street, Honolulu, or ordered from out of State by sending \$5.00 per copy (postpaid) to the DPED Information Office, P.O. Box 2359, Honolulu, Hawaii 96804.



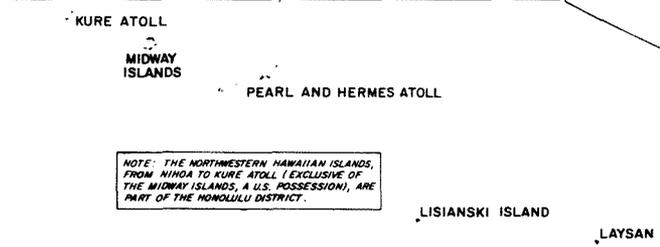
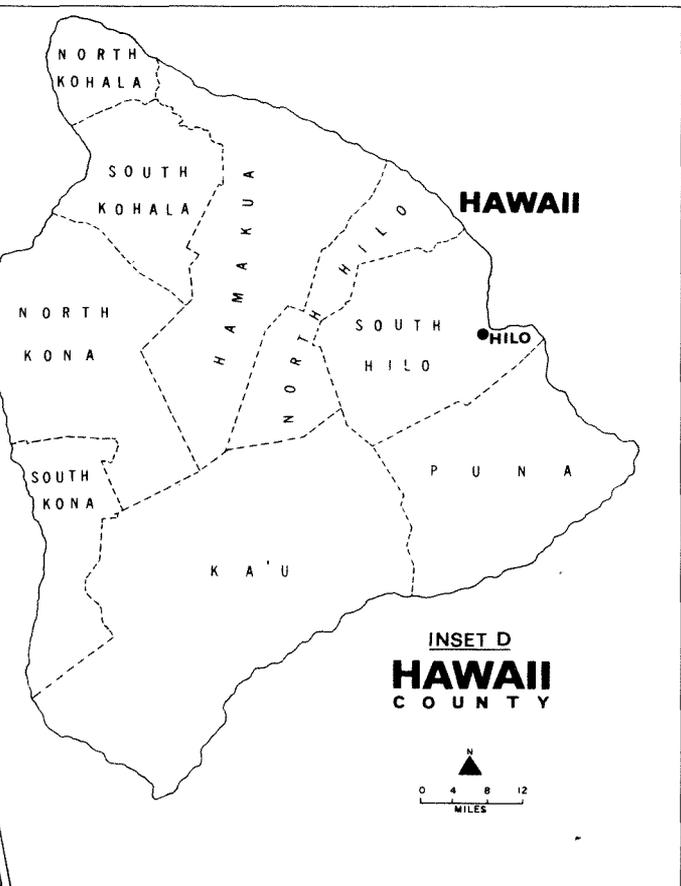
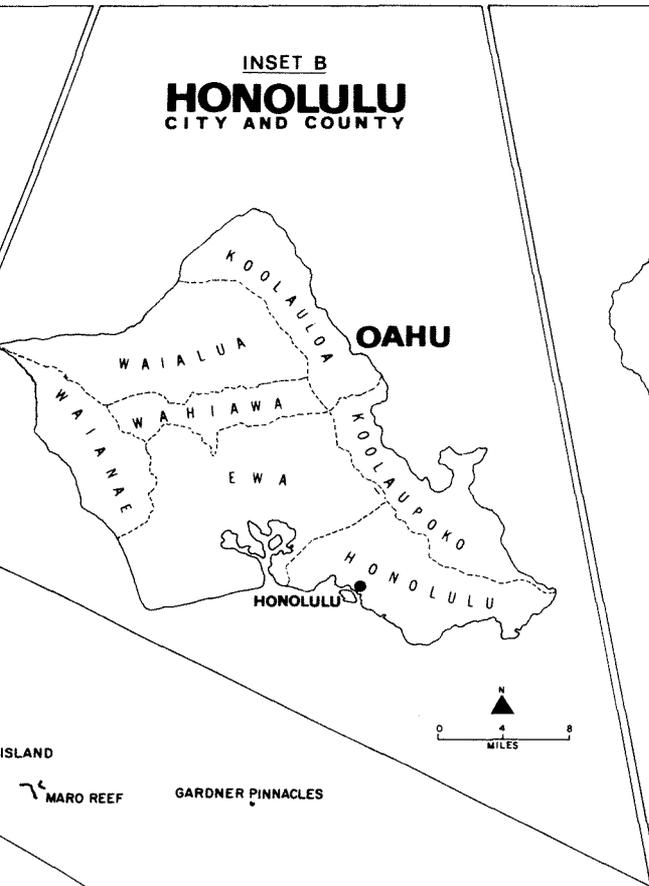
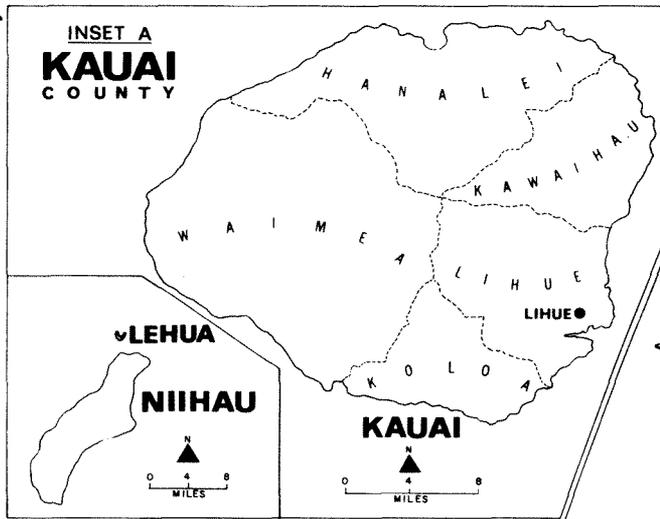
FOREWORD

By George R. Ariyoshi
Governor, State of Hawaii

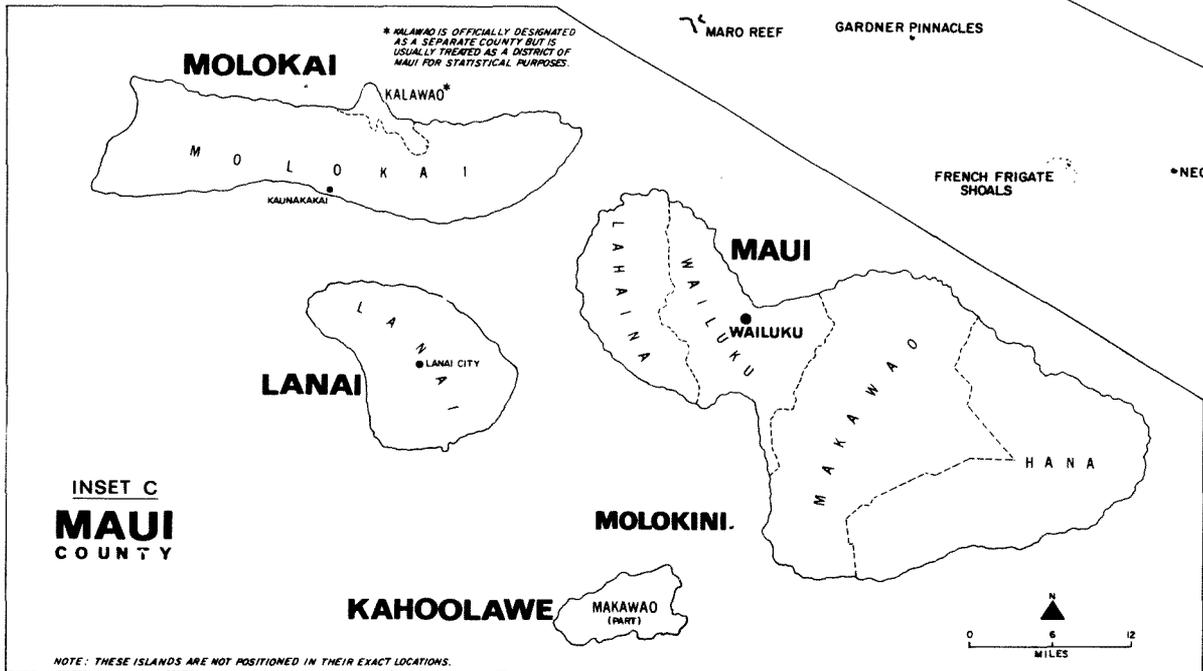
Accurate, timely and substantial information is essential to sound decision-making. The State of Hawaii has long recognized that orderly State growth and planned prosperity require a continuing, efficient organization of statistical data and other information into forms which are easily used and readily available to all who need them. This *State of Hawaii Data Book 1978* is the latest example of the State Administration's constant effort to provide and improve this important service to Hawaii's citizens.

The *Data Book* is invaluable for Government administrators. It is vital to all agencies, companies, organizations and individuals who carry out a great variety of forms of research in the Islands and overseas. It is very useful to other citizens who have only an occasional need for accurate statistics. It is a book which, thanks to the professionalism of its compilers, can be depended upon, and upon which thousands do depend. And it is only one—although perhaps the best one—of a large number of excellent data sources which Hawaii makes available.

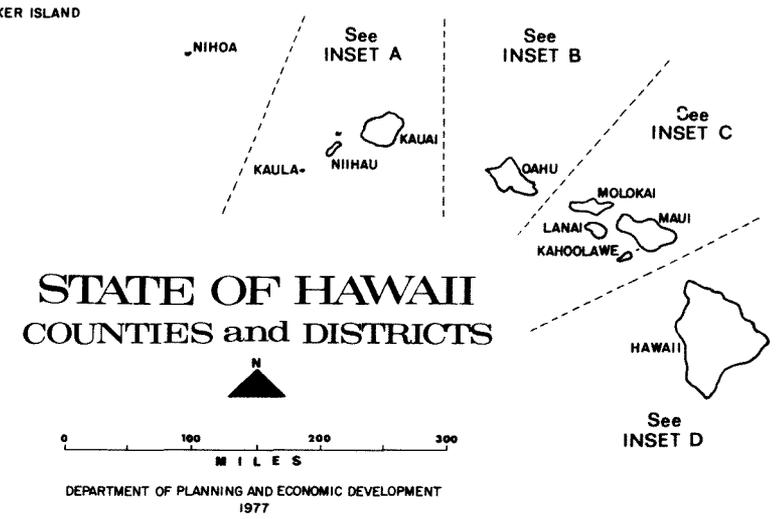
Through such reference works, Hawaii is able to go about its myriad tasks with confidence that its information base is sound. The *State of Hawaii Data Book 1978* is one of many proofs we have that our people know what they are doing, and where they are going, and are reasonably certain they can achieve their goals.



NOTE: THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT.



NOTE: THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS.



* KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES.

INTRODUCTION

By Hideto Kono, Director
Department of Planning and Economic Development

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

The present volume, containing statistics available in the summer of 1978, is the twelfth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. All are now out of print, but copies can be seen in many high school, university, and public libraries in Hawaii.

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

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

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

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, *Statistical Abstract of the United States*, and described in *Bureau of the Census Manual of Tabular Presentation*, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Elements common to statistical tables include the table number and title, headnote, boxhead (often consisting of both spanner and column heads), stub, field, footnotes and footnote indicators, and source reference. These elements appear in the following example:

Table number and title

Table A—ASSESSOR'S GROSS VALUATION OF LAND AND IMPROVEMENTS, BY COUNTIES: 1975 AND 1976

Unit indicator

[In millions of dollars. As of July 1. Real property was assessed at 70 percent of fair market value in 1975 and 60 percent in 1976.]

Stub

Headnote

County		1975			1976		
		Total valuation	Land	Improvements	Total valuation	Land	Improvements
State total		15,254	8,026	7,229	15,520	8,827	6,693
Honolulu		12,043	6,193	5,850	12,449	7,071	5,378
Maui ¹		1,203	649	554	1,195	636	559
Hawaii		1,461	868	593	1,334	791	543
Kauai		547	316	232	542	330	212

Parallel rules

Parallel rules

Footnote ¹ Includes Kalawao County.

Source reference Source: Hawaii State Department of Taxation, *Real Property Tax Valuations and Tax Rates* (annual release).

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

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

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

Parallel vertical rules are used to the right of a total column to indicate—
 (1) that the components which follow add to the total;
 (2) in the case of derived figures, that the underlying data are additive to their total.

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

— Represents zero or rounds to less than half the unit of measurement shown.

D Figure withheld to avoid disclosure of information pertaining to a specific organization or individual.

NA Data not enumerated, tabulated, or otherwise available separately.

... Same as NA; used in tables in which a large number of cells lack data.

In many tables, (such as the table illustrated), details will not add to the totals shown because of rounding.

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

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

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Yards	x	0.914	=	meters	meters	x	1.094	=	yards
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. inches	x	6.452	=	sq. centimeters	sq. centimeters	x	0.155	=	sq. inches
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Sq. yards	x	0.836	=	sq. meters	sq. meters	x	1.196	=	sq. yards
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume									
Cubic inches	x	16.387	=	cu. centimeters	cu. centimeters	x	0.061	=	cu. inches
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Temperature

(Degrees Fahrenheit - 32) x 5/9 = degrees Celsius

(Degrees Celsius x 9/5) + 32 = degrees Fahrenheit

Miscellaneous Conversions

1 statute mile = 5,280 ft. = 1,760 yards

1 acre = 43,560 sq. feet

1 short ton = 2,000 pounds

1 long ton = 2,240 pounds

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, *Atlas of Hawaii*.

Section 1

POPULATION

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

Preliminary estimates for mid-1978 indicate a resident population of 896,700. This total includes approximately 58,300 members of the armed forces and 61,100 of their dependents. It excludes an average of 96,500 visitors who were present in 1978, while including an average of 8,300 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). Approximately 80.9 percent of the 1977 total lived on Oahu, giving that island a density of 1,311 persons per square mile. The population is young — 50 percent were under 25 years of age in 1970 — and racially diversified. The major unmixed groups are Caucasians (27.7 percent of the non-barracks, non-institutional population) and Japanese (26.6 percent). In addition, 25.6 percent are of mixed race, primarily part Hawaiian. Migration has been a major factor in the growth of the population: between 1970 and 1977, there was a net in-migration (excluding military personnel and dependents) of 59,600, accounting for almost half of the total civilian population growth during that time. Intended residents arriving aboard westbound civilian carriers in 1977 numbered 43,600, of whom 25,100 were military personnel and dependents and 18,500 were other civilians. Immigrant arrivals in fiscal 1976 totaled 7,800, mostly from the Philippines and Korea.

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

The principal sources for these data are the decennial censuses (most recently conducted in 1970), the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the sample survey conducted monthly since 1969 by the Department of Health, the *OEO 1975 Census Update Survey*, and the ongoing series on migration 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, both issued annually: *The Population of Hawaii* and *Hawaii's In-Migrants*. Another annual report distributed by DPED contains population estimates by census tracts. Comparable national statistics on population and migration appear in sections 1 and 3 of *Statistical Abstract of the United States: 1977*.

**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	250,000	50,000	(NA)	1890: Dec. 28	89,990	31,194	22,907
1823	145,000	34,000	(NA)	1896: Sept. 27	109,020	40,205	29,920
1831-1832	130,313	29,755	13,344	1900: June 1	154,001	58,504	39,306
1835-1836	108,579	27,809	12,994	1910: April 15	191,874	81,993	52,183
1850: January	84,165	25,440	14,484	1920: 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				

NA Not available.

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

² The area from Maunaloa to Moanalua, inclusive, plus minor outlying islands legally part of the city of Honolulu.

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

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

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 7, 8, and 11-15.

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

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

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

² Limited to Honolulu before 1910.

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

**Table 3.—ESTIMATED POPULATION, BY RESIDENCE AND MILITARY STATUS:
1958 TO 1978**

Year ¹	Resident population ²					Visitors present (annual average)	Residents absent (annual average)	De facto population ³
	Total	Armed forces ⁴	Civilian population					
			Total	Military dependents ⁵	Not military dependents			
1958	605,400	55,000	550,300	(NA)	(NA)	8,400	2,000	611,800
1959	622,100	56,600	565,500	(NA)	(NA)	10,400	2,000	630,500
1960: Apr.1	632,772	53,888	578,884	60,057	518,827	10,800	2,100	641,500
July 1	641,500	59,200	582,300	60,300	522,100	11,800	2,100	651,200
1961	658,700	60,800	597,900	62,000	535,800	12,000	2,400	668,200
1962	683,500	79,000	604,500	63,200	541,300	13,100	3,000	693,600
1963	682,200	59,600	622,700	61,500	561,200	15,300	3,100	694,500
1964	699,900	73,200	626,700	69,100	557,600	16,000	4,700	711,200
1965	703,800	53,400	650,400	65,800	584,600	17,300	5,700	715,400
1966	710,300	54,100	656,300	62,600	593,600	21,000	6,800	724,600
1967	722,500	56,000	666,500	61,300	605,200	27,700	7,600	742,600
1968	734,500	57,000	677,400	59,100	618,300	32,500	8,100	758,800
1969	750,200	48,500	701,800	59,700	642,100	37,400	8,800	778,800
1970: Apr. 1	769,913	55,142	714,771	61,858	652,913	37,600	10,300	797,300
July 1	775,800	53,200	722,600	57,800	664,800	37,600	10,000	803,400
1971	800,900	50,800	750,100	62,200	687,900	41,900	9,400	833,300
1972	823,300	52,000	771,300	66,200	705,700	51,300	8,600	865,900
1973	844,700	58,100	785,900	70,300	715,600	61,600	9,800	895,900
1974	855,400	57,500	797,900	68,300	729,600	66,000	7,800	913,600
1975	867,900	58,900	809,000	63,700	745,300	68,800	9,000	927,700
1976	883,500	57,800	825,700	67,000	758,800	78,500	9,400	952,700
1977	891,500	56,500	835,000	65,000	770,000	86,800	9,000	969,300
1978	896,700	58,300	838,400	61,100	777,300	96,500	8,300	984,900

NA Not available.

¹ July 1 unless other wise specified.

² Includes residents temporarily absent; excludes visitors present.

³ Excludes residents temporarily absent; includes visitors present.

⁴ De facto basis, 1958-1969; stationed or homeported in Hawaii, 1970 forward.

⁵ Dependents living in Hawaii, regardless of location of family head.

Source: Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1977* (Statistical Report 125, September 13, 1978), table 1, as revised.

Table 4.—ESTIMATED POPULATION, 1970 TO 1977, AND DENSITY, 1977, BY GEOGRAPHIC AREAS

Subject and date	State total	City and County of Honolulu	Other counties						
			Total	Hawaii County	Kauai County ¹	Maui County ²			
						Total	Lanai	Maui	Molokai
TOTAL RESIDENT POPULATION³									
1970: April 1	769,913	630,528	139,385	63,468	29,761	46,156	2,204	38,691	5,261
1976: July 1	883,500	713,500	170,000	77,800	34,000	58,200	2,100	50,600	5,500
1977: July 1	894,700	723,400	171,300	78,100	33,800	59,400	2,000	51,800	5,500
CIVILIAN RESIDENT POPULATION⁴									
1970: April 1	714,771	575,719	139,052	63,328	29,627	46,097	2,204	38,632	5,261
1976: July 1	825,700	656,000	169,700	77,700	33,800	58,200	2,100	50,600	5,500
1977: July 1	838,300	667,300	171,000	78,000	33,700	59,300	2,000	51,800	5,500
TOTAL DE FACTO POPULATION⁵									
1970: April 1	797,300	649,600	147,600	66,300	32,300	49,100	2,200	41,500	5,300
1976: July 1	952,700	761,200	191,500	84,000	39,200	68,300	2,100	60,400	5,800
1977: July 1	972,500	777,000	195,500	84,700	39,600	71,300	2,000	63,100	6,100
DE FACTO DENSITY									
Per square mile, 1977	151.4	1,304.3	33.5	21.0	64.0	60.7	14.6	86.7	23.5
Per square km., 1977	58.4	503.6	13.0	8.1	24.7	23.4	5.6	33.5	9.1

¹ Includes Kauai, Niihau, Lehua, and Kaula. The total resident population of Niihau was 237 on April 1, 1970, 243 on March 15, 1976, and 247 on March 30, 1977. Kaula and Lehua are uninhabited.

² Population data for county and Molokai include Kalawao County (Kalaupapa Settlement): 172 in 1970, 179 in 1976, and 176 in 1977. Density data include Kahoolawe (uninhabited).

³ Includes armed forces and their dependents.

⁴ Includes military dependents but excludes armed forces.

⁵ Includes armed forces and their dependents and also visitors present, but excludes residents temporarily absent.

Source: Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1977* (Statistical Report 125, September 13, 1978) tables 2 and 3.

Table 5.—RESIDENT POPULATION OF HAWAII, BY COUNTY AND DISTRICT: 1960 TO 1976

County and district ¹	April 1, 1960	April 1, 1970	July 1, 1975 ²	July 1, 1976 ²	Percent change, 1970-1976 ³
The State	632,772	769,913	868,400	886,600	15.2
Honolulu	500,409	630,528	705,400	718,400	13.9
Honolulu	294,194	324,871	350,800	356,000	9.6
Koolaupoko	60,238	92,219	100,800	103,100	11.8
Koolauloa	8,043	10,562	12,500	12,900	22.1
Waialua	8,221	9,171	9,800	10,000	8.7
Wahiawa	34,595	37,329	41,700	41,900	12.1
Waianae	16,452	24,077	26,600	27,300	13.2
Ewa	78,666	132,299	163,200	167,300	26.5
Hawaii	61,332	63,468	75,300	76,600	20.7
Puna	5,030	5,154	7,200	7,800	50.4
South Hilo	31,553	33,915	39,200	39,600	16.7
North Hilo	2,493	1,881	2,000	2,000	4.7
Hamakua	5,221	4,648	5,200	5,200	11.6
North Kohala	3,386	3,326	3,500	3,500	4.9
South Kohala	1,538	2,310	2,900	2,900	27.2
North Kona	4,451	4,832	6,900	7,200	49.5
South Kona	4,292	4,004	4,400	4,500	13.6
Ka'u	3,368	3,398	3,900	3,900	14.7
Maui and Kalawao	42,855	46,156	55,000	57,500	24.6
Hana	1,073	969	1,100	1,200	22.0
Makawao	10,409	9,979	12,200	13,000	30.0
Wailuku	19,391	22,219	26,700	27,900	25.5
Lahaina	4,844	5,524	7,400	8,000	44.0
Lanai	2,115	2,204	2,100	2,000	- 9.4
Molokai	4,744	5,089	5,200	5,300	5.0
Kalawao	279	172	200	200	4.1
Kauai	28,176	29,761	32,700	34,100	14.5
Waimea	7,057	7,569	8,100	8,200	8.8
Koloa	7,012	6,851	7,600	8,100	17.6
Lihue	6,297	6,766	7,400	7,700	14.1
Kawaihau	6,498	7,393	8,200	8,500	15.2
Hanalei	1,312	1,182	1,400	1,600	31.1

¹ For county and district boundaries, see the map preceding the Introduction to this volume.

² Estimates for 1975 and 1976 have been independently rounded to the nearest 100, and may not add exactly to the indicated totals and subtotals. The 1975 estimates are revisions from those in *The State of Hawaii Data Book 1977*, table 5; the 1976 estimates are provisional. For revised State and County 1976 estimates, see the present volume, table 4.

³ Computed from unrounded data.

Source: Hawaii State Census Statistical Areas Committee, *Estimated Population of Hawaii by Districts, 1976* (Report CTC-37, October 19, 1977).

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

Island and urban place ¹	Land area (acres)	Resident population		Island and urban place ¹	Land area (acres)	Resident population	
		1970	1960 ²			1970	1960 ²
Oahu:							
Aiea	1,302	12,560	11,436	Oahu, con.:			
Barbers Pt. Hsg	149	3,187	2,665	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
Mali	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	4,233
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

¹ These 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.

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

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

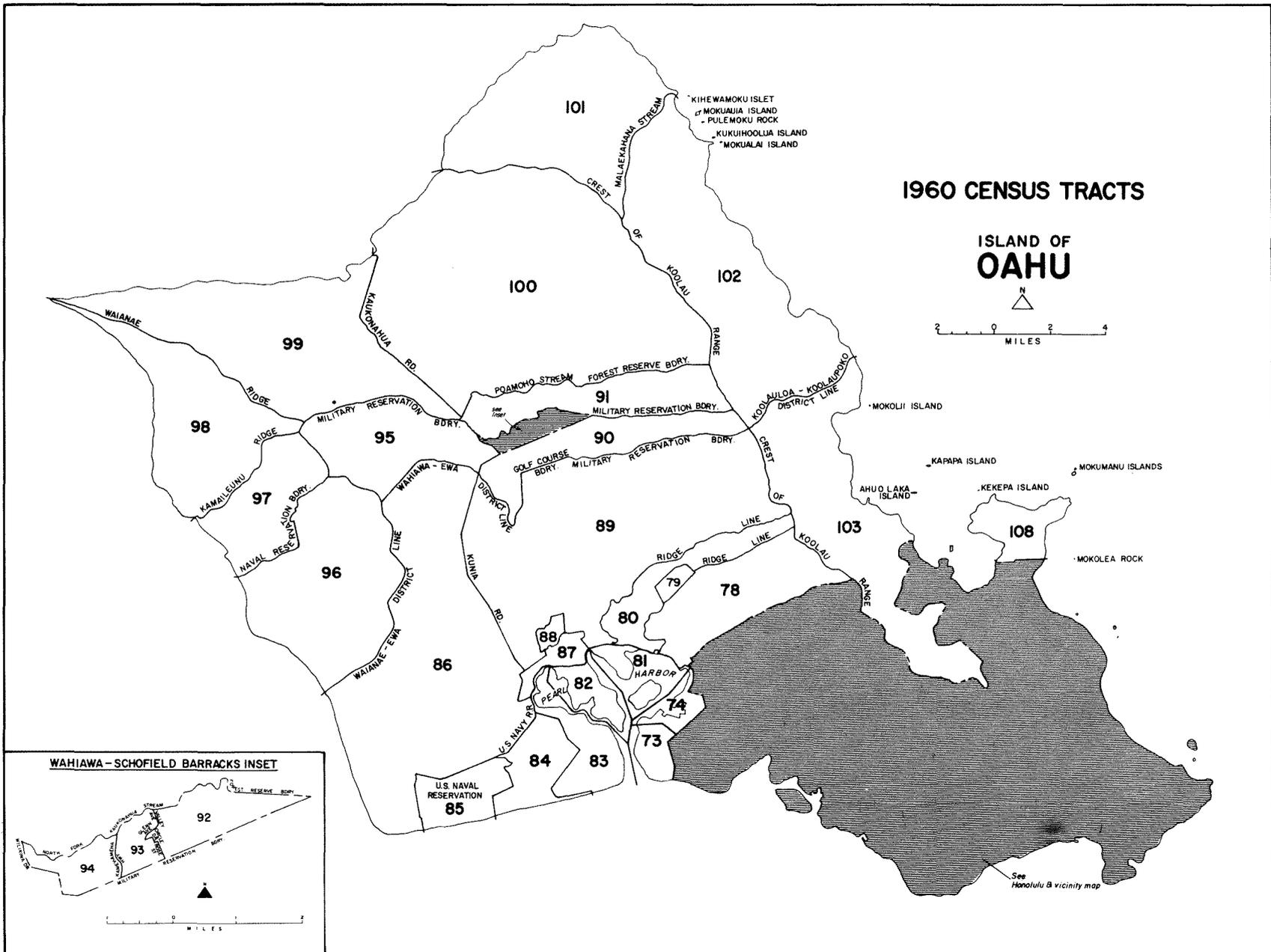
Source: Hawaii State Department of Planning and Economic Development, *Statistical Boundaries of Cities, Towns and Villages as Approved Through December 31, 1977* (Report SB-A13, March 10, 1978), table 1.

Table 7.—POPULATION OF SELECTED URBAN PLACES: 1970 AND 1974-1977

Island and urban place	Census tract	1970 (census)	Latest estimate		Percent change
			Year	Population	
Oahu:					
Aiea ¹	76,77	12,566	1977	13,224	5.2
Honolulu	1-72, 114	324,871	1977	356,520	9.7
Kailua ¹	109, 111,112	35,186	1977	37,031	5.2
Kaneohe ¹	104-107	27,530	1977	28,856	4.8
Mokapu	108	7,860	1977	12,107	54.0
Pearl City ¹	80, 81	27,864	1977	29,351	5.3
Wahiawa ¹	92, 93, 94	17,560	1977	17,822	1.5
Waipahu ¹	87, 88, 89.01	23,462	1977	25,128	7.1
Hawaii:					
Hilo ¹	203-209	26,353	1975	31,969	21.3
Kauai:					
Kapaa	403	3,794	1974	3,630	-4.3
Lihue	405	3,124	1974	3,090	-1.4
Maui:					
Kahului ¹	311, 312, 313	9,419	1975	11,186	18.8
Wailuku ¹	308, 309, 310	10,383	1975	10,810	4.1

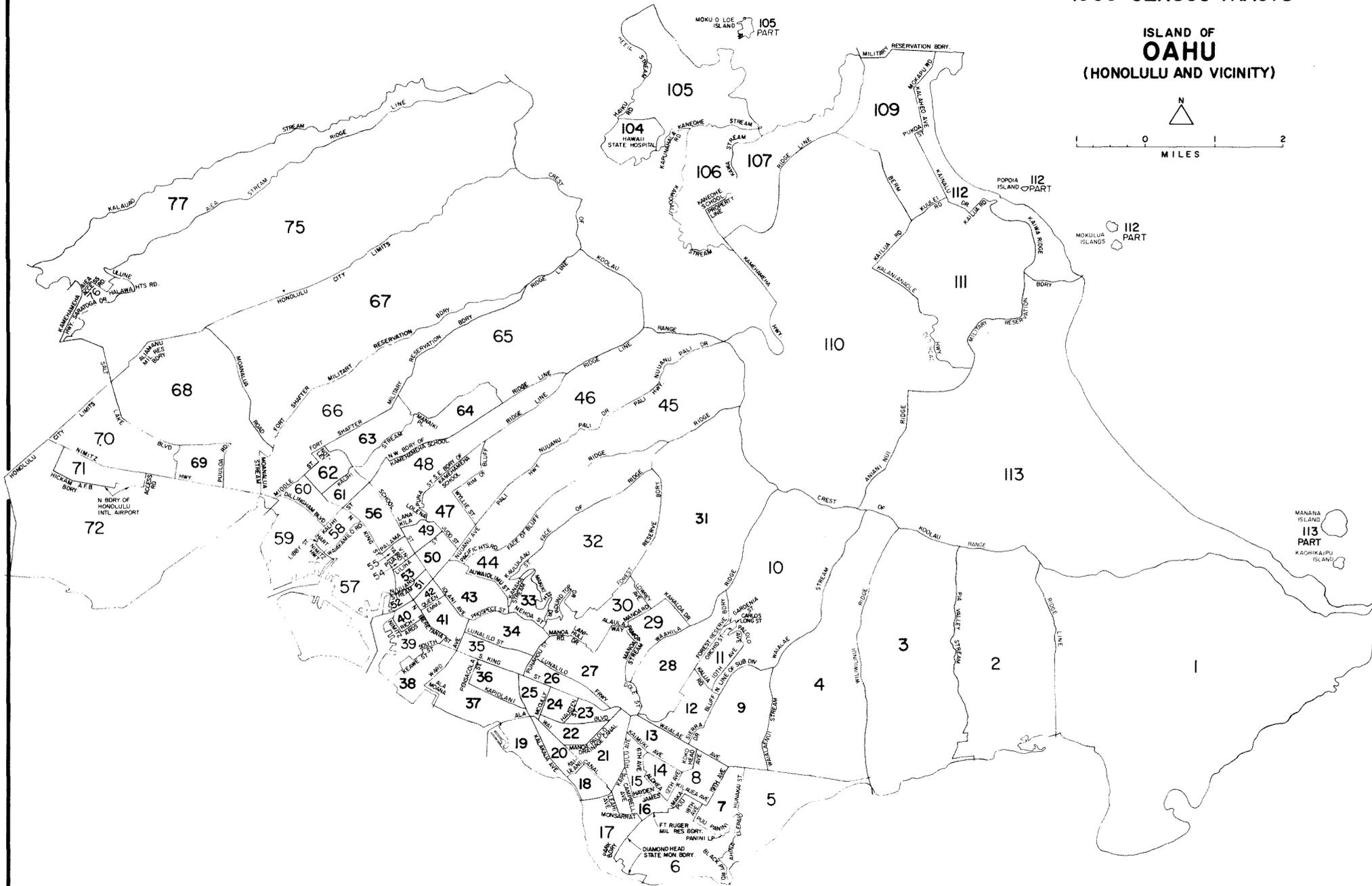
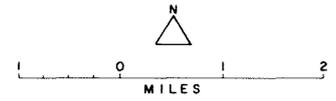
¹ Based on census tract boundaries which only approximate the official boundaries used in 1970 census reports. For exact 1970 population, see table 6.

Source: Hawaii State Census Statistical Areas Committee, *Population and Housing Unit Estimates for Oahu Census Tracts, 1970-1977* (Report CTC-38, August 25, 1978), table 8.



1960 CENSUS TRACTS

ISLAND OF OAHU (HONOLULU AND VICINITY)



MANANA ISLAND
113 PART
KAOHUKAIPU ISLAND

MOKULUA ISLANDS
112 PART

POPOIA ISLAND
112 PART

MOKU O LOE ISLAND
105 PART

104 HAWAII STATE HOSPITAL

MONROE FOREST RESERVE

RESERVATION BORY

DIAMOND HEAD STATE MON. BORY

FT. RUGER MIL. RES. BORY

MONSARRAT

ALALA

WAIKUKI

**Table 8.—AREA, POPULATION, EMPLOYMENT, AND HOUSING UNITS, FOR OAHU,
BY CENSUS TRACTS: 1970 TO 1977**

Census tract	Land area ¹ (acres)	Resident population		Persons per acre, 1977 ²	Employment (by place of work), 1974 ³	Housing units	
		April 1, 1970	July 1, 1977 ²			April 1, 1970 ⁴	July 1, 1977 ²
Oahu ⁵	383,345	630,528	723,422	1.9	276,237	174,742	217,476
Honolulu ⁵	56,590	324,871	356,520	6.3	178,102	103,189	124,354
1	7,458	12,572	22,531	3.0	1,492	3,498	6,217
2	2,210	5,123	6,591	3.0	360	1,356	1,930
3	2,842	6,485	6,203	2.2	772	1,710	1,739
4	2,366	4,469	6,105	2.6	257	1,190	1,712
5	708	5,253	5,476	7.7	1,338	1,835	1,859
6	812	2,025	1,756	2.2	412	575	532
7	240	3,794	3,735	15.6	463	994	1,036
8	223	4,599	4,295	19.3	720	1,237	1,258
9	688	10,679	10,464	15.2	720	3,239	3,305
10	1,951	3,650	3,370	1.7	—	894	904
11	190	4,586	4,347	22.9	206	1,023	1,063
12	280	7,888	7,406	26.4	720	2,148	2,180
13	231	5,146	4,819	20.9	1,132	1,589	1,597
14	122	2,990	2,898	23.8	51	848	863
15	139	4,345	4,504	32.4	412	1,261	1,396
16	151	4,783	4,833	32.0	566	1,392	1,526
17	331	2,559	2,850	8.6	926	1,523	1,552
18	102	4,060	5,256	51.5	4,014	2,379	2,748
19	377	4,479	7,632	20.2	11,218	2,770	4,309
20	123	4,585	7,594	61.7	7,153	2,991	4,476
21	300	3,347	3,982	13.3	926	1,211	1,506
22	152	3,796	6,713	44.2	618	1,493	2,754
23	89	4,195	6,074	68.2	463	1,654	2,447
24	107	5,878	6,431	60.1	978	2,143	2,429
25	107	4,242	4,152	38.8	875	1,630	1,640
26	164	5,163	5,625	34.3	2,882	1,815	2,230
27	625	8,714	7,651	12.2	5,609	2,491	2,937
28	624	4,316	3,614	5.8	412	1,161	1,099
29	259	1,591	1,904	7.4	206	394	492
30	410	4,966	4,867	11.9	618	1,561	1,635
31	2,275	8,433	8,245	3.6	515	2,179	2,280
32	1,468	1,218	1,166	0.8	103	360	386
33	148	1,145	986	6.7	206	285	297
34	274	14,913	17,469	63.8	720	7,331	8,749
35	185	4,308	6,220	33.6	6,072	1,925	2,913
36	180	5,570	6,395	35.5	7,153	2,628	3,072
37	408	1,349	2,601	6.4	15,644	746	1,376
38	254	837	427	1.7	10,446	279	236
39	292	397	131	0.4	8,542	119	84
40	71	100	91	1.3	14,975	53	66
41	163	4,097	4,967	30.5	5,764	1,903	2,409

**Table 8.—AREA, POPULATION, EMPLOYMENT, AND HOUSING UNITS, FOR OAHU,
BY CENSUS TRACTS: 1970 TO 1977 (continued)**

Census tract	Land area ¹ (acres)	Resident population		Persons per acre, 1977 ²	Employment (by place of work), 1974 ³	Housing units	
		April 1, 1970	July 1, 1977 ²			April 1, 1970 ⁴	July 1, 1977 ²
Honolulu con.:							
42	58	1,162	2,845	49.1	515	642	1,553
43	327	5,628	6,462	19.8	566	1,970	2,425
44	822	6,142	5,710	6.9	257	1,466	1,538
45	1,924	4,780	4,848	2.5	103	1,387	1,537
46	1,708	4,377	4,048	2.4	360	1,170	1,202
47	327	5,500	5,283	16.2	875	1,481	1,528
48	863	6,608	6,124	7.1	720	1,734	1,758
49	101	3,292	2,936	29.1	309	994	987
50	134	3,973	3,839	28.6	1,544	1,264	1,307
51	45	—	2,031	45.1	463	—	762
52	44	1,405	1,368	31.1	1,750	974	960
53	87	482	2,674	30.7	720	468	1,710
54	20	1,862	1,411	70.5	154	364	364
55	53	1,975	1,940	36.6	154	545	614
56	231	5,768	4,827	20.9	926	1,434	1,367
57	1,033	2,749	2,018	2.0	9,057	1,028	996
58	126	3,163	3,839	30.5	1,492	969	1,169
59	520	4,449	4,136	8.0	7,153	1,231	1,190
60	179	6,711	5,652	31.6	978	1,698	1,651
61	114	3,262	2,843	25.0	412	739	766
62	153	6,818	6,035	39.4	720	1,603	1,606
63	293	6,796	5,757	19.6	669	1,372	1,373
64	440	6,680	5,719	13.0	—	1,422	1,436
65	2,802	4,011	3,609	1.3	—	904	927
66	1,423	3,424	2,955	2.1	3,808	679	714
67	4,856	9,819	9,633	2.0	2,110	2,387	2,569
68	1,714	7,500	11,898	6.9	8,903	1,908	3,710
69	256	3,694	5,834	22.8	412	1,235	1,322
70	700	4,899	3,251	4.6	1,132	1,304	1,017
71	266	1,402	1,750	6.6	309	370	594
72	3,074	3,864	2,818	0.9	14,872	634	463
114 ⁵	1,798	31	46	0.03	—	—	—
Rest of Oahu	326,755	305,657	366,902	1.1	97,929	71,553	93,122
73	1,465	10,564	7,768	5.3	10,343	1,557	1,973
74	1,180	9,086	16,021	13.6	18,320	756	745
75	5,903	11,424	10,720	1.8	2,264	2,506	2,575
76	163	2,934	3,212	19.7	103	727	811
77	2,199	9,632	10,012	4.6	2,007	2,347	2,695
78	9,162	5,695	13,007	1.4	3,448	1,740	3,587
79	647	762	524	0.8	257	2	—
80	4,851	24,329	26,432	5.4	4,271	5,821	6,809
81	1,061	3,535	2,919	2.8	412	614	703
82	1,780	—	—	—	51	—	—

Table 8.—AREA, POPULATION, EMPLOYMENT, AND HOUSING UNITS, FOR OAHU, BY CENSUS TRACTS: 1970 TO 1977 (continued)

Census tract	Land area ¹ (acres)	Resident population		Persons per acre, 1977 ²	Employment (by place of work), 1974 ³	Housing units	
		April 1, 1970	July 1, 1977 ²			April 1, 1970 ⁴	July 1, 1977 ²
Rest of Oahu, con.:							
83	3,172	4,759	10,456	3.3	1,595	1,200	2,685
84	4,211	7,801	7,547	1.8	978	1,932	2,003
85	3,671	3,187	3,737	1.0	3,962	574	854
86	32,063	8,340	10,504	0.3	2,882	2,016	2,854
87	962	12,705	13,032	13.5	3,036	3,080	3,592
88	688	3,429	3,744	5.4	978	806	982
89	32,783	14,117	29,839	0.9	4,168	3,778	8,445
90	7,705	2,783	3,064	0.4	1,698	498	692
91	8,276	3,410	2,895	0.3	1,389	614	733
92	754	6,637	6,418	8.5	669	1,736	1,815
93	304	4,875	4,835	15.9	2,007	1,469	1,588
94	414	6,048	6,569	15.9	412	1,778	2,057
95	8,039	13,576	18,804	2.3	10,189	2,547	3,526
96	16,965	13,654	12,382	0.7	1,853	2,856	3,153
97	7,667	6,020	9,074	1.2	1,647	1,565	2,726
98	13,877	4,403	5,814	0.4	1,081	1,212	1,656
99	32,415	7,346	8,198	0.4	1,595	2,045	2,427
100	47,119	1,825	1,933	0.04	51	515	585
101	19,379	3,497	4,641	0.2	1,081	1,117	1,465
102	24,014	7,065	8,317	0.3	566	1,769	2,280
103	17,225	10,909	14,753	0.9	515	2,809	4,087
104	277	618	196	0.7	257	7	—
105	1,450	12,494	13,991	9.6	1,544	3,065	3,749
106	790	8,332	8,072	10.2	566	2,005	2,138
107	1,488	6,086	6,597	4.4	206	1,682	2,044
108	2,718	7,860	12,107	4.5	3,499	1,212	1,881
109	1,115	14,622	14,068	12.6	1,647	3,773	3,918
110	7,345	3,957	4,227	0.6	772	953	1,077
111	2,479	13,355	15,506	6.3	3,654	3,281	4,026
112	864	7,209	7,457	8.6	978	2,101	2,199
113	7,115	6,777	7,510	1.1	978	1,488	1,987

¹ The revised Oahu total (including the Northwestern Hawaiian Islands) is 381,248 acres.

² Provisional estimates, with accuracy generally limited to two significant figures.

³ Excludes persons living in military barracks and inmates of institutions. Based on a sample survey of 5,368 employed persons. The Oahu total includes 206 workers with unreported places of employment.

⁴ Data differ in some instances from census totals; for discussion, see source.

⁵ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll but exclusive of the Midway Islands.

Source: Hawaii State Census Statistical Areas Committee, *Population and Housing Unit Estimates for Oahu Census Tracts, 1970-1977* (in preparation); Hawaii State Department of Health and Department of Planning and Economic Development, "Characteristics of Occupied Housing Units in Hawaii, 1974; Employment by Place of Work in Hawaii, 1974." *Population Report*, No. 7, December 1976, pp. 6-16.

Table 9.—POPULATION CENTERS AND MEDIANS: 1920 TO 1975

Measure, area, and year	Location	Movement since preceding date
Center:¹		
State, 1960	Kaiwi Channel, 7 mi. SE of Makapuu Point .....	...
State, 1970	Kaiwi Channel, 3½ mi. SE of Halona Blow Hole	4 mi. WNW
Hawaii Co., 1970	15 mi. W of Hilo, 11 mi. SE of Mauna Kea .....	...
Maui Co., 1970	1 mi. N of Iao Needle .....	...
Oahu, 1970	Tripler General Hospital .....	...
Kauai Co., 1970	7½ mi. N of Koloa, 3½ mi. SSE of Kawaikini .....	...
Median for Oahu:²		
1920	School and Liliha Streets, Honolulu .....	...
1930	School St. between Liliha and Lanakila Streets	800 ft. NW
1940	Liliha St. and Kellett Lane	1,000 ft. E
1950	Liliha and Kuakini Streets	200 ft. NE
1960	Alewa Dr. and Aulii St.	3,900 ft. NE
1970	Nihi and Moani Streets, Kalihi	5,300 ft. NW
1975	Southeast end of Kilohana St., Kalihi	1,500 ft. SW

¹ The "center of population" is that point which may be considered the center of population gravity of the State, or that point upon which the State would balance if it were a rigid plane without weight and the population distributed thereon with each individual being assumed to have equal weight and to exert an influence on a central point proportional to his distance from that point. The center of population thus differs from the geographic center, which is based on the distribution of land area rather than population; the geographic center of the State, according to the National Oceanic and Atmospheric Administration, "is about 29 miles west of the village of Honoipuu near the northern tip of the Island of Hawaii and 24 miles south of Kanahena Point on the southern shore of the Island of Maui."

² The population median is defined as the intersection of a line bisecting the population north and south with a line bisecting it east and west. This means that half of the population lives north of the point, and half, south; half lives east of the point, and half, west. It is the point which, if everyone living on Oahu made a single trip to it, traveling in a straight line, would require the fewest man¹-miles of travel. In practice, of course, trip distances are determined by topography and highway locations.

Source: U.S. Bureau of the Census, *Centers of Population for States and Counties* (1974), pp. 3, 66, and Hawaii map; Hawaii State Census Statistical Areas Committee, *Population and Housing Unit Estimates for Oahu Census Tracts, 1970-1975* (Report CTC-32, April 26, 1976), table 6; U.S. Department of Commerce, News Release NOS 73-80 (October 10, 1973).

Table 10.—POPULATION ESTIMATES AND PROJECTIONS, BY COUNTIES: 1975 TO 2000

[Resident totals including armed forces and their dependents but excluding visitors present. The figures for 1980-2000 are the Series II-F projections officially recommended by the Hawaii State Department of Planning and Economic Development for planning purposes, replacing the earlier Series E-2.]

Year	State total ¹	City and County of Honolulu	Other counties			
			Total ¹	Hawaii	Kauai	Maui
1975	868,400	705,400	163,000	75,300	32,700	55,000
1980	942,300	753,700	188,600	84,700	36,500	67,400
1985	1,020,900	803,800	217,100	95,200	40,600	81,400
1990	1,091,500	845,000	246,500	105,100	46,500	94,900
1995	1,163,800	885,800	278,000	115,000	53,100	109,900
2000	1,225,900	917,400	308,500	123,300	60,400	124,700

¹ Because of independent rounding, detail may not add exactly to indicated totals.

Source: Hawaii State Department of Planning and Economic Development, *Revised Population and Economic Projections, 1975-2000*, (March 1, 1978), p. 4.

Table 11.—POPULATION ESTIMATES AND PROJECTIONS, BY AGE: 1975 TO 2000

[Resident totals including armed forces and their dependents but excluding visitors present. The figures for 1980-2000 are the Series II-F projections officially recommended by the Hawaii State Department of Planning and Economic Development for planning purposes, replacing the earlier Series E-2.]

Age in years	1975 (est.)	Projected (Series II-F)				
		1980	1985	1990	1995	2000
All ages ¹	868,400	942,300	1,020,900	1,091,500	1,163,800	1,225,900
Under 5	62,800	72,600	80,800	85,800	90,100	93,800
5 to 9	72,000	71,000	76,900	83,000	88,200	92,100
10 to 14	79,000	73,200	73,600	77,600	82,900	87,300
15 to 19	82,300	79,400	76,600	77,000	80,700	84,600
20 to 24	101,700	107,300	106,900	105,300	106,700	108,600
25 to 29	80,200	87,700	92,100	91,800	92,000	92,100
30 to 34	67,000	78,600	87,000	90,300	91,500	91,400
35 to 39	53,000	66,900	78,400	85,700	89,700	90,900
40 to 44	47,400	53,400	64,100	73,700	80,700	84,400
45 to 49	50,100	48,700	54,300	62,900	71,400	77,500
50 to 54	50,400	48,400	49,300	54,400	62,100	69,200
55 to 59	38,300	44,400	45,900	48,300	53,500	60,000
60 to 64	29,600	37,000	41,500	43,800	47,200	52,100
65 to 69	22,100	28,200	34,000	37,800	40,800	44,300
70 to 74	15,400	20,200	25,500	30,000	33,500	36,500
75 to 79	9,600	13,400	17,400	21,600	25,200	28,100
80 to 84	4,700	7,300	10,000	13,000	15,900	18,400
85 and over	2,800	4,600	6,800	9,300	12,000	14,700
Median age (years)	27.3	28.9	30.2	31.4	32.3	33.0

¹ Because of independent rounding, age detail may not add exactly to indicated totals.

Source: Hawaii State Department of Planning and Economic Development, *Revised Population and Economic Projections, 1975-2000* (March 1, 1978), p. 5.

Table 12.—AGE AND SEX, BY COUNTIES: 1970

[Revised from 1970 census tabulations to take account of later corrections and apparent overstatement of centenarians.]

Age	State total			City & County of Honolulu		County of Hawaii		County of Kauai		County of Maui	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
All ages	769,913	399,908	370,005	327,744	302,784	32,898	30,570	15,556	14,205	23,710	22,446
Under 1 year	15,191	7,837	7,354	6,559	6,138	582	564	274	261	422	391
1 year	13,680	6,946	6,734	5,748	5,594	492	509	278	240	428	391
2 years	13,310	6,848	6,462	5,726	5,367	519	490	228	245	375	360
3 years	13,868	7,162	6,706	5,877	5,548	559	510	303	243	423	405
4 years	14,902	7,534	7,368	6,193	6,091	628	593	290	267	423	417
5 years	15,572	7,989	7,583	6,636	6,274	608	575	301	305	444	429
6 years	16,157	8,270	7,887	6,854	6,520	617	603	334	314	465	450
7 years	16,167	8,253	7,914	6,768	6,540	661	599	325	295	499	480
8 years	16,194	8,396	7,798	6,874	6,382	671	659	340	289	511	468
9 years	15,918	8,168	7,750	6,670	6,346	680	629	332	301	486	474
10 years	16,833	8,661	8,172	7,082	6,625	728	660	347	350	504	537
11 years	16,077	8,193	7,884	6,698	6,427	716	637	291	344	488	476
12 years	15,812	8,092	7,720	6,540	6,221	739	695	303	329	510	475
13 years	15,530	7,901	7,629	6,330	6,188	756	658	331	315	484	468
14 years	15,719	8,023	7,696	6,385	6,077	762	736	346	360	530	523
15 years	15,078	7,739	7,339	6,202	5,789	758	733	304	310	475	507
16 years	14,545	7,431	7,114	5,910	5,648	736	699	285	278	500	489
17 years	14,641	7,467	7,174	5,886	5,687	703	647	357	329	521	511
18 years	13,747	7,239	6,508	6,022	5,401	572	573	241	179	404	355
19 years	13,982	7,476	6,506	6,579	5,512	444	511	143	138	310	345
20 years	16,739	9,758	6,981	8,970	6,114	357	419	142	160	289	288
21 years and over	450,251	234,525	215,726	191,235	176,295	19,610	17,871	9,461	8,353	14,219	13,207
Under 5 years	70,951	36,327	34,624	30,103	28,738	2,780	2,666	1,373	1,256	2,071	1,964
5 to 9 years	80,008	41,076	38,932	33,802	32,062	3,237	3,065	1,632	1,504	2,405	2,301
10 to 14 years	79,971	40,870	39,101	33,035	31,538	3,701	3,386	1,618	1,698	2,516	2,479
15 to 19 years	71,993	37,352	34,641	30,599	28,037	3,213	3,163	1,330	1,234	2,210	2,207
20 to 24 years	81,732	46,909	34,823	42,996	30,695	1,804	1,906	787	829	1,322	1,393
25 to 29 years	59,583	30,420	29,163	26,434	25,042	1,855	1,775	837	894	1,294	1,452
30 to 34 years	47,731	23,895	23,836	20,565	20,156	1,471	1,621	753	849	1,106	1,210
35 to 39 years	46,781	23,131	23,650	19,659	19,634	1,628	1,875	770	850	1,074	1,291
40 to 44 years	48,946	23,798	25,148	19,384	20,561	2,048	2,110	956	926	1,410	1,551
45 to 49 years	46,296	23,394	22,902	18,722	18,407	2,083	2,072	1,026	949	1,563	1,474
50 to 54 years	38,122	19,655	18,467	15,291	14,441	1,948	1,801	886	866	1,530	1,359
55 to 59 years	30,399	17,069	13,330	12,592	10,104	1,956	1,461	1,029	683	1,492	1,082
60 to 64 years	23,417	13,817	9,600	9,499	7,141	1,904	1,118	1,008	500	1,406	841
65 to 69 years	17,691	9,689	8,002	6,639	5,896	1,373	955	695	484	982	667
70 to 74 years	11,852	5,791	6,061	3,933	4,577	835	676	387	319	636	489
75 to 79 years	7,031	3,066	3,965	2,081	2,932	476	461	223	186	286	386
80 to 84 years	4,604	2,369	2,235	1,552	1,661	389	283	165	105	263	186
85 years and over	2,805	1,280	1,525	858	1,162	197	176	81	73	144	114

Table 12.—AGE AND SEX, BY COUNTIES: 1970 (continued)

[Revised from 1970 census tabulations to take account of later corrections and apparent overstatement of centenarians.]

Age	State total			City & County of Honolulu		County of Hawaii		County of Kauai		County of Maui	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Under 18 years	275,194	140,910	134,284	114,938	109,462	11,915	11,196	5,569	5,375	8,488	8,251
62 years and over	56,955	29,763	27,192	20,134	20,236	4,352	3,166	2,158	1,464	3,119	2,326
65 years and over	44,043	22,255	21,788	15,063	16,228	3,270	2,551	1,611	1,167	2,311	1,842

Source: U.S. Bureau of the Census, unpublished computer printout transmitted to Federal-State Cooperative Program participants, December 4, 1974.

Table 13.—AGE OF THE POPULATION: 1970 TO 1976

Age	April 1, 1970 ¹	July 1, 1975 ²	July 1, 1976 ³	Percent distribution			Percent change, 1970-76 ³
				1970 ¹	1975 ²	1976 ³	
All ages	769,913	868,000	887,000	100.0	100.0	100.0	15.2
Under 5 years	70,951	75,000	74,000	9.2	8.6	8.3	4.3
5 to 17 years	204,243	208,000	209,000	26.5	24.0	23.6	2.3
18 to 44 years	312,502	363,000	373,000	40.6	41.8	42.1	19.4
45 to 64 years	138,234	166,000	171,000	18.0	19.1	19.3	23.7
65 years and over	43,983	57,000	60,000	5.7	6.6	6.8	36.4
14 years and over	554,702	655,000	673,000	72.0	75.5	75.9	21.3
18 years and over	494,719	586,000	603,000	64.3	67.5	68.0	21.9
21 years and over	450,251	524,000	541,000	58.5	60.4	61.0	20.2

¹ U.S. Census of Population, 1970, as corrected for omissions in original reports and adjusted for overstatement of centenarians.

² Revised estimates.

³ Provisional estimates. The 1976 total was later revised to 883,500.

Source: U.S. Bureau of the Census, "Estimates of the Population of States, by Age: July 1, 1975 and 1976 (Advance report)," *Current Population Reports, Population Estimates and Projections*, Series P-25, No. 646, February 1977.

Table 14.—ETHNIC STOCK: 1853 TO 1970
 [Data for 1970 are not comparable to data for earlier years]

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

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

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

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

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

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

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

Table 15.—ETHNIC STOCK BY MILITARY STATUS: SPRING 1976

[Excludes persons in institutions or military barracks or on Niihau. Based on a sample of 38,818 persons.]

Ethnic stock	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	851,824	100.0	35,426	74,672	741,727
CENSUS DEFINITION ¹					
White	286,894	33.7	27,165	56,181	203,548
Hawaiian	101,510	11.9	836	2,410	98,264
Negro	9,594	1.1	2,286	4,177	3,131
Chinese	48,449	5.7	114	458	47,878
Filipino	112,913	13.3	2,443	5,463	105,007
Japanese	242,465	28.5	1,103	2,145	239,217
American Indian	1,937	0.2	270	286	1,380
Korean	13,309	1.6	67	767	12,475
Other and unknown	34,754	4.1	1,142	2,786	30,825
HEALTH SURVEY DEFINITION ²					
Unmixed	633,600	74.4	32,845	63,733	537,023
Caucasian	236,314	27.7	26,327	50,879	159,109
Japanese	226,571	26.6	928	1,694	223,950
Hawaiian	11,422	1.3	105	214	11,103
Filipino	86,715	10.2	2,201	4,483	80,031
Chinese	36,570	4.3	43	291	36,237
Korean	10,941	1.3	67	669	10,206
Samoan	4,537	0.5	256	381	3,900
Negro	7,782	0.9	2,145	3,655	1,982
Puerto Rican	3,273	0.4	208	264	2,802
Other and unknown	9,473	1.1	565	1,203	7,704
Mixed	218,224	25.6	2,582	10,939	204,703
Part Hawaiian	139,689	16.4	986	3,387	135,316
Non Hawaiian	78,536	9.2	1,596	7,552	69,387

¹ Persons of mixed ethnic stock classified according to self-identification or race of father. Comparable to the 1970 U.S. Census but not to earlier censuses.

² Based on ethnic stock reported for the individual's parents.

Source: Hawaii State Department of Health and Department of Planning and Economic Development, *Population Characteristics of Hawaii, 1976* (Population Report, No.9, October 1977), table 4.

Table 16.—PLACE OF BIRTH AND RESIDENCE: 1960 AND 1970

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

Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13D, tables 98 and 99, and Final Report PC(2)-2A, table 11; *U.S. Census of Population: 1970*, Final Report PC(1)-D13, tables 140 and 141, and Final Report PC(2)-2A, table 2.

Table 17.—PLACE OF BIRTH: 1975

[Excludes persons living in military barracks, institutions, Kalawao, or Niihau. Based on a sample of 40,193 persons.]

Place of birth	Total	Military status			County of residence			
		Armed forces	Military dependents	Other civilians	Honolulu	Hawaii	Kauai	Maui
Total population	833,166	34,172	68,964	730,030	672,836	74,092	32,046	54,192
Hawaii	533,572	2,457	11,269	519,846	412,531	60,354	22,458	38,229
Same island as current residence	435,285	1,658	10,143	423,484	336,703	49,619	18,866	30,097
Different island	89,671	687	889	88,095	69,362	8,635	3,592	8,082
Island not reported	8,616	112	237	8,267	6,466	2,100	—	50
Other state or territory	189,447	29,474	47,880	112,093	171,105	7,047	3,487	7,808
Other state	182,456	29,166	47,295	105,995	164,543	6,790	3,420	7,703
American Samoa	4,332	68	134	4,130	4,142	190	—	—
Other U.S. terr.	2,659	240	451	1,968	2,420	67	67	105
Foreign country	107,362	2,106	9,632	95,623	86,961	6,501	6,070	7,831
China	6,883	—	217	6,666	6,748	81	12	43
Japan	23,985	69	2,135	21,781	19,854	1,849	680	1,602
Korea	4,934	—	385	4,549	4,650	60	61	163
Philippines	50,285	1,550	3,083	45,652	36,424	3,566	5,063	5,232
Vietnam	1,486	—	194	1,292	1,466	20	—	—
Other foreign countries	19,789	487	3,618	15,683	17,819	925	254	791
Place not reported	2,786	134	183	2,469	2,240	191	30	325
Percent born in —								
Hawaii	64.0	7.2	16.3	71.2	61.3	81.5	70.1	70.5
Other state or territory	22.7	86.3	69.4	15.4	25.4	9.5	10.9	14.4
Foreign country	12.9	6.2	14.0	13.1	12.9	8.8	18.9	14.5

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

Table 18.—LENGTH OF RESIDENCE IN STATE: 1975

[Excludes persons living in military barracks, institutions, Kalawao, or Niihau. Based on a sample of 40,193 persons.]

Length of residence in State	Total	Military status			County of residence			
		Armed forces	Military dependents	Other civilians	Honolulu	Hawaii	Kauai	Maui
Total population	833,166	34,172	68,964	730,030	672,836	74,092	32,046	54,192
Less than 1 year	49,644	7,016	17,845	24,783	44,674	1,875	952	2,143
1 to 9 years	269,237	23,660	46,340	199,237	228,097	16,282	9,626	15,232
10 years or more	509,779	3,344	4,498	501,937	396,294	55,658	21,369	36,458
Not reported	4,507	152	281	4,074	3,770	277	99	360
Percent —								
Less than 1 year	6.0	20.5	25.9	3.4	6.6	2.5	3.0	4.0
10 years or more	61.2	9.8	6.5	68.8	58.9	75.1	66.7	67.3

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

Table 19.—CITIZENSHIP: SPRING 1976

[Excludes persons in institutions or military barracks or on Niihau. Based on a sample survey of 38,818 persons.]

Island, age, and sex	All categories	U.S. citizens		U.S. nationals	Aliens	Status not reported
		Native born	Naturalized			
Total	851,824	746,208	39,837	2,748	62,479	552
Percent	100.0	87.6	4.7	0.3	7.3	0.1
ISLAND						
Hawaii	75,732	68,428	3,467	82	3,648	107
Maui	49,260	42,872	2,345	—	4,044	—
Lanai	2,000	1,379	230	—	391	—
Molokai	5,330	4,517	340	—	473	—
Oahu	685,933	599,618	31,897	2,666	51,307	445
Kauai	33,569	29,394	1,558	—	2,617	—
AGE						
Under 20 years	294,301	278,247	3,408	951	11,564	130
20 to 39 years	283,671	246,541	11,646	1,339	24,009	136
40 to 59 years	180,966	157,258	12,010	305	11,300	93
60 years and over ...	83,179	55,903	12,345	133	14,670	130
Age not reported	9,707	8,259	428	20	937	63
SEX						
Male	428,821	380,355	20,206	1,087	26,836	338
Female	422,675	365,594	19,632	1,661	35,574	214
Sex not reported	328	259	—	—	69	—

Source: Hawaii State Department of Health and Department of Planning and Economic Development, *Population Characteristics of Hawaii, 1976* (Population Report, No. 9, October 1977), tables 11, 12, and 13.

Table 20.—ALIEN ADDRESS CARDS RECEIVED FROM PERSONS RESIDING IN HAWAII, BY NATIONALITY: 1968 TO 1978
[Includes aliens other than permanent residents.]

Year	Total	China and Taiwan	Japan ¹	Korea	Philippines	United Kingdom	Vietnam ²	All others ³
1968	47,882	1,640	16,388	944	22,159	1,402	125	5,224
1969	49,642	1,750	15,850	1,005	23,410	1,557	127	5,943
1970	53,003	2,213	15,351	1,138	26,311	1,548	122	6,320
1971	57,187	2,167	15,099	1,483	29,116	1,949	173	7,200
1972	60,898	2,421	15,271	2,154	31,210	2,253	255	7,334
1973	63,034	2,446	15,125	2,906	32,183	2,395	373	7,606
1974	64,430	2,277	14,981	3,753	32,414	2,607	458	7,940
1975	65,339	2,591	14,555	4,726	31,439	2,516	529	8,983
1976	68,164	2,730	13,844	5,427	31,961	2,632	2,099	9,471
1977	68,567	2,847	13,622	5,767	31,598	2,680	2,395	9,658
1978	69,958	2,963	13,525	6,201	32,160	2,901	2,093	10,115

¹ Includes Ryukyu Islands, listed separately in source through 1974.

² Includes Cambodia (17 in 1978) and Laos (423) as well as Vietnam (1,653).

³ Includes Canada (1,890 in 1978), Germany (693), Western Samoa (580), Thailand (617), and Tonga (611).

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

Table 21.—MOTHER TONGUE BY PLACE OF BIRTH: 1970

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

Mother tongue	Place of birth									
	Total	Hawaii	Mainland U.S.	Other U.S. ¹	U.S., State not rptd.	China	Japan	Korea	Philippines	Other foreign
Total population ²	768,300	449,300	182,100	3,600	46,900	6,200	21,600	2,200	35,100	21,300
English	447,200	266,200	159,400	1,000	7,500	300	1,700	300	1,900	8,900
German	5,700	900	3,800	—	—	—	—	—	—	1,000
Portuguese	9,300	8,300	200	—	—	—	—	—	—	800
Spanish	13,300	6,500	4,500	500	200	—	300	—	200	1,100
Other European languages	10,500	800	7,500	100	—	—	—	100	100	1,900
Chinese	26,900	18,200	600	—	100	5,200	—	—	800	2,000
Korean	6,200	4,500	100	—	—	—	—	1,500	—	100
Japanese	116,900	95,000	1,100	100	100	400	18,700	—	—	1,500
Filipino ³	50,200	19,100	500	—	—	100	200	—	29,900	400
Hawaiian	18,700	17,900	200	—	100	—	—	—	300	200
Other Polynesian languages ⁴	4,200	1,200	100	1,500	—	—	—	—	—	1,400
Other languages	13,100	5,300	1,600	300	800	200	700	300	1,900	2,000
Not reported	46,100	5,400	2,500	100	38,100	—	—	—	—	—

¹ Born in a U.S. territory or possession or born abroad or at sea of U.S. parents.

² The final census count for Hawaii was 769,913. For data on place of birth based on a larger sample, see table 16.

³ Includes Ilocano, Tagalog, and other Filipino tongues.

⁴ Chiefly Samoan and Tongan. Also includes Micronesian and Melanesian languages.

Source: U.S. Census of Population, Public Use Sample, special tabulation.

Table 22.—UNDERSTANDING OF ENGLISH: SPRING 1976
 [Excludes persons under 18 years of age, inmates of institutions, and residents of military barracks.]

Understanding of English	Number	Percent
All adults	596,039	100.0
Understand easily	556,225	93.3
Do not understand easily	33,882	5.7
Do not understand	5,902	1.0

Source: Hawaii State Department of Health, *Comprehension of English in Hawaii* (R & S Report, No. 20, February 1978), p.5.

Table 23.—HOUSEHOLD AND FAMILY CHARACTERISTICS: 1960 TO 1976

Subject	1960	1970 ¹	1976
RELATIONSHIP TO HEAD OF HOUSEHOLD			
All persons	632,772	768,561	(NA)
In households	592,807	730,095	842,000
Head of household	153,064	203,088	244,000
Wife of head	112,452	147,818	} 198,000
Child under 18 of head	226,103	250,208	
Other child of head	} 87,858	{ 56,122	
Other relative of head		{ 53,837	
Not related to head	13,330	19,022	
In group quarters	39,965	38,466	(NA)
Inmate of institution	4,621	3,854	(NA)
Military barracks and other	35,344	34,612	(NA)
Persons per household	3.87	3.59	3.45
FAMILY CHARACTERISTICS			
Families	130,871	170,358	201,000
Husband-wife families	113,164	147,818	169,000
Families with female head	11,842	15,871	22,000
Other families	5,865	6,669	10,000
Unrelated individuals	67,996	83,093	66,000
Persons per family	4.29	3.98	3.86
Married couples	120,192	154,678	(NA)
With own household	112,937	147,326	(NA)
Without own household	7,255	7,352	(NA)
Percent without own household	6.0	4.8	(NA)

NA Not available.

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

Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13B, table 19, Final Report PC(1)-13C, table 50, and PC(1)-13D, table 110; *U.S. Census of Population: 1970*, Final Report PC(1)-B13, table 22, and PC(1)-C13, tables 52 and 57; U.S. Bureau of the Census, "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," *Current Population Reports, Consumer Income*, Series P-60, No. 108 (November 1977), p. 145, and "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," *Current Population Reports, Consumer Income*, Series P-60, No. 113 (July 1978), pp. 175-180.

Table 24.—HOUSEHOLD AND FAMILY CHARACTERISTICS: 1976

Subject	Number
Persons	
Population in households	842,000
In families	776,000
Head	201,000
65 years and over	21,000
Related children under 18 years	275,000
Related children 5 to 17 years	204,000
Other family members	299,000
Unrelated individuals	66,000
65 years and over	12,000
In families with female head, no husband present	77,000
Head	22,000
Related children under 18 years	36,000
Related children 5 to 17 years	27,000
Other family members	19,000
Female unrelated individuals	29,000
Families	
Total families	201,000
Size:	
2 persons	59,000
3 persons	43,000
4 persons	45,000
5 persons	27,000
6 persons	16,000
7 persons or more	10,000
Mean size of family	3.86
Number of related children under 18 years:	
No related children under 18 years	78,000
With related children under 18 years	123,000
1 child	47,000
2 children	42,000
3 children or more	34,000
Mean number of children	2.26

Source: U.S. Bureau of the Census, "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," *Current Population Reports, Consumer Income*, Series P-60, No. 113 (July 1978), p. 179.

Table 25.—HOUSEHOLDS: 1960 TO 1978

Year (July 1)	Total households	Year (July 1)	Total households	Husband-wife households
1960	154,000	1970	205,000	...
1961	159,000	1971	213,000	...
1962	162,000	1972	223,000	160,000
1963	165,000	1973	234,000	166,000
1964	170,000	1974	242,000	168,000
1965	175,000	1975	252,000	171,000
1966	181,000	1976	260,000	173,000
1967	186,000	1977 ¹	267,000	175,000
1968	192,000	1978 ¹	274,000	...
1969	198,000			
		Total households		
County		April 1, 1960	April 1, 1970	July 1, 1978 ¹
State total		153,064	203,088	274,000
Honolulu		117,856	164,763	216,000
Hawaii		15,789	17,260	25,000
Kauai		8,078	8,282	11,000
Mauai		11,341	12,783	22,000

¹ Provisional estimate.

Source: Hawaii State Department of Planning and Economic Development, *Household Estimates for Hawaii, 1960-1978* (Statistical Report 124, July 25, 1978).

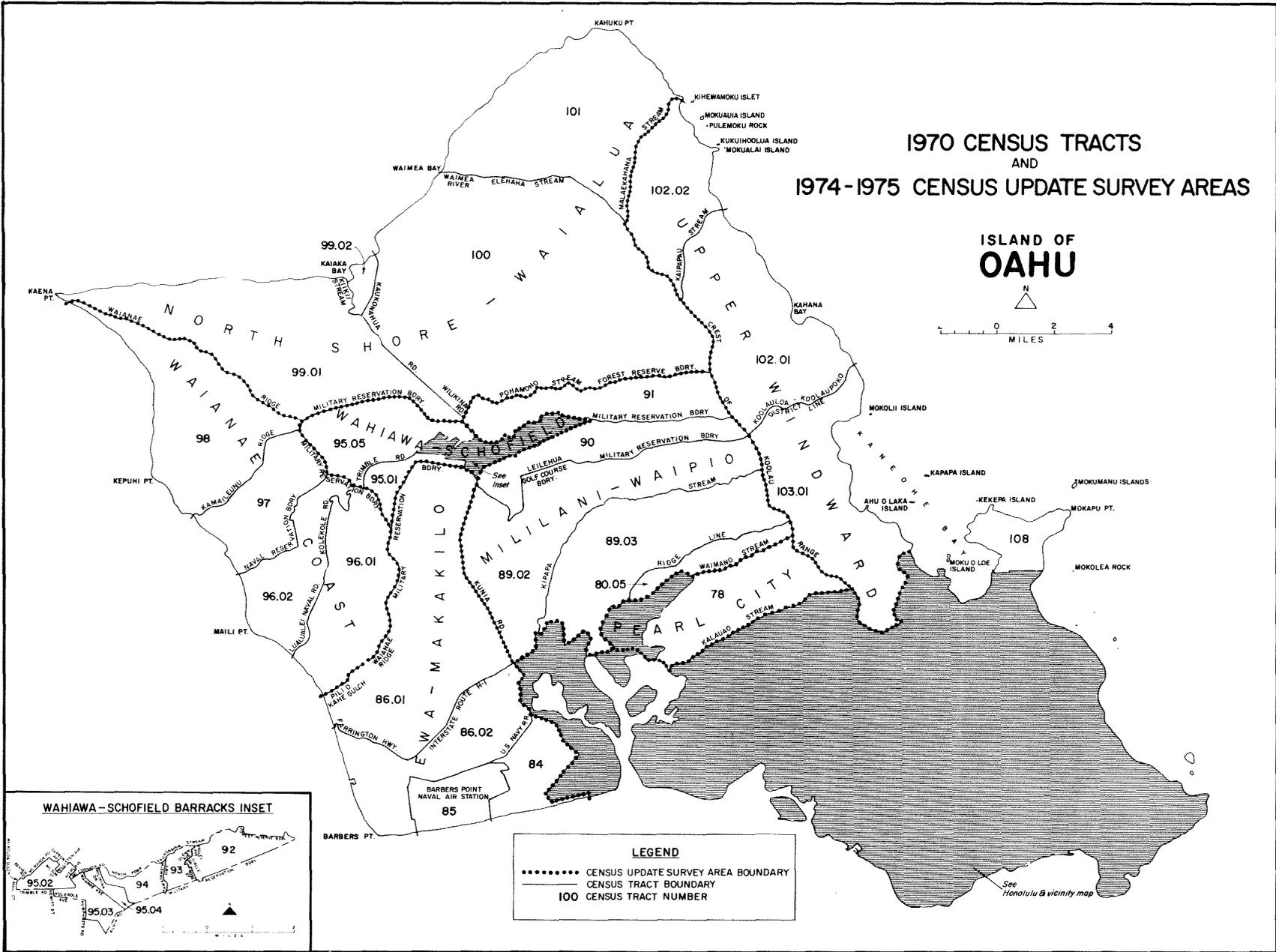
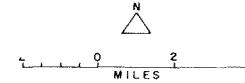
Table 26.—MARITAL STATUS, BY SEX: 1960 AND 1970

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

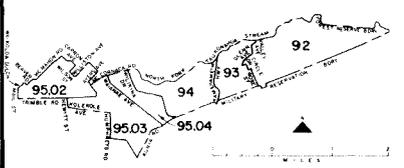
Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13B, table 18; *U.S. Census of Population: 1970*, Final Report PC(1)-B13, table 22.

1970 CENSUS TRACTS AND 1974-1975 CENSUS UPDATE SURVEY AREAS

ISLAND OF OAHU



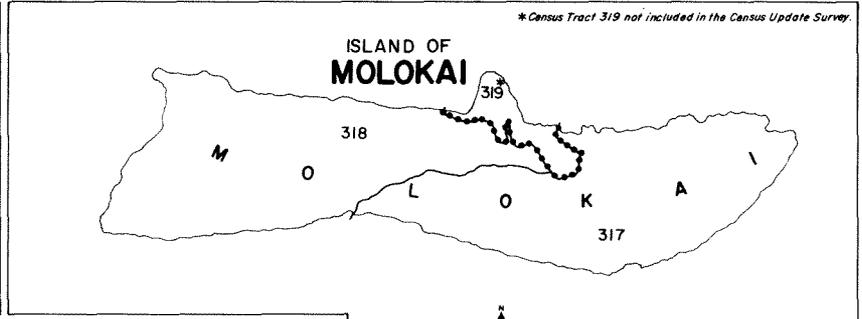
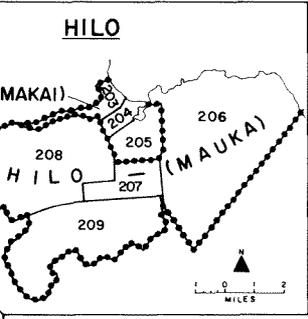
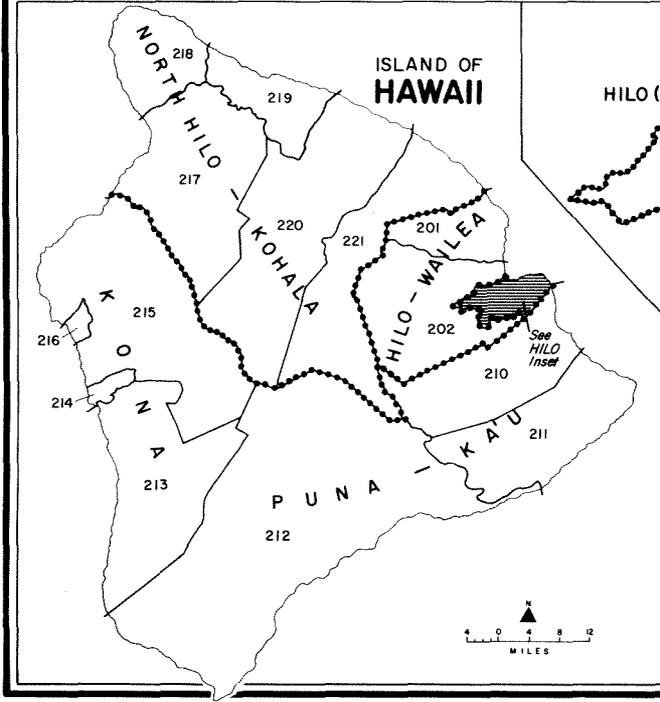
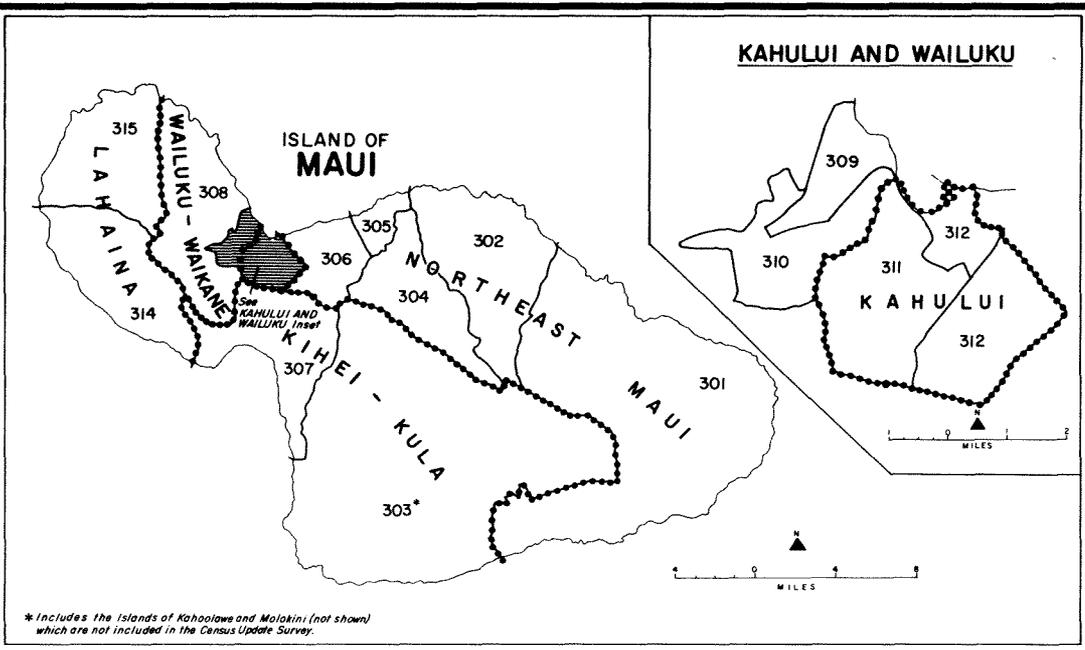
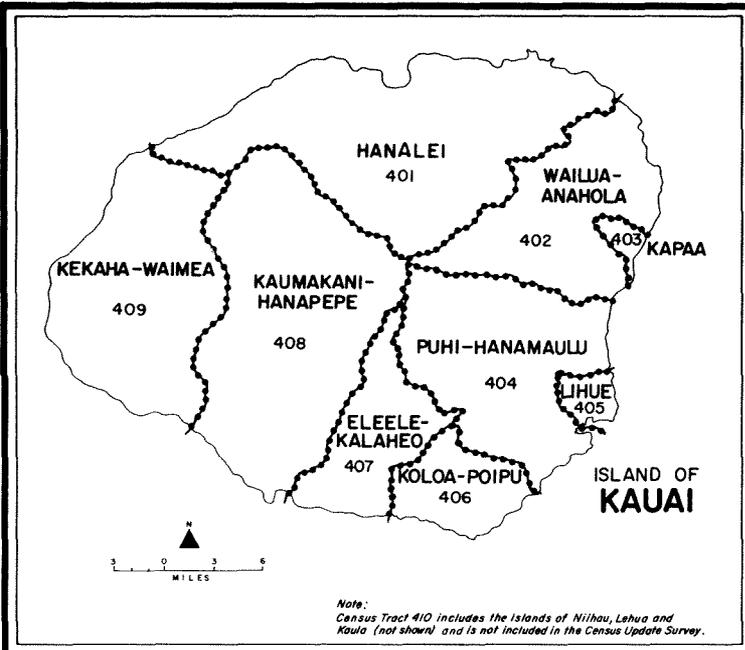
WAHIAWA - SCHOFIELD BARRACKS INSET



LEGEND

- CENSUS UPDATE SURVEY AREA BOUNDARY
- CENSUS TRACT BOUNDARY
- 100 CENSUS TRACT NUMBER

See Honolulu & vicinity map



**1970 CENSUS TRACTS
AND
1974-1975
CENSUS UPDATE SURVEY AREAS**

LEGEND

- CENSUS UPDATE SURVEY AREA BOUNDARY
- CENSUS TRACT BOUNDARY
- 307 CENSUS TRACT NUMBER

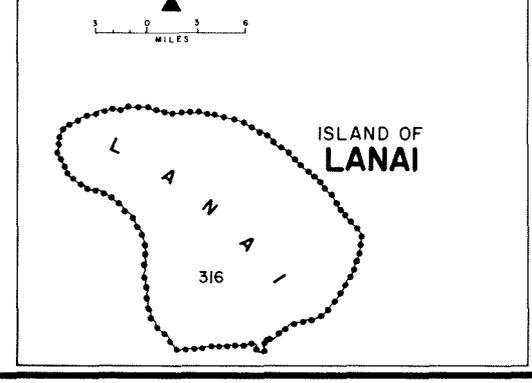


Table 27.—POPULATION AND HOUSING CHARACTERISTICS, BY DISTRICTS: 1975

District	Popu- la- tion ¹	Median age (years)	Percent born out of State	Percent high school grad ²	Percent un- em- ployed ³	Median h'hold income ⁴ (dollars)	Occupied housing units		
							Percent owner occup'd	Mo. cost (dollars)	
								Owned ⁵	Rented ⁶
Oahu, total	678,979	25.9	41.2	73.7	7.5	14,139	47.8	256	197
Niu-Hawaii Kai	26,191	27.3	44.2	92.8	7.9	25,986	81.0	399	397
Diamond Head-Aina Haina	18,795	34.4	38.8	88.5	8.1	26,600	87.0	374	367
Kaimuki-Kapahulu	27,775	32.8	18.4	63.8	3.7	14,301	55.4	129	196
Wilhelmina-Palolo	29,459	28.5	23.9	72.5	5.3	16,202	68.1	188	241
Manoa-Makiki	40,453	28.2	38.3	87.5	7.6	14,987	46.4	290	223
Moiliili-Makiki	38,793	24.3	38.1	74.8	4.5	11,864	21.4	262	198
Waikiki	17,096	31.2	75.8	81.7	14.7	10,302	24.8	258	206
Downtown-Kakaako	17,229	29.8	50.1	63.6	8.4	9,458	11.7	290	170
Nuuanu-Punchbowl	26,174	31.4	21.5	70.6	4.7	14,755	67.6	179	182
Upper Kalihi	30,810	28.8	32.7	49.6	7.5	14,226	57.2	182	179
Kalihi-Kapalama	29,497	27.2	35.3	44.8	8.3	10,061	25.0	175	120
Moanalua-Salt Lake	40,741	24.2	59.8	84.8	16.3	13,522	34.3	285	189
Aiea-Halawa	23,000	24.5	39.6	74.4	8.3	16,879	67.8	241	234
Pearl City	28,418	24.9	32.3	80.3	7.6	18,730	64.5	247	304
Pearl Harbor	20,425	18.8	76.0	89.8	4.7	12,133	15.3	199	184
Waipahu	30,022	22.3	46.4	63.1	3.6	12,760	41.8	251	252
Ewa-Makakilo	20,578	22.4	47.5	69.0	3.4	12,674	45.1	270	150
Waianae Coast	26,926	20.5	24.5	50.6	11.9	12,566	49.3	162	186
Mililani-Waipio	32,005	23.3	46.7	80.2	5.6	16,286	63.9	307	290
Wahiawa-Schofield	32,935	22.1	61.0	76.8	9.2	10,371	27.0	258	194
North Shore-Waialua	13,675	24.3	41.7	58.2	9.0	11,732	39.8	157	183
Upper Windward	17,205	24.4	40.3	74.8	9.6	16,040	57.2	347	250
Kaneohe	41,620	22.7	35.4	78.8	7.6	16,734	55.4	241	192
Kailua	40,722	25.8	47.1	85.6	7.2	19,815	71.7	319	286
Waimanalo	8,435	22.1	12.9	53.2	2.9	12,949	66.7	94	106
Hawaii County, total	74,700	28	20.8	59.0	7.6	11,337	60.6	89	135
Hilo-Wailea	7,347	30	18.2	42.6	7.0	10,131	63.7	73	83
Hilo (makai)	13,113	25	22.7	62.5	9.7	8,803	36.8	112	158
Hilo (mauka)	18,856	27	13.3	70.0	8.6	15,092	77.2	128	212
Puna-Ka'u	10,863	30	25.8	55.8	5.4	10,293	76.9	88	92
Kona	10,864	27	26.0	64.8	6.8	12,165	55.0	89	173
North Hilo-Kohala	13,657	29	22.7	48.4	6.3	9,946	54.9	68	77
Maui County, total	59,661	29.2	31.0	62.8	6.5	13,370	65.9	137	164
Northeast Maui	10,775	25.6	26.0	60.0	5.5	13,300	73.1	116	193
Kihei-Kula	9,347	31.9	51.8	78.3	7.3	14,980	61.2	244	266
Kahului	11,186	28.8	21.4	58.1	4.0	14,450	78.5	157	212
Wailuku-Waikapu	10,810	35.2	19.0	64.4	5.7	13,770	73.2	123	178
Lahaina	9,278	29.3	44.0	67.6	1.8	12,640	56.7	168	222
Molokai	5,815	24.9	23.6	47.2	21.7	9,970	44.3	74	59
Lanai	2,450	29.6	36.4	35.7	11.5	10,740	52.5	51	56

Table 27.—POPULATION AND HOUSING CHARACTERISTICS, BY DISTRICTS: 1975 (Continued)

District	Popu- la- tion ¹	Median age (years)	Percent born out of State	Percent high school grad ²	Percent un- em- ployed ³	Median h'hold income ⁴ (dollars)	Occupied housing units		
							Percent owner occup'd	Mo. cost (dollars)	
								Owned ⁵	Rented ⁶
Kauai, total (1974)	29,460	27.1	...	63	...	10,750	53.8	...	125
Hanalei	1,700	23.7	...	...	...	11,600	53.2	...	124
Wailua-Anahola	4,220	26.9	...	...	...	13,620	64.4	...	102
Kapaa	3,630	24.9	...	...	...	10,190	48.5	...	153
Puhi-Hanamaulu	3,140	23.9	...	...	...	10,330	65.8	...	68
Lihue	3,090	28.5	...	...	...	14,290	71.7	...	118
Koloa-Poipu	2,850	27.0	...	...	...	10,600	51.7	...	138
Eleele-Kalaheo	3,910	29.7	...	...	...	9,680	55.7	...	149
Kaumakani-Hanapepe	2,700	35.3	...	...	...	7,750	28.8	...	154
Kekaha-Waimea	4,220	24.1	...	...	...	10,110	42.6	...	99

¹ Estimated resident population, excluding institutional, barracks, and shipboard populations. Preliminary; for revised estimates by island, see table 4.

² Percent of population 25 years old and over with high school diplomas.

³ Percent of civilian labor force, 16 years old and over, who were unemployed and seeking work.

⁴ Median income of households from all sources during 1974 (1973 for Kauai).

⁵ Median monthly housing costs, excluding maintenance costs and utilities, for owner occupied housing units.

⁶ Median monthly contract rent of renter occupied housing units, excluding those not paying cash rent.

Source: Survey & Marketing Services, Inc. *OEO 1975 Census Update Survey* for Oahu (September 1976), Hawaii County (September 1976), and Maui County (February 1976); University of Hawaii, Center for Nonmetropolitan Planning and Development, *Kauai Socioeconomic Profile* (May 1975).

Table 28.—RELIGION: JUNE 1976

[Based on a sample of 4,309 persons, surveyed by the Oahu Public Communications Council of the Church of Jesus Christ of Latter-Day Saints regarding their religious and ethical attitudes and beliefs.]

Island	Religion (percent ¹)							Active church member- ship (percent ²)		
	Atheist, agnostic	Protest- ant	Jew	LDS	Buddhist	Catholic	Other	Yes	No	Unde- cided
Six-island total	3	24	(³)	8	11	31	24	41	57	2
Hawaii	3	17	(³)	9	12	33	25	47	51	—
Maui	9	13	(³)	7	8	33	30	37	60	1
Lanai	—	7	—	68	13	4	7	73	23	2
Molokai	—	25	—	5	7	39	24	43	56	—
Oahu:										
Honolulu	4	25	(³)	6	14	26	25	39	58	2
Other Oahu	2	26	1	7	8	34	22	39	59	1
Kauai	1	31	1	9	12	28	18	49	49	1

¹ Data independently rounded to the nearest full percent.

² Data truncated rather than rounded.

³ Less than one-half of one percent.

Source follows next table.

Table 29.—ACTIVE CHURCH MEMBERSHIP: JUNE 1976

[Based on a sample of 4,309 persons on six islands, surveyed by the Oahu Public Communications Council of the Church of Jesus Christ of Latter-Day Saints.]

Subject	Active church membership (percent ¹)			
	Total	Yes	No	Undecided
Total	100	41	57	2
Sex:				
Male	100	39	59	1
Female	100	44	54	1
Ethnic stock:				
Caucasian	100	38	60	1
Chinese	100	45	53	1
Filipino	100	60	38	1
Hawaiian or mixed	100	43	54	1
Japanese	100	33	64	1
Samoaan	100	67	29	3
Other	100	42	54	2
Age:				
Under 21 years	100	35	62	2
21 to 30 years	100	33	64	1
31 to 45 years	100	43	54	1
46 to 60 years	100	49	49	1
Over 60 years	100	55	43	—
Religion:				
Atheist, agnostic	100	11	85	2
Protestant	100	42	55	1
Jew	100	19	76	4
LDS	100	59	38	2
Buddhist	100	33	63	2
Catholic	100	49	49	1
Other	100	32	66	1

¹ Data truncated rather than rounded, and do not necessarily add to indicated totals.Source: Oahu Public Communications Council of the Church of Jesus Christ of Latter-Day Saints, *The Purpose of Life Survey* (pamphlet, 1976), and underlying printouts.

**Table 30.—COMPONENTS OF CHANGE IN THE CIVILIAN POPULATION:
1960 TO 1970 AND 1970 TO 1977**

Subject	April 1, 1960 to March 31, 1970			April 1, 1970 to June 30, 1977		
	Civilian population	Military dependents	Not military dependents	Civilian population	Military dependents	Not military dependents
Net change	+133,937	+1,801	+132,136	+123,500	+3,100	+120,300
Natural increase	126,161	42,351	83,810	84,000	26,000	58,000
Percent	94.2	...	63.4	68.0	...	48.2
Births	163,762	43,908	119,854	114,200	27,200	87,000
Deaths	37,601	1,557	36,044	30,200	1,100	29,100
Military separations less inductions	-4,120	—	-4,120	+2,800	—	+2,800
Net migration ¹	+11,896	-40,550	+52,446	+36,700	-22,900	+59,600
Percent	8.9	...	39.7	29.7	...	49.5

NA Not available

¹ A plus sign (+) indicates a net in-migration; a minus sign (-) indicates a net out-migration.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's In-Migrants, 1971* (Statistical Report 89, April 10, 1972), pp. 17-18, and *The Population of Hawaii, 1977* (Statistical Report 125, September 13, 1978), table 4.

**Table 31.—INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES:
1967 TO 1977**

Calendar year	Number arriving by military status				Persons per party	High status ¹ (percent)	Median age (years)	From West Coast ² (percent)
	Total	Military personnel	Military dependents	Other civilians				
1967	44,117	14,496	8,702	20,919	1.43	59.9	23.8	33.4
1968	42,236	12,655	7,619	21,962	1.43	68.3	24.1	38.8
1969	41,162	12,198	8,336	20,628	1.45	61.9	24.0	41.2
1970	40,073	8,561	7,129	24,383	1.44	65.6	24.4	42.8
1971	41,562	9,355	8,649	23,558	1.48	64.2	24.3	38.6
1972	44,388	10,267	11,637	22,484	1.57	64.7	24.1	35.1
1973	36,886	9,200	6,180	21,506	1.40	61.6	24.2	39.1
1974	37,007	9,421	8,744	18,842	1.53	67.4	24.2	42.4
1975	39,233	10,006	10,887	18,340	1.58	67.3	23.6	35.1
1976	40,690	10,991	10,518	19,181	1.55	67.1	24.3	34.1
1977	43,617	12,361	12,771	18,485	1.64	70.2	24.0	30.1

¹ Party heads classified as professional, technical, business, managerial, or official as a percent of all party heads reporting civilian occupations.

² Persons from California, Oregon, or Washington State as a percent of all persons reporting previous residence.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's In-Migrants* (annual).

Table 32.—IMMIGRANTS ADMITTED AND PERSONS NATURALIZED: 1967 TO 1977

Years ¹	Immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence, by country of birth							Persons naturalized
	Total	Canada	China and Taiwan	Japan	Korea	Philippines	Other countries ²	
1967	3,825	135	327	382	(³)	2,147	834	1,902
1968 ⁴	4,693	159	238	186	91	3,033	986	1,601
1969	5,199	127	389	317	284	3,181	901	1,607
1970	9,013	90	423	363	596	6,426	1,115	2,658
1971	6,055	81	271	409	568	3,704	1,022	2,135
1972	6,765	92	392	603	868	3,764	1,046	2,389
1973	6,881	64	455	544	1,305	3,179	1,334	2,099
1974	6,549	64	429	464	1,127	3,418	1,047	2,833
1975	7,012	87	555	587	1,476	2,913	1,394	3,094
1976	7,789	110	631	556	1,515	3,222	1,755	3,130
1976 ⁵	1,882	45	153	(³)	278	859	547	1,118
1977 ⁶	7,825	175	527	495	1,488	3,568	1,572	4,532

¹ Twelve-month periods ended June 30 unless otherwise indicated.

² Includes nonrefugee Vietnamese (196 in 1975, 341 in 1976, and 137 in fiscal 1977) but excludes many refugee Vietnamese still in parole status as of September 30, 1977.

³ Included with "other countries".

⁴ Data for Korea and Japan cover only the six-month period ended December 31, 1967.

⁵ July 1-September 30, 1976.

⁶ Twelve-month period ended September 30.

Source: U.S. Immigration and Naturalization, *Annual Report for 1966-1976* and records

Table 33.—RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: SPRING 1976

[Excludes persons in institutions or in military barracks, or on Niihau.
Based on a sample survey of 38,818 persons.]

Place of residence 1 year earlier	Total	Armed forces	Military dependents	Other civilians
Total	851,824	35,426	74,672	741,727
Same house	638,835	18,765	41,956	578,115
Different house, same island	99,690	7,667	11,302	80,721
Different island	5,256	24	39	5,193
Different state	40,590	7,699	16,314	16,577
U.S. territory or possession	1,005	24	24	957
Different country	10,406	977	1,544	7,886
Previous residence not reported	45,488	271	337	44,880
Under 1 year old	10,555	—	3,157	7,398

Source: Hawaii State Department of Health and Department of Planning and Economic Development, *Population Characteristics of Hawaii, 1976* (Population Report, No. 9, October 1977), table 8.

Section 2

VITAL STATISTICS AND HEALTH

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

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth was 71.02 years for males, 76.79 years for females, and 73.60 for both sexes combined in 1969-1971; the latter figure was the highest among all fifty states. The crude death rate in 1977 was only 5.3, half the 1930 level. Deaths under one year of age per 1,000 live births dropped from 82.3 in 1930 to 12.3 in 1977. Diseases of the heart have accounted for a third of all deaths in recent years; cancer, for one-fifth. The 1977 crude birth rate was 19.0, compared with 29.2 two decades earlier. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,821 in 1975. Over 97 percent of all babies were born in hospitals in 1976, and almost a fourth were born to military couples. One out of seven births were illegitimate. There were 6,838 fetal deaths in 1976, including 5,163 elective abortions. Marriages numbered 10,266 in 1977, with about 21 percent accounted for by nonresidents. Divorces reached a 1977 total of 4,601. The State had 22 acute care civilian hospitals (with 2,232 beds), 32 skilled nursing and intermediate care facilities (with 2,806 beds), and 252 care homes (with 1,763 beds) in 1976. There were 2,340 physicians and surgeons, 553 dentists, 6,485 professional nurses, and 515 pharmacists when most recently surveyed. Acute conditions per 100 persons averaged 199 per year in 1972-1974, with respiratory conditions the most common complaint (at 136 cases per 100 persons). Among chronic conditions reported in the 1972-1974 survey data, the most frequently mentioned were hypertension without heart involvement (5.8 per 100 persons), hay fever (4.4), and asthma (3.6). The most common communicable disease reported to authorities in 1976 was scarlet fever, with 5,905 cases. Dental health was only fair; the average number of decayed, missing or filled teeth when last surveyed was 6.85 for intermediate school students and 10.61 for those in high school.

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. Sections 2 and 4 of the *Statistical Abstract of the United States: 1977* contain similar data for the nation as a whole.

Table 34.—BIRTHS AND DEATHS: 1967 TO 1977
[Place of occurrence basis]

Calendar year	Births	Deaths ¹	Rates per 1,000 resident population		Rates per 1,000 live births		
			Births	Deaths ¹	Illegitimate births	Fetal deaths ²	Infant deaths ³
1967	14,765	3,973	20.4	5.5	87.5	13.7	16.9
1968	14,595	4,250	19.9	5.8	94.8	14.3	19.0
1969	15,690	4,214	20.9	5.6	96.6	13.7	19.2
1970	16,467	4,197	21.3	5.4	95.8	20.6	19.1
1971	15,845	4,351	19.9	5.5	88.4	23.5	16.0
1972	15,413	4,483	18.8	5.5	93.0	22.8	17.5
1973	15,358	4,579	18.2	5.4	104.0	16.4	13.7
1974	15,528	4,598	18.2	5.4	108.8	16.3	16.0
1975	15,766	4,572	18.2	5.3	123.2	18.9	13.7
1976	16,409	4,717	18.6	5.3	125.0	20.8	11.2
1977	16,983	4,724	19.0	5.3	143.3	21.6	12.3

NA Not available.

¹ Includes armed forces.

² 20 weeks gestation and over. Includes elective abortions.

³ Under 1 year of age.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," *R & S Report*, No. 5 (June 1974); *Statistical Report* for 1973-1976; and records.

Table 35.—BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1976 AND 1977
[Place of occurrence basis]

Military status	De facto population		Live births		Deaths		Birth rate ¹		Death rate ¹	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
Total population	952,700	972,500	16,409	16,983	4,717	4,725	17.2	17.5	5.0	4.9
Armed forces	57,800	56,500	—	—	67	76	0	0	1.2	1.3
Civilians	894,900	916,000	16,409	16,983	4,650	4,649	18.3	18.5	5.2	5.1
Military dependents ...	67,000	65,000	3,803	3,771	161	156	56.8	58.0	2.4	2.4
Other civilians	827,900	851,000	12,606	13,212	4,489	4,493	15.2	15.5	5.4	5.3
Armed forces and dependents	124,700	121,500	3,803	3,771	228	232	30.5	31.0	1.8	1.9

¹ Per 1,000 de facto population. For rates based on resident population, see table 34.

² Provisional.

Source: Population from the Hawaii State Department of Planning and Economic Development, *Statistical Report* 125. Births and deaths from Hawaii State Department of Health, *Statistical Report* 1976 and records.

Table 36.—CHARACTERISTICS OF BIRTHS AND DEATHS: 1966 TO 1976
[Place of residence basis]

Subject	1966	1975	1976
LIVE BIRTHS			
Number	14,920	15,689	16,292
Percent on Oahu	84.6	80.8	79.9
Males per 100 females	104.8	106.2	107.2
Percent attended by M.D. in hospital ¹	99.4	99.1	97.3
Percent with prenatal visit in first 3 months ¹	50.9	67.9	70.4
Percent of mixed race ^{1,2}	42.4	43.2	44.4
Median age of mother (years) ¹	25.4	25.2	25.5
Percent first births to mother ¹	30.3	36.4	36.6
Median weight of single births (grams) ¹	3,203	3,256	3,260
Percent of births plural ¹	1.8	2.0	1.8
Percent of births premature (under 2,500 grams) ¹	8.2	7.8	7.2
Percent with one or more congenital malformations ¹	1.1	1.0	0.9
DEATHS³			
Number	3,632	4,272	4,349
Percent on Oahu	73.6	73.1	72.4
Males per 100 females ¹	162.5	160.8	152.7
Median age (years).....	64.9	67.8	67.8
Disposition (percent): Burial ¹	55.3	49.4	47.7
Cremation ¹	36.1	38.4	40.1
Removal ¹	7.9	11.5	12.1
Other ¹	0.6	0.7	0.1
INFANT AND FETAL DEATHS¹			
Infant deaths, under 1 year	282	201	172
Infant deaths per 1,000 live births:			
Under 1 day	10.4	5.5	4.2
Under 1 week	14.2	8.1	6.3
Under 1 month	15.7	9.4	7.7
Under 1 year	18.9	12.8	10.6
Fetal deaths, total	899	5,792	6,838
Per 1,000 deliveries	57	270	296
Fetal deaths, 20 or more weeks gestation	172	292	334
Elective abortions	15	4,316	5,163
Per 1,000 live births	1	275	317

¹ Data for 1966 on place of occurrence basis.

² Includes Part Hawaiian. Base excludes births with unknown parentage.

³ Data for 1966 exclude armed forces.

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

Table 37.—CAUSE OF DEATH: 1936, 1966, AND 1976
 [Place of residence basis. Includes armed forces.]

Cause of death ¹	Number, 1976	Percent distribution			Rate per 100,000 population		
		1976	1966	1936	1976	1966	1936
All causes	4,719	100.0	100.0	100.0	532.2	541.9	867.0
Diseases of the heart	1,583	33.5	33.6	15.4	178.5	181.9	133.3
Malignant neoplasms	982	20.8	18.2	8.1	110.8	98.5	70.4
Cerebrovascular diseases	413	8.8	7.9	5.5	46.6	42.8	47.7
All accidents	314	6.7	7.6	6.8	35.4	41.4	58.8
Influenza and pneumonia	216	4.6	3.6	9.9	24.4	19.4	86.3
Diabetes mellitus	137	2.9	3.3	2.1	15.5	17.6	17.9
Suicide	98	2.1	1.8	1.8	11.1	9.6	15.9
Certain causes of mortality							
in early infancy	91	1.9	5.2	5.9	10.3	28.3	51.3
Cirrhosis of liver	75	1.6	1.1	1.0	8.5	6.2	8.3
Homicide and legal intervention	57	1.2	0.5	0.7	6.4	2.8	6.3
Congenital anomalies	53	1.1	1.8	1.9	6.0	9.9	16.4
Symptoms and ill-defined conditions	51	1.1	0.0	0.2	5.8	0.1	1.5
Other external causes	51	1.1	0.1	—	5.8	0.3	—
Other diseases of arteries, etc.	45	1.0	1.3	0.1	5.1	7.2	1.0
Bronchitis, emphysema and asthma	37	0.8	2.1	0.7	4.2	11.5	5.8
All other causes	516	10.8	11.9	39.9	57.8	64.3	345.9

¹ The leading causes of death in 1976, listed in order of deaths for that year.
 Source: *Statistical Report, Department of Health, State of Hawaii, 1976*, p. 23.

Table 38.—ACCIDENTS AND NATURAL DISASTERS CAUSING FIVE OR MORE DEATHS: 1779 TO 1977

Category or year	All disasters		Worst disaster	
	Number	Deaths	Year or category	Deaths
All categories, 1779-1977	133	5,794	1941	2,500
Natural disasters	13	765	1790	400
Tsunami	5	287	1946	159
Flood, wind, or earth movement	7	78	1868	31
Volcano	1	400	1790	400
Fire or explosion	6	219	1944	163
Transportation ¹	107	2,138	1830	250
Marine	54	1,531	1830	250
Air	45	562	1955	66
Railroad	1	5	1916	5
Motor vehicle	7	40	1944, 1969	7
Violence ²	7	2,672	1941	2,500
Pearl Harbor attack	1	2,500	1941	2,500
Assault, murder, or riot	6	172	1790	100+
1779 to 1799	5	546	Volcano	400
1800 to 1849	10	381	Marine	250
1850 to 1899	20	488	Marine	210
1900 to 1949	57	3,784	Pearl Harbor	2,500
1950 to 1959	16	274	Air	66
1960 to 1969	10	183	Tsunami	61
1970	1	5	Auto	5
1971	3	35	Air	24
1972	2	28	Marine	20
1973	2	11	Air	6
1974	4	29	Air	11
1975	—	—	...	—
1976	2	25	Marine	17
1977	1	5	Air	5

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

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

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. 3 (1969), pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976" (unpublished paper, September 21, 1976), as updated to December 31, 1977.

Table 39.—AVERAGE LIFETIME IN YEARS, BY SEX: 1959-1961 TO 1975

Period	Years			Rank ¹		
	Both sexes	Male	Female	Both sexes	Male	Female
1959-1961	71.55	69.79	74.01	7	(NA)	(NA)
1969-1971 ²	73.60	71.02	76.79	1	1	3
1975	75.9	74.01	77.94	(NA)	(NA)	(NA)

NA Not available

¹ Among 50 States and D.C.

² Data differ somewhat from those in the following table, because of different period covered.

Source: U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, *Life Tables: 1959-61*, Vol. 2, No. 12, *Hawaii State Life Tables: 1959-61* (June 1966), p. 160; *U.S. Decennial Life Tables for 1969-71*, Vol. II, No. 12, *Hawaii State Life Tables: 1969-71* (June 1975), p. 12-6; and unpublished tabulations. 1975 calculations by Robert Gardner, East-West Population Institute.

Table 40.—ABRIDGED LIFE TABLE, BY SEX: 1969-1971

Age x	Probability of dying in interval following age x q_x		Survivors at exact age x l_x		Average number of years lived after exact age x (expectation of life) ¹ e_x	
	Male	Female	Male	Female	Male	Female
0	0.022737	0.016250	100,000	100,000	70.456	77.181
1	0.003089	0.003080	97,726	98,375	71.093	77.454
5	0.001524	0.001672	97,424	98,072	67.308	73.689
10	0.001846	0.001092	97,276	97,908	62.407	68.808
15	0.006087	0.002893	97,096	97,801	57.517	63.880
20	0.006977	0.002730	96,505	97,518	52.853	59.058
25	0.007391	0.002590	95,832	97,252	48.206	54.213
30	0.008488	0.006011	95,124	97,000	43.547	49.346
35	0.012718	0.008650	94,317	96,417	38.897	44.628
40	0.018885	0.009817	93,117	95,583	34.364	39.995
45	0.027847	0.015597	91,358	94,645	29.974	35.365
50	0.046749	0.027898	88,814	93,168	25.755	30.883
55	0.062402	0.036897	84,662	90,569	21.889	26.693
60	0.095102	0.049049	79,379	87,227	18.170	22.616
65	0.151000	0.086142	71,830	82,949	14.801	18.644
70	0.212720	0.135163	60,984	75,804	11.971	15.149
75	0.314555	0.204799	48,011	65,558	9.511	12.106
80	0.382856	0.312503	32,909	52,132	7.731	9.556
85	1.000000	1.000000	20,310	35,840	6.009	7.740

¹ Data differ somewhat from those in the preceding table, because of different period covered.

Source: Robert W. Gardner and Eleanor C. Nordyke, *The Demographic Situation in Hawaii*, Papers of the East-West Population Institute, No. 31 (June 1974), pp. 74-75.

Table 41.—HOSPITAL AND CARE HOME FACILITIES AND USE, BY CATEGORY: 1976

Category	Number of institutions ¹	Beds	Admissions	Daily census	Length of stay	Percent occupancy
Acute care hospitals:						
Civilian	22	2,232	90,958	1,453.8	6.0	65.1
Military	1	588	20,699	527.4	8.3	89.7
Specialty long-term care hospitals	7	505	2,118	410.6	60.7	81.3
Skilled nursing and intermediate care facilities:						
Oahu	19	2,130	2,077	1,938.3	507.9	91.0
Other islands	13	676	1,006	637.0	199.5	94.2
Care homes:						
Residential	23	758	...	...	...	...
Family	229	1,005	...	...	...	...

¹ Some institutions are included in more than one category.
Source follows next table.

Table 42.—HOSPITAL AND CARE HOME BEDS, BY GEOGRAPHIC AREA: 1976

Geographic area	Total beds	In acute care hospitals		In spec. long-term care hospitals ¹	In skilled nursing and int. care fac.	In care homes
		Civilian	Military			
State total	7,948	2,232	588	505	2,806	1,853
Oahu	6,423	1,651	588	461	2,130	1,593
Honolulu	(NA)	1,419	588	153	(NA)	(NA)
Suburban	(NA)	232	—	308	(NA)	(NA)
Hawaii County	682	265	—	—	316	101
Maui County	496	182	—	24	239	51
Lanai	14	8	—	—	6	—
Maui	415	149	—	—	227	39
Molokai	67	25	—	24	6	12
Kauai County	383	134	—	20	121	108

NA Not available.

¹ Includes leprosy, psychiatric, tuberculosis, orthopedic, and mentally retarded.

Source: *Statistical Report, Department of Health, State of Hawaii, 1976*, pp. 69-72 and 127.

Table 43.—SELECTED LONG-TERM CONDITIONS: 1966 TO 1976

Subject	1966	1975	1976
Hawaii State Hospital:¹			
Total admissions	484	894	1,008
First admissions	286	404	484
Patients present:			
Annual average	798	269	273
June 30	790	290	232
Waimano Training School and Hospital:²			
First admissions	49	17	10
Inmates present:			
Annual average	826	660	602
June 30	815	638	587
Leprosy hospitals:³			
New admissions	6	—	—
Reactivated cases	8	—	—
Deaths	3	1	—
Active patients, Dec. 31	134	5	4
Hale Mohalu	78	4	4
Kalaupapa Settlement	56	1	—
Tuberculosis:³			
New cases reported	614	869	909
Active and probably active	263	338	338
Deaths	29	5	2
Active cases remaining on Tuberculosis			
Register, Dec. 31	328	326	318

¹ The largest hospital for psychiatric patients in Hawaii. Data refer to years ended June 30.

² The only institution for the mentally deficient in Hawaii. Data refer to years ended June 30.

³ Calendar year data.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; Hawaii State Hospital, records; Waimano Training School and Hospital, records.

Table 44.—DENTAL HEALTH OF INTERMEDIATE AND HIGH SCHOOL STUDENTS ON OAHU: 1967-1968

Condition	Average		Age in years	Average number	
	Intermed. schools	High schools		Decayed teeth	Missing teeth
Decayed, missing, or filled teeth	6.85	10.61	12	1.60	0.12
			13	2.10	0.19
			14	2.70	0.34
Peridontal index ¹	0.44	0.28	15	1.51	0.27
			16	1.26	0.32
			17	1.23	0.37
Oral hygiene index score ²	0.77	0.63	18	1.17	0.53

¹ Based on scores of zero for no gum disease, one for mild gum inflammation and around a portion of the tooth, two for gum inflammation surrounding the tooth, and up to eight for severe gum disorders.

² Based on fraction of tooth surfaces covered by debris: zero for no debris, one for 1/2, two for 2/3, and three for more than 2/3.

Source: Hawaii State Department of Health, Dental Health Division, *Report on Dental Decay, Gum Disease, and Oral Hygiene Status for Students in Intermediate and High Schools*, memorandum dated June 6, 1969.

Table 45.—DENTAL TREATMENT OF SCHOOL CHILDREN: 1974-1975 AND 1975-1976

Geographic area and year	Number of schools	Pupils, Kindergarten through 9th grade				
		Total	Completed treatment	Receiving treatment	No treatment during school year	Percent completed or receiving treatment
State total, 1974-75	185	103,904	18,802	18,214	66,888	35.6
State total, 1975-76	196	114,914	20,453	22,663	71,798	37.5
Oahu:						
Honolulu	47	29,444	5,571	6,141	17,732	39.8
Rest of Oahu	84	60,388	7,547	13,332	39,509	34.5
Hawaii	31	12,209	3,028	845	8,336	31.7
Kauai	12	4,238	2,002	901	1,335	68.5
Maui	16	6,985	2,015	1,171	3,799	45.6
Molokai and Lanai	6	1,650	290	273	1,087	34.1

Source: Hawaii State Department of Health, Dental Health Division, records.

Table 46.—ACUTE AND CHRONIC CONDITIONS: 1974-1976

Condition group	Number of conditions per year	Conditions per 1,000 persons per year
ACUTE CONDITIONS		
All acute conditons	1,661, 300	1,994
Infective and parasitic diseases	104,290	125
Respiratory conditions	1,135,460	1,363
Common cold	622,720	747
Other upper respiratory conditions	79,250	95
Influenza	383,160	460
Other respiratory conditions	50,330	60
Digestive system conditions	44,200	53
Injuries	188,670	226
All other acute conditions	188,680	226
SPECIFIED CHRONIC CONDITIONS		
Diabetes	19,200	23
Mental and nervous conditions	10,440	12
Heart conditions	14,320	17
Hypertension without heart involvement	48,070	58
Hemorrhoids	13,860	17
Asthma with or without hayfever	30,110	36
Hayfever without asthma	37,020	44
Chronic sinusitis	24,640	30
Chronic and allergic skin conditions	18,910	23
Arthritis and rheumatism	21,180	25
Hearing impairments	15,770	19
Impairments of back or spine	25,230	30
Impairments of lower extremities and hips	13,570	16

Source: *Statistical Report, Department of Health, State of Hawaii, 1976*, pp. 56 and 59.

Table 47.—SPECIFIED COMMUNICABLE DISEASES: 1966 TO 1976

Disease	Cases			Deaths		
	1966	1975	1976	1966	1975	1976
All reportable diseases	10,417	14,713	15,377	52	28	23
Chickenpox	2,114	2,113	1,047	—	1	1
Gonorrhea	557	3,126	3,591	—	—	—
Hepatitis, infect. & serum	68	335	240	5	4	7
Influenza	2,297	728	2,624	2	3	4
Leprosy	16	30	34	4	1	—
Measles (Rubeola)	168	64	11	—	—	—
Measles, German (Rubella)	159	22	22	—	—	—
Mumps	799	60	49	—	—	—
Salmonellosis	523	543	475	1	—	—
Scarlet fever, other strep.	2,513	6,482	5,905	—	—	—
Syphilis	172	134	181	1	—	—
Tuberculosis	262	591	665	29	12	3
All others	769	485	533	10	7	8

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement* (annual).

Table 48.—ESTIMATED ALCOHOLISM, BY SEX: 1970

[For persons 20 years old and over. An "alcoholic" is defined as one who is unable consistently to choose whether he shall drink or not, and who, if he drinks, is unable consistently to choose whether he shall stop or not. For methodology and limitations of these estimates, see source.]

Sex	Number of alcoholics	Rate per 100,000 population
Both sexes	8,300	1,780
Male	7,200	2,930
Female	1,100	500

Source: *Statistical Abstract of the United States: 1975*, table 142, p. 88.

**Table 49.—PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED
IN HAWAII: 1976-1978**

Place of residence or practice	Physicians: April 1978 ¹		Dentists: Dec. 1976		Registered nurses: Feb. 27, 1978	Pharm- acists: Feb. 27, 1978
	Total ²	Private	Total ³	Active		
Total licensed	2,892	1,702	553	472	6,485	515
Resident	1,744	1,170	553	472	4,971	348
Hawaii	112	83	50	41	381	25
Maui	95	59	} 30	23	} 313	} 24
Lanai	2	1				
Molokai	5	5				
Oahu	1,460	984	454	393	4,072	284
Kauai	66	38	} 19	15	} 169	} 13
Niihau	—	—				
Nonresident	1,152	532	...	...	1,514	167

¹ Excludes physicians holding limited or temporary licenses.

² Includes private (1,702), retired (48), military (134), governmental, teaching, and other (286), and not reported (722).

³ Includes active (472), inactive (2), associate (temporary license) (3), life (age 65 and over) (69), and honorary (7).

Source: Hawaii State Department of Health, Research and Statistics Office, records; Hawaii Dental Association data supplied by Hawaii State Department of Health, Dental Health Division; Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, records.

Table 50.—MARRIAGES AND DIVORCES: 1967 TO 1977
[Place of occurrence basis]

Calendar year	Marriages	Divorces and annul- ments ¹	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces ¹	Resident grooms	Interracial
1967	7,345	1,451	10.2	2.0	80.4	33.5
1968	9,021	1,865	12.3	2.5	70.1	33.8
1969	9,891	2,314	13.2	3.1	67.8	33.7
1970	10,599	2,589	13.7	3.3	69.3	33.7
1971	9,734	3,691	12.2	4.6	77.3	38.7
1972	9,750	3,891	11.9	4.7	81.3	38.6
1973	9,776	4,170	11.6	4.9	84.7	40.6
1974	9,649	4,111	11.3	4.8	84.6	40.1
1975	9,673	4,265	11.1	4.9	84.4	39.6
1976	9,769	4,712	11.1	5.3	82.4	38.8
1977	10,266	4,601	11.5	5.1	79.3	37.5

¹ Final decrees only. An interlocutory decree of one year was established May 8, 1965, reduced to six months on July 3, 1969, and abolished July 1, 1971.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," *R & S Report*, No. 5 (June 1974); *Annual Report, Statistical Supplement* for 1966-1976; and records.

**Table 51.—MARRIAGES, TOTAL AND INTERRACIAL, BY RACE
OF GROOM AND BRIDE: 1976**

Race	All marriages		Interracial marriages		Percent interracial	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
All races	9,769	9,769	3,794	3,794	38.8	38.8
Caucasian	4,722	4,329	1,280	887	27.1	20.4
Hawaiian	63	51	58	46	92.0	90.1
Part Hawaiian	1,316	1,432	744	860	56.5	60.0
Chinese	341	408	200	267	58.6	65.4
Filipino	968	1,049	462	543	47.7	51.7
Japanese	1,524	1,650	522	648	34.2	39.2
Puerto Rican	149	120	124	95	83.2	79.1
Korean	105	286	51	232	48.5	81.1
Samoan	151	147	59	55	39.0	37.4
Negro	254	112	161	19	63.3	16.9
Other races	175	184	133	142	76.0	77.1
Unknown	1	1	—	—	...	...

Source: *Statistical Report, Department of Health, State of Hawaii, 1976, p. 49.*

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; illiteracy; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1977-1978 totaled 208,830, about 0.9 percent less than in the preceding year and 2.5 percent more than the 1967-1968 total. There were 228 public schools with 7,891 classroom teachers and 172,649 students (about five-sixths of the total). There were also 128 private schools with 2,081 teachers and 36,181 pupils. Students graduating from public and private high schools in 1976-1977 numbered 13,823. Some 49,752 students attended colleges and universities in the State in 1977-1978, including 21,106 on the Manoa Campus of the University of Hawaii, 201 at West Oahu College, 3,280 at UH-Hilo, 19,301 at six community colleges, and 5,864 in four private four-year colleges. Eighty-seven percent of the children 5 and 6 years old were in school in 1970 (compared with 68 percent in 1950), and 53 percent in the 18- and 19-year old group were enrolled (compared with 36 percent twenty years earlier). The expenditure per pupil in public schools rose from \$818 in 1969-1970 to \$1,718 in 1976-1977. Among adults, the illiteracy rate dropped from 8.4 percent in 1950 to 1.9 percent in 1970, and by 1976 almost 33 percent of all residents 25 years of age or more could report having completed one or more years of college. The Hawaii State Library System had 2.7 million books, film reels, phonorecords, and other collections in 1977, with an annual circulation of 4.6 million; the University of Hawaii libraries in the same year counted 1.8 million volumes. About one-fourth of all Island adults visited a library 12 or more times in 1976.

The principal sources of data on education are the U.S. Bureau of the Census, U.S. Department of Health, Education, and Welfare, Hawaii State Department of Education, University of Hawaii and private colleges and universities. Section 5 of the *Statistical Abstract of the United States: 1977* presents comparable data for the nation as a whole.

**Table 52.—PUBLIC AND PRIVATE SCHOOLS, TEACHERS, MEMBERSHIP, AND GRADUATES:
1967-68 TO 1977-78**

School year	Schools ¹		Teachers ¹		Enrollment or membership ¹			High school graduates	
	Public	Private	Public	Private	Total	Public ²	Private ³	Public	Private
1967-68	215	114	6,624	1,594	203,734	169,673	34,061	9,430	2,133
1968-69	217	116	7,098	1,547	207,231	173,718	33,513	9,800	2,173
1969-70	216	123	7,300	1,551	211,215	178,564	32,651	10,377	2,209
1970-71 ⁴	216	117	7,948	1,698	213,165	180,770	32,395	10,471	2,178
1971-72	219	112	8,113	1,715	215,524	182,957	32,567	11,185	2,119
1972-73	222	119	8,187	1,797	214,360	181,587	32,773	11,147	2,174
1973-74	225	120	7,780	1,948	212,012	178,307	33,705	11,464	2,148
1974-75	225	120	7,711	1,932	211,702	176,844	34,858	11,283	2,262
1975-76	225	119	7,860	1,981	212,171	176,232	35,939	11,080	2,195
1976-77 ⁴	227	126	7,914	2,107	210,736	174,838	35,898	11,637	2,186
1977-78	228	128	7,891	2,081	208,830	172,649	36,181	(NA)	(NA)

NA Not available

¹ December data through 1970-1971 and September data thereafter.

² Includes special schools but excludes pre-kindergarten.

³ Includes special schools and pre-kindergarten.

⁴ Membership data revised from figures in *The State of Hawaii Data Book 1977*, table 46.

Source: Hawaii State Department of Education, records.

**Table 53.—PUBLIC AND PRIVATE SCHOOLS, TEACHERS, AND PUPIL MEMBERSHIP, SEPTEMBER 1977,
AND HIGH SCHOOL GRADUATES, 1976-1977, BY ISLAND**

Island	Schools, Sept. 1977		Teachers, Sept. 1977		Pupil membership, September 1977			High school graduates, 1976-1977	
	Public	Private	Public	Private ¹	Total	Public ²	Private ³	Public ⁴	Private
State total ..	228	128	7,891	2,081	208,830	172,649	36,181	11,637	2,186
Hawaii	29	11	836	...	19,253	17,529	1,724	1,238	138
Maui	18	10	545	...	12,755	10,714	2,041	779	111
Lanai	1	—	36	...	553	553	—	49	—
Molokai	5	1	86	...	1,580	1,549	31	99	—
Oahu	161	99	6,002	...	166,251	134,738	31,513	8,866	1,936
Kauai	13	7	383	...	8,380	7,508	872	606	1
Niihau	1	—	3	...	58	58	—	—	—

¹ Not available by island.

² Includes special schools but excludes pre-kindergarten. Special school membership was 468, all of it on Oahu.

³ Includes special schools and pre-kindergarten. Special school membership was 359, including 353 on Oahu and 6 on Hawaii.

⁴ Includes 65 pupils graduating from special schools on Oahu.

Source: Hawaii State Department of Education, records.

**Table 54.—PUPIL MEMBERSHIP, PUBLIC AND PRIVATE, BY GRADE:
FALL 1967 AND 1977**

Grade	December 1967			September 1977		
	Total	Public	Private	Total	Public	Private
All grades ¹	204,180	170,119	34,061	209,005	172,824	36,181
Nursery	2,703	446	2,257	2,585	175	2,410
Kindergarten	16,476	14,219	2,257	14,561	12,008	2,553
1	17,068	14,430	2,638	15,603	13,108	2,495
2	16,505	13,966	2,539	15,810	13,287	2,523
3	16,375	13,911	2,464	14,909	12,492	2,417
4	15,809	13,462	2,347	13,835	11,539	2,296
5	15,822	13,466	2,356	13,737	11,476	2,261
6	15,802	13,514	2,288	14,317	11,992	2,325
7	15,250	12,678	2,572	15,339	12,361	2,978
8	15,181	12,732	2,449	15,511	12,684	2,827
9	14,468	11,981	2,487	17,275	14,415	2,860
10	14,138	11,653	2,485	17,098	14,328	2,770
11	12,839	10,543	2,296	15,427	12,841	2,586
12	11,852	9,689	2,163	14,253	11,792	2,461
Specials	3,892	3,429	463	8,745	8,326	419

¹ Includes special schools and pre-kindergarten.
Source: Hawaii State Department of Education, records.

Table 55.—SCHOOL ENROLLMENT, BY AGE: 1960 AND 1970

Age	Number enrolled in school		Percent enrolled in school	
	1960 ¹	1970 ²	1960 ¹	1970 ²
5 to 34 years old	179,532	228,668	53.4	54.4
5 and 6 years old	26,435	27,683	85.0	87.4
7 to 13 years old	92,877	108,757	98.6	96.7
14 and 15 years old	22,840	30,409	97.0	95.8
16 and 17 years old	19,278	26,362	87.8	90.8
18 and 19 years old	7,460	14,486	34.4	53.1
20 and 21 years old	3,394	7,672	15.7	22.4
22 to 24 years old	2,493	6,357	8.7	13.6
25 to 34 years old	4,755	6,942	5.1	6.5

¹ In kindergarten and above.² In nursery and above.Source: U.S. Bureau of the Census, *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 45.**Table 56.—EXPENDITURES, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1969-1970 TO 1976-1977**

Fiscal year	Expenditures (dollars)		Cost per pupil ¹ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1969-1970	146,753,192	37,564,333	818.19	9,591	179
1970-1971	179,070,294	34,539,101	988.54	10,424	177½
1971-1972	183,830,422	35,269,593	1,007.10	10,459	178½
1972-1973	184,118,840	31,618,093	1,014.02	10,883	174
1973-1974	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977	298,770,753	38,105,500	1,718.34	16,689	175

¹ Based on average daily membership.

Source: Hawaii State Department of Education, records.

Table 57.—ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1967 TO 1977
 [Fall enrollment in regular credit programs, including concurrent registrants and early admits.]

Year (Fall)	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo ¹	West Oahu College ²
		Total	Under- graduates	Grad- uates	Other ⁴		
1967	21,136	16,564	12,228	2,597	1,739	1,078	—
1968	23,731	17,082	12,536	2,689	1,857	1,155	—
1969	28,051	18,474	13,625	2,993	1,856	1,380	—
1970	33,127	21,090	15,810	3,441	1,839	1,741	—
1971	36,368	22,061	16,589	3,913	1,559	2,265	—
1972	38,899	22,371	17,161	4,069	1,141	2,594	—
1973	39,858	22,272	16,905	4,110	1,257	2,784	—
1974	40,719	21,526	16,215	4,059	1,252	3,031	—
1975	44,050	21,260	15,671	4,111	1,478	3,526	—
1976	44,326	21,356	15,370	4,284	1,702	3,322	139
1977	43,888	21,106	15,211	4,280	1,615	3,280	201
Year (Fall)	Community colleges ³						
	Total	Hono- lulu	Kapio- lani	Lee- ward ⁵	Wind- ward ⁶	Kauai	Maui
1967	3,494	1,209	1,514	—	—	254	517
1968	5,494	1,383	1,538	1,649	—	263	661
1969	8,197	1,787	1,830	3,221	—	426	933
1970	10,296	1,937	2,205	4,469	—	627	1,058
1971	12,042	2,167	2,765	5,177	—	839	1,094
1972	13,934	2,561	3,092	5,373	538	1,023	1,347
1973	14,802	2,774	3,559	5,376	829	1,004	1,260
1974	16,162	3,306	3,654	5,816	1,046	1,031	1,309
1975	19,264	4,017	4,368	6,900	1,153	1,238	1,588
1976	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977	19,301	4,402	4,494	6,159	1,353	1,245	1,648

Footnotes and source follow next table.

**Table 58.—DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED BY THE UNIVERSITY OF HAWAII:
1967 TO 1977**

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First professional ⁷	Other ⁸
1967	8	1,515	555	28	—	222
1968	55	1,833	819	47	—	235
1969	45	1,961	982	58	—	196
1970	60	2,329	1,018	53	—	290
1971	41	2,644	1,103	78	—	420
1972	49	2,907	1,167	80	—	404
1973	65	3,050	1,272	98	—	370
1974	85	3,260	1,165	109	—	281
1975	57	3,176	1,110	94	62	213
1976	68	3,070	1,132	116	102	183
1977	58	3,076	1,019	135	113	164

Year ended June 30	University of Hawaii at Hilo ¹			West Oahu College: bachelor ²	Community colleges ³	
	Certifi- cates	Associate degrees	Bachelor degrees		Certifi- cates ⁹	Associate degrees
1967	—	—	—	—	481	224
1968	—	—	—	—	439	393
1969	—	—	—	—	366	403
1970	—	—	—	—	378	585
1971	151	45	37	—	424	768
1972	136	99	69	—	347	960
1973	121	124	155	—	439	1,062
1974	83	139	146	—	329	1,179
1975	81	179	189	—	352	1,402
1976	83	230	162	—	414	1,559
1977	93	255	196	6	420	1,598

¹ Includes Hilo College, College of Agriculture, and Hawaii Community College.

² Opened Spring 1976.

³ Excludes Hawaii Community College, part of the University of Hawaii at Hilo.

⁴ Unclassified or no data on student level.

⁵ Opened for instruction in 1968.

⁶ Opened for instruction in 1972.

⁷ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

⁸ Certificates in Dental Hygiene and professional diplomas.

⁹ Includes certificates of achievement.

Source: University of Hawaii, Management Systems Office, records.

**Table 59.—ENROLLMENT IN CREDIT COURSES AND EARNED DEGREES CONFERRED,
FOR PRIVATE COLLEGES: 1967-1968 TO 1977-1978**

School year	Total private college enrollment ¹	Brigham Young Univ.-Hawaii ²			Chaminade Univ. of Honolulu ³		
		Fall enrollment	Degrees conferred		Fall enrollment	Degrees conferred	
			Associate	Bachelor		Associate	Bachelor
1967-1968	2,147	1,096	—	84	725	3	82
1968-1969	2,265	1,113	—	110	831	1	140
1969-1970	2,525	1,211	—	138	891	1	155
1970-1971	2,717	1,307	—	184	962	4	217
1971-1972	3,495	1,300	—	105	1,700	—	257
1972-1973	3,399	1,078	—	79	1,719	4	348
1973-1974	3,695	1,004	—	157	1,888	12	326
1974-1975	3,951	917	5	110	2,158	15	391
1975-1976	4,848	1,068	3	89	2,560	31	376
1976-1977	5,252	1,173	4	86	2,545	46	367
1977-1978	5,864	1,615	(NA)	(NA)	2,561	(NA)	(NA)

School year	Hawaii Loa College ⁴		Hawaii Pacific College		U.S.I.U.—Maunaolu Campus ⁵		
	Fall enrollment	Degrees conferred: bachelor	Fall enrollment	Degrees conferred: bachelor	Fall enrollment	Degrees conferred	
						Associate	Bachelor
1967-1968	44	—	157	3	125	(NA)	—
1968-1969	78	—	116	—	127	(NA)	—
1969-1970	97	—	124	—	202	(NA)	—
1970-1971	103	26	153	—	192	(NA)	11
1971-1972	170	19	211	12	114	20	—
1972-1973	220	32	292	16	90	7	—
1973-1974	203	25	458	11	142	8	—
1974-1975	217	32	571	30	88	(NA)	—
1975-1976	208	25	1,012	53	—	—	—
1976-1977	229	33	1,305	40	—	—	—
1977-1978	227	(NA)	1,461	(NA)	—	—	—

NA Not available.

¹ Fall enrollment in credit courses.

² Prior to September 1, 1974, Brigham Young University—Hawaii Campus was called Church College of Hawaii.

³ The name of Chaminade College of Honolulu was changed to Chaminade University of Honolulu as of August 15, 1977. The Fall 1977 enrollment included 2,433 undergraduates and 128 graduates.

⁴ Opened in temporary quarters in Honolulu in September 1967 and moved to permanent campus near Kaneohe in January 1971.

⁵ U.S. International University—Maunaolu Campus was called Mauna Olu College prior to July 1, 1971. Initially a two-year institution, it briefly offered a four-year curriculum, beginning in 1969-1970; after one graduating class (1971), the school returned to a two-year program. Operations were suspended after the 1974-1975 school year. Enrollment figure for 1968-1969 is spring total. For most of these years, variant enrollment data have been reported.

Source: Data obtained by Hawaii State Department of Planning and Economic Development from college officials, except Maunaolu for the following years: 1968-1969, from *World Almanac* for 1970; 1969-1970, 1970-1971, and 1971-1972, from *Honolulu Advertiser*, October 13, 1970 and October 27, 1972.

Table 60.—ILLITERACY: 1950 TO 1970
 [Persons 14 years old and over, unable to both read and write in any language, as a percent of the total population 14 and over. Data estimated.]

Year	Percent illiterate
1950	8.4
1960	5.0
1970	1.9

Source: *Statistical Abstract of the United States: 1975*, table 196, p. 120.

Table 61.—YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE AND SEX: SPRING 1976

[Excludes persons in institutions or military barracks or on Niihau. Based on a sample of 38,818 persons, including those under 25.]

Years of school completed	Total, 25 and over	Sex ¹		Age			
		Male	Female	25 to 39 years	40 to 59 years	60 years and over	Age not rptd.
All levels	474,022	237,109	236,773	200,170	180,966	83,179	9,707
None	6,300	3,388	2,912	222	969	5,023	87
1 to 4	16,279	8,789	7,490	1,148	4,588	10,458	85
5 to 8	53,431	24,808	28,599	5,518	21,669	25,918	327
9 to 11	47,071	23,481	23,590	13,637	25,760	7,426	248
12 and equivalent	182,432	84,676	97,756	86,015	76,976	15,398	4,044
Vocational	620	485	135	71	325	203	22
13 to 15	65,945	33,733	32,165	41,348	18,447	5,004	1,146
16	50,647	28,932	21,715	30,344	15,098	4,220	985
17 or more	38,347	22,700	15,624	20,394	13,561	3,821	571
Unknown	12,948	6,117	6,786	1,474	3,574	5,708	2,192
Percent 13 or more ²	32.8	36.2	29.4	46.0	26.2	15.9	28.1

¹ Does not add to total because of unknown sex.

² Includes vocational.

Source: Hawaii State Department of Health and Department of Planning and Economic Development, *Population Characteristics of Hawaii, 1976* (Population Report, No. 9, October 1977), table 14.

**Table 62.—COLLECTIONS AND CIRCULATION FOR THE HAWAII STATE
AND UNIVERSITY OF HAWAII LIBRARY SYSTEMS: 1977**

System and branch or campus	Number of volumes: June 30, 1977	Other collections: June 30, 1977	Circulation: year ended June 30, 1977
Hawaii State system, total	1,765,482	906,091	4,597,248
Hawaii State Library ¹	332,978	367,959	533,152
Library for Handicapped	54,308	1,428	39,825
Oahu Public Library ²	834,786	254,919	2,641,344
Hawaii Public Library	241,937	76,039	656,289
Kauai Public Library	146,617	114,068	381,234
Maui Public Library	154,856	91,678	345,404
University of Hawaii system, total	1,828,502	...	578,093
UH at Manoa	1,540,939	...	407,930
West Oahu College ³	3,622	...	636
UH at Hilo ⁴	103,362	...	34,129
Community colleges: ⁵			
Honolulu	33,595	...	25,588
Kapiolani	26,399	...	9,167
Leeward	50,440	...	49,119
Windward	17,041	...	8,619
Kauai ⁶	22,729	...	9,058
Maui	30,375	...	33,847

¹ Main branch, 478 South King Street, Honolulu.

² All branch libraries on Oahu except the Hawaii State Library and Library for the Handicapped.

³ Circulation figure covers only part of the year.

⁴ Includes Hilo College and Hawaii Community College.

⁵ Excludes Hawaii Community College.

⁶ Includes various non-book materials catalogued and integrated with the book collection.

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

Table 63.—READING: 1976

[Based on telephone interviews with 1,000 adults throughout the State, in November and December 1976.]

Subject	Percent
Total	100.0
Times visited library in past 12 months:	
None	38.7
1 to 11 times	32.5
12 or more times	27.6
Don't know	1.2
Number of books read or referred to during past month:	
None	39.4
One	10.9
Two	11.5
Three	8.2
Four or more	29.3
Number of magazines read on a regular basis:	
None	16.8
One	10.7
Two	20.1
Three	19.8
Four or more	31.5
Don't know, refused	1.1

Source: Survey & Marketing Services, Inc., *Analysis of Service and Development of Performance Measurements for State of Hawaii Libraries*, Vol. II, *A Survey of Residents in Relation to Public Library Use* (Hawaii State Department of Education, Office of Library Services, February 1978), pp. 10, 15, and 16.

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 1977 numbered 58,000, or twice as many as in 1967. The rate per 1,000 population has increased from 38 in 1967 to 65 in 1977. Eighty percent of the 1977 total occurred on Oahu. For the State as a whole, major offenses known to police in 1977 included 64 murders, 119 cases of negligent manslaughter, 226 rapes, 1,146 robberies, 573 aggravated assaults, 17,100 burglaries, 35,062 cases of larceny, and 4,378 auto thefts. The value of property reported stolen in 1977 amounted to \$18 million, exclusive of motor vehicles; only 8.4 percent was recovered. Asked "Have you or your immediate family been a victim of crime (burglary, assault, etc.) in Hawaii since 1970?," forty percent of all Oahu adults and a fourth of all Neighbor Island adults answered affirmatively. Approximately, 24 percent of the major offenses and 68 percent of the minor offenses were cleared by arrest or otherwise in 1977. Fifty-two percent of the persons arrested for major crimes and 21 percent of those arrested for lesser offenses in 1976 were less than eighteen years of age. Inmates of the ten State correctional institutions averaged 543 during 1977; of this number, 330 were serving time for felonies. The State Supreme Court, four circuit courts, and four district courts and their divisions handled 685,000 cases in fiscal 1977, almost double the case load a decade earlier. Filings in the Federal District Court included 462 civil cases, 1,035 criminal cases, and 564 bankruptcy cases. The last legal execution in Hawaii took place in 1944.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Department of Social Services and Housing, the Hawaii Criminal Justice Statistical Analysis Center, and the Administrative Office of the United States Courts. National data are summarized in the *Statistical Abstract of the United States: 1977*, Section 6.

**Table 64.—ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY:
1967 TO 1977**

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate ¹				
1967	27,221	3,767	24,847	919	649	806
1968	34,295	4,669	31,044	1,297	730	1,224
1969	36,109	4,813	32,636	1,406	779	1,288
1970	41,201	5,322	36,779	1,626	993	1,803
1971	42,952	5,382	37,459	1,867	1,326	2,300
1972	37,091	4,518	31,594	2,047	1,195	2,255
1973	41,850	4,958	35,275	2,612	1,596	2,367
1974	51,451	6,024	43,572	3,031	1,732	3,116
1975	51,777	5,962	43,612	3,192	1,777	3,196
1976	55,603	6,293	45,307	3,918	2,172	4,206
1977	57,977	6,480	46,389	4,178	2,127	5,283

¹ Annual rate per 100,000 resident population (including armed forces), July 1.
Source: County police departments, annual reports and records.

Table 65.—ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1967 TO 1977

Year	Total Part I offenses	Murder; non-negligent manslaughter	Man-slaughter (negligent)	Rape	Robbery	Aggravated assault	Burglary	Larceny					Auto theft
								Over \$200	\$100-\$200	\$50-\$100	\$5-\$50	Under \$5	
1967	24,847	17	20	33	144	77	7,857	1,673			12,138		2,888
1968	31,044	19	11	52	167	130	9,776	2,214			14,863		3,812
1969	32,636	23	22	82	272	124	9,417	2,728			15,848		4,120
1970	36,779	25	3	85	473	219	10,252	3,568			17,913		4,241
1971	37,459	31	46	124	715	341	9,599	9,426			12,923		4,254
1972	31,594	46	31	144	424	343	8,943	3,955	3,874	7,449	3,428		2,957
1973	35,275	36	50	150	663	287	10,838	3,090	5,350	7,999	3,324		3,488
1974	43,572	62	84	190	951	301	13,040	3,821	6,362	9,780	4,306		4,675
1975	43,612	58	99	161	1,037	311	13,287	4,317	6,440	9,783	3,940		4,179
1976	45,307	40	111	150	1,084	350	13,509	4,943	7,034	9,861	3,955		4,264
1977	46,389	45	94	177	1,086	335	13,134	6,224	7,753	9,652	4,103		3,786

Source: Honolulu Police Department, *Statistical Report* (annual), and records.

Table 66.—PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1967 TO 1977

Year	Part I offenses cleared ¹		Persons arrested for Part I offenses			
	Number	Percent	Total	Juveniles under 18 years		18 years of age and over
				Male	Female	
1967	3,917	16	4,363	2,497	631	1,235
1968	6,028	19	5,841	3,380	907	1,554
1969	6,393	20	6,217	3,340	1,030	1,847
1970	6,437	18	6,405	2,899	995	2,511
1971	8,325	22	6,730	2,770	979	2,981
1972	10,028	32	5,954	2,406	1,035	2,513
1973	8,721	25	6,558	2,623	1,005	2,930
1974	9,727	22	8,043	3,227	1,027	3,789
1975	9,235	21	7,696	3,186	1,134	3,376
1976	12,747	28	8,915	3,647	1,316	3,952
1977	11,460	25	9,308	3,355	1,117	4,836

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

Source: Honolulu Police Department, *Statistical Report* (annual), and Hawaii Criminal Justice Statistical Analysis Center, *Supplement to Crime in Hawaii, 1977*, pp. 1 and 5.

Table 67.—ACTUAL OFFENSES KNOWN TO POLICE, BY TYPE OF OFFENSE, FOR COUNTIES: 1977

Classification of offense	State totals		City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
	Number	Rate ¹				
All offenses	130,591	13,439	103,838	8,690	4,612	13,451
Part I offenses	58,668	6,037	47,080	4,178	2,127	5,283
1A Murder; non-neg. mansl't'r ...	64	7	46	9	2	7
1B Negligent manslaughter	119	12	96	12	2	9
2 Rape	226	23	176	14	10	26
3 Robbery	1,146	118	1,081	19	12	34
4 Aggravated assault	573	59	357	60	80	76
5 Burglary	17,100	1,760	13,291	1,312	788	1,709
6 Larceny	35,062	3,608	28,286	2,576	1,152	3,048
Over \$200	7,952	818	6,381	493	292	786
\$50-\$200	9,853	1,014	7,919	742	324	868
Under \$50	17,257	1,776	13,986	1,341	536	1,394
7 Auto theft	4,378	451	3,747	176	81	374
Part II offenses ²	71,923	7,401	56,758	4,512	2,485	8,168
8 Other assaults	7,816	804	5,988	558	537	733
9 Arson	393	40	297	62	26	8
10 Forgery; counterfeit	941	97	579	188	41	133
11 Fraud	2,090	215	1,149	335	250	356
12 Embezzlement	41	4	27	5	2	7
13 Receiving stolen prop.	115	12	54	23	1	37
14 Vandalism	9,931	1,022	7,467	844	502	1,118
15 Weapons	677	70	493	104	19	61
16 Prostitution	580	60	574	2	—	4
17 Sex offenses	534	55	437	39	11	47
18 Narcotic drug laws	4,059	418	2,302	841	358	558
19 Gambling	440	45	334	63	27	16
20 Offenses against family	196	20	157	8	1	30
21 Driving intoxicated	2,630	271	2,206	167	68	189
22 Liquor laws	454	47	266	25	—	163
24 Disorderly conduct	4,293	442	3,688	201	21	383
26 All other offenses	36,733	3,780	30,740	1,047	621	4,325

¹ Per 100,000 de facto population.

² Excludes drunkenness, no longer a criminal offense, and all traffic offenses.

Source: County police departments, records.

Table 68.—OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR COUNTIES: 1977
 [Includes previous year's cases cleared.]

Classification of offense	State totals		City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
	Number	Percent				
All offenses	62,906	48.2	52,638	3,818	1,327	5,123
Part I offenses	14,050	23.9	11,460	1,235	301	1,054
1A Murder; non-neg. mansl'tr	42	65.6	28	6	1	7
1B Negligent manslaughter	73	61.3	53	9	2	9
2 Rape	112	49.6	86	9	5	12
3 Robbery	409	35.7	382	9	6	12
4 Aggravated assault	281	49.0	155	38	43	45
5 Burglary	4,605	26.9	3,717	370	100	418
6 Larceny	7,736	22.1	6,401	733	126	476
Over \$200	1,167	14.7	1,011	65	10	81
\$50-\$200	1,224	12.4	984	128	23	89
\$5-\$50	} 5,345	19.7	} 2,724	} 540	93	306
Under \$5						
7 Auto theft	792	18.1	638	61	18	75
Part II offenses ¹	48,856	67.9	41,178	2,583	1,026	4,069
8 Other assaults	5,370	68.7	4,220	479	270	401
9 Arson	44	11.2	34	9	—	1
10 Forgery; counterfeit	403	42.8	263	76	11	53
11 Fraud	1,211	57.9	677	222	165	147
12 Embezzlement	37	90.2	30	2	1	4
13 Receiving stolen prop.	100	87.0	46	20	1	33
14 Vandalism	1,654	16.7	1,258	176	54	166
15 Weapons	515	76.1	377	82	17	39
16 Prostitution	543	93.6	539	1	—	3
17 Sex offenses	267	50.0	210	17	8	32
18 Narcotic drug laws	2,709	66.7	1,830	445	66	368
19 Gambling	345	78.4	262	48	25	10
20 Offenses against family	136	69.4	108	8	—	20
21 Driving intoxicated	2,581	98.1	2,158	167	68	188
22 Liquor laws	442	97.4	261	22	—	159
24 Disorderly conduct	3,900	90.8	3,486	63	21	330
26 All other offenses	28,599	77.9	25,419	746	319	2,115

¹ Excludes drunkenness, no longer a criminal offense, and all traffic offenses.
 Source: County police departments, records.

Table 69.—JUVENILES AND ADULTS ARRESTED, BY SEX AND CLASS OF OFFENSE, BY COUNTIES: 1977

Age, sex and class of offense	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
JUVENILES¹					
All arrests ²	9,905	8,168	747	444	546
Part I offenses	5,250	4,472	358	162	258
Males	3,988	3,355	287	125	221
Females	1,262	1,117	71	37	37
Part II offenses ²	4,655	3,696	389	282	288
Males	3,043	2,369	242	207	225
Females	1,612	1,327	147	75	63
ADULTS³					
All arrests ²	22,048	17,600	1,725	558	2,165
Part I offenses	4,836	3,957	363	138	378
Males	3,528	2,817	267	121	324
Females	1,308	1,140	96	17	54
Part II offenses ²	17,212	13,643	1,362	420	1,787
Males	14,434	11,422	1,144	361	1,507
Females	2,778	2,221	218	59	280

¹ Under 18 years of age.

² Except traffic.

³ 18 years of age and over.

Source: Hawaii State Judiciary, Hawaii Criminal Justice Statistical Analysis Center, *Crime in Hawaii 1977* (April 1978), pp. 42, 43, 51 and 52, and *Supplement to Crime in Hawaii, 1977*.

Table 70.—VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED (EXCLUSIVE OF AUTOMOBILES), FOR THE CITY AND COUNTY OF HONOLULU: 1967 TO 1977

Year	Value of property reported stolen (\$1,000)	Value of stolen property recovered (\$1,000)	Percent recovered
1967	2,383.9	116.3	4.9
1968	3,676.5	420.1	11.4
1969	4,119.3	204.7	5.0
1970	4,913.4	237.5	4.9
1971	5,509.7	335.9	6.1
1972	6,249.2	566.7	9.1
1973	7,660.5	980.0	12.8
1974	9,732.7	558.1	5.7
1975	11,628.1	828.1	7.1
1976	14,438.7	1,375.4	9.5
1977	15,473.3	1,496.2	9.7

Source: *Statistical Report, Honolulu Police Department* (annual).

Table 71.—VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY TYPE OF PROPERTY AND COUNTIES: 1977

Type of property stolen and counties	Value of property stolen (\$1,000)	Value of stolen property recovered	
		Amount (\$1,000)	Percent
State total	24,778.9	6,512.1	26.3
Counties:			
City and Co. of Honolulu	20,329.1	5,231.9	25.7
Hawaii	1,251.3	349.4	27.9
Kauai	752.9	171.1	22.7
Maui	2,445.7	759.7	31.1
Type of property:			
Locally stolen motor vehicles	6,909.2	5,004.2	72.4
Other types	17,869.7	1,507.9	8.4
Currency, notes, etc.	3,609.4	259.7	10.0
Jewelry and precious metals	5,559.3	318.5	5.7
Clothing and furs	377.1	68.4	18.1
Office equipment	239.5	15.0	6.3
Televisions, radios, stereos, etc.	2,878.2	151.4	5.3
Firearms	152.3	16.8	11.0
Household goods	262.1	17.6	6.7
Consumable goods	150.8	17.5	11.6
Livestock	47.5	10.9	22.9
Miscellaneous	4,593.6	632.2	13.8

Source: Hawaii Criminal Justice Statistical Analysis Center, *Crime in Hawaii 1977* (April 1978), pp. 32-33.

Table 72.—VICTIMS OF CRIME: 1970 TO 1977

[Response to question, "Have you or your immediate family been a victim of crime (burglary, assault, etc.) in Hawaii since 1970?," asked of 2,749 persons 15 years old and over, December 3-7, 1977.]

Category	Sample size	Percent distribution		
		Victims	Not victims	No reply
All groups	2,749	36.0	61.2	2.8
Place of residence:				
Hawaii County	536	22.0	75.9	2.1
Maui County	671	25.8	71.1	3.1
Oahu	986	40.0	57.3	2.7
Kauai	556	23.1	71.6	5.3
Sex:				
Male	1,377	39.5	58.1	2.4
Female	1,372	32.5	64.3	3.2
Age:				
Under 18 years	146	36.9	62.1	1.0
18 to 24 years	498	41.3	55.4	3.3
25 to 29 years	363	28.0	68.7	3.3
30 to 39 years	588	35.6	63.0	1.4
40 to 49 years	459	38.7	58.3	3.0
50 to 59 years	407	36.8	60.9	2.3
60 years and over	245	32.3	64.3	3.4
Annual family income:				
Under \$5,000	261	32.3	67.0	0.7
\$5,000 to \$9,999	349	30.9	66.9	2.2
\$10,000 to \$14,999	421	28.8	69.3	1.9
\$15,000 to \$19,999	407	33.8	65.5	0.7
\$20,000 to \$29,999	456	41.1	56.7	2.2
\$30,000 to \$39,999	234	48.7	51.3	0.0
\$40,000 and over	159	50.2	48.7	1.1

Source: Public Affairs Advisory Service, Inc., *A Survey of Crime and the Criminal Justice System* (Hawaii Commission on Crime, January 1978), pp. 24, 35, 41, 55, 72, 121, and 122.

Table 73.—FEDERAL DISTRICT COURT CASES: 1966 TO 1977

Year ended June 30	Civil cases			Criminal cases			Bankruptcy					
	Filings	Terminations	Pending	Filings (incl. transfers)	Terminations	Pending	Commenced				Terminated	Pending
							Total	Voluntary		Involuntary		
								Business ¹	Nonbusiness			
1966	169	122	218	109	117	36	361	22	337	2	319	354
1967	155	105	268	83	79	40	420	32	384	4	347	427
1968	149	202	215	81	82	39	436	22	413	1	307	556
1969	161	177	199	114	103	50	319	14	301	4	460	415
1970	192	156	235	193	138	105	374	18	355	1	404	385
1971	139	175	229	161	177	89	384	20	362	2	402	367
1972	217	187	259	183	161	111	389	32	354	3	361	395
1973	264	238	285	195	168	138	371	46	321	4	376	390
1974	313	251	347	167	171	134	415	38	377	—	398	407
1975	382	261	468	160	160	134	549	56	490	3	472	484
1976	442	288	622	145	178	101	518	103	411	4	616	386
1977	462	341	743	1,035 ²	823 ²	313 ²	564	110	452	2	356	594

¹ Farmer, professional, merchant, manufacturer, and others in business. Excludes employee and other nonbusiness bankruptcies.

² Data include the following number of drunk driving and traffic violations reported pursuant to the Speedy Trial Act of 1974: Filings-874, Terminations-380, and Pending-234.

Source: *Annual Report of the Director of the Administrative Office of the United States Courts* (annual).

Table 74.—STATE JUDICIARY CASELOAD: 1972 TO 1977
 [Terminations for years ended June 30.]

Court and type of case	1972	1973	1974	1975	1976	1977
All courts, total	547,590	567,514	592,973	604,176	623,453	685,282
Supreme Court	315	347	383	405	520	563
Civil cases	72	91	88	69	97	97
Criminal cases	32	39	46	65	50	41
Other proceedings	211	217	249	271	373	425
Circuit Courts proper	8,553	9,323	7,686	9,334	8,094	8,626
Civil cases	3,229	3,029	2,575	3,870	3,462	3,732
Criminal cases	2,081	2,318	1,827	2,097	1,638	1,532
Part I	757	879	741	885	654	766
Part II	1,324	1,439	1,086	1,212	984	766
Other proceedings	3,243	3,976	3,284	3,367	2,994	3,362
Family Courts	17,215	17,716	16,310	17,015	17,256	19,010
Civil cases	5,787	6,476	7,074	6,624	7,396	8,538
Criminal cases	12	19	21	31	45	24
Other proceedings	11,416	11,221	9,215	10,360	9,815	10,448
District Courts	521,507	540,128	568,594	577,422	597,583	657,083
Civil cases	14,143	13,888	12,831	12,232	10,953	10,330
Traffic cases	480,286	499,389	520,964	524,345	545,340	609,323
Other violations	13,952	14,796	17,667	20,733	24,881	18,926
Criminal cases	13,126	12,055	17,132	20,112	16,409	18,504
Part I	2,576	2,246	3,005	3,781	2,515	3,254
Part II	10,550	9,809	14,127	16,331	13,894	15,250
Other proceedings	—	—	—	—	—	—

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

Table 75.—STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1977
 [Year ended June 30.]

Court and type of action	Number	Court and type of action	Number
Supreme Court, total	750	District Court, total	647,261
Primary cases	316	Civil	11,014
Appeals	303	Regular	9,735
Original proceedings	13	Small claims	1,279
Supplemental proceedings	434	Traffic	617,009
Circuit Court Proper, total	10,188	Moving—arrest and citation	132,532
Primary proceedings	9,507	Non-moving	49,005
Civil actions	4,212	Parking	435,472
Probate proceedings	1,720	Other violations	19,238
Guardianship proceedings	315	Criminal actions	19,224
Miscellaneous proceedings	1,274	Part I offenses	3,455
Criminal actions	1,986	Part II offenses	15,769
Part I offenses	1,007		
Part II offenses	979		
Supplemental proceedings	681		
Family Courts, total	20,794		
Primary proceedings, referrals	17,739		
Marital actions, proceedings	7,051		
Adoption proceedings	721		
Paternity or parental proceedings	764		
Miscellaneous proceedings	1,197		
Criminal actions	39		
Adults' referrals	784		
Children's referrals	7,183		
Supplemental proceedings	3,055		

Source follows next table.

Table 76.—STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1977
 [Year ended June 30.]

Court and type of termination	Number	Court and type of termination	Number
Supreme Court, total	563	District Court, total	657,083
Opinion filed	107	Felonies	917
Dismissal motion granted	2	Stricken or discharged	251
Withdrawn or discontinued	59	By commitment to Grand Jury	462
Other disposition	395	By commitment to Circuit Court	204
Circuit Court Proper, total	8,626	Misdemeanors	17,587
No service	455	By discharge or dismissal	5,112
No answer	561	By nolle prosequi	1,095
No statement of readiness	122	Stricken	1,001
Dismissal: Notice of	398	By bail forfeiture	1,568
Stip. for	943	By commitment to Circuit Court	315
By judge	840	By conviction	8,496
Nonjury: Trial	245	Civil cases	10,330
Trial not completed	8	By discontinuance or dismissal	3,024
Jury: Verdict	313	By default or confession	6,641
Trial not completed	18	By trial	580
No trial held	813	Stricken	1
Hearings: Contested	120	By commitment to Circuit Court	84
Uncontested	2,246	Traffic and other violations	628,249
Others	1,544	By discharge or dismissal	70,084
Family Courts, total	19,010	By nolle prosequi	3,152
Nolle prosequi	15	Stricken	45,644
Dismissal	6	By bail forfeiture	446,073
Nonjury: Trial	11	By commitment to Circuit Court	539
Trial not completed	—	By conviction	62,757
Jury: Verdict	8		
Trial not completed	—		
No trial held	473		
Hearings: Contested	2,070		
Uncontested	8,780		
Counseling service	4,098		
Others	3,549		

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1976 to June 30, 1977*, pp. 66, 70, 75, and 80.

Table 77.—INMATES PRESENT IN CORRECTIONAL INSTITUTIONS: 1977

[Annual averages for year ended June 30, 1977.]

Facility	Total	Sex		Category		
		Male	Female	Felon	Misde-mean.	Not sen-tenced
Adult facilities, total	474	455	19	330	28	117
Halawa Correctional Facility	144	126	18	14	23	107
Hawaii State Prison	235	235	—	235	—	—
Kulani Correctional Facility	48	48	—	48	—	—
Kamehameha Conditional Release Center	7	7	—	7	—	—
Laumaka Conditional Release Center	11	11	—	11	—	—
Hawaii Community Correctional Center	17	16	1	8	3	6
Maui Community Correctional Center	11	11	0	6	2	4
Kauai Community Correctional Center ¹	5	5	0	2	1	2
Youth facilities, total ²	69	56	13	...	...	...
Hawaii Youth Correctional Facility	66	52	13	...	...	...
Boys Group Home	3	3	—	...	...	...

¹ June 20-30 only.² Includes average of 60 regular inmates and 5 short term inmates.

Source: Hawaii State Department of Social Services and Housing, Correctional Information and Statistics Office, Intake Service Center, records.

GEOGRAPHY AND ENVIRONMENT

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

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general 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, Oahu, 33 miles in length; the biggest lake is Halalii, on Niihau, 841 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: 24 out of 26 major Oahu beaches were rated "A" in 1977 (coliform not exceeding 50 per 100 ml.), only two were rated "B" (51-500), and none was rated "C" (501 or more). Climatologically, 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, South Kohala, to 486 inches atop Waialeale. The longest volcanic eruption in Island history lasted 867 days, the worst earthquake attained 7.5 on the Richter scale, and the highest tsunami wave reached 56 feet. Water withdrawn for use in 1975 averaged 2.5 billion gallons per day, compared with 2.7 billion in 1970, 2.0 billion in 1965 and 1.5 billion in 1960. Among thirty neighborhoods on Oahu, median noise levels ranged from 44.7 decibels (in Pearl City) to 61.5 decibels (in Waikiki).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in *Hawai'i, the Natural Environment*, published by the Department of Planning and Economic Development in 1974. National data are reported in *Statistical Abstract of the United States: 1977*, Section 7.

Table 78.—GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Distance from Honolulu		Place	Distance from Honolulu	
	Statute miles	Kilometers		Statute miles	Kilometers
Hawaiian Islands:			Other Pacific locations, con.:		
Cape Kumukahi, Hawaii ¹	236	380	Johnston Island	820	1,319
Hilo, Hawaii ²	214	344	Kingman Reef	1,073	1,726
Ka Lae (South Cape), Hawaii	221	356	Manila, Philippines	5,293	8,516
Kailua, Kona, Hawaii	168	270	Pago Pago, Amer. Samoa	2,606	4,193
Kahului, Maui	98	158	Palmyra Island	1,101	1,772
Lanai Airport	72	116	Papeete, Tahiti	2,741	4,410
Molokai Airport	54	87	Suva, Fiji	3,159	5,083
Lihue, Kauai	103	166	Sydney (Port Jackson), Australia	5,070	8,158
Puuwai, Niihau	152	245	Tokyo, Japan	3,847	6,190
Nihoa	283	455	Wake Island	2,294	3,691
Necker Island	520	837	North and South America:		
French Frigate Shoals	556	895	Anchorage, Alaska	2,781	4,475
Gardner Pinnacles	688	1,107	Cape Horn, Chile	7,457	11,998
Maro Reef	851	1,369	Chicago, Illinois	4,179	6,724
Laysan Island	936	1,506	Cristobal, Canal Zone	5,214	8,389
Lisianski Island	1,065	1,714	Los Angeles, California ²	2,557	4,114
Pearl and Hermes Atoll	1,208	1,944	Miami, Florida	4,856	7,813
Midway Islands	1,309	2,106	New York, New York	4,959	7,979
Kure Atoll ¹	1,367	2,200	Portland, Oregon	2,595	4,175
Trust Territory of the Pacific Isl.:			San Diego, California	2,610	4,199
Majuro, Marshall Islands	2,271	3,654	San Francisco, California ²	2,397	3,857
Kwajalein, Marshall Islands	2,443	3,931	Seattle, Washington	2,679	4,311
Kolonia, Ponape, E.C.I.	3,087	4,967	Vancouver, B.C.	2,709	4,359
Saipan, Mariana Islands	3,704	5,960	Victoria, B.C.	2,668	4,293
Koror, Palau, W.C.I.	4,593	7,390	Tijuana, Mexico	2,616	4,209
Other Pacific locations:			Washington, D.C.	4,829	7,770
Apra Harbor, Guam	3,806	6,124	London, England	7,226	11,627
Auckland, New Zealand	4,393	7,068	Bombay, India	8,010	12,888
Hong Kong	5,541	8,915	Ghanzi, Botswana ³	12,417	19,979

¹ The great circle distance from Cape Kumukahi to Kure Atoll—the points farthest apart in the Hawaiian Archipelago and State of Hawaii—is 1,523 statute miles (2,451 kilometers). The distance from Kure Atoll to other extreme points in the United States is: West Quoddy Head, Maine, 5,788 miles (9,313 kilometers); Log Point, Elliot Key, Florida, 5,852 miles or 9,416 kilometers (Kure and Log Point are the points farthest apart in the fifty States). Kure is 2,486 miles (4,000 kilometers) from Tokyo, Japan.

² Hilo is 2,315 statute miles (3,725 kilometers) from San Francisco and 2,447 miles (3,937 kilometers) from Los Angeles.

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

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

Table 79.—WIDTHS AND DEPTHS OF CHANNELS

Channel	Location	Width		Maximum depth	
		Statute miles	Kilo-meters	Feet	Meters
Alenuihaha	Upolu Pt., Hawaii-Pulule Pt., Maui	29.5	47.5	6,120	1,870
Alalakeiki	Ule Pt., Kahoolawe-Nukele Pt., Maui	6.8	10.9	470	140
Kealaikahiki	Kamaiki Pt., Lanai-Ma Kaala, Kahoolawe	17.6	28.3	...	...
Auau	Kikoa Pt., Lanai-Lahaina, Maui	9.1	14.6	108	33
Kalohi	Wahi Pt., Lanai-Kamalo, Molokai	9.3	15.0	260	80
Pailolo	Lipoa Pt., Maui-Pohakuloa, Molokai	8.8	14.2	800	240
Kaiwi	Ilio Pt., Molokai-Makapuu Pt., Oahu	26.0	41.8	2,000	600
Kauai	Kaena Pt., Oahu-Kamilo Pt., Kauai	72.4	116.5	10,000	3,000
Kaulakahi	Kaunuopou Pt., Niihau-Mana Pt., Kauai	17.0	27.4	2,500	800

Source: Hawaii State Department of Planning and Economic Development, *Hawai'i, the Natural Environment* (1974), p. 20.

Table 80.—AREA AND COASTLINE OF COUNTIES, ISLANDS, AND CITIES

County, island, or city	Total area		Land area ¹		Inland water area ²		General coastline ³		Tidal shoreline ⁴	
	Sq. mi.	Sq. km.	Sq. mi.	Sq. km.	Sq. mi.	Sq. km.	Statute miles	Km.	Statute miles	Km.
State total	6,450	16,707	6,425	16,642	25	65	750	1,207	1,052	1,693
Counties:										
Hawaii	4,038.0	10,458	4,037.0	10,456	1.0	3	} 210	428	313	504
Maui	1,161.1	3,007	1,160.3	3,005	0.8	2		338	343	552
Kalawao	13.3	34	13.3	34	—	—		220	234	377
Honolulu	610.9	1,582	595.7	1,543	15.2	39		137	220	162
Kauai	627.1	1,624	619.1	1,603	8.0	21		137	220	162
Islands:										
Hawaii	4,038.0	10,458	4,037.0	10,456	1.0	3	266	428	313	504
Maui	728.8	1,888	728.2	1,886	0.6	2	120	193	149	240
Kahoolawe	45.0	117	45.0	117	—	—	29	47	36	58
Molokini	(⁵)	(⁵)	(⁵)	(⁵)	—	—	...	...	...	...
Lanai	139.5	361	139.5	361	—	—	47	76	52	84
Molokai	261.1	676	260.9	676	0.2	1	88	142	106	171
Oahu	607.7	1,574	592.7	1,535	15.0	39	112	180	209	336
Kauai	553.3	1,433	548.7	1,421	4.6	12	90	145	110	177
Niihau	73.0	189	69.6	180	3.4	9	45	72	50	80
Lehua	0.4	1	0.4	1	—	—	...	...	...	...
Kaula	0.4	1	0.4	1	—	—	2	3	2	3
Northwestern Haw'n I. ⁶	3.2	8	3.0	8	0.2	1	25	40	25	40
Cities:										
Hilo ⁷	298.9	774	298.9	774	—	—	...	...	...	...
Honolulu ⁸	88.7	230	86.6	224	2.1	5	...	...	...	...
On Oahu	85.5	221	83.6	217	1.9	5	...	...	...	...

¹ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

² Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water; and islands having less than 40 acres of area.

³ Figures are lengths of general outline of seacoast. Measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. Coastline of bays is included to a point where they narrow to width of unit measure, and includes the distance across at such point. Figures for the four islands of Maui County are not consistent with the published county total.

⁴ Figures obtained in 1939-1940 with a recording instrument on the largest-scale charts and maps then available. Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

⁵ The area of Molokini is 18.6 acres (0.03 square miles or 7.5 hectares).

⁶ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, but exclusive of the Midway Islands (which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii).

⁷ As defined in Hawaii Revised Statutes, Sec. 70-1. As defined for statistical purposes under provisions of Sec. 26-18, Hilo has a land area of 56.1 square miles or 145 square kilometers.

⁸ As defined for statistical purposes under HRS, Sec. 26-18. Includes the Northwestern Hawaiian Islands from Nihoa to Kure Atoll, exclusive of the Midway Islands.

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

Table 81.—MAJOR SUMMITS
[Elevation of the highest point on each island
and other important peaks.]

Island and mountain	Elevation		Island and mountain	Elevation	
	Feet	Meters		Feet	Meters
Hawaii:			Oahu, continued:		
Mauna Kea ¹	13,796	4,205	Tantalus	2,013	614
Mauna Loa	13,677	4,169	Olomana	1,643	501
Hualalai	8,271	2,521	Diamond Head	760	232
Kohala	5,480	1,670	Punchbowl	500	152
Kilauea (Uwekahuna)	4,093	1,248	Koko Head	642	196
Kilauea (Halemaumau Rim) .	3,660	1,116			
			Kauai:		
Kahoolawe:			Kawaikini	5,243	1,598
Lua Makika	1,477	450	Waialeale	5,148	1,569
Maui:			Niihau:		
Haleakala (Red Hill)	10,023	3,055	Paniau	1,281	390
Haleakala (Kaupo Gap)	8,201	2,500			
Puu Kukui	5,788	1,764	Kaula	550	168
Iao Needle	2,250	686	Nihoa	910	277
			Necker Island	277	84
Lanai:			La Perouse Pinnacle	135	41
Lanaihale	3,370	1,027	Gardner Pinnacles	190	58
			Maro Reef	Awash	Awash
Molokai:			Laysan Island	35	11
Kamakou	4,970	1,515	Lisianski Island	20	6
Puu Nana	1,381	421	Pearl and Hermes Atoll	—	—
			Midway Islands ³	12±	4±
Oahu:			Kure Atoll	20	6
Kaala	4,020	1,225	Kingman Reef ³	3	1
Konahuanui ²	3,150	960	Palmyra Islands ³	6	2

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

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

³ Not part of the State of Hawaii.

Source: U.S. Geological Survey data cited in the Hawaii State Department of Planning and Economic Development, *Elevations of Major Mountains in Hawaii* (Statistical Report 52, November 7, 1967), as revised by the U.S. National Cartographic Information Center, October 11, 1978.

Table 82.—MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waiialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): ¹		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	184.0
Maui	Iao Stream	54.1
Molokai	Pulena Stream	22.1
Oahu	Waikele Stream	25.7
Kauai	Hanalei River	151.0

¹ Estimated on basis of drainage area rather than stream runoff. Other major streams include Honokohau Stream, Maui (9.4 miles long); Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), and Waiakakalaua Stream (11.8), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Lengths from Hawaii State Department of Planning and Economic Development, *Hawai'i, the Natural Environment* (1974), p. 15; discharges from Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied May 27, 1977.

Table 83.—MAJOR DAMS: 1977

Name	Location	Height (ft.)	Length (ft.)	Volume (cubic yds.)	Completed (year)	Volume of water impounded (acre ft.)
Wahiawa Dam	Wahiawa, Oahu ...	98	460	167,000	1906	7,776
Waita	Koloa, Kauai	27	3,050	(NA)	1905	7,350
Kualapuu	Kualapuu, Molokai..	58	3,900	1,267,000	1969	4,290
Alexander Dam	Kalaheo, Kauai	104	700	(NA)	1931	2,490

NA: Not available.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development; information supplied March 11, 1977.

Table 84.—DAMS: 1975

Island	Hazard potential (number of dams)				Oldest dam (year built)	Highest dam (feet)	Max. capacity (acre feet)
	Total	High	Significant	Low			
State total	119	55	8	56	1885	105	9,200
Hawaii	10	5	1	4	1920	42	968
Maui	39	11	6	22	1885	48	260
Lanai .....	—	—	—	—	...	...	...
Molokai	1	1	—	—	1969	54	6,000
Oahu	19	13	—	6	1906	97	9,200
Kauai	50	25	1	24	1890	105	8,000
Niihau .....	—	—	—	—	...	...	...

Source: U.S. Department of the Army, Office of the Chief of Engineers, *National Program of Inspection of Dams*, Vol. II (May 1975), pp. F-12-1 to F-12-5.

Table 85.—LARGEST LAKES, BY ISLANDS

Island	Name of largest lake ¹	Category	Maximum depth (feet)	Altitude (feet)	Area (acres)	Shoreline (miles)
Hawaii	Waiakea Pond	Natural	(NA)	Sea level	27	2
	Lake Waiiau ²	Natural	10	13,020	1.5	0.2
Maui	Kanaha Pond	Natural	(NA)	Sea level	41	2
Kahoolawe	None					
Lanai	None					
Molokai	Meyer Lake	Natural	5	2,021	6	1
Oahu	Wahiawa Reservoir	Man-made	85	842	333	11
Kauai	Waita Reservoir ...	Man-made	23	233	422	3
Niihau	Halulu Lake	Natural	(NA)	Sea level	182	3

NA Not available.

¹ 1 Excludes shoreline fish ponds and areas filled only during floods. The largest intermittent lake is Halalii Lake, Niihau (840.7 acres).

² Highest lake in the State and third highest in the United States.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 86.—MAJOR NAMED WATERFALLS, BY ISLANDS

Island	Waterfall ¹	Height (feet)		Horizontal distance (feet)	Average discharge (million gal./day)
		Sheer drop	Cascade		
Hawaii	Kaluahine	...	620	400	...
	Akaka	442	...	...	...
	Waiilikahi	320	...	...	6
	Hiilawe (3 falls)	...	300	200	...
	Rainbow	...	80	150	182
Maui	Honokohau	...	1,120	500	25
	Waihiumalu	...	400	150	...
	Waimoku	...	40	50	37
Molokai	Kahiwa	...	1,750	1,000	...
	Papalaua	...	1,200	500	...
	Wailele	...	500	150	...
	Haloku	...	500	200	...
	Hipuapua ²	...	500	300	...
	Olupena	...	300	150	...
	Moaula ²	...	250	200	20
Oahu	Kaliuwaa (Sacred) ³	80	1,520	3,000	...
	Waihee (Waimea)	80	...	...	8
	Manoa	...	200	250	2
Kauai	Waipoo (2 falls)	...	800	600	...
	Awini	...	480	500	...
	Hinalele	280	...	...	...
	Kapakanui	280	...	...	...
	Manawaiopuna	280	...	...	...
	Wailua	80	...	...	76
	Opaekaa	40	...	...	...
	Puwainui	20	...	...	92

¹ Includes the largest named waterfall in each major island, either in height or average discharge; all other named falls 250 feet high or over; and well-known smaller falls. Many unnamed falls have sheer drops of 200 feet or more.

² Average discharge shown for Moaula includes flow from Hipuapua.

³ Sheer drop refers to northernmost fall of a cascade of six falls.

Source: Heights from Map Information Office, U.S. Geological Survey, July-October 1969; average discharges from Division of Water and Land Development, Hawaii State Department of Land and Natural Resources, July 1977.

Table 87.—MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights of —		Miles from coast of most remote point	Percent of area within 5 miles of coast
			100 to 999 ft.	1,000 ft. or more		
The State . . . . .	. . .	. . .	145	33	28.5	48.8
Hawaii	93	76	50	4	28.5	30.0
Maui	48	26	29	—	10.6	76.1
Kahoolawe	11	6	14	—	2.4	100.0
Lanai	18	13	13	1	5.2	100.0
Molokai	38	10	15	14	3.9	100.0
Oahu	44	30	3	—	10.6	79.0
Kauai	33	25	14	11	10.8	67.0
Niihau	18	6	7	3	2.4	100.0
Island	Percent of area with elevation —		Approximate mean altitude (feet)	Percent of area with slope —		
	Less than 500 feet	2,000 feet or more		Less than 10 percent	10 to 19 percent	20 percent or more
The State	20.8	50.9	3,030	63.5	19.5	17.0
Hawaii	12.0	68.4	3,950	76.0	20.0	4.0
Maui	24.9	41.4	2,390	38.5	25.5	36.0
Kahoolawe	38.9	0	600	60.0	31.0	9.0
Lanai	24.8	6.3	1,140	61.0	23.0	16.0
Molokai	37.3	17.8	1,150	53.0	21.0	26.0
Oahu	45.3	4.6	860	42.5	12.0	45.5
Kauai	35.6	24.0	1,380	33.5	16.0	50.5
Niihau	78.2	0	530	68.0	19.5	12.5

Source: Hawaii State Department of Planning and Economic Development, *Hawai'i, the Natural Environment* (1974), p. 19; U.S. Geological Survey, *Elevations and Distances in the United States* (1978), pp. 4-5.

Table 88.—VOLCANIC ERUPTIONS: 1959 TO 1978

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location	Altitude (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	300	<1	Summit	13,000-12,100	5.2	39,200
Kilauea:						
1959: Nov. 14	53.5	36	Kilauea Iki	3,500	0.24	51,000
1960: Jan. 13	0.8	36	E. rift	100	4.1	155,000
1961: Feb. 24	12.2	1	Halemaumau	3,150	0.02	30
Mar. 3	0.2	22	Halemaumau	3,150	0.1	350
July 10	3.5	7	Halemaumau	3,150	0.4	17,300
Sept. 22	2.2	3	E. rift	2,600-1,300	0.3	3,000
1962: Dec. 7	14.4	2	E. rift	3,250-3,100	0.02	430
1963: Aug. 21	8.4	2	E. rift	3,150-2,700	0.06	1,100
Oct. 5	1.4	1	E. rift	2,750-2,300	1.3	9,000
1965: Mar. 5	17.0	10	E. rift	3,000-2,300	3.0	23,000
Dec. 24	9.5	<1	E. rift	3,150-3,000	0.23	1,160
1967: Nov. 5	23.3	251	Halemaumau	3,150	0.25	110,000
1968: Aug. 22	1.3	5	E. rift	2,900-1,900	0.01	176
Oct. 7	1.3	15	E. rift	3,00-2,400	0.8	9,000
1969: Feb. 22	4.0	6	E. rift	3,100-2,900	2.3	22,000
May 24	2.0	867	E. rift	3,150	19.3	242,000
1971: Aug. 14	—	<1	Caldera	3,660-3,600	0.8	12,400
Sept. 24	—	5	Caldera, SW rift	3,740-2,730	1.5	10,500
1972: Feb. 4	4.3	455	E. rift	3,150	13.5	163,800
1973: May 5	—	<1	E. rift	3,340-3,250	0.1	1,600
May 7 ¹	—	187	...	...	0.2	3,200
Nov. 10	—	30	E. rift	3,250-2,900	0.4	3,700
Dec. 12	1.1	203	E. rift	3,150	3.1	39,300
1974: July 19	—	3	Caldera, E. rift	3,600-3,520	1.2	9,000
Sept. 19	2.0	<1	Caldera	3,680	0.4	14,000
Dec. 31	3.4	<1	Caldera	3,600	2.9	19,600
1975: Nov. 29	11.0	<1	Caldera	3,600	0.05	330
1977: Sept. 13	21.5	18	E. rift	1,600-2,080	3.0	45,000

¹ Listed by the Hawaiian Volcano Observatory staff but not by Macdonald and Hubbard (see source).

Source: Gordon A. Macdonald and Douglass H. Hubbard, *Volcanoes of the National Parks in Hawaii*, 7th edition (Hawaii Natural History Association, December 1974), pp. 14 and 29, as corrected by Dr. Macdonald, May 5, 1976, and updated by the staff of the Hawaiian Volcano Observatory, April 28, 1976, May 21, 1976, March 25, 1977, and February 8, 1978. Correct to February 8, 1978.

**Table 89.—EARTHQUAKES OF MAGNITUDE 5 OR GREATER:
1957 TO 1977**

Date	Location	Magnitude (Richter Scale)
1957: Aug. 18	E. of Hana, Maui	5.6
1961: Sept. 25	Hawaii	5.75-6
1962: June 27	Hawaii	6.1
June 28	Hawaii	5.75
1963: Oct. 23	Hawaii	5.4
1964: Oct. 11	W. of S. Kona	5.3
Dec. 10	Hawaii	5
1969: May 9	Hawaii	5
1971: Aug. 1	S.E. of Hawaii	4.5-5
1972: Dec. 23	W. of Kona	5
1973: Apr. 26	Hawaii	6.2
Oct. 9	Hawaii	4.8-5
1974: Nov. 30	Hawaii	5.5-6
1975: Jan. 1, 2:41 AM	Near Pahala, Hawaii	5.1
Jan. 1, 3:20 AM	Mauna Loa, Hawaii	5.1
Jan. 2	Near Pahala, Hawaii	5.6
Jan. 5	Mauna Loa, Hawaii	5.1
Nov. 29, 3:35 AM	Puna, Hawaii	5.7
Nov. 29, 4:47 AM	Puna, Hawaii	7.2
1977: Jan.22	100 miles S. of Kauai	5.0

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, *A Study of Past Earthquakes, Isoseismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii* (University of Hawaii, Center for Engineering Research, June 15, 1972, pp. 16-19; Hawaii Institute of Geophysics, records. Complete to Aug. 31, 1977.

**Table 90.—TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:
1946 TO 1978**

[Correct to February 9, 1978]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	—	1,000,000
1957: March 9	16.0	52.5	—	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	—	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, *Catalog of Tsunamis in the Hawaiian Islands* (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. III (1969), pp. 66-86; Hawaii Institute of Geophysics, records; Harold G. Loomis, *The Tsunami of November 29, 1975 in Hawaii* (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, *Local Tsunamis and Possible Local Tsunamis in Hawaii* (Hawaii Institute of Geophysics, Report HIG 77-14).

Table 91.—WATER USE: 1965 TO 1975
 [In millions of gallons per day, unless otherwise specified.]

Subject	1965	1970	1975
Water withdrawn ¹	2,000	2,700	2,500
Ground water	820	920	870
Fresh	780	910	850
Saline	37	13	15
Surface water	1,200	1,700	1,600
Fresh	670	850	650
Saline	500	860	980
Reclaimed sewage	—	66	—
Withdrawn for irrigation	1,160	1,280	950
Conveyance losses	200	220	450
Used for hydroelectric power	360	330	200
Fresh water consumed	580	810	560
Per capita use (gallons per day)	2,800	3,500	1,900

¹ Excludes water used for hydroelectric power but includes irrigation conveyance losses.
 Source: U.S. Geological Survey, *Estimated Use of Water in the United States* for 1965 (Circular 556, 1968), 1970 (Circular 676, 1972), and 1975 (Circular 765, 1977).

Table 92.—AVERAGE DAILY WATER CONSUMPTION FROM COUNTY WATERWORKS: 1967 TO 1977
 [In millions of gallons. For years ended June 30.]

Year	Total	City of Honolulu	Rest of Oahu	Hawaii County	Kauai County	Maui County
1967	(NA)	51.0	28.0	(NA)	3.05	6.22
1968	95.3	51.5	29.1	5.38	3.28	6.06
1969	106.2	56.3	33.5	5.94	3.44	7.06
1970	115.5	59.8	37.0	6.67	4.11	7.94
1971	117.9	60.4	37.7	7.16	4.06	8.55
1972	125.1	62.4	40.7	8.02	4.34	9.63
1973	135.7	67.2	44.4	8.99	4.66	10.45
1974	133.6	65.6	43.0	9.32	5.04	10.69
1975	138.3	65.3	45.9	9.63	5.20	12.29
1976	149.5	68.8	50.9	10.20	5.93	13.56
1977	156.5	70.6	52.9	11.30	5.99	15.75

NA Not available.

Source: Honolulu Board of Water Supply, *Annual Report and Statistical Summary* (annual), Hawaii County Department of Water Supply, *Annual Report* (annual) and records; Kauai County Department of Water, records; Maui County Department of Water Supply, *Annual Report* (annual) and records.

Table 93.—WATER QUALITY AT OAHU BEACHES: 1975 TO 1977

Beach	Number of samples			Fecal coliform density ¹ (geometric mean, MPN/100 ml)		
	1975	1976	1977	1975	1976	1977
Ala Moana Park (Ewa)	38	35	33	8.2	11.2	3.8
Ala Moana Park (Center)	32	14	9	3.9	8.3	2.0
Ala Moana Park (Diamond Head)	35	20	9	11.1	12.4	2.2
Bellows Air Force Beach	9	—	—	12.0	(NA)	(NA)
Elks Club Beach	39	13	9	20.8	25.7	3.9
Ewa Beach	11	10	11	6.9	14.8	2.5
Fort DeRussy Beach	29	12	9	36.8	83.0	3.2
Gray's Beach	44	35	34	28.0	13.8	4.7
Haleiwa Park Beach	8	3	5	12.1	25.0	2.9
Hanauma Bay	11	9	10	4.8	4.7	4.0
Hauula Park Beach	10	8	4	6.4	23.4	6.3
Kaaawa Park Beach	10	8	4	17.6	18.2	21.4
Kahala Beach	9	—	—	46.2	(NA)	(NA)
Kahala Hilton Beach	9	—	—	22.4	(NA)	(NA)
Kahana Park Beach	10	8	4	228.6	160.5	81.4
Kahanamoku Beach	34	14	13	18.8	9.1	6.3
Kahanamoku Lagoon (Ewa)	24	—	—	288.7	(NA)	(NA)
Kahanamoku Lagoon (Diamond Head)	36	29	32	148.4	35.4	8.7
Kailua Park Beach	8	8	10	26.3	20.8	9.1
Kalama Beach	8	8	4	51.3	19.1	3.6
Kawela Bay	6	—	—	12.8	(NA)	(NA)
Kokokahi Pier	14	8	9	35.1	56.4	58.0
Kuhio Beach	41	14	11	41.7	45.5	19.3
Lanikai Beach	6	—	—	74.5	(NA)	(NA)
Makaha Beach	11	11	6	3.1	3.4	3.2
Nanakuli Park Beach	11	12	6	2.9	5.9	2.5
Public Bath Beach	43	33	33	6.9	6.9	2.4
Punaluu Park Beach	10	8	4	85.3	82.6	14.7
Sandy Beach (East)	11	9	10	3.8	22.4	2.6
Sandy Beach (West)	9	—	—	3.2	(NA)	(NA)
Tavern Beach	40	13	9	9.8	5.4	4.2
Waianae Park Beach	11	12	12	5.1	12.4	3.8
Waikiki Natatorium	29	—	—	4.9	(NA)	(NA)
Waimanalo Park Beach	10	10	10	6.0	21.5	8.5
Waimanalo Surfer's Beach	8	—	—	9.7	(NA)	(NA)

NA Not available.

¹ EPA criterion for bathing waters: Not to exceed a geometric mean of 200 fecal coliform bacteria per 100 ml. of water.
Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

**Table 94.—SUSPENDED PARTICULATE
MATTER, FOR HONOLULU:
1970 TO 1977**

[Sampling conducted from roof of Health Department
Building. Annual mean levels over 80 micrograms
per cubic meter may affect human health.]

Year	Mean micrograms per cubic meter
1970	37
1971	45
1972	41
1973	34
1974	35
1975	40
1976	34
1977	31

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

Table 95.—AIR POLLUTANT EMISSIONS, BY SOURCE AND COUNTIES: 1976

[In tons per year; as of July.]

Counties and sources	Sulfur oxides	Particulates	Carbon monoxide	Hydrocarbons	Nitrogen oxides
Total	66,702	80,166	329,662	94,607	61,524
COUNTIES					
City and County of Honolulu	59,090	45,841	212,255	58,998	44,510
County of Hawaii	3,355	8,925	49,335	14,823	6,860
County of Kauai	1,194	7,291	32,088	10,207	3,710
County of Maui	3,063	18,109	35,984	10,579	6,444
SOURCES					
Transportation	2,761	4,004	239,843	44,471	26,612
Motor vehicles	780	2,402	219,038	35,128	20,644
Aircraft	310	1,122	6,252	3,904	1,584
Vessels	1,436	207	3,530	1,293	1,342
Off-highway fuel usage	235	272	11,023	1,203	3,042
Gasoline handling and evaporation ...	(N)	(N)	(N)	2,943	(N)
Fuel combustion in stationary sources ..	58,117	12,872	4,628	5,991	30,906
Residential, commercial, institutional .	1,044	228	99	73	716
Industrial and agricultural	14,403	9,936	3,725	5,484	6,545
Steam-electric utilities	42,670	2,708	804	434	23,645
Solid waste disposal	299	1,343	6,196	2,998	470
Open burning	41	698	3,704	1,309	262
Incineration	258	645	2,492	1,689	208
Industrial process losses	5,525	39,754	668	15,038	925
Agricultural field burning	(N)	22,193	78,327	26,109	2,611

N Negligible

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

Table 96.—AEROMETRIC SURVEY DATA FOR SPECIFIED LOCATIONS: 1977

Location	Particulate matter (micrograms per cubic meter)			Sulfur dioxide (micrograms per cubic meter)		
	Minimum	Maximum	Annual average	Minimum	Maximum	Annual average
Oahu:						
Ala Moana ¹	18	109	40	<5	<5	<5
Dept. of Health Bldg. ²	14	51	31	<5	53	17
Kalihi Kai	26	81	60	<5	<5	<5
Pearl City.....	22	111	40	<5	38	<5
Barbers Point	25	134	54	<5	18	<5
Waimanalo.....	14	59	31	...	...	...
Maui:						
Kahului.....	47	177	73	<5	246	53
Kihei	23	133	60	...	...	...
Hawaii:						
Hilo.....	15	80	32	<5	<5	<5
Kauai:						
Lihue.....	12	84	34	<5	<5	<5

¹ Site moved from Sewer Pumping Station to McCoy Pavilion on February 28, 1977.

² Also surveyed for carbon monoxide, 1 hour (minimum of 0 milligrams per cubic meter and maximum of 19.6) and photochemical oxidants (minimum of 4 micrograms per cubic meter and maximum of 61).

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

Table 97.—NOISE LEVELS IN VARIOUS NEIGHBORHOODS ON OAHU: 1974

[Noise measurements were taken at 578 stations distributed over the populated areas on Oahu, except Waialua, Haleiwa and small communities along the north shoreline. Noise readings were not taken in these areas because previous noise measurements in these communities were similar to noise levels in Waimanalo and Olomana areas. The noise measurement stations were randomly distributed over the communities.

Since one of the objectives of this noise survey was to establish the existing ambient and residual noise levels of each community, the noise readings at each station were taken as far as possible away from all heavily used roads and freeways. Loud identifiable noise from nearby traffic, airplane passing overhead, dogs barking and noise from other sources were also measured. The noise readings at any location were taken on three or more widely separated days. This was done to avoid any abnormal noise conditions. In densely populated areas, the noise survey was conducted between the hours of 4:00 a.m. to 10:00 a.m., 9:00 a.m. to 5:00 p.m. and 4:00 p.m. to 2:00 a.m. In less populated areas west of Pearl City, Wahiawa and Mililani Town, the noise readings were taken during the daytime only.]

Neighborhood	Noise level (in decibels) exceeded —		
	10 percent of time	50 percent of time	90 percent of time
HONOLULU			
Aina Haina	53.5	45.0	40.0
Aina Koa	61.0	48.4	42.3
Downtown	67.0	58.0	50.5
Hawaii Kai	57.0	46.5	40.5
Kahala	56.7	45.5	42.0
Kaimuki	59.0	50.7	44.0
Kalihi	58.0	50.2	43.7
Kapahulu	55.0	49.7	44.0
Kapalama-Liliha	63.8	56.0	46.0
Kuliouou	53.5	46.3	40.5
Makiki	64.5	55.0	49.5
Manoa	58.7	45.3	40.0
Moiliili	62.0	55.0	50.0
Niu Valley	57.0	46.7	39.5
Nuuanu	63.0	50.1	45.4
Palolo	58.5	49.4	44.0
Pawaa	65.5	60.0	54.0
Waikiki	69.0	61.5	54.0
Waialae-Iki	60.0	50.5	41.5
Ward to Punchbowl	67.5	60.2	57.0
REST OF OAHU			
Aiea-Waimalu	57.5	47.3	40.5
Halawa Heights, Foster Village, Salt Lake, Aliamanu	57.5	54.5	48.7
Kailua	55.5	45.0	37.5
Kaneohe	54.0	45.5	40.5
Mililani Town	57.5	50.0	45.0
Pearl City	53.2	44.7	38.7
Wahiawa	62.5	50.5	46.0
Waianae	56.5	50.0	45.0
Waimanalo	54.5	50.0	44.5
Waipahu	59.0	51.0	45.5

Source: Survey conducted by Dr. Iwao Miyake for the Hawaii State Department of Health, and summarized by the Noise and Radiation Branch, Department of Health.

Table 98.—CLIMATIC DATA FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F)		Extreme temperature of record (°F)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Hawaii:							
Hilo Airport	27	71.0	75.9	53	94	133.57	39
Hawaii Volcanoes Nat. Pk. Hq.	3,971	57.6	63.2	37	85	102.81	...
Kona (Kailua)	30	72.1	77.3	54	93	25.22	...
Puako ¹	10	73.1	79.8	52	98	9.47	...
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05	...
Mauna Kea summit ²	13,796	31.1	42.5	11	66	8.08	...
Maui:							
Hana	120	71.3	76.8	50	90	70.65	...
Haleakala summit	9,960	42.6	50.0	14	73	50.69	...
Kihei ³	90	70.9	78.4	49	98	13.79	...
Kahului Airport	48	71.6	78.8	48	96	18.43	70
Lahaina	45	71.5	78.0	52	93	15.51	...
Molokai:							
Kaunakakai	12	...	...	...	...	14.08	...
Molokai Airport	450	70.2	77.6	48	90	29.21	...
Lanai:							
Lanai City	1,620	65.8	72.8	46	88	38.44	...
Oahu:							
Honolulu International Airport	7	72.3	80.7	53	92	22.90	67
Honolulu Federal Bldg. ⁴	12	72.0	78.6	57	88	25.35	65
Waikiki ⁵	10	71.9	80.6	51	93	27.32	...
Manoa (HSPA)	500	69.4	75.2	...	...	158.41	...
Kaneohe MCAS	10	72.9	79.1	58	90	43.88	...
Kahuku	25	71.6	78.8	49	95	41.10	...
Wheeler AFB	826	68.2	75.5	52	89	39.85	...
Waianae	20	72.1	79.7	45	96	20.31	...
Kauai:							
Kilauea	315	68.7	75.6	49	94	68.03	...
Kealia	9	70.2	78.0	44	93	43.28	...
Lihue Airport	103	71.2	79.1	50	90	44.18	56
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39	...
Kokee (Kanalohuluhulu) ...	3,600	54.9	65.5	31	80	72.25	...
Waialeale	5,075	...	...	...	...	486.	...
Northwestern Hawaiian Islands:							
Midway	10	65.0	78.6	52	89	43.60	...

¹ Temperature data are for Mahukona.

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

³ Temperature data refer to Puunene Airport.

⁴ Temperature sensors are 87 feet above the ground.

⁵ Located at Honolulu Zoo. Available only from 1965.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 17, 1976 and May 2, 1977.

Table 99.—MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F.)			Extreme temperature (°F.) ¹		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
Jan.	79.3	65.3	72.3	85	53	4.40	14.74	0.48	6.72
Feb.	79.2	65.3	72.3	87	53	2.46	13.68	0.32	6.88
Mar.	79.7	66.3	73.0	87	55	3.18	20.79	0.01	17.07
Apr.	81.4	68.1	74.8	87	59	1.36	8.92	0.01	4.21
May	83.6	70.2	76.9	88	63	0.96	7.23	0.05	3.44
June	85.6	72.2	78.9	90	65	0.32	2.46	T	2.28
July	86.8	73.4	80.1	90	67	0.60	2.01	0.03	1.03
Aug.	87.4	74.0	80.7	92	67	0.76	3.08	T	2.35
Sept.	87.4	73.4	80.4	92	66	0.67	2.74	0.05	1.40
Oct.	85.8	72.0	78.9	91	64	1.51	5.83	0.11	2.81
Nov.	83.2	69.8	76.5	89	58	2.99	14.72	0.03	9.15
Dec.	80.3	67.1	73.7	89	54	3.69	12.09	0.06	8.14
Ann.	83.3	69.8	76.6	92	53	22.90	20.79	T	17.07

Month	Relative humidity (percent) ²		Wind (miles/hour)		Percent of possible sunshine	Mean sky cover. sunrise to sunset ³	Mean number of days		
	8 A.M.	2 P.M.	Mean speed	Fastest mile			Sunrise to sunset		Precip. .01 inch or more
							Clear	Cloudy	
Jan.	81	63	9.9	67	63	5.5	9	10	10
Feb.	76	59	10.8	63	65	5.7	7	9	10
Mar.	73	59	11.6	59	68	6.0	7	10	9
Apr.	70	58	12.2	40	66	6.3	6	11	9
May	66	54	12.3	35	69	6.0	7	10	7
June	65	53	12.9	39	70	5.6	6	7	6
July	65	51	13.7	34	73	5.3	8	6	8
Aug.	66	53	13.5	52	75	5.2	8	6	7
Sept.	65	52	11.7	36	74	5.1	9	6	7
Oct.	67	54	10.9	40	67	5.6	8	8	9
Nov.	73	58	11.1	65	60	5.7	7	9	10
Dec.	76	60	11.0	59	59	5.5	8	10	10
Ann.	70	56	11.8	67	67	5.6	90	102	102

T Trace, an amount too small to measure.

¹ For periods October 1962 through December 1964 and September 1971 through December 1977. At other times, temperatures as high as 93° and as low as 52° have been recorded at the Airport.

² Data for 1963, 1964, and 1972-1977.

³ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1977.*

Table 100.—CLIMATIC DATA FOR THE PERIOD OF RECORD

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

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

Table 101.—TEMPERATURE AND RAINFALL, FOR SPECIFIED LOCATIONS: 1967 TO 1977

Year	Average temperature (°F.): Honolulu Federal Bldg.			Extreme temps. (°F.) Honolulu Fed. Bldg.		Annual rainfall (inches)				
	Annual	February	August	Lowest	Highest	Honolulu Fed. Bldg.	Hilo Airport	Holualoa Beach	Lahaina	Koloa
1967	76.0	73.5	79.6	60	87	37.63	154.00	31.10	28.48	86.23
1968	77.0	73.0	80.9	63	88	36.24	134.14	48.86	25.87	84.00
1969	74.8	71.9	78.7	59	86	26.71	173.23	32.89	10.09	72.42
1970	75.5	71.7	78.9	59	85	18.35	153.98	20.78	11.95	64.45
1971	75.4	73.5	78.5	59	85	28.61	140.69	37.61	15.93	75.33
1972	75.0	71.2	78.8	61	88	26.72	98.85	33.22	20.21	66.72
1973	74.8	70.8	78.1	62	85	18.66	107.97	14.85	10.13	66.78
1974	75.9	73.8	79.0	63	86	28.24	117.34	40.49	13.01	86.35
1975	74.6	72.1	77.5	61	85	24.63	99.93	25.97	12.19	49.91
1976 ¹ .....	...	71.6	80.6	60	88	...	114.67	25.51	8.86	62.60
1977 .....	...	...	...	...	...	...	90.38	...	8.28	52.51

¹ Honolulu Federal Building observations discontinued in December.

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

Table 102.—CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1967 TO 1977

Year	Average temperature (degrees F.)			Extreme temp. (°F.)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1967.....	77.6	72.5	82.4	59	92	34.34
1968.....	77.9	73.0	82.9	59	92	37.26
1969.....	77.4	69.1	83.2	52	92	22.50
1970.....	78.2	73.3	83.8	58	92	15.49
1971.....	76.1	71.7	79.5	56	89	26.64
1972.....	76.2	70.4	81.1	53	90	26.94
1973.....	77.2	72.6	81.2	55	91	14.24
1974.....	77.5	74.0	81.2	58	92	24.02
1975.....	76.2	72.4	80.1	56	90	24.39
1976.....	76.8	72.0	80.8	53	91	12.90
1977.....	78.2	73.7	82.2	59	92	12.36

Year	Relative humidity (%)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A. M.	2 P. M.	Annual average	Fastest mile		
1967.....	71	58	10.0	34	58	138
1968.....	74	59	10.4	43	63	114
1969.....	73	57	12.8	40	68	96
1970.....	69	54	13.2	40	72	120
1971.....	72	57	13.3	34	70	110
1972.....	72	57	13.2	33	65	93
1973.....	70	54	12.7	33	63	110
1974.....	73	58	10.9	34	61	118
1975.....	72	56	12.2	36	62	82
1976.....	64	52	11.5	38	60	105
1977.....	71	55	12.2	37	68	81

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual), as supplied by Hawaii State Department of Land and Natural Resources, Water Resources Information Center.

**Table 103.—AVERAGE WATER TEMPERATURES
AT WAIKIKI BEACH**

Month	Morning (°F.)	Afternoon (°F.)
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1977.*

**Table 104.—SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU,
AND LIHUE, FOR SELECTED DATES**
[Hawaiian Standard Time.]

Place and date	Sunrise (A. M.)	Sunset (P. M.)	Hours of daylight
Hilo:			
June 21	5:42	7:02	13:20
December 22	6:51	5:47	10:56
Honolulu:			
January 1	7:10	6:01	10:51
February 1	7:09	6:22	11:13
March 1	6:52	6:36	11:44
April 1	6:25	6:47	12:22
May 1	6:01	6:57	12:56
June 1	5:49	7:10	13:21
June 21	5:50	7:16	13:26
July 1	5:53	7:18	13:25
August 1	6:05	7:11	13:06
September 1	6:15	6:48	12:33
October 1	6:23	6:20	11:57
November 1	6:35	5:56	11:21
December 1	6:53	5:49	10:56
December 22	7:05	5:55	10:50
Lihue:			
June 21	5:55	7:23	13:28
December 22	7:12	6:00	10:47

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 105.—TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1970 TO 1977

Year (as of June 30)	City and County streets and highways ¹		Trees in City and County parks
	Length in miles	Trees	
1970.....	934	46,290	63,500
1971.....	958	54,146	64,500
1972.....	974	61,023	65,000
1973.....	987	70,497	65,500
1974.....	1,000	82,635	65,800
1975.....	1,022	88,654	68,300
1976.....	1,036	93,658	92,800
1977.....	1,050	97,865	93,800

¹ Excludes Federal, State, and private thoroughfares.
Source: Honolulu Department of Parks and Recreation, records.

**Table 106.—HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA:
1958 TO 1977**

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali.]

Year	Species	Individual birds	Species ¹	Individual birds
1958	34	7,457	Endemic species:	
1959	34	4,076	'Apapane	145
1960	34	4,656	Oahu 'Amakihi	128
1961	39	3,954	Hawaiian Stilt	106
1962	39	2,969		
1963	35	7,963	Indigenous species:	
1964	34	10,139	Red-footed Booby	1,647
1965	46	11,820+	Great Frigatebird	571
1966	51	12,557		
1967	51	22,641	Introduced species:	
1968	49	11,024	Barred Dove	2,201
1969	53	13,236	Common Myna	2,173
1970	51	10,454	Cattle Egret	1,316
1971	50	13,218	House Sparrow	1,112
1972	52	14,559	Japanese White-eye	953
1973	48	9,574	Spotted Dove	780
1974	44	10,263		
1975	54	12,008	Migratory species:	
1976	55	16,393	Golden Plover	993
1977	52	15,542	Ruddy Turnstone	134

¹ Endemic birds numbering more than 50 individuals, indigenous birds more than 100, introduced birds more than 750, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that reported in Andrew J. Berger, *Hawaiian Birdlife* (1972).

Source: Hawaii Audubon Society, *The Elepaio* for February 1968-1978.

Table 107.—ENDANGERED, THREATENED, AND EXTINCT SPECIES OF NATIVE HIGHER PLANTS: 1974

Status	Species, subspecies, and varieties	Percent
Total native flora	2,200	100.0
Endangered, threatened, or extinct ¹	1,088	49.5
Endangered ²	639	29.0
Threatened	194	8.8
Extinct	255	11.6
Not endangered, threatened, or extinct	1,112	50.5

¹ For the other 49 States, 2,099 (or 10.5 percent) of all 20,000 native higher plants are endangered, threatened, or extinct.

² A revised inventory, published June 16, 1976, listed 894 endangered Hawaiian species, out of a national total of 1,782 endangered species; see *Federal Register*, Vol. 41, No. 117 (June 16, 1976), pp. 24523-24572, and Harry Whitten, "Endangered Plants," *Honolulu Star-Bulletin*, September 5, 1977, p. A-15.

Source: 94th Congress, 1st Session, House Document No. 94-51, *Report on Endangered and Threatened Plant Species of the United States*, presented to the Congress of the United States of America by the Secretary, Smithsonian Institution, 15 December 1974, p. 11 (percentages recalculated by DPED).

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in section 7, military land in section 10, farms in section 19, and forests in section 20.

Out of the 4,128,000 acres in the State, fully 2,490,000 are in unused open space. Other major categories include agriculture, with 1,220,000 acres, services (including military installations), with 116,000, and recreation, with 94,000. In the Honolulu Standard Metropolitan Statistical Area (which is coterminous with Oahu), land in residential use increased from 16,500 acres in 1964 to 26,500 in 1974; during the same ten-year span, agricultural land declined from 94,500 to 76,100 acres. For the State as a whole, the Land Use Commission has zoned 151,000 acres as "urban," 1,977,000 as "conservation," 1,974,000 as "agricultural," and 9,000 as "rural."

Recent data on land ownership indicate that the Federal government owns 7.3 percent of all land, the State and counties own 34.7 percent, and private owners (chiefly large estates) have 58.0 percent. Total Federal holdings come to 405,500 acres, exclusive of leased land (48,100 acres); most of the Federal land is in park and military use. The State Department of Hawaiian Home Lands holds about 190,000 acres, divided among 2,738 lessees. Total land parcels number 335,411.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with Federal totals ranging from 297,000 acres to 408,000. Recent statistics on military land use are likewise confusing, going as high as 174,000 acres and as low as 56,000.

Reports of the U.S. General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Development, Department of Taxation, Department of Transportation, and Land Use Commission, the Land Study Bureau of the University of Hawaii, and county planning departments provided the data for this section. Greater detail appears in DPED Statistical Report 98, *Land Use and Ownership Trends in Hawaii*, issued December 28, 1973. Statistics for the nation as a whole are available in Sections 8 and 24 of the *Statistical Abstract of the United States: 1977*.

Table 108.—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	—
Sugarcane	262,377	58,927	40,852	4	—	47,819	114,775
Nonplantation agriculture ..	1,197,688	55,311	51,741	90,072	—	180,511	820,053
Vegetable	6,708	339	2,102	845	—	1,506	1,916
Orchard	24,294	455	1,670	104	—	536	21,529
Grazing	1,150,534	53,637	38,608	86,850	—	176,810	794,629
Other ¹	2,567	547	1,434	2	—	331	253
Idle agricultural land	13,585	333	7,927	2,271	—	1,328	1,726
Forest	289,039	38,716	30,033	2,037	5,926	14,504	197,823
Forest reserve	1,190,954	157,555	118,766	48,338	—	156,035	710,260
Recreation ²	334,256	11,244	5,184	415	66,683	18,980	231,750
Military	38,048	1,886	35,055	316	—	—	791
Urban	155,705	4,550	56,850	1,091	435	6,204	86,575
Civilian	61,233	4,400	36,957	1,091	435	6,204	12,146
Military	17,658	150	17,508	—	—	—	—
Undeveloped subdivision	76,814	—	2,385	—	—	—	74,429
Pali and barren land	503,308	22,235	23,799	7,477	—	27,852	421,945
Quarry	1,462	23	1,077	30	—	85	247
Water	8,063	966	6,584	48	—	364	101

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

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

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

Table 109.—LAND USE, BY COUNTY AND ISLAND: 1972-1976

[In acres.]

Land use	State total	Hawaii County (Dec. 1976)	Maui County (Spring 1972)			City and County of Honolulu (Dec. 1976)	Kauai County (May 1972)	
			Maui and Kahoolawe	Lanai	Molokai		Kauai	Niihau
All uses ¹	4,046,902	2,520,906	490,234	89,071	168,256	373,369	357,978	47,088
Residential	65,494	11,975	17,292	256	2,963	27,031	5,968	9
Manufacturing	3,769	619	774	—	754	1,442	177	3
Mfg. services ²	11,076	1,586	657	54	54	2,838	5,880	7
Commercial ³	2,299	435	233	13	38	1,467	113	—
Services ⁴	125,023	37,823	30,986	80	810	52,603	2,336	385
Social and cultural ⁵	7,734	1,844	1,302	15	93	4,114	361	5
Recreation ⁶	273,311	243,324	18,778	89	34	5,862	5,224	—
Agriculture	1,356,195	819,249	197,900	15,020	37,199	75,796	167,650	43,381
Transportation ⁷	5,343	1,417	776	165	24	1,688	1,273	—
Unused open spaces ⁸ ...	2,196,659	1,402,635	221,534	73,380	126,289	200,527	168,996	3,298

¹ Excludes public streets and highways. For total area by island, see table 113, footnote 1.

² Includes warehousing, construction services, and public utilities.

³ Retail and wholesale trade.

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

⁵ Educational, cultural, and religious.

⁶ Excludes commercial amusement and recreation services.

⁷ Includes airports, docks, and land transportation facilities.

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

Source: Hawaii State Department of Planning and Economic Development, *Kauai County Land Inventory Report: 1972 (1974)*, and *Maui County Land Inventory Report: 1972 (1974)*; City and County of Honolulu, Department of General Planning, *Oahu Land Use Inventory, 1976*, special tabulation; County of Hawaii, Planning Department, *Hawaii County Land Use Inventory, December 1976*, special tabulation.

Table 110.—LAND USE, FOR OAHU: DECEMBER 1976
 [In acres. Excludes public thoroughfares.]

Land use category	Acres
Total	373,155
Residential	26,519
Single family	24,390
Multifamily and miscellaneous	2,129
Manufacturing	1,442
Food processing	280
Apparel, textiles, and printing	29
Other	1,113
Transportation	1,687
Utilities & communications	2,026
Contract construction	613
Wholesale trade & warehousing	839
Retail	1,183
Eating and drinking	207
Shopping centers	285
Service stations	122
Other	569
Hotel	236
Personal services	133
Business services	565
Parking garages	110
Automotive repairs and service	117
Other	338
Public & quasi public buildings	5,404
Hospitals, medical clinics, and nursing homes	540
Government agencies, except military	639
Educational institutions	3,506
Other	719
Public and quasi public open space	8,684
Recreational facilities	4,815
Recreational facilities, private	3,251
Cemeteries	618
Unused open spaces	198,588
Forest reserve	110,591
Other	87,997
Agriculture	75,262
Military	47,194
Streets and highways, except public	1,244
Other and unknown uses	537

Source: City and County of Honolulu, Department of General Planning, special tabulation.

**Table 111.—LAND AND FLOOR AREA FOR SELECTED BUSINESS CATEGORIES,
FOR OAHU: DECEMBER 1975**

Business category	Number of establishments	Land area (acres)	Floor area (square feet)
Total	20,767	(NA)	100,435,316
Manufacturing	1,087	1,472	8,774,072
Food processing	338	306	4,537,340
Apparel, textiles & printing	248	30	1,257,666
Other	501	1,136	2,979,066
Transportation	553	1,696	4,258,188
Utilities & communications	930	1,841	1,834,908
Contract construction	819	623	2,729,035
Wholesale trade & warehousing	1,491	818	10,397,799
Retailing	6,909	1,186	16,678,103
Eating and drinking	1,325	220	2,951,401
Service stations	394	114	571,406
Other	5,190	852	13,155,296
Hotel	288	240	16,353,502
Personal services	2,608	144	3,324,450
Business services	4,057	559	12,815,058
Parking garages	299	111	3,486,386
Automotive repairs and service	589	119	1,389,637
Other	3,169	329	7,939,035
Public and quasi public buildings	2,896	5,285	19,991,812
Hospitals, medical clinics & nursing homes	239	554	4,655,161
Government agencies, except military	419	635	3,791,328
Educational institutions, except public	1,090	3,414	6,651,057
Other	1,148	682	4,894,266
Vacant unclassified spaces ¹	836	(NA)	3,278,389

NA Not available.

¹ Unoccupied offices, etc.

Source: City and County of Honolulu, Department of General Planning, special tabulation.

Table 112.—ACREAGE OF LAND USE CLASSES, BY COUNTIES: MAY 3, 1978

[Based on land use classifications used for real property assessment purposes.]

Land use class ¹	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses ²	4,065,471	371,602	751,007	2,543,176	399,686
Residential	84,165	61,845	6,697	11,524	4,099
Hotel-apartment	8,161	2,795	2,176	2,204	986
Commercial	4,625	2,724	499	1,062	340
Industrial	14,249	8,479	1,522	3,488	760
Agricultural	1,956,051	137,411	406,804	1,214,638	197,198
Conservation	1,965,551	147,683	328,201	1,297,159	192,508
Unimproved residential	32,669	10,665	5,108	13,101	3,795

¹ "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation in Sec. 246-10, Hawaii Revised Statutes (1976 Replacement).

² Excludes public streets and highways and other areas not in parcels of record, and thus differs somewhat from the official figures based on measurements of the Geography Division of the U.S. Bureau of the Census. The Bureau's data for total area (including inland water) are: State, 4,128,256 acres; Honolulu, 390,976; Maui, 751,616; Hawaii, 2,584,320; Kauai, 401,344.

Source: Hawaii State Department of Taxation, Tax Systems and Procedures, special tabulation.

Table 113.—ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1978

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate.]

Year and island	Total area ¹	Classification by State Land Use Commission			
		Urban ²	Conser- vation ³	Agricul- tural ⁴	Rural ⁵
STATE TOTALS					
1964: August	4,111,500.0	117,800.0	1,862,600.0	2,124,400.0	6,700.0
1969: August	4,111,500.0	140,163.3	2,009,086.7	1,955,875.0	6,375.0
1974: March	4,111,500.0	147,472.0	1,986,428.9	1,968,727.2	8,871.9
1975: February	4,111,500.0	148,921.4	1,976,995.7	1,976,695.4	8,887.5
1977: January (revised)	4,111,500.0	149,262.9	1,976,995.7	1,976,327.2	8,914.2
1978: January	4,111,500.0	151,012.5	1,976,931.4	1,974,339.5	9,216.7
ISLANDS: 1978					
Hawaii	2,573,400.0	33,634.3	1,310,516.2	1228,637.5	612.0
Maui	465,800.0	15,442.8	193,678.7	252,887.7	3,790.8
Kahoolawe	28,800.0	—	28,800.0	—	—
Lanai	90,500.0	2,338.5	38,202.5	47,239.0	2,720.0
Molokai	165,800.0	3,293.1	49,767.7	111,844.2	895.0
Oahu	385,300.0	86,489.2	154,907.6	143,903.2	—
Kauai	353,900.0	9,814.6	198,758.7	144,127.9	1,198.9
Niihau	45,700.0	—	—	45,700.0	—
Kaula and Lehua	400.0	—	400.0	—	—
Northwestern Haw'n Islands	1,900.0	—	1,900.0	—	—

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

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

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

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

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

Source: Hawaii State Land Use Commission, unpublished estimates.

Table 114.—LAND PARCELS, BY COUNTIES: 1970 TO 1978

[As of July 1, 1970-1976 and January 1, 1977 and 1978.]

Year ¹	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1970	259,077	122,401	23,700	101,851	11,125
1971	270,336	128,153	24,557	106,037	11,589
1972	280,540	134,880	25,472	108,314	11,874
1973	290,512	141,651	26,633	109,809	12,419
1974	302,987	149,521	28,474	111,463	13,529
1975	316,240	158,069	31,137	112,283	14,751
1976	329,695	167,044	34,148	113,406	15,097
1977	335,411	170,554	34,869	114,618	15,370
1978	342,284	174,125	36,283	115,832	16,044

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 115.—LAND OWNERSHIP AND TENURE, BY ISLANDS: 1971-1974

[In acres. Includes area in public thoroughfares on Hawaii but excludes it elsewhere.]

Islands	Survey date	All owners ¹	Federal ²	State ³	Counties ³	Private		
						Total	Fee simple	Leased
State total .....	...	4,045,931	296,765	1,399,839	2,327	2,346,999	1,857,199	489,800
Percent .....	...	100.0	7.3	34.6	0.1	58.0	45.9	12.1
Hawaii	1971	2,516,979	200,995	985,269	839	1,329,876	1,026,003	303,873
Maui	1972	461,402	12,275	155,284	365	293,478	255,272	38,206
Kahoolawe	1972	28,832	28,819	13	—	—	—	—
Lanai	1972	89,071	8	169	2	88,892	88,882	10
Molokai	1972	168,257	1,839	39,652	2	126,764	104,089	22,674
Oahu	1974	373,636	50,596	67,360	—	255,679	150,719	104,960
Kauai	1972	357,977	1,977	149,276	1,119	205,605	185,529	20,076
Niihau	1972	47,217	256	256	—	46,705	46,705	—
Other islands ⁴	1968	2,560	—	2,560	—	—	—	—

¹ Because of the omission of public thoroughfares and for other reasons, totals by island differ considerably from official area data in table 113, footnote 1.² Treatment of ceded land is unspecified.³ County land on Oahu is included with State land.⁴ Lehua, Kaula, and the Northwestern Hawaiian Islands, except Midway.Source: Hawaii State Department of Planning and Economic Development, Hawaii Urban Planning Information Center, *Land Inventory Report: 1972* for Hawaii County (1974, p. 19), Maui County (1974, pp.25-26), and Kauai County (1974, pp. 25 and 29), and underlying data; Hawaii State Department of Land and Natural Resources, *Report to the Governor 1973-1974*, p. 54 (for Lehua, Kaula, and N.W.H.I.); Honolulu Department of General Planning, Oahu land use inventory, 1974, special tabulation by DPED.

Table 116.—REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1966 TO 1976

Subject	June 30, 1966	June 30, 1971	June 30, 1975	Sept.30, 1976
OWNED				
Number of installations	137	159	249	264
Land area, total (acres)	397,929.2	396,866.5	405,529.8	407,894.0
Urban	55,654.8	9,009.3	50,862.3	54,705.0
Rural	342,274.4	387,857.2	354,667.5	353,189.0
Number of buildings	11,993	11,536	13,066	14,281
Cost, total (\$1,000) ¹	1,022,264	1,168,496	1,269,178	1,455,082
Land	26,062	46,358	43,773	51,377
Buildings	493,473	578,036	681,712	816,650
Structures and facilities	502,729	544,102	543,693	587,055
Predominant usage (acres):				
Agriculture and grazing	—	—	—	—
Forest and wildlife	—	1,767.4	3,064.4	3,106.4
Parks and historic sites	—	218,318.0	238,559.8	228,899.4
Power development and distribution	—	—	—	—
Reclamation and irrigation	—	—	—	—
Office building locations	—	28.8	50.1	47.5
Military, excluding airfields ²	—	175,202.0	116,205.1	128,200.4
Airfields .....	—				39,368.0	39,360.7
Harbor and port facilities	—	35.1	156.6	156.6
Flood control and navigation	—	625.7	1,482.1	1,482.1
Vacant	—	13.1	6.5	6.5
Institutional	—	1.5	359.5	359.5
Housing	—	81.4	82.5	84.5
Storage	—	21.8	529.8	529.8
Industrial	—	48.6	5,180.0	5,180.0
Research and development	—	5.2	11.0	6.2
Other land	—	717.9	474.4	474.4
LEASED				
Number of leases	226	276	240	254
Land area, total (acres)	43,617.9	50,767.6	48,123.0	47,108.2
Urban	16,139.5	31.5	33.4	145.4
Rural	27,478.4	50,736.1	48,089.6	46,962.8
Number of building locations	153	194	157	187
Floor area of buildings (square feet)	407,496	484,090	597,803	745,121
Annual rental (\$1,000)	1,779	2,150	3,061	2,842

¹ At time of acquisition; includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

² Figure for 1971 includes all Department of Defense land used for military functions.

Source: General Services Administration, *Summary Report on Real Property Owned by the United States Throughout the World* (annual) and *Inventory Report on Real Property Leased to the United States Throughout the World* (annual).

**Table 117.—REAL PROPERTY OWNED BY THE FEDERAL GOVERNMENT, BY AGENCY:
SEPTEMBER 30, 1976**

Agency	No. of installations	Land (acres)	Buildings		Cost (\$1,000,000)			
			No.	Floor area (1,000 sq. ft.)	Total	Land	Buildings	Structures, facilities
All agencies	264	407,894.0	14,281	67,016	1,455.1	51.4	816.6	587.1
Civil agencies	189	234,160.8	594	2,153	88.9	18.1	44.2	26.5
Amer. Battle Mon. Com.	1	0.0	—	—	1.7	—	—	1.7
Dept. of Commerce	9	183.4	30	48	1.5	0.2	1.1	0.2
Dept. of Justice	1	3.1	3	31	0.6	0.2	0.4	—
Dept. of Agriculture	5	0.0	12	20	0.5	—	0.4	0.1
Dept. of H., E., W.	1	1.5	1	20	1.0	0.1	0.9	—
Dept. of Interior	10	231,891.6	184	230	11.7	4.4	1.6	5.7
Fish & Wildlife	5	3,104.2	1	1	2.2	22	0.0	0.0
Geological Survey	1	0.0	6	7	0.1	—	0.1	—
National Park Ser.	4	228,787.4	177	222	9.3	1.2	1.5	5.6
Dept. of Transport.	144	1,868.7	333	1014	40.1	3.3	20.9	15.9
FAA	75	251.7	77	132	10.7	0.6	4.7	5.4
Coast Guard	69	1,617.0	256	881	29.4	2.7	16.2	10.5
Fed. Communic. Comm.	1	47.7	2	3	0.1	0.0	0.0	0.0
GSA	7	25.1	5	347	5.9	.34	2.5	0.0
NASA	1	0.0	13	23	3.1	—	1.0	2.1
Postal Service	8	27.7	7	398	16.8	1.5	15.3	—
VA	1	112.0	4	18	6.0	5.0	0.1	0.8
Defense	75	173,733.2	13,687	64,864	1,366.2	33.3	772.4	560.5
Army	34	106,963.0	3,030	18,134	338.3	18.6	216.6	103.5
Navy	22	61,417.5	8,664	35,998	801.1	11.8	416.6	372.6
Air Force	13	5,327.0	1,990	10,681	218.1	2.0	139.3	76.7
Corps of Engineers	6	25.7	3	51	8.8	0.8	0.3	7.6

Source: U.S. General Services Administration, records.

Table 118.—ACREAGE, LESSEES, AND WAITING LIST FOR LAND UNDER THE JURISDICTION OF THE DEPARTMENT OF HAWAIIAN HOME LANDS, BY ISLAND: 1974 AND 1977

Island	Acres, 1977 ¹	Lessees		Application waiting list	
		June 30, 1974 ²	October 1977	June 30, 1974	October 1977
State total	190,414	2,197	2,738	3,826	5,629
Hawaii	111,406	437	623	341	917
Maui	29,075	89	89	185	330
Molokai	26,808	295	521	201	272
Oahu	5,072	1,291	1,329	2,988	3,756
Kauai	18,052	85	176	111	360

¹ For data on parcels and use, see *The State of Hawaii Data Book 1974*, table 99, p. 106.

² Total homestead population was approximately 13,200.

Source: Department of Hawaiian Home Lands, *Annual Report for 1974 and 1977*.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, cultural activities, and parks appear in this section. Information on transportation is given in Section 18; on hotels, in Section 23.

Tourism has shown impressive growth in recent decades. Approximately 3,434,000 visitors stayed overnight or longer in Hawaii during 1977, compared with 1,125,000 in 1967 and only 169,000 in 1957. The average number present at any given time during 1977 was 86,800, more than three times the 1967 average. Total visitor expenditures (exclusive of trans-Pacific fares) in 1977 amounted to more than \$1.8 billion, compared with \$380 million a decade earlier. The 1977 visitor total included 2,360,000 from other States, 300,000 from Canada, and 440,000 from Japan. Expenditures per visitor day in 1977 averaged \$54.62 for westbound visitors and \$146.85 for the Japanese. Among westbound visitors destined for Hawaii, one-fourth were Californians, half were at least 43.2 years old, median family income before taxes was \$21,200, 41 percent were repeat visitors, four-fifths were on a pleasure trip, their average intended length of stay was close to 11 days, two-thirds visited at least one Neighbor Island, and 90 percent upon returning home rated Hawaii as either "above average" or "far superior" to other vacation areas they have visited.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has four national parks, 58 State parks, 603 County parks, 45 golf courses, 241 tennis courts, 1,883 small-boat moorages, 1,600 recognized surfing sites, and 24.4 mile of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than a million annual visitors include six National or State parks, the National Memorial Cemetery of the Pacific, U.S.S. Arizona Memorial, the Honolulu Zoo, and Polynesian Cultural Center. Total visits to 34 museums, state monuments, and similar attractions in 1977 numbered 10.3 million. Over 179,000 Hawaii residents traveled to the Mainland in 1977 and half of them were absent more than 13.5 days. Nine theatrical groups on Oahu reported 1,123 performances of 134 productions for the 1976-1977 season, with a combined audience of 331,000. During the same period, the Honolulu Symphony Orchestra gave 136 concerts, with a total attendance of 200,000. Professional baseball drew 368,000 fans in 1977, and, during the 1977-1978 school year, attendance at UH-Manoa varsity basketball and football home games exceeded 339,000. Approximately 85,000 dogs and 66,000 cats were owned in 1970.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (chiefly in its monthly and annual research reports), the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. An extensive compilation of statistics on recreational facilities and behavior was issued by DPED in December 1975 in its *State Comprehensive Outdoor Recreation Plan Technical Report*. National statistics are given in Section 8 of *Statistical Abstract of the United States: 1977*.

Table 119.—MODE OF TRAVEL AND VISITOR STATUS OF PASSENGERS ARRIVING IN HAWAII: 1967 TO 1977

Year	All arriving passengers	Mode of travel		Direction of travel		Visitor status of westbound arriving passengers ¹				
		Air	Surface	Westbound	Eastbound or northbound	Visitors destined to Hawaii	Visitors destined beyond		Returning residents	Intended residents
							Overnight or longer	Transits		
1967	1,562,414	1,482,884	79,530	1,215,974	346,440	754,910	138,193	147,136	130,995	44,117
1968	1,683,326	1,608,706	74,620	1,348,112	335,214	869,116	146,728	148,802	140,592	42,236
1969	1,941,638	1,876,821	64,817	1,566,013	375,625	1,008,802	172,227	190,710	152,404	41,162
1970	2,219,559	2,174,303	45,256	1,734,560	484,999	1,127,950	198,185	193,798	173,252	40,073
1971	2,500,462	2,455,147	45,315	1,903,130	597,332	1,207,898	222,457	268,001	162,967	41,562
1972	3,053,557	3,013,488	40,069	2,308,712	744,845	1,540,268	242,469	309,595	171,772	44,388
1973	3,624,667	3,598,312	26,355	2,696,415	928,252	1,815,443	252,418	396,508	194,974	36,886
1974	3,882,957	3,861,208	21,749	2,802,465	1,080,492	1,899,632	284,988	426,507	154,154	37,007
1975	3,849,525	3,832,790	16,735	2,806,524	1,043,001	1,935,396	272,021	381,419	178,040	39,233
1976	4,340,442	4,324,029	16,413	3,205,779	1,134,663	2,245,252	306,349	426,666	186,684	40,690
1977	4,544,802	4,530,817	13,985	3,434,979	1,109,823	2,453,541	309,771	448,521	179,298	43,617

¹ A small number of surveyed but unclassified passengers are omitted for all years. Total westbound passenger arrivals, including unsurveyed and unclassified, are shown elsewhere in this table, under "direction of travel".

Source: Hawaii Visitors Bureau, *Annual Research Report*, 1967-1977, and records.

Table 120.—VISITOR ARRIVALS, AVERAGE VISITOR CENSUS, AND VISITOR EXPENDITURES: 1958 TO 1977

Year	Visitors staying overnight or longer			Average number present		Visitor expenditures ¹ (millions of dollars)
	Total	West-bound ²	Other	Total	West-bound ²	
Unadjusted ³ :						
1958	171,588	139,984	31,604	8,397	7,296	83
1959	243,216	207,645	35,571	10,390	9,361	109
1960	296,517	250,795	45,722	11,797	10,536	131
1961	319,807	248,540	71,267	11,960	10,308	137
1962	362,145	279,625	82,520	13,125	10,964	154
1963	429,140	332,680	96,460	15,316	12,655	186
1964	508,870	405,235	103,635	16,739	13,925	225
Adjusted: ³						
1964	563,925	460,290	103,635	16,354	15,218	205
1965	686,928	567,218	119,710	17,991	16,679	225
1966	835,456	686,886	148,570	21,572	19,925	280
1967	1,124,818	893,103	231,715	28,202	25,470	380
1968	1,314,571	1,015,844	298,727	33,288	29,737	440
1969	1,527,012	1,181,029	345,983	38,078	33,968	550
1970	1,746,970	1,326,135	420,835	37,631	32,716	595
1971	1,818,944	1,430,325	388,619	41,909	37,524	705
1972	2,244,377	1,782,737	461,640	51,270	46,225	840
1973	2,630,952	2,067,861	563,091	61,633	55,462	1,020
1974	2,786,489	2,184,620	601,869	65,991	59,395	1,225
1975	2,829,105	2,207,417	621,688	68,837	62,024	1,360
1976	3,220,151	2,551,601	668,550	78,540	71,233	1,640
1977	3,433,667	2,763,312	670,355	86,788	79,442	1,845

¹ Excludes expenditures for trans-Pacific transportation.

² Arriving from the Mainland United States or Canada.

³ For survey nonresponse.

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

**Table 121.—VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS, BY COUNTIES:
1964 TO 1977**

Year	Westbound visitor arrivals ¹				Average visitor census, including eastbound and northbound ²			
	Honolulu ³	Hawaii	Kauai	Maui ⁴	Honolulu	Hawaii	Kauai	Maui ⁴
1964	143,026	151,685	148,124	...	...	...	...
1965	188,371	191,287	195,541	...	...	...	...
1966	215,518	213,243	222,411	...	...	...	...
1967	286,590	275,461	304,437	21,659	2,301	1,932	2,310
1968	369,509	327,813	364,530	24,729	3,261	2,400	2,898
1969	410,967	363,759	396,145	28,248	3,626	2,731	3,473
1970	445,401	410,075	447,985	27,387	3,588	3,011	3,645
1971	522,166	472,663	554,799	29,343	4,349	3,535	4,682
1972	637,562	565,386	710,050	35,834	5,153	4,136	6,147
1973	694,170	590,475	766,791	45,396	5,477	4,206	6,554
1974	742,839	601,703	852,201	47,942	6,024	4,484	7,541
1975	769,779	632,821	931,863	48,669	6,496	4,941	8,731
1976	816,514	699,275	1,110,726	55,691	6,782	5,445	10,622
1977	839,008	740,501	1,257,142	61,100	7,195	6,025	12,468

¹ Because many visitors visit more than one island, county data sum to total greater than the State total shown in the preceding table. Data cover westbound visitors destined to or beyond Hawaii, and include one-day (non-overnight) Neighbor Island visits by these passengers.

² For State totals, see preceding table.

³ Not available, but at least 90 percent of overnight and longer visitors to the State are thought to spend at least one night on Oahu.

⁴ Includes Molokai and Lanai.

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

**Table 122.—RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII:
1960 TO 1977**

Year	Total	United States	Canada	Japan	Australia and New Zealand ¹	Other Pacific and Asia ¹	All others ²
1960	296,500	237,200	20,800	14,800	11,900	8,900	2,900
1965	686,500	541,000	48,500	36,400	30,300	18,200	12,100
1970 ³	1,514,500	1,120,000	80,000	131,500	69,100	52,500	61,400
1971 ³	1,730,000	1,253,000	100,000	180,000	82,000	66,000	49,000
1972	2,244,000	1,662,000	125,000	235,000	100,000	65,000	57,000
1973	2,630,000	1,953,000	150,000	300,000+	120,000	50,000-	57,000
1974	2,790,000	1,988,000	175,000	400,000	120,000	50,000	57,000
1975	2,830,000	1,980,000	210,000	400,000	125,000	58,000	57,000
1976	3,220,000	2,205,000	265,000	440,000	165,000	85,000	60,000
1977	3,435,000	2,360,000	300,000	440,000	165,000	90,000	80,000

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

² Includes Europe (60,000 in 1977), Latin America and the Caribbean (18,000), and Africa (2,000).

³ Excludes Rest and Recuperation personnel and dependents.

Source: Hawaii Visitors Bureau, Research Department, records.

Table 123.—CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1967 TO 1977

Year	Residence ¹ (percent)		Males per 1,000 females	Median age (years)	High status occupa- tions ² (percent)	Persons per party	Arriving June 1- Aug.31 (percent)	Arriving by sea (percent)	Repeat visi- tors ³ (percent)	Pleas- ure trip (percent)	Staying in hotel (percent)	Average intended stay ⁴ (days)	Intending to visit Neighbor Islands ⁵ (percent)
	Western states ⁶	Cali- fornia											
1967	47.8	35.0	682	43.2	52.3	1.55	32.7	2.9	29.0	74.9	84.9	12.3	56.5
1968	45.2	33.0	631	41.7	48.3	1.52	31.9	2.1	28.5	76.8	84.6	12.1	54.9
1969	45.2	32.1	641	40.1	48.3	1.53	30.5	1.2	30.6	72.9	83.2	12.3	53.2
1970	47.7	33.4	663	40.7	49.6	1.55	33.1	0.4	32.8	74.8	84.0	10.9	54.8
1971	46.8	32.0	741	42.6	54.0	1.61	30.8	0.3	36.4	76.0	84.9	11.0	60.6
1972	42.5	27.7	801	44.7	58.9	1.71	29.2	0.4	35.1	77.4	89.0	10.9	61.5
1973	39.4	25.5	762	44.0	56.4	1.69	30.2	0.3	34.3	78.3	89.3	10.7	58.8
1974	38.2	24.4	788	44.1	59.3	1.72	28.6	0.1	37.3	78.2	91.4	10.7	62.0
1975	39.7	24.8	810	44.5	60.4	1.75	28.6	0.1	39.7	76.4	91.7	10.8	66.0
1976	37.9	24.0	787	44.8	58.4	1.75	28.3	0.1	38.7	79.0	93.4	10.7	65.6
1977	40.2	25.8	802	43.2	58.8	1.78	27.3	0.2	41.1	78.6	89.8	10.9	66.8

¹ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey. Because of this adjustment, data on place of residence in the present report differ somewhat from previously published data for 1969 and earlier years.

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

³ Party heads only.

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

⁵ Base includes passengers who did not answer this question.

⁶ Pacific and Mountain States.

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

Table 124.—AGE, SEX, RESIDENCE, LENGTH OF STAY, AND TRIP PURPOSE OF WESTBOUND VISITORS: 1977

Subject	Visitors to Hawaii	Visitors beyond Hawaii	Subject	Visitors to Hawaii	Visitors beyond Hawaii
All visitors	2,453,541	758,292	Residence: ²		
Age:			Pacific.....	825,869	136,984
Under 10 years	63,842	44,811	Alaska	18,908	1,265
10 to 19 years	183,496	44,475	California	613,281	88,768
20 to 29 years	391,847	148,293	Oregon	64,197	9,371
30 to 39 years	391,084	149,968	Washington	139,483	37,580
40 to 49 years	437,049	120,082	Mountain	127,648	14,189
50 to 59 years	498,864	96,405	West North Central	139,440	9,150
60 years and over	373,526	72,085	West South Central	125,981	31,843
Age not reported	113,833	82,173	East North Central	338,271	24,269
Sex:			East South Central	45,828	6,652
Male	1,092,023	464,504	New England	71,741	10,506
Female	1,361,518	293,788	Middle Atlantic	227,429	23,393
Intended length of stay:			South Atlantic	143,987	38,604
1 day ¹		448,521	Guam, Puerto Rico, Virgin Isl.	372	23,729
2 days	} 196,263	66,131	Canada	299,962	30,493
3 days		86,702	Other foreign	29,190	371,199
4 to 6 days		111,202	Residence not reported	77,823	37,281
7 to 12 days	1,529,582	35,644	Purpose of trip:		
13 to 18 days	591,975	} 10,092	Pleasure	1,905,833	334,359
19 to 24 days	87,282		Business	53,871	93,983
25 to 30 days	28,546		Business and pleasure	227,018	57,655
31 to 60 days	17,509		Government and military	8,750	65,560
61 to 90 days	1,367		Visiting relatives	93,917	22,276
91 to 365 days	1,017		Attend school	1,236	602
			Convention	129,782	7,439
			Other	3,793	62,733
			Purpose not reported	29,341	113,685

Footnotes and source follow next table.

Table 125.—ACCOMMODATIONS, DESTINATION, OCCUPATION, AND TRIP NUMBER OF WESTBOUND VISITORS: 1977

Subject	Visitors to Hawaii	Visitors beyond Hawaii	Subject	Visitors to Hawaii	Visitors beyond Hawaii
All visitors	2,453,541	758,292	All party heads	1,380,337	538,141
Intended accommodations:			Occupation:		
Hotel or apartment-hotel	2,196,063	280,430	Professional and technical	442,810	167,855
Rented home or apartment	34,369	1,645	Business, managerial, official	338,577	121,303
Friend's or relative's home	182,062	18,626	Clerical, office, sales	143,463	34,674
Other accommodations	32,791	5,619	Military service	11,329	49,431
Intransits	—	448,521	Other employed	107,123	21,222
Not reported	8,256	3,451	Military dependent	2,707	4,627
Destination:			Retired	176,147	31,941
Hawaii	2,453,541	—	Student ¹	55,484	26,300
Around the world	—	26,783	Other non-employed	50,551	21,594
Australia	—	187,609	Not reported	52,146	59,194
New Zealand	—	39,198	Trips to Hawaii:		
Other Pacific	—	149,171	First trip	766,492	160,318
Japan	—	164,751	Second trip	227,738	70,849
Hong Kong	—	29,232	Third trip	96,770	39,971
Philippines	—	51,121	Fourth trip and over	210,583	112,272
Other Asia	—	110,427	Not reported	78,754	154,731
Visitor days (1,000)	26,771	1,861	Persons per party	1.78	1.41

¹ Includes visitors beyond Hawaii who were in transit or did not report their intended length of stay.

² Census divisions. For data by States, see source, table 12.

Source: Hawaii Visitors Bureau, *1977 Annual Research Report*.

Table 126.—FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF VISITORS TO HAWAII: 1974 TO 1977

Subject	1974	1975	1976	1977
Number of respondents in sample	6,014	5,960	5,482	5,462
Family income before taxes (percent)	100.0	100.0	100.0	100.0
Under \$5,000	1.7	1.5	1.5	0.9
\$5,000 to \$7,499	4.2	3.6	2.8	2.0
\$7,500 to \$9,999	6.9	6.1	4.6	3.4
\$10,000 to \$14,999	19.5	18.1	16.8	12.7
\$15,000 to \$24,999	35.0	33.3	35.5	30.6
\$25,000 and over	32.8	37.4	38.8	50.4
Median income (dollars)	20,100	21,200	21,800	25,000+
Using travel agent (percent)	76.8	77.9	82.9	81.0
Use of prepaid package tour (percent)	100.0	100.0	100.0	100.0
Yes	40.1	41.3	40.2	35.7
Partly	22.0	22.6	27.0	26.1
No	37.9	36.1	32.8	38.2
Islands visited (percent):				
Oahu only	31.7	32.0	30.1	27.0
Hawaii	44.5	42.5	40.0	35.8
Maui	47.5	48.7	53.2	56.7
Kauai	41.6	39.0	39.3	37.6
Hawaii compared with other				
vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	38.3	40.2	38.6	39.0
Above average	50.9	49.7	51.0	50.7
Average	9.7	9.1	9.2	9.2
Below average	1.0	0.9	1.0	1.0
Quite inferior	0.1	0.2	0.2	0.1

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

**Table 127.—VISITOR EXPENDITURES PER VISITOR DAY, BY VISITOR ORIGIN:
1974 AND 1977**

[In dollars. Excludes transpacific travel costs.]

Subject	Westbound visitors ¹		Visitors from Japan		
	1974	1977	1974	1977	
Total expenditure	46.20	54.59	123	146.85	
By type of expenditure:					
Food and beverages	13.12	14.63	...	27.04	
Restaurant ²	10.66	12.02	...	23.10	
Nightclub	1.12	1.14	...	3.94	
Groceries	1.34	1.47	...	...
Entertainment	2.12	2.61	...	12.41	
Attractions	1.58	2.07	...	...
Other entertainment	0.54	0.54	...	...
Transportation	5.16	6.28	...	21.14	
Ground transportation ³	} 2.55	{ 1.21	...	3.94	
U-drive			1.81
Interisland travel			2.00	...	17.20
Sightseeing tours	1.35	1.26	...	...
Clothing	4.96	4.99	...	8.37	
Gifts and souvenirs	4.46	5.22	41	51.40	
Lodging	13.34	17.35	...	16.80	
All other	2.22	2.69	...	9.69	
Unclassified	0.82	0.82	...	...
By place of expenditure:					
Oahu	46.75	...	...	...
Other island	45.16	...	...	...
By travel status:					
In ¹ organized tour groups	52.06	...	...	...
Individual visitors	42.91	...	...	...
Sample size (number of parties)	1,669	1,591	190	638	

¹ Mostly residents of the Mainland United States, but also including some residents of Australia, Asia, and the South Pacific returning home from trips to the Mainland United States.

² Figure for 1977 visitors from Japan refers to total expenditures for food.

³ Figure for 1977 visitors from Japan refers to total transportation expenditures excluding interisland travel.

Source: Hawaii Visitors Bureau, *1974 Visitor Expenditure Survey* (July 1975), pp. 4-6, and records.

Table 128.—ILLUSTRATIVE PROJECTIONS OF TOURISM: 1975 TO 2000
 [Consistent with Series II-F population projections. For assumptions and methodology, see source.]

Year	Visitor arrivals (1,000)	Average visitor census (1,000)	Visitor expenditures ¹	Hotel rooms ² (1,000)			Hotel employment (1,000)
				State total	Oahu	Other islands	
1975 ³	2,829	68.8	1,327	40.0	25.4	14.5	20.0
1977 ³	3,434	86.8	(NA)	46.1	27.8	18.3	22.5
1980	4,142	98.6	2,054	54.1	31.9	22.2	27.6
1985	5,286	122.7	2,670	66.1	36.4	29.8	34.0
1990	6,432	149.3	3,248	78.1	39.0	39.0	39.3
1995	7,456	173.0	3,766	89.1	41.9	47.2	43.4
2000	7,836	181.8	4,158	93.8	42.2	51.6	45.7

NA Not available

¹ In millions of constant (1975) dollars.

² Projections based on average occupancy rates of 80 percent on Oahu and 70 percent on other islands.

³ Actual.

Source: Hawaii Visitors Bureau, records; Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), pp. 23 and 27; Hawaii State Department of Planning and Economic Development, *Long-Range Population and Economic Simulations and Projections for the State of Hawaii* (March 1, 1978), pp. 39, 40, and 77.

**Table 129.—HAWAII VISITORS BUREAU EXPENDITURES AND STATE APPROPRIATIONS
FOR PROMOTION OF TOURISM: 1967 TO 1979**

[In dollars]

Year ended June 30	Hawaii Visitors Bureau expenditures				State approp- ria- tions ¹
	Total	Private funds	Public funds		
			Amount	Percent	
1967	1,831,304	498,474	1,332,830	72.8	1,372,830
1968	1,945,653	521,966	1,423,687	73.2	1,441,000
1969	2,350,549	902,646	1,447,903	61.6	1,478,554
1970	2,081,517	544,780	1,536,737	73.8	1,550,536
1971	2,224,835	555,553	1,669,282	75.0	1,892,963
1972	2,252,435	563,174	1,689,261	75.0	1,842,963
1973	2,254,796	566,888	1,687,908	74.9	1,842,963
1974	2,259,602	566,639	1,692,963	74.9	1,702,125
1975	2,291,405	603,709	1,687,696	73.7	1,702,124
1976 ²	2,459,557	629,418	1,798,452	73.1	1,799,000
1977	2,638,035	725,809	1,912,238	72.5	1,883,000
1978 .....	...	...	...	...	2,193,904
1979 .....	...	...	...	...	2,293,700

NA Not available

¹ Total appropriations for tourism promotion, exclusive of separate appropriations for the Tourism Advisory Committee, Visitor Information Program, Office of Tourism, and special studies.

² Total HVB expenditure includes funds from interest and other miscellaneous sources, not shown separately.

Source: Hawaii Visitors Bureau, records; *Session Laws of Hawaii* (annual).

Table 130.—PASSPORTS ISSUED AND RENEWED BY THE HONOLULU PASSPORT AGENCY: 1960 TO 1977

Calendar year	Number
Issued and renewed:	
1960	8,608
1961	9,229
1962	11,103
1963	11,990
1964	10,442
1965	14,815
1966	15,097
1967	17,345
1968	16,703
Issued: ¹	
1969	18,080
1970	23,269
1971	24,814
1972	26,078
1973	27,134
1974	22,551
1975	24,300
1976	26,722
1977	28,355

¹ Legislation effective August 26, 1968 eliminated passport renewals.

Source: U.S. Department of State, Passport Office, Administrative Division, records.

Table 131.—PASSPORT RECIPIENTS RESIDING IN HAWAII, 1976 AND 1977, AND FIRST AREA DESTINATION, 1977

Year issued and first area destination	Number
1976, total	24,540
1977, total	27,020
Europe	6,770
Mid East	380
Far East	12,320
North, Central, and South America	850
Africa	120
Australia and Oceania	6,580
World tour	—

Source: U.S. Department of State, Bureau of Consular Affairs, Passport Office, *Summary of Passport Statistics* (January 1978), p. 2, and *Supplement to Summary*, p. 10.

Table 132.—CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1961 TO 1977

Subject	1961 ¹	1967	1972	1977
Number returning	41,450	130,995	171,772	179,298
Oahu residents (percent) ²	86.0	88.0	87.2	84.9
Median age (years)	32.9	...	...	...
Males per 100 females	125.9	...	...	...
Persons per party	1.35	1.24	1.36	1.39
Armed forces (percent)	6.2	11.7	2.6	...
Average number absent ³	5,200	14,800	11,900	10,100
Days absent: Median ³	23.7	18.4	13.8	13.5
Days absent: Average ³	49.6	45.9	25.3	20.6
Returning from Calif. (percent)	52.8	...	...	...
Traveling by air (percent)	97.4	99.4	99.9	...

¹ Year ended June 30.

² Armed forces excluded in 1967 and 1972.

³ For persons absent 1 to 365 days.

Source: Hawaii State Department of Planning and Economic Development, *Out of State Travel by Hawaii Residents During 1977* (Statistical Report 122, June 23, 1978).

Table 133.—OAHU HOUSEHOLDS MAKING TRIPS TO THE NEIGHBOR ISLANDS, MAINLAND, OR FOREIGN COUNTRIES DURING THE PREVIOUS TWELVE MONTHS: 1972

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

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

Table 134.—ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1977

Island and cultural attraction	Attendance	Island and cultural attraction	Attendance
All attractions	10,264,495	Hawaii	671,046
Oahu	9,389,105	Hulihee Place	18,691
Bernice P. Bishop Museum	323,378	Kamuela Museum	21,584
Exhibition halls	176,440	Kilauea Visitor Center, H.V.N.P.	502,813
Planetarium	73,687	Lava Tree State Monument	105,000
Falls of Clyde Maritime Museum	40,670	Lyman House Memorial Museum	22,958
Heritage Theatre	25,878	Maui	60,644
Other facilities	6,703	Baldwin Home Missionary Museum	36,088
Foster Botanical Gardens	130,000	Hale Hoikeike	4,556
Honolulu Academy of Arts	148,991	Halekii-Pihana State Monument ¹	20,000
Exhibition halls	133,544	Kauai	143,700
Alice Cooke Spalding House	15,447	Kauai Museum ²	28,113
Honolulu Zoo	1,470,000	Kokee Natural History Museum	104,342
Iolani Palace State Monument ¹	17,000	Waioli Mission House	6,245
Kahuku Sugar Mill	355,930	Hanalei Museum	5,000
Mission Houses Museum	22,903		
Mormon Temple Grounds, Laie	310,000		
National Memorial Cemetery	2,579,586		
Pacific Submarine Museum	38,678		
Paradise Park	315,000		
Polynesian Cultural Center	1,000,000		
Queen Emma Summer Palace	13,959		
Royal Mausoleum State Mon.	84,000		
Sea Life Park	550,000		
Tropic Lighting Historical Center	13,000		
Ulu Mau Village ³	24,348		
U.S. Army Museum, Ft. DeRussy ⁴	123,152		
U.S.S. Arizona Memorial	1,224,637		
By civilian boats	537,177		
By Navy boats	687,460		
Wahiawa Botanic Park	40,000		
Waikiki Aquarium	264,383		
Waimea Falls Park	340,160		

¹ Year ended June 30, 1977.

² Year ended September 30, 1977.

³ Calendar 1976.

⁴ Opened December 7, 1976.

Source: Data supplied to Hawaii State Department of Planning and Economic Development by State park, museum, and other officials.

Table 135.—PARKS: 1970 TO 1977

Year	National parks			State parks			County parks	
	Areas, Dec. 31 ¹	Acres, Dec. 31 ¹	Visits (1,000)	Areas, June 30	Acres, June 30	Recreation visits ² (1,000)	Areas, Dec. 31 ³	Acres, Dec. 31 ³
1970	3	257,181	1,233	41	15,584	9,520	411	5,884
1971	3	257,181	1,479	44	15,983	13,007	376	6,334
1972	4	257,281	2,046	46	16,000	9,798	479	6,662
1973	4	257,219	2,026	46	16,108	13,271	490	7,160
1974	4	247,910	2,299	53	16,629	12,907	535	7,211
1975	4	247,910	2,559	53	18,181	12,124	560	7,376
1976	4	247,910	2,896	55	18,577	14,305	572	7,775
1977	4	247,910	2,933	58	20,151	18,864	603	7,788

¹ Authorized but not necessarily acquired or established. The decline in acreage in 1974 reflects the deletion of Oiaa Forest Tract (9,654 acres), included in earlier years.

² Years ended June 30.

³ Except 1970, which refers to January 1.

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

Table 136.—NATIONAL, STATE, AND COUNTY PARKS: 1976 TO 1977

National park	Acreage (Dec. 31, 1977)		Total visits	
	Federal	Non-Federal	1976	1977
Hawaii Volcanoes National Park	210,462	9,883	1,852,654	1,816,836
Haleakala National Park	27,055	229	669,110	651,138
City of Refuge National Historical Park	181	—	356,860	446,568
Puukohola Heiau National Historic Site	34	66	17,216	18,013

County	State parks				County parks: Dec. 31, 1977		
	Number of areas: June 30, 1977	Acreage: June 30, 1977		Visits, years ended June 30 (in thousands)		Number of areas	Acreage
		Total	Developed	1976	1977		
Total	58	20,150.8	681.8	14,305	18,864	603	7,788
Hawaii	15	2,156.8	291.3	3,034	3,377	128	1,368
Maui	12	431.6	58.5	2,561	5,299	79	884
Honolulu	20	8,170.3	127.5	2,647	2,816	315	4,968
Kauai	11	9,392.1	204.5	6,063	7,372	81	568

Source: U.S. Department of the Interior, National Park Service, records; Hawaii State Department of Land and Natural Resources, *Annual Report to the Governor, 1976*, and records, County park departments, records.

Table 137.—PUBLIC RECREATIONAL LAND AND FACILITIES: 1975

Major use and administering agency	Recreational land acres	Public facilities	Number
Total recreational land	1,583,252	Trails (miles)	445.1
		Launching lanes	51
Specified major uses: ¹		Tennis courts ²	220
Beach, total	2,246	Golf ² (holes)	117
Fronting improved park	327	Camping sites	1,842
Not fronting improved park	1,919	Swimming pools ²	28
Hunting	974,366	Moorages	1,844
Improved acreage ³	4,936		
Active use	2,554		
Passive use	2,037		
Service areas	358		
Administering agency: ⁴			
National Park Service	256,705		
Dept. of Land & Natural Resources ..	1,319,620		
Dept. of Transportation	263		
County agencies	6,767		

¹ In addition, more than 600,000 acres of recreational land were in unspecified major uses.

² Excludes privately owned facilities.

³ Detail does not add exactly to indicated total, for unreported reasons.

⁴ Because of joint administration, detail does not add exactly to indicated total.

Source follows next table.

Table 138.—PARTICIPATION IN RECREATIONAL ACTIVITIES: 1975

Activities	Activity occasions per 1,000 population ¹		Percent of total participation by visitors ²
	Weekend	Weekday	
Walking, jogging	97.0	103.0	21
Hiking	11.5	6.0	...
Camping	38.4	10.5	1
Group camping	1.9	1.0	...
Picnicking	103.0	23.0	...
Hunting, shooting	3.4	0.8	...
Archery	0.7	0.8	...
Golf	20.8	4.7	15
Swimming, sunbathing	176.0	83.3	26
Diving	22.0	6.8	8
Surfing	30.3	19.1	9
Boating	14.5	2.0	17
Canoe paddling	5.3	2.5	...
Fishing	32.4	11.8	4
Game playing	74.0	83.8	6
Tennis	9.7	14.2	...
Attending outdoor events	62.7	15.3	17
Bicycling	84.6	81.7	...
Motorcycling	5.3	3.1	...
Other activities	22.6	12.5	...

¹ Hawaii residents only.

² Visitor activity occasions as percent of sum of visitor activity occasions and peak resident activity occasions.

Source of tables 137 and 138: Aotani & Hartwell Associates, Inc., *State Comprehensive Outdoor Recreation Plan Technical Report* (December 1975), pp. 36, 37, 44, and 54.

Table 139.—SELECTED RECREATIONAL ACTIVITIES: 1970 TO 1977

Year	Camping permits (Oahu) ¹	Licenses issued ²		Visitors to Mauna Kea ³	Public golf courses (Oahu) ⁴		Honolulu Zoo	
		Freshwater game fishing	Hunting		Holes	Rounds	Animal inventory	Attendance
1970 .....	....	5,070	9,773	2,386	45	223,434	3,116	1,016,809
1971 .....	....	5,551	10,302	3,809	63	272,352	1,955	1,107,193
1972	11,389	7,759	11,178	1,211	63	313,049	3,651	1,094,718
1973	11,551	6,902	12,764	2,046	63	343,534	1,711	1,329,000
1974	10,439	8,309	11,452	389	63	336,911	1,468	1,089,657
1975	10,976	7,277	12,500	2,000	63	345,597	1,635	1,200,000
1976	12,213	8,574	12,754	4,069	63	337,236	1,635	1,300,000
1977	10,705	8,129	12,519	598	63	379,012	1,784	1,470,000

¹ Camping permits issued by the City and County of Honolulu Department of Recreation. Data not available for 1970 and 1971.

² By the Division of Fish and Game, Hawaii State Department of Land and Natural Resources. Data are Statewide totals for years ended June 30.

³ Skiers, hikers, and other visitors (including children) issued entry permits to the Hale Pohaku and summit areas of Mauna Kea by the Hawaii State Department of Land and Natural Resources. Data are incomplete.

⁴ Public golf courses operated by the City and County of Honolulu Department of Recreation. Includes Ala Wai (18 holes), Pali (18 holes), Kahuku (9 holes, leased by the Department), and Ted Makalena (18 holes, developed in 1970-1971).

Source: City and County of Honolulu, Department of Recreation, records; Hawaii State Department of Land and Natural Resources, *Report to the Governor* (annual), and records.

Table 140.—PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1961 TO 1978

Season	All games					Home games	
	Won	Lost	Tied	Percent	Games diff. ¹	Openings	Attendance
Regular season:							
1961	68	86	2	.442	-29	77	165,786
1962	77	76	2	.503	-15½	76	149,737
1963	81	77	1	.513	-17	79	236,848
1964	60	98	—	.380	-31	79	154,827
1965	75	72	2	.510	- 5½	73	174,699
1966	63	84	1	.429	-19½	73	191,367
1967	60	87	1	.408	-19	73	218,983
1968	78	69	—	.531	- 8½	73	255,569
1969	74	72	1	.507	-14	73	280,477
1970	98	48	1	.671	+13	73	467,217
1971	73	73	—	.500	- 5	73	375,957
1972	74	74	—	.500	- 5	73	305,878
1973	70	74	—	.486	-11	72	238,390
1974	67	77	—	.465	-12	69	179,633
1975	88	56	—	.611	+14	68	213,432
1976	77	68	—	.531	+ 1	67	306,236
1977	79	67	—	.541	+ 3	67	347,931
1978	56	82	—	.406	-24½	69	155,031
Playoffs:							
1970	—	4	—	.000	...	2	30,721
1975	4	2	—	.667	...	3	22,390
1976	3	2	—	.600	...	—	—
1977	2	4	—	.333	...	2	20,113

¹ Games ahead if leading (+), or behind if not (-). Refers to divisional standings beginning in 1963.
 Source: Hawaii Islanders, *1978 Hawaii Islander Souvenir Yearbook*, p. 40, and records; Honolulu newspapers.

Table 141.—VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1967-68 TO 1977-78
 [Data limited to games played against four-year collegiate teams.]

School Year	Baseball				Basketball				Football				
	All games ¹		Home games ²		All games		Home games ³		All games			Home games ⁴	
	Won	Lost	Openings	Attendance	Won	Lost	Openings	Attendance	Won	Lost	Tied	Openings	Attendance
1967-68	—	—	—	...	16	9	11	24,874	6	4	—	7	68,018
1968-69	—	2	2	...	8	16	16	44,862	7	3	—	7	89,858
1969-70	—	—	—	...	6	20	20	63,806	6	3	1	7	113,776
1970-71	1	4	3	...	23	5	24	95,063	9	2	—	8	120,498
1971-72	1	3	3	...	24	3	22	150,949	7	4	—	9	145,437
1972-73	1	7	1	...	16	10	24	197,671	8	3	—	9	150,448
1973-74	6	10	2	...	19	9	22	161,753	9	2	—	9	184,694
1974-75	26	12	7	...	16	11	21	174,835	6	5	—	9	146,789
1975-76	29	12	8	...	11	16	23	168,088	6	5	—	9	244,291
1976-77	43	13	10	20,720	9	18	21	112,387	3	8	—	9	182,866
1977-78	38	14	12	28,492	1	26	22	83,541	5	6	—	9	255,547

¹ Plus one tie in 1977-1978. No games were played against 4-year collegiate teams in 1967-68 and 1969-70.

² Attendance unavailable before 1976-77. Data exclude NCAA Western Regionals hosted by UH at Aloha Stadium in 1976-77.

³ Data include the Rainbow Classic (3 openings with attendance of 9,824 in 1977-78).

⁴ Data exclude home games played on fields other than Honolulu Stadium (through 1974-75) and Aloha Stadium (1975-76 and later years).

Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 142.—HIGH SCHOOL SPORTS SUMMARY: 1968-1969 TO 1976-1977
 [Boys' sports only. Includes both public and private high schools.]

School year	Football			Baseball			Basketball		
	Games	Attendance (1,000)	Expenditures (\$1,000)	Games	Attendance (1,000)	Expenditures (\$1,000)	Games	Attendance (1,000)	Expenditures (\$1,000)
1968-1969	585	1,021	133	1,155	117	83	1,654	1,227	75
1972-1973	637	983	240	1,391	170	110	1,858	1,422	80
1976-1977	723	1,376	280	1,603	231	110	2,025	1,627	88

Source: Hawaii State Department of Education, Athletics Program, records.

**Table 143.—OUTDOOR RECREATION FACILITIES AND RESOURCES,
BY ISLAND: 1975-1978**

Facility	Six islands	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Golf courses: ¹							
9-hole	10	2	2	1	2	2	1
18-hole	27	6	5	—	1	13	2
27-hole	1	—	—	—	—	—	1
Tennis: ²							
Locations	76	18	12	1	2	32	11
Courts	241	41	45	2	4	100	49
Small-craft moorage: ³							
Catwalks and piers	1,098	30	41	21	3	955	48
Other facilities	785	227	115	—	29	371	43
Sandy shoreline: ⁴							
Total mileage	184.9	19.4	32.6	18.2	23.2	50.3	41.2
Primary mileage ⁵	24.4	1.2	7.9	—	—	12.5	2.8
Surfing sites ⁶	1,600	185	212	99	180	594	330

¹ As of March 1978. Excludes the 8 Air Force, Army and Navy courses, all on Oahu.

² As of September 1975. Includes all public courts, and private and hotel courts open to the public. Excludes 12 hotel locations (36 courts) open only to guests.

³ Capacity as of April 1978.

⁴ Surveyed 1962.

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

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

Source: Hawaii Visitors Bureau, *Golf & Tennis in Hawaii* (leaflet, 1975 and 1978); Hawaii State Department of Transportation, Water Transportation Facilities Division, records; Hawaii State Department of Planning and Economic Development, *Hawaii's Shoreline* (1965), p. 7; Surfing Education Association, *The 1971 Statewide Surfing Site Survey*, Vol. 1, p. 93.

Table 144.—PERFORMING ARTS: 1976-1977 SEASON

Organization and type of performance	Productions	Performances	Attendance
Theater groups reporting	134	1,123	330,861
Brigham Young University, Hawaii Campus	—	—	—
Hawaii Loa College	2	6	500
Hawaii Performing Arts Co., Ltd.	16	325	40,000
Hawaii Theatre Festival	9	130	12,736
Honolulu Community Theatre	8	99	29,481
Honolulu Theatre for Youth	5	197	114,257
Leeward Community College ¹	62	174	66,771
USASCH Recreation Services Theatre Guild ²	6	42	12,780
University of Hawaii at Manoa, University Theatre:			
On campus	19	111	43,292
Off campus	3	12	8,244
Windward Theatre Guild ³	4	27	2,800
Honolulu Department of Auditoriums	78	153	383,315
Ballets	4	16	24,577
Concerts	39	69	97,336
Operas	4	12	19,426
Plays and dramas	1	15	15,041
Other dramatic and musical productions ⁴	30	41	226,935

¹ Includes on-campus productions by groups other than the College.

² Music & Theatre Branch, Recreation Services Division, Directorate of Personnel and Community Activities, U.S. Army Support Command, Hawaii. The Music & Theatre Branch also presented 10 concerts (10 performances; attendance, 117,000) and 5 music festivals and performing arts festivals (12 performances; attendance, 32,000).

³ Data for 1975-1976 season.

⁴ Includes 20 rock shows.

Source: DPED survey of organizations listed.

Table 145.—HONOLULU SYMPHONY ORCHESTRA: 1960-1961 TO 1977-1978

Season	Average number of orchestra personnel	Number of performances	Number of opera productions ¹	Total attendance	Operating expenses (dollars)
1960-1961	85	56	1	123,000	225,798
1961-1962	80	58	2	145,000	213,179
1962-1963	80	65	2	138,000	239,171
1963-1964 .....	...	112	2	...	328,459
1964-1965 .....	...	...	2	...	384,683
1965-1966 .....	...	101	2	...	482,375
1966-1967	79	105	2	156,678	532,542
1967-1968	79	112	3	...	548,182
1968-1969	72	121	2	...	652,639
1969-1970	80	133	2	136,000	631,044
1970-1971	82	142	2	...	711,300
1971-1972	81	138	2	181,992	901,866
1972-1973	80	109	3	200,931	1,042,262
1973-1974	80	119	3	177,000	1,439,486
1974-1975	80	135	3	198,000	1,423,911
1975-1976	80	128	3	224,000	1,654,510
1976-1977	80	136	3	200,000	1,654,050
1977-1978 .....	...	...	3	...	...

¹ *Cavalleria Rusticana* and *Pagliacci*, performed in combination in the 1967-1968 season, treated as separate productions. Source: Honolulu Symphony Society, *President's Annual Report* (1962-1971) and records.

Table 146.—HOUSEHOLDS WITH PETS, BY TYPE: 1970

Subject	Six-island total	Hawaii	Maui	Lanai ¹	Molokai ¹	Oahu	Kauai
Households with pets:							
Dogs	59,200	7,350	3,670	180	610	44,600	2,740
Cats	34,200	4,470	2,920	130	430	24,200	2,040
Pet birds	14,800	1,100	600	15	90	12,700	220
Fish	20,600	1,050	750	15	160	18,200	450
Turtles	5,400	390	160	—	10	4,600	230
Rodents ²	6,320	580	160	15	10	5,270	280
Percent with pets: ³							
Dogs	29.1	45.2	33.9	28.3	47.0	27.1	33.3
Cats	16.8	25.9	26.9	19.6	33.2	14.7	24.7
Pet birds	7.3	6.4	5.7	2.2	6.9	7.7	2.7
Fish	10.1	6.2	7.0	2.2	12.4	11.0	5.5
Turtles	2.7	2.3	1.5	0	0.9	2.8	2.8
Rodents ²	3.1	3.4	1.5	2.2	0.9	3.2	3.3
Number of pets: ⁴							
Dogs	85,000	13,100	5,800	240	1,230	59,600	4,990
Cats	65,800	10,600	6,960	450	1,100	40,700	5,960

¹ Data for Lanai and Molokai are based on small samples and are subject to considerable sampling variation.

² Includes rabbits, guinea pigs, rats, mice, and chinchillas.

³ Households with pets as a percent of all households sampled.

⁴ Reported only for dogs and cats.

Source: John M. Gooch, D.V.M., Public Health Veterinarian, Communicable Disease Division, Hawaii State Department of Health.

Table 147.—LICENSED DOGS, BY COUNTY: 1970 TO 1977

Year	State total ¹	City and County of Honolulu	County of Hawaii	County of Kauai ²	County of Maui ³
1970	39,546	31,559	2,868	...	5,119
1971	46,611	37,693	3,067	...	5,851
1972	52,505	39,104	3,997	2,942	6,462
1973	52,049	37,438	4,579	2,664	7,368
1974	50,169	35,256	5,105	3,249	6,559
1975	55,471	38,564	5,720	3,696	7,491
1976	49,639	36,025	4,965	2,730	5,919
1977	46,069	33,139	4,524	2,330	6,076

¹ Excludes Kauai before 1972.

² Records for years before 1972 lost in fire.

³ Includes Maui (5,504 in 1977), Molokai (438), and Lanai (134).

Source: Honolulu Department of Finance, Division of Licenses; Hawaii County Department of Finance, Treasury Division; Kauai Department of Finance County Treasurer; Maui Department of Finance, Treasury Division.

Section 8

GOVERNMENT FINANCES AND EMPLOYMENT

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

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

Tax collections by Federal, State and County governments in fiscal 1977 reached \$2,034 million, more than triple the level reported ten years earlier. The 1977 total included \$1.1 billion in U.S. taxes, \$906 million in State taxes, and \$25 million in County licenses and fees. Individual income taxes accounted for 84 percent of Federal collections and 22 percent of State collections in Hawaii in 1977. State revenue receipts totaled \$1,315 million, chiefly from the General Excise and Use Tax (\$341 million) and Federal grants-in-aid (\$328 million). The largest expenditure item in the State accounts for 1977 was education, with \$425 million (out of \$1,391 million) going to the University of Hawaii and public schools and libraries. The counties in contrast, depended largely on the real property tax (assessed and collected by the State) for their revenues, and reported police and fire protection as their largest single expenditure item. The estimated tax burden for a four-person family with per capita personal income equal to the State average in 1976 was \$10,081, including both direct taxes (\$8,132) and employment taxes paid by employers (\$2,693).

Assessed valuation of the State tripled between 1966 and 1977. Public bonded debt outstanding at the end of 1977 exceeded \$1³/₄ billion. Average government employment reported for 1977 was 85,700, about 29 percent over the 1967 average. The 1977 total included 29,300 Federal workers, 42,650 persons employed by the State, and 13,800 persons on County payrolls. State civil service employees as of mid-1977 numbered 16,318.

Important sources for statistics on government in Hawaii include the 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: 1977*, Sections 9 and 10.

Table 148.—FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1967 TO 1977

Fiscal years ended June 30	All levels of government		Federal (\$1,000)	State (\$1,000)	Counties (\$1,000)
	Amount (\$1,000)	Per capita ¹ (dollars)			
1967 ²	623,181	863	342,842	267,910	12,429
1968	778,291	1,060	440,237	324,323	13,731
1969	922,122	1,229	526,624	379,881	15,617
1970	1,057,376	1,366	602,998	438,397	15,981
1971	1,105,657	1,386	608,051	480,690	16,916
1972	1,162,700	1,416	632,583	512,047	18,070
1973	1,327,151	1,572	735,359	571,689	20,104
1974	1,512,414	1,771	840,089	650,855	21,470
1975	1,852,804	2,134	1,087,520	743,926	21,358
1976 ²	1,821,934	2,062	945,899	850,639	25,396
1977 ³	2,034,497	2,274	1,103,357	905,937	25,203

¹ Based on total resident population, July 1 (see table 3).

² Revised from 1977 edition, table 130.

³ Preliminary.

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

Table 149.—FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCE: 1967 TO 1977

[In thousands of dollars. For fiscal years ended June 30.]

Source	1967	1972	1976	1977
Total, all levels	623,181	1,162,700	1,821,934	2,034,497
Federal collections	342,842	632,583	945,899	1,103,357
Indiv. income and employment ...	265,903	532,391	783,504	927,398
Corp. income and excess profits ..	59,019	65,715	130,719	134,840
Other sources	17,920	34,477	31,676	41,119
State collections	267,910	512,047	850,639	905,937
General excise and use	104,495	186,556	309,903	341,327
Fuel	20,317	28,347	41,547	44,227
Liquor	5,797	9,426	15,010	16,222
Public service companies	8,964	15,661	28,583	31,201
Corporate income	10,525	11,766	32,862	22,744
Indiv. income, net income	63,512	120,061	184,916	203,018
Real property	30,644	98,265	153,788	149,212
Unemployment compensation	10,769	18,294	48,967	61,435
Other sources	12,887	23,671	35,063	36,551
County collections	12,429	18,070	25,396	25,203
Motor vehicle weight	8,545	10,970	12,447	12,952
Other sources	3,884	7,100	12,949	12,251

Source: Tax Foundation of Hawaii, *Government in Hawaii*, 1978, pp. 18 and 34.

**Table 150.—ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU:
1974 AND 1976**

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii. All data are in dollars.]

Tax category ¹	1974	1976	Percent increase
Total tax burden ²	8,680	10,081	16.1
Direct taxes	6,556	8,132	24.0
Real property	448	481	7.4
Automobile	161	188	16.8
General excise (sales)	356	387	8.7
Specific excise	111	113	1.8
State income	1,085	1,429	31.7
Federal income	3,209	4,112	28.1
Social Security	1,186	1,422	19.9
Employment taxes paid by employer	1,938	2,693	39.0
Social Security	1,186	1,422	19.9
Unemployment Compensation	298	510	71.1
Workers' Compensation	361	635	75.9
Temporary Disability	93	126	35.5
Assumed gross family income	22,164	26,632	20.2
Net income	13,484	16,551	22.7
Consumer price index (1967 = 100)	141.9	162.8	14.7

¹ For underlying assumptions, see source.

² Based on four times the per capita overall tax burden, including corporate taxes, and not on the sum of the direct and employment taxes shown elsewhere in this table.

Source: Tax Foundation of Hawaii, *The Tax Burden of the Arnie Aloha Family* (March 1975 and April 1977).

Table 151.—STATE REVENUE RECEIPTS: 1976 AND 1977
 [In thousands of dollars. Years ended June 30.]

Source of revenues	1976: all funds	1977		
		All funds	General fund	Special fund
Total	1,214,900	1,312,320	699,616	612,705
Tax revenues	686,151	745,252	650,691	94,560
General excise	309,885	341,324	341,324	—
Specific excises	100,975	104,901	72,083	32,817
Individual income	184,916	203,018	203,018	—
Corporate income	32,862	22,744	22,744	—
Unemployment compensation	48,936	61,369	—	61,369
Other taxes, licenses, permits	8,577	11,895	11,522	373
Fines, forfeits, and escheats	5,535	4,225	3,948	277
Federal grants-in-aid	326,327	327,607	3,867	323,739
Revenues from other agencies	2,614	3,060	1,094	1,966
Rents, royalties, land income	7,930	22,289	7,915	14,374
Sales of real property	1,183	(¹)	—	(¹)
Earnings: general departments	67,481	73,651	26,675	46,976
Earnings: public service enterp.	46,400	60,832	—	60,832
Repayment advances to other civil div.	32,715	(¹)	—	(¹)
Repayment debt costs: counties	1,856	1,524	1,524	—
Interest earned	18,571	558	558	—
Miscellaneous ¹	18,136	73,323	3,343	69,980

¹ Sales of real property and repayment of advances to other civil divisions included with miscellaneous for 1977 but not 1976.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1978*, p. 17.

**Table 152.—STATE OPERATING EXPENDITURES, BY FUNCTION:
1967 TO 1977**

[In thousands of dollars. For years ended June 30.]

Functions	1967	1972	1976	1977
Total	382,946	762,413	1,283,471	1,391,157
General government: Control	6,438	12,414	19,050	22,408
Staff	11,998	24,980	58,545	58,446
Public safety: Police and fire	78	242	184	2,455
Other protection	19,954	26,050	46,737	62,800
Highways	41,580	9,840	25,909	28,261
Natural resources	13,740	15,344	15,409	15,310
Health and sanitation	6,256	12,464	19,702	24,794
Hospitals and institutions	17,895	40,348	57,707	73,322
Public welfare	24,180	91,343	167,998	203,520
Education: Higher	52,616	107,178	147,613	155,758
Public schools	107,855	165,072	218,376	256,114
Libraries and other	3,412	7,442	11,475	13,348
Recreation	773	1,581	7,987	12,106
Utilities and other enterprises	9,738	24,580	51,605	37,693
Debt service	18,572	42,541	92,486	108,698
Retirement and pension	13,352	34,428	47,898	49,614
Employees' health and hospital insurance	2,461	7,610	7,672	11,495
Salary adjustments	—	5	—	—
Unemployment compensation	14,770	48,970	109,080	99,729
Grants-in-aid to counties	10,507	19,448	18,248	21,560
Urban redevelopment and housing	3,370	5,187	55,069	38,111
Miscellaneous	3,402	6,998	15,062	13,955
Cash capital improvements	—	58,348	89,661	81,660

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1978*, p. 41.

Table 153.—OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1977
[In thousands of dollars. For year ended June 30.]

Subject	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
OPERATING REVENUES				
Total	265,012	40,075	16,515	28,597
Real property taxes	114,326	16,943	6,208	11,726
Other taxes	23,463	2,990	1,447	2,602
Fees, licenses and permits	6,419	866	247	706
Departmental earnings	12,451	1,500	1,046	1,587
State grants	10,429	7,443	4,318	6,352
Federal grants	92,776	10,189	2,959	4,930
Other sources	5,148	143	290	695
OPERATING EXPENDITURES				
Total	276,761	39,295	16,232	35,205
General government	21,144	5,605	3,911	5,272
Police and fire	51,859	9,249	3,498	5,686
Other protection	7,717	1,841	333	669
Highways	12,890	3,203	1,215	2,559
Health and sanitation	19,318	1,205	405	756
Recreation	16,951	3,128	1,481	1,765
Interest	9,435	2,122	544	955
Bond redemption	13,843	2,247	837	1,331
Pension and retirement	13,271	3,330	1,178	2,137
Econ. and urban development	31,275	—	—	—
Mass transit	18,983	558	—	—
Miscellaneous	11,460	1,759	2,131	2,735
Cash capital improvements	48,615	5,049	698	11,339

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1978*, pp. 30, 31, 42, and 43.

Table 154.—GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1966, 1975, AND 1976

Source of revenue	Tax base (\$1,000)			Tax collections (\$1,000)		
	1966	1975 ¹	1976 ²	1966	1975	1976 ²
Total	3,725,980	10,863,481	11,348,351	100,667	301,475	319,999
Retailing	1,184,736	3,382,804	3,724,487	47,267	135,309	148,977
Services	276,833	919,912	978,091	11,033	36,796	39,123
Contracting	392,408	1,161,913	1,012,952	15,318	46,476	40,517
Theater, amuse., etc.	29,425	74,561	82,134	1,172	2,982	3,285
Interest	23,684	72,218	87,168	937	2,889	3,487
Commissions	59,546	155,422	169,473	2,371	6,217	6,779
Hotel rentals	303,615	365,919	433,300	12,072	14,637	17,332
Other rentals		653,873	728,655		26,154	29,146
Consumption	9,207	—	—	322	—	—
Use (4%)	39,569	113,828	130,611	1,583	4,553	5,224
All others	37,124	122,823	117,610	1,452	4,912	4,704
Insurance solicitors	9,797	23,714	30,649	193	474	613
Sugar processing	178,909	605,521	275,078	853	3,028	1,375
Pineapple canning	105,747	131,655	95,488	529	658	477
Producing	63,219	110,422	115,729	282	552	579
Manufacturing	205,463	429,748	413,186	1,024	2,149	2,066
Blind, deaf and disabled	621	2,246	1,333	3	11	7
Wholesaling	547,031	1,527,057	1,721,874	2,736	7,635	8,609
Services (intermediary)	16,106	37,505	41,017	79	188	205
Compensating	3,948	—	—	17	—	—
Use (½%)	239,443	972,342	1,189,514	1,197	4,862	5,948
Payment of est. tax	—	—	—	55	-180	109
Disaster refunds	—	—	—	—	—	—
Penalties and interest	—	—	—	174	1,173	1,436

¹ Revised from 1976 edition, table 125.

² Most recent year available. This series was discontinued as of January 1, 1977 and resumed early in 1978.

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

Table 155.—REAL PROPERTY TAX VALUATIONS: 1968 TO 1978

[Dollar amounts in thousands. Real property was legally assessed at 70 percent of market value in 1968 and 60 percent in 1977 and 1978.]

Subject	January 1, 1968: State total	January 1, 1977: State total	January 1, 1978, by counties				
			State total	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation	6,044,461	15,951,005	17,761,105	13,951,323	1,619,617	1,549,103	641,062
Land	3,513,586	8,886,616	9,846,501	7,724,059	871,951	885,095	365,396
Improvements	2,530,875	7,064,389	7,914,604	6,227,264	747,666	664,008	275,666
Exemptions	2,377,191	5,710,127	6,103,764	5,156,805	331,221	468,628	147,110
Federal	637,811	1,115,031	1,101,296	1,082,168	3,103	11,140	4,885
State	728,442	1,496,534	1,678,114	1,398,426	823,348	167,978	29,362
County	215,695	487,442	529,798	466,404	31,882	19,914	11,598
Hawaiian Homes Commission	7,783	22,278	30,092	14,037	5,705	8,771	1,579
Homes, fee	370,532	1,366,810	1,449,409	1,021,121	154,285	194,414	79,589
Homes, leasehold	99,068	472,380	496,465	474,464	8,430	11,805	1,766
Public utilities	36,870	107,403	112,076	96,546	5,564	8,485	1,481
All other ¹	280,990	642,249	706,514	603,639	39,904	46,121	16,850
Assessor's net taxable valuation	3,667,270	10,240,878	11,657,341	8,794,518	1,288,396	1,080,475	493,952
Half of valuation on appeal	28,055	126,108	125,855	88,053	22,547	5,790	9,465
Number of appeals	1,305	2,907	2,602	1,415	622	141	424
Valuation for tax rate purposes	3,639,215	10,114,771	11,531,484	8,706,464	1,265,848	1,074,685	484,487
Land	2,275,574	5,932,275	6,715,724	5,012,824	719,054	687,989	295,857
Improvements	1,363,641	4,182,496	4,815,760	3,693,640	546,794	386,696	188,630
Amounts to be raised by taxation ²	102,737	154,189	170,368	132,599	11,507	19,237	7,025

¹ Mostly churches (\$226,524,000 in 1978), non-profit organizations (\$97,741,000), and hospitals (\$89,582,000).² Figure for 1968 covers the 18-month period ended June 30, 1969.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual tabular release).

Table 156.—COUNTY REAL PROPERTY TAX RATES: 1978-1979

[Rates per \$1,000 assessed valuation. Real property is legally assessed at 60 percent of market value.]

County	Improved residential	Hotel/apartment	Commercial	Industrial	Agricultural	Conservation	Unimproved residential
Honolulu:							
Land	15.23	17.30	17.41	16.36	15.23	15.23	17.30
Improvements	15.23	13.84	13.93	13.09	15.23	15.23	13.84
Maui:							
Land	9.09	10.24	9.94	10.05	9.09	9.09	10.24
Improvements	9.09	8.19	7.95	8.04	9.09	9.09	8.19
Hawaii:							
Land	17.90	20.30	20.11	20.30	17.90	17.90	20.30
Improvements	17.90	16.24	16.09	16.24	17.90	17.90	16.24
Kauai:							
Land	14.50	16.10	15.93	16.45	14.50	14.50	16.10
Improvements	14.50	12.88	12.74	13.16	14.50	14.50	12.88

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1978-79" (tables).

Table 157.—ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1966 TO 1976

Year earned	Number of returns	Adjusted gross income (less deficit)	
		Total (\$1,000)	Per return (dollars)
1966	250,678	1,784,039	7,117
1967	263,518	1,910,919	7,252
1968	273,823	2,113,522	7,719
1969	290,251	2,407,048	8,293
1970	302,426	2,802,445	9,267
1971	308,814	3,010,051	9,747
1972	318,023	3,250,608	10,221
1973	345,211	3,749,212	10,861
1974	346,824	3,957,023	11,409
1975	358,510	4,269,028	11,908
1976 ¹	363,712	4,648,365	12,780

¹ PreliminarySource: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income. Individual Income Tax Returns* (annual).

**Table 158.—INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL
INCOME TAX RETURNS: 1970 TO 1975**

[By year in which income was earned. Not precisely comparable among all years, due to changes in law, return forms, and other factors.]

Adjusted gross income	1970	1971	1972	1973	1974	1975
All returns	302,426	308,814	318,023	345,211	346,824	358,510
Under \$1,000	38,320	31,778	24,757	29,035	30,242	24,751
\$1,000 under \$2,000	13,252	24,397	23,160	24,020	24,969	24,751
\$2,000 under \$3,000	25,056	12,655	26,774	20,076	22,631	25,369
\$3,000 under \$4,000	18,429	19,351	17,354	16,419	21,252	24,813
\$4,000 under \$5,000	18,179	19,173	24,551	17,419	15,569	14,621
\$5,000 under \$6,000	18,495	15,968	28,854	27,397	12,669	19,297
\$6,000 under \$7,000	20,993	4,810		12,360	20,203	17,093
\$7,000 under \$8,000	13,083	24,220	12,791	15,077	15,011	13,652
\$8,000 under \$9,000	11,342	14,900	19,461	19,299	20,028	14,836
\$9,000 under \$10,000	12,552	22,016	13,742	19,219	10,055	14,576
\$10,000 under \$11,000	14,355	10,824	9,767	10,713	15,599	12,805
\$11,000 under \$12,000	10,405	12,983	8,244	17,679	9,248	14,841
\$12,000 under \$13,000	12,112	13,433	11,218	11,753	11,975	11,245
\$13,000 under \$14,000	11,138	9,194	12,299	10,428	9,385	8,095
\$14,000 under \$15,000	8,086	10,335	14,345	10,929	12,362	9,341
\$15,000 under \$20,000	31,559	32,635	34,624	37,966	39,587	42,117
\$20,000 under \$25,000	13,173	16,697	17,344	21,455	25,400	29,754
\$25,000 under \$30,000	4,698	6,747	9,888	10,878	12,461	15,710
\$30,000 under \$50,000	5,411	4,654	6,341	9,817	14,568	16,914
\$50,000 under \$100,000	1,480	1,691	2,076	2,717	2,948	3,253
\$100,000 under \$200,000	254	286	350	440	537	531
\$200,000 under \$500,000	50	55	73	95	112	125
\$500,000 under \$1,000,000	4	12	5	15	13	15
\$1,000,000 or more			5	5	—	5
Median income (dollars)	6,928	8,138	8,040	8,560	8,543	9,005

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

**Table 159.—STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1975,
BY ADJUSTED GROSS INCOME CLASS**

Adjusted gross income class	Number of returns	Adjusted gross income ¹ (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
All returns	362,185	4,014,828	2,615,002	177,121
Taxable returns	288,258	3,856,903	2,571,637	174,563
\$500, under \$1,000	3,622	3,365	312	8
\$1,000 under \$2,000	22,358	33,377	12,322	313
\$2,000 under \$3,000	19,190	47,485	25,923	850
\$3,000 under \$4,000	16,127	56,298	32,737	1,306
\$4,000 under \$5,000	13,980	62,929	38,553	1,788
\$5,000 under \$6,000	13,774	75,497	47,794	2,389
\$6,000 under \$8,000	27,660	192,371	124,561	6,866
\$8,000 under \$10,000	23,047	206,167	131,041	7,538
\$10,000 under \$15,000	48,718	603,744	391,462	23,875
\$15,000 under \$20,000	38,835	674,327	442,661	28,783
\$20,000 under \$25,000	25,554	570,010	380,345	25,856
\$25,000 under \$30,000	15,195	414,717	285,037	20,425
\$30,000 under \$50,000	16,422	595,230	420,455	32,540
\$50,000 under \$75,000	2,446	145,338	106,328	9,223
\$75,000 under \$100,000	679	58,109	43,250	3,976
\$100,000 under \$150,000	401	48,221	36,579	3,529
\$150,000 and over	250	69,720	52,276	5,299
Nontaxable returns	53,448	71,580	—	—
Loss	1,408	-8,700	—	—
Under \$500	22,650	3,665	—	—
\$500, under \$1,000	13,916	9,595	—	—
\$1,000 under \$2,000	5,756	8,403	—	—
\$2,000 under \$3,000	3,832	9,522	—	—
\$3,000 under \$4,000	1,820	6,228	—	—
\$4,000 under \$5,000	1,421	6,385	—	—
\$5,000 and over	2,645	27,782	—	—
Nonresident returns	20,479	86,345	43,365	2,557

¹ Totals and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns 1975, Individuals*, p. 16.

Table 160.—FEDERAL OUTLAYS IN HAWAII: 1968 TO 1977

[In thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	All agencies	Department of Defense	Nondefense agencies
1968	848,383	498,196	350,187
1969	987,814	564,957	422,857
1970 (revised)	963,668	524,474	439,194
1971	1,075,111	622,528	452,583
1972	1,173,340	669,999	503,341
1973	1,435,341	806,565	628,776
1974	1,643,890	943,622	700,268
1975	2,060,344	1,106,976	953,368
1976	2,162,221	1,221,098	941,123
1977	2,065,800	995,085	1,070,715

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1977), *Federal Outlays in Hawaii* (annual report, 1968-1976) and *Geographic Distribution of Federal Funds in Hawaii* (1977).

**Table 161.—FEDERAL OUTLAYS IN HAWAII, BY AGENCY AND FUNCTION:
YEAR ENDED SEPTEMBER 30, 1977**

Agency and function	Outlay (\$1,000)
Total outlays	2,065,800
Agency:	
Dept. of Agriculture	59,113
Dept. of Commerce	50,684
Dept. of Defense	995,085
Dept. of Health, Education and Welfare	467,998
Dept. of Housing and Urban Development	18,012
Dept. of the Interior	7,787
Dept. of Justice	6,342
Dept. of Labor	60,844
Dept. of State	9,474
Dept. of Transportation	109,652
Treasury Dept.	53,648
Civil Service Commission	98,198
Environmental Protection Agency	6,974
Postal Service	36,844
Veterans Administration	60,479
Other agencies	24,665
Function:	
Dept. of Defense—military	995,985
Postal service	36,844
Ground transportation	52,180
Air transportation	27,335
Water transportation	29,444
Elem., sec., and voc. education	29,604
Training and employment	44,146
Health care services	119,210
General retirement and disability insurance	238,126
Federal employee retirement and disability	87,518
Public assistance and other income supplements	101,270
Income security for veterans	29,151
Veterans education, trng., and rehab.	22,982
General revenue sharing	31,434
Community, area, and regional development	61,818
Other functions	158,752

Source: U.S. Community Services Administration, *Geographic Distribution of Federal Funds in Hawaii, Fiscal Year 1977, FIXS-77-12.*

Table 162.—FEDERAL AID: 1970 TO 1976
[In thousands of dollars]

Period and program	Amount
Years ended June 30:	
1970	123,582
1971	132,839
1972	163,355
1973	210,535
1974	245,308
1975	246,778
1976	309,151
July 1, 1976 to September 30, 1976	82,267
MAJOR PROGRAMS: FISCAL 1976	
Environmental Protection Agency	20,397
School assistance in federally affected areas	12,323
Public assistance: maintenance	33,782
Medical assistance (Medicaid)	23,003
Employment and training assistance	12,161
Temporary employment assistance	11,646
Highway trust fund	57,220
General revenue sharing	27,548

Source: U.S. Department of the Treasury, *Federal Aid to States* (annual).

**Table 163.—PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS:
1958 TO 1977**

[In millions of dollars. As of December 31.]

Year	Total outstanding	Governmental unit and funds charged with debt service costs	Outstanding, 1977
1958	214.4	All units	1,775.7
1959	273.8		
1960	285.6	State	1,483.1
1961	306.8	General fund	887.4
1962	312.7	Highway fund	118.6
1963	386.5	Dwelling unit revolving fund	90.3
1964	423.6	Airport revenues	234.2
1965	454.1	Other funds	152.6
1966	412.3	Honolulu	226.9
1967	472.9	General fund: State issues	0.7
1968	533.8	County issues	136.0
1969	631.3	Other funds	90.2
1970	742.0		
1971	925.5	Maui	19.6
1972	1,080.4	General fund: State issues	0.0
1973	1,219.4	County issues	16.6
1974	1,274.4	Other funds	2.9
1975	1,435.9		
1976	1,667.2	Hawaii	34.6
1977	1,775.7	General fund: State issues	0.7
		County issues	33.6
		Other funds	0.3
		Kauai	11.5
		General fund: County issues	11.0
		Other funds: State issues	0.0
		County issues	0.6

Source: Tax Foundation of Hawaii, *A Compendium of Governmental Finances in Hawaii, 1949-1968* (November 1969), p. 71, and *Government in Hawaii* (annual).

Table 164.—STATE GENERAL OBLIGATION BOND DEBT: 1967 TO 1977
 [In dollars. As of June 30.]

Year	G.O. bond debt	Cash reserve for serial bonds	Net debt
1967	217,254,800.00	3,633,138.14	213,621,661.86
1968	261,771,200.00	3,629,842.59	258,141,357.41
1969	325,837,000.00	3,204,803.15	322,632,196.85
1970	342,329,000.00	2,916,418.02	339,412,581.98
1971	434,895,000.00	2,595,593.63	432,299,406.37
1972	522,918,000.00	2,109,114.74	520,808,885.26
1973	689,764,000.00	2,262,632.80	687,501,367.20
1974	770,325,000.00	2,821,305.76	767,503,694.24
1975	810,021,000.00	2,396,217.52	807,624,782.48
1976	1,039,744,000.00	1,422,038.00	1,038,321,962.00
1977	1,165,459,000.00	852,531.27	1,164,606,468.73

Source: Hawaii State Department of Accounting and General Services, records.

**Table 165.—FEDERAL, STATE, AND COUNTY EMPLOYMENT:
ANNUAL AVERAGES, 1967 TO 1977**

Year	Full- and part-time civilian employment								Armed forces ashore ¹
	Total	Federal					State	Counties	
		Total	Air Force	Army	Navy	Other			
1967	66,340	33,900	3,540	5,980	13,010	11,370	22,630	9,810	41,000
1968	69,230	34,970	3,730	6,120	13,280	11,840	24,420	9,840	42,000
1969	71,130	34,690	4,030	6,440	13,050	11,170	26,090	10,350	41,000
1970	73,640	33,380	3,680	6,100	12,300	11,300	30,600	9,660	42,000
1971	78,220	32,920	3,430	6,020	12,070	11,400	34,920	10,380	38,000
1972	79,400	32,700	3,400	6,000	11,800	11,500	35,300	11,450	41,000
1973	78,050	31,650	3,300	6,050	11,250	11,050	35,250	11,150	44,600
1974	78,900	31,000	3,300	5,700	11,200	10,800	35,950	11,950	46,898
1975	82,000	30,550	3,300	5,300	11,100	10,850	38,700	12,750	45,989
1976	84,800	29,850	3,200	4,950	11,050	10,600	41,350	13,600	44,600
1977	85,700	29,300	3,050	4,750	11,200	10,250	42,650	13,800	44,000

¹ Excludes Naval personnel aboard ships.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates* (annual, 1967-1969), *State of Hawaii Labor Force Statistics* (annual, 1970 and 1971), *Labor Force Data Book* (March 1978), and records; U.S. Bureau of Economic Analysis, unpublished data on armed forces.

Table 166.—STATE CIVIL SERVICE: 1940 TO 1977

Year ¹	Civil service employees ²	Applications received	New hires	Promotions	Transfers ³	Separations
1940 ⁴	2,616	....	....	....	....	....
1941 .....	....	....	....	....	....	....
1942	2,618	....	....	....	....	....
1943	2,619	....	....	....	....	....
1944	2,953	....	....	....	....	....
1945	3,772	....	....	....	....	....
1946	4,225	....	....	....	....	....
1947	4,674	4,024	....	....	....	....
1948	5,000	....	....	....	....	....
1949	4,684	....	....	....	....	....
1950	5,280	....	....	....	....	805
1951 .....	....	....	....	....	....	721
1952	5,405	....	....	....	....	660
1953 .....	....	....	....	....	....	839
1954 .....	....	6,856	783	396	228	800
1955	5,229	14,154	891	382	212	983
1956	5,525	10,374	1,027	497	338	863
1957	5,892	9,491	1,098	530	340	847
1958	6,305	9,121	1,039	476	264	824
1959	6,581	12,000	1,214	577	377	950
1960	6,790	....	1,274	552	363	922
1961-62	7,455	18,800	1,290	497	397	834
1962-63	7,548	18,542	1,322	455	263	787
1963-64	7,655	6,104	1,038	326	231	805
1964-65	7,719	16,090	1,098	376	320	1,110
1965-66	8,195	10,789	1,529	456	500	1,373
1966-67	8,728	13,082	1,804	587	555	1,260
1967-68	9,874	14,363	1,787	706	519	1,441
1968-69	10,186	14,187	2,141	630	615	1,613
1969-70	10,166	17,696	2,559	718	820	1,900
1970-71	14,280	23,587	3,044	906	1,008	1,846
1971-72	14,399	13,262	1,489	374	399	1,558
1972-73	14,127	14,180	1,297	453	485	1,551
1973-74	14,460	13,337	1,444	445	509	1,320
1974-75	14,792	18,449	1,736	701	614	1,337
1975-76	16,048	31,021	2,446	975	947	1,439
1976-77	16,318	29,111	2,919	957	845	1,746

¹ Calendar years through 1960; fiscal years ended June 30, 1962 and later.

² As of the end of the period.

³ Beginning in 1955, includes demotions and returns to former position after promotion.

⁴ Earliest year available. Limited civil service, covering only employees of the Territorial Board of Health and Honolulu Police and Fire Departments, was established by Acts 51 and 119 of the 1913 Legislature. Civil service was extended to most Territorial and County employees by Act 187, S.L.H. 1939, effective July 1, 1939.

Source: Annual reports and records of the Territory of Hawaii Civil Service Commission and Department of Civil Service and Hawaii State Department of Personnel Services.

Table 167.—STATE CIVIL SERVICE: 1972 TO 1977
 [Years ended June 30]

Subject	1972	1976	1977
Civil service employees	14,399	16,048	16,318
Department of Education	3,507	3,794	3,925
Department of Health	3,069	3,519	3,987
Department of Social Services and Housing	1,130	1,507	1,570
Department of Transportation	1,602	1,758	1,183
University of Hawaii	1,650	1,687	1,526
All others	3,441	3,783	4,127
Separations	1,558	1,439	1,746
Promotions	374	975	957
Transfers, demotions, and returns after promotions	399	947	845
Classification actions processed	3,136	3,641	3,425
Applications received	13,262	31,021	29,111
Applications examined	10,280	15,141	20,428
Applicants placed on eligible list	7,640	11,656	15,522
Eligibles certified for vacancies	14,882	32,236	35,785
Vacancies filled through certification of eligibles or non-competitive actions	3,186	5,309	4,967

Source: Hawaii State Department of Personnel Services, *Annual Report* for 1976 and 1977.

Table 168.—STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1973 TO 1977

[As of December 31]

Year	Total	State employees	County employees
1973 ¹	35,293	26,453	8,840
1974 ²	37,005	26,904	10,101
1975	38,778	28,791	9,987
1976	39,738	29,816	9,922
1977	39,384	30,083	9,301
Collective bargaining agent (union): 1977			
Total	39,384	30,083	9,301
HGEA	14,633	11,383	3,250
HSTA	9,172	9,172	—
UPW	8,947	6,028	2,919
UHPA (UH faculty)	2,694	2,694	—
HHA (registered nurses)	727	726	1
SHOPO (policemen)	1,881	—	1,881
HFFA (firemen)	1,330	80	1,250

¹ City & County of Honolulu as of February 1, 1974; Hawaii County as of January 15, 1974; Kauai County as of January 23, 1974.

² Counties as of January 15, 1975.

Source: Hawaii Public Employment Relations Board, *HPERB Informational Bulletin*, No. 6, 8, 10, 12, and 13.

Section 9

SOCIAL INSURANCE AND WELFARE SERVICES

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

Total public welfare costs reached \$194 million in fiscal 1977, compared with \$46.6 million in 1970 and \$9.3 million in 1960. About 59 percent of the 1977 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1977 was 81,938, or 9.3 percent of the population of the State at the beginning of the year. Almost two-thirds of all public assistance payments and one-half of all recipient cases were accounted for by aid to families with dependent children. Five percent of all welfare cases early in 1978 were recent migrants to Hawaii. The average monthly payment per case for public assistance was \$308, or twice as much as in 1969. Participation in the food stamp program included 37,000 households and 108,000 persons. Among workers receiving unemployment compensation in 1977, weekly benefits averaged \$88.68. More than 96,000 Hawaii residents were receiving Social Security benefits as of the end of 1976, and about 60,000 were enrolled for Medicare. There were also 10,099 State and County government pensioners in 1977, with annual benefits in excess of \$59 million. The Aloha United Way spent \$6.5 million on Oahu during 1977.

Major data sources include reports and records of the U.S. Department of Health, Education, and Welfare, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Section 11 of the *Statistical Abstract of the United States: 1977* presents comparable Mainland data.

Table 169.—SOCIAL WELFARE COSTS: 1967 TO 1977

[In thousands of dollars. For years ended June 30.]

Year ended June 30	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
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	—
1971	67,645	27,769	39,876	5,483	23,926	38,236	—
1972	94,212	38,143	56,069	6,324	34,278	53,610	—
1973	107,237	43,107	64,130	6,757	35,542	64,180	758
1974	111,627	45,782	65,845	7,933	39,096	63,131	1,467
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699

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

Table 170.—PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1967 TO 1977, MONTHLY AVERAGES

Year ended June 30	Major programs ¹		Service cases ²	Medical payments ³		Average money payments ⁴ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1967	8,581	22,350	1,311	—	—	132.71	50.96
1968	10,043	26,337	961	—	—	137.39	52.39
1969	11,013	28,845	926	2,492	2,700	147.86	56.45
1970	12,940	34,320	900	2,942	3,370	170.17	64.14
1971	16,467	44,897	743	4,073	4,496	198.20	72.69
1972	20,627	57,462	1,767	4,068	5,672	220.79	79.26
1973	24,400	66,535	7,833	3,040	4,612	227.11	82.30
1974	21,713	63,807	7,242	5,653	6,912	237.54	85.10
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,594	9,067	6,599	7,352	295.17	106.72
1977	36,534	81,938	12,610	7,569	8,434	307.76	114.52

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. Old age assistance, aid to the blind and aid to disabled assisted through the Federal Social Security Administration with State supplements excluded beginning January 1, 1974.

² Average quarterly.

³ Ineligible for money assistance, receiving medical payment only.

⁴Gross obligation basis.

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

Table 171.—PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1976 AND 1977
[Years ended June 30]

Program	Total payments (\$1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1976	1977	1976	1977	1976	1977
All programs	102,185	114,965	32,944	34,821	258	274
Old age assistance ¹	7,498	7,748	5,489	5,364	114	120
Aid to the blind ¹	253	283	122	129	172	183
Aid to disabled ¹	7,873	8,794	3,840	4,134	171	177
Aid to families with dependent children ²	66,341	73,901	16,289	17,020	339	362
Child welfare foster care	1,141	1,223	583	613	163	166
General assistance	18,217	23,016	6,621	7,561	229	254

¹ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

² Includes AFDC unemployed parent and AFDC foster care.

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

Table 172.—FOOD STAMPS: 1967 TO 1977
[Years ended June 30.]

Year ended June 30	Participation in food stamp program (monthly averages)						Food stamp purchase amount and bonus (dollars)		
	All participants		Public assistance recipients		Other participants ¹		Total ²	Purchase ³	Bonus ⁴
	Households	Persons	Households	Persons	Households	Persons			
1967.....	1,459	5,717	1,217	4,667	242	1,050	1,388,760	998,113	390,647
1968.....	2,408	9,780	1,764	6,885	644	2,895	2,311,750	1,612,471	699,279
1969.....	2,758	11,487	2,023	8,222	735	3,265	2,768,120	1,994,976	773,144
1970.....	3,576	14,068	2,873	11,328	703	2,740	3,846,511	2,626,787	1,219,724
1971.....	8,204	26,400	5,612	19,942	2,592	6,458	8,070,415	4,714,195	3,356,220
1972.....	12,338	35,774	9,087	29,745	3,254	6,029	14,266,005	7,497,839	6,768,166
1973.....	16,938	50,688	11,786	38,735	5,152	11,953	21,511,316	10,665,200	10,846,116
1974.....	20,975	60,064	14,046	43,500	6,929	16,564	28,470,635	13,665,000	14,805,635
1975.....	27,389	76,398	17,017	50,197	10,372	26,201	42,132,261	18,549,128	23,583,133
1976.....	34,529	97,277	20,633	59,523	13,896	37,755	59,786,078	26,914,769	32,871,309
1977.....	37,172	108,353	23,244	67,026	13,927	41,327	64,914,245	30,461,588	34,452,657

¹ Not receiving public assistance recipients (Food Stamp Only).

² Total value of food stamps to recipients available for purchase of food.

³ Amount paid for by recipients.

⁴ Bonus or free coupons given to recipients.

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

Table 173.—MIGRATION STATUS OF PUBLIC WELFARE RECIPIENTS: MARCH 1978

[This table reflects the March 1978 status of in-migrants receiving financial assistance, medicaid and food stamps. Within the financial assistance category are 2,217 cases of aged, blind and disabled cases receiving supplemental payments. This group was not included last year.]

Place of birth or last previous residence	Number of welfare cases ¹				Amount of monthly financial assistance (\$1,000)	
	Receiving financial assistance		Medicaid	Food stamps only	All recipients	In Hawaii under 1 year
	Total	In Hawaii under 1 year				
Total	25,999	1,241	11,961	10,072	8,291	368
Born in Hawaii	15,277	—	5,091	4,652	5,039	—
Born elsewhere	9,021	1,241	5,446	5,152	2,749	368
Mainland	5,545	952	1,453	3,060	1,680	279
Samoa	1,262	176	220	214	510	58
Philippines	877	19	1,995	1,025	173	3
Orient ²	486	23	1,521	595	124	6
Southeast Asia ³	427	27	55	24	133	9
Other ⁴	424	44	202	234	129	13
Unknown	1,701	—	1,424	268	503	—
PERCENT						
Total	100.0	4.8	100.0	100.0	100.0	4.4
Born in Hawaii	58.8	—	42.6	46.2	60.8	—
Born elsewhere	34.7	4.8	45.5	51.1	33.1	4.4
Mainland	21.3	3.7	12.1	30.4	20.3	3.4
Samoa	4.9	0.7	1.8	2.1	6.1	0.7
Philippines	3.4	0.1	16.7	10.2	2.1	—
Orient ²	1.9	0.1	12.7	5.9	1.5	0.1
Southeast Asia ³	1.6	0.1	0.5	0.2	1.6	0.1
Other ⁴	1.6	0.1	1.7	2.3	1.5	0.1
Unknown	6.5	—	11.9	2.7	6.1	—

¹ The number of individuals (rather than cases) was 70,714 receiving financial assistance, 17,759 receiving medical assistance only, and 28,544 enrolled in the food stamp only program. Data include Aid to Families with Dependent Children, Unemployed Father, General Assistance, and Aged, Blind, Disabled Supplement, but exclude foster care, non-needy caretaker cases and SSI.

² China, Japan, and Korea.

³ Vietnam, Cambodia, and Laos.

⁴ South Pacific Islands, Canada, Europe, etc.

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

Table 174.—SOCIAL SECURITY RECIPIENTS AND BENEFITS: 1970 TO 1976

Year	Number of recipients at end of year	Monthly amount payable at end of year		Total amount paid during year ¹ (\$1,000)
		Total (\$1,000)	Per recipient (dollars)	
1970	66,488	6,437	96.81	77,593
1971	70,912	7,666	108.11	92,440
1972	76,413	10,141	132.71	107,125
1973	82,224	11,202	136.24	134,198
1974	87,141	13,433	154.15	155,179
1975	91,731	15,629	170.38	181,775
1976	96,230	17,894	185.95	210,423

¹ Includes also retroactive benefits and lump-sum death payments.

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

Table 175.—MEDICARE ENROLLMENT AND REIMBURSEMENT: 1976

Coverage	Enrollment, July 1, 1976		Reimbursement, 1976 (\$1,000)	
	Age 65 and over	Disabled and renal disease	Age 65 and over	Disabled and renal disease
Hospital and/or medical.....	60,366	5,796	35,794	5,502
Hospital only.....	58,615	5,796	23,957	2,953
Medical only.....	58,509	5,279	11,837	2,549

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

Table 176.—UNEMPLOYMENT INSURANCE: 1970 TO 1978

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)	Gross benefits ¹ (\$1,000)	Weekly benefits		Average benefit duration ² (weeks)	Exhaustion rate ³ (percent)
	Total	Percent of total employment	Total	Percent of total unemployment			Maximum (dollars)	Average (dollars)		
1970.....	302,388	91	7,369	46	131.87	20,655	79	58.15	15.0	21.3
1971.....	309,901	91	12,315	53	135.38	35,390	86	63.38	18.3	33.8
1972.....	321,751	92	14,485	54	141.92	37,865	90	65.57	19.9	41.7
1973.....	335,615	92	12,107	46	151.17	37,014	93	67.57	16.0	30.2
1974.....	342,615	91	13,900	47	162.25	45,208	98	71.86	16.2	35.3
1975.....	350,481	86	18,779	59	174.42	58,942	104	76.34	16.4	34.1
1976.....	357,770	92	21,480	55	183.87	71,574	112	83.84	18.9	48.4
1977.....	(NA)	(NA)	16,438	(NA)	(NA)	55,823	120	88.68	16.4	36.0
1978.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	126	(NA)	(NA)	(NA)

NA Not available

¹ Regular benefits only. Extended benefits amounted to \$773,000 in 1971, \$7,387,000 in 1972, \$21,000 in 1973, \$170 in 1974, \$11,830,000 in 1975, \$19,596,000 in 1976, and \$13,104,000 in 1977.

² Regular benefits only. Extended benefits averaged 5.7 weeks in 1971, 11.0 weeks in 1972, 4.0 weeks in 1973, 10.4 weeks in 1975, and 11.0 weeks in 1976 and 1977.

³ Regular benefits only

Source: Hawaii State Department of Labor and Industrial Relations, *Unemployment Insurance Fact Book* (June 1978).

Table 177.—HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1970 TO 1977

Year	Member- ship, March 31	Pen- sioners, March 31	Assets, ¹ June 30 (dollars)	Total bene- fits paid ² (dollars)	Average monthly pension ² (dollars)	Administration expenses ² (dollars)
1970	38,912	5,641	388,561,206	22,822,059	216	337,002
1971	42,262	6,069	435,463,758	25,665,295	231	418,754
1972	43,736	6,667	489,436,678	31,359,208	247	478,522
1973	44,471	7,343	545,465,277	37,601,889	262	425,864
1974	43,371	7,971	611,675,571	41,130,325	271	487,504
1975	44,363	8,600	683,305,413	46,782,477	297	563,513
1976	45,256	9,263	773,878,470	53,625,776	313	631,714
1977	46,371	10,099	886,596,717	59,158,256	330	725,621

¹ Book value.² Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.Source: Employees' Retirement System of the State of Hawaii, *52nd Annual Report, June 30, 1977*, pp. 19 and 31, and records.**Table 178.—ALOHA UNITED WAY REVENUE AND EXPENDITURES, FOR OAHU: 1967 TO 1977**
[In dollars]

Year	Support and revenue		Expenditures	
	Total	Campaign contributions ¹	Total	Allocations to agencies
1967 ²	3,450,332	3,553,920	3,101,230	2,880,984
1968	4,013,848	3,835,104	3,499,445	3,266,414
1969	3,975,406	4,036,075	3,892,922	3,605,892
1970	4,377,883	4,507,229	4,277,561	3,963,195
1971	4,714,072	4,862,764	4,615,511	4,265,374
1972	4,749,399	5,007,611	4,682,606	4,308,488
1973	4,829,529	5,076,425	4,805,589	4,412,466
1974	5,257,649	5,528,287	5,187,501	4,774,390
1975	5,666,282	5,518,832	5,827,974	5,138,244
1976	6,204,303	6,052,054	6,184,064	5,576,158
1977	6,617,452	6,487,420	6,514,799	5,950,252

¹ Before adjustment for uncollectible allowance.² Earliest full year available. The Aloha United Fund was granted status as a non-profit corporation on March 10, 1966, as the successor to the Honolulu Community Chest.Source: Aloha United Way, *Annual Report, 1967-1977*.

Section 10

NATIONAL DEFENSE

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

There were approximately 58,500 officers and enlisted men (including 12,700 aboard ships homeported in Hawaii) and 65,000 military dependents in the Islands as of July 1, 1977. 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 about two-fifths of the current total. More than 10,600 Hawaii residents were in the armed forces worldwide in 1977. The importance of national defense in Hawaii can be further measured by total expenditures (\$1,087,000,000), military prime contracts awards (\$224 million), civilian employment (19,000), veterans in civil life (93,000), military personnel receiving retired or retainer pay (8,300 men, receiving \$71 million), federally-connected pupils in public schools (42,000), military housing (17,500 units), and land controlled by the armed forces (223,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on *Military Personnel and Dependents in Hawaii*. Other published sources include reports of the Bureau of the Census, the Administrator of Veterans Affairs, the Department of Defense, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Census Statistical Areas Committee, and the Honolulu Department of Housing and Community Development. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1976, for example, the number of armed forces in Hawaii was reported as 53,783 by DOD, 57,784 by the Bureau of the Census, 44,838 by the Bureau of Economic Analysis (which excludes ships crews), and 59,737 by the local commanding officers reporting to DPED. Section 12 of the *Statistical Abstract of the United States: 1977* presents data on national defense and veterans affairs for other States and the entire nation.

Table 179.—ARMED FORCES AND DEPENDENTS: 1970 TO 1977

[Includes Navy personnel in Hawaiian waters, regardless of home port, and excludes all Coast Guard personnel; for these reasons, data differ somewhat from those in the following table.]

Year	Active-duty military personnel in Hawaii, June 30				Dependents located in Hawaii, March 31 ¹
	Total	Shore-based	Afloat and mobile		
			Temporarily shore-based	Other ²	
1970	50,524	33,337	7,102	10,085	57,382
1971	41,877	28,352	3,848	9,677	57,816
1972	47,799	36,494	1,724	9,581	61,713
1973	54,184	43,315	2,188	8,681	60,206
1974	52,309	41,913	1,889	8,507	62,160
1975	56,426		47,010	9,416	66,092
1976	53,783		44,007	9,776	61,349
1977	51,902		43,635	8,267	57,555

¹ Data include dependents of Hawaii residents stationed out of State, if those dependents remain in Hawaii.

² Navy personnel afloat, identified with nearest port.

Source: Department of Defense, Washington Headquarters Services, Information Operations and Reports, records.

Table 180.—MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1968 TO 1978

[As of July 1. Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Department of Defense and Bureau of the Census, reported elsewhere in this volume.]

Year, island, and service	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families in Hawaii
		Total	Ashore	Aboard ship		
1968.....	107,746	48,613	36,712	11,901	59,133	21,818
1969.....	115,979	56,282	38,501	17,781	59,697	21,623
1970.....	111,549	53,768	39,822	13,946	57,781	20,568
1971.....	112,943	50,762	35,824	14,938	62,181	23,184
1972.....	118,760	52,538	37,124	15,414	66,222	23,688
1973.....	128,082	57,783	43,064	14,719	70,299	25,264
1974.....	126,882	58,558	45,369	13,189	68,324	29,082
1975.....	121,911	58,205	45,589	12,616	63,706	26,122
1976.....	126,694	59,737	46,453	13,284	66,957	26,395
1977.....	123,471	58,466	45,811	12,655	65,005	25,927
1978.....	119,200	58,106	46,001	12,105	61,094	25,400
ISLAND: 1978						
Oahu.....	118,449	57,688	45,602	12,086	60,761	25,247
French Frigate Shoals....	10	10	10	—	—	—
Kure Atoll.....	25	25	25	—	—	—
Hawaii.....	330	192	182	10	138	55
Kauai.....	313	168	168	—	145	81
Maui.....	73	23	14	9	50	17
SERVICE: 1978						
Air Force.....	16,070	6,040	6,040	—	10,030	4,179
Army.....	38,551	18,203	18,203	—	20,348	8,018
Coast Guard.....	1,950	836	617	219	1,114	472
Marine Corps.....	17,548	9,789	9,789	—	7,759	3,911
Navy.....	45,081	23,238	11,352	11,886	21,843	8,820

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

Table 181.—DEFENSE EXPENDITURES, BY CATEGORY AND SERVICE: 1977

[In thousands of dollars. For earlier years, see table 206.]

Expenditure category	All services	Air Force	Army	Navy and Marines	Coast Guard
All categories.....	1,086,561	110,824	419,401	534,788	21,548
Military payroll.....	432,754	50,770	189,362	175,932	16,690
Civilian payroll.....	325,778	26,973	78,812	217,003	2,990
Supplies, equipment, services.....	328,029	33,081	151,227	141,853	1,868

Source: Quarterly reports of armed forces.

**182.—MILITARY PRIME CONTRACT AWARDS OF \$10,000 OR MORE,
BY SERVICE: 1960 TO 1977**

[In thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Year	Total	Army ¹	Navy	Air Force	Defense Logistics Agency ²	Other defense agencies
1960.....	48,971	28,103	16,885	3,983	...	...
1961.....	26,916	12,632	10,808	3,476	...	...
1962.....	31,875	15,200	11,365	3,670	1,640	...
1963.....	45,206	15,334	14,121	6,929	8,822	—
1964.....	52,112	19,996	20,798	5,059	6,234	25
1965.....	72,213	20,950	41,130	5,149	4,907	77
1966.....	64,170	22,210	24,162	8,745	9,053	...
1967.....	65,445	22,904	19,974	6,003	16,564	...
1968.....	95,623	28,835	52,721	9,528	4,539	...
1969.....	114,608	36,808	52,483	20,786	4,531	...
1970.....	109,034	36,920	39,854	21,278	10,982	...
1971.....	122,161	30,750	52,260	30,206	8,945	...
1972.....	95,847	34,136	43,297	14,732	3,682	...
1973.....	155,393	48,201	60,263	15,807	31,122	...
1974.....	183,447	56,628	64,765	15,639	46,415	...
1975.....	298,601	87,464	86,015	32,125	92,997	...
1976.....	363,358	145,639	53,717	16,734	147,268	...
1977 ³	223,805	46,385	77,298	21,003	71,242	...

¹ Includes "other defense agencies" after 1965.

² Defense Supply Agency before 1977.

³ Fiscal year ended September 30.

Source: U.S. Department of Defense, Directorate for Information Operations and Reports, *Prime Contract Awards by State for 1951-1976 and Fiscal Year 1977*.

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

Subject	June 30, 1960: total	June 30, 1970: total	June 30, 1972			
			Total	Army	Navy	Air Force
Cost to U.S. govt. ¹	855,122	1,047,218	1,101,877	248,070	680,842	172,965
Acreage controlled.....	252,647	226,539	222,900	152,591	63,652	6,657
Owned ²	34,968	175,225	174,931	106,591	62,427	5,913
Public land ²	166,880	—	—	—	—	—
Temporary use.....	30,037	12,721	11,888	11,450	88	350
Easements.....	675	1,639	1,444	573	675	196
Leased.....	20,087	36,954	34,637	33,977	462	198

¹ Land and improvements, in thousands of dollars.

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

Source: U.S. House of Representatives, Committee on Government Operations, Ninety-Third Congress, First Session, *Federal Real and Personal Property Inventory Report* (biennial report).

Table 184.—MISCELLANEOUS STATISTICS ON THE ARMED FORCES: 1974 TO 1977

Subject	1974	1975	1976	1977
Hawaii residents on active duty, June 30	10,810	10,640	10,600	10,640
National Guard strength, June 30	4,859	5,062	5,090	4,902
Hawaii Air National Guard	1,493	1,554	1,626	1,709
Hawaii Army National Guard	3,366	3,508	3,464	3,193
Veterans in civil life, September 30 ¹	93,000	93,000	93,000	93,000
War Veterans	80,000	81,000	81,000	80,000
Vietnam era	31,000	31,000	32,000	33,000
Korean conflict	20,000	21,000	21,000	21,000
World War II	32,000	33,000	32,000	31,000
World War I	2,000	2,000	1,000	1,000
Service Feb. 1955-Aug. 1964 only	13,000	12,000	12,000	12,000
Military personnel receiving retired or retainer pay as of June 30, all services	6,895	7,205	7,780	8,330
Annual rate (\$1,000)	42,006	51,041	62,567	71,354
Civilian employment, annual average	20,200	19,700	19,200	19,000
Air Force	3,300	3,300	3,200	3,050
Army	5,700	5,300	4,950	4,750
Navy	11,200	11,100	11,050	11,200
Federally-connected pupils in public schools, Fall	43,848	45,746	44,393	42,360
Housing units operated by the armed forces, July 1	16,570	16,301	17,156	17,454
Owned by the armed forces	15,860	15,814	16,862	17,342
Leased from private owners	710	487	294	112

¹ June 30 before 1976. Totals include post-Vietnam era (1,000 in 1977).

Source: Office of the Assistant Secretary of Defense, records; Hawaii State Department of Defense, *Annual Report* (annual); Hawaii State Department of Labor and Industrial Relations, releases; Hawaii State Department of Education, *Report on Federally Connected Pupils, Hawaii Public Schools* (annual); Hawaii State Census Statistical Areas Committee, *The Geographic Distribution of Government Housing in Hawaii* (annual); Veterans Administration, *Veteran Population* (semi-annual).

LABOR FORCE, EMPLOYMENT, AND EARNINGS

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

The number of employed persons (including armed forces) almost doubled between 1940 and 1970, reaching 338,000 in the latter year. Agricultural employment fell from 55,000 to 13,000 during this period, while nonagricultural workers (excluding armed forces) rose from 99,000 to 275,000. The civilian job count rose from 283,200 in 1967 to 395,500 a decade later, an increase of 40 percent. (The job count differs from employment because the latter counts multiple jobholders — “moonlighters” — only once.) The unemployment rate averaged 7.4 percent in 1977, with island levels ranging from 6.5 to 10.3 percent. The labor force contains above-average proportions of younger persons and women: the 1970 Census reported that 49 percent of all females 16 years of age or more were either employed or seeking work, a proportion higher than that of any other State and second only to the District of Columbia. By occupation, one out of six civilian workers is classified as professional or technical. Activities with especially large numbers of employees include government (85,700 in 1977, about 34 percent of them in federal jobs), services (84,750), retail trade (74,450), finance, insurance, and real estate (24,550), and manufacturing (23,350). Wage and salary levels are high: the average annual earnings of private wage and salary workers under the Hawaii Employment Security Law reached \$9,557 in 1976 (twice the 1964 average), and in some categories exceeded \$15,000. Average weekly hours in 1977 ranged from 31.6 (for retail trade) to 42.7 (for communications and utilities). Labor union membership was estimated at 129,000 in 1974. Work stoppages in 1975 numbered 13, and involved 1,900 workers.

Analyzing labor force trends is greatly complicated by recent shifts in sources and estimating methods. Prior to 1970, the number of employed civilians was estimated from data on the number of jobs covered by the Hawaii State Employment Security Law; workers holding more than one job were accordingly counted more than once. From 1970 to 1975, the same source was used, but the totals were adjusted to exclude the double-counting thought to be present. Then, beginning in 1976, the labor force estimates were based on the Current Population Survey, a relatively small household survey subject to considerable sampling variation. The 1970-1975 estimates were recently revised for greater comparability with the 1976-1977 data.

Principal sources for the data on labor force, employment, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, various studies by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, annual surveys by the Hawaii Employers Council, and occasional sample surveys by public and private agencies. Statistics for the nation as a whole are published in Section 13 of the *Statistical Abstract of the United States: 1977*.

Table 185.—JOB COUNT, BY COUNTIES: ANNUAL AVERAGES, 1967 TO 1977

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County			
					Total	Maui	Lanai	Molokai
1967	283,200	228,020	24,530	11,860	18,780	15,810		2,970
1968	297,900	240,250	25,990	12,310	19,350	16,460		2,890
1969	317,880	258,470	26,590	12,760	20,070	17,350		2,720
1970	331,580	270,310	28,410	12,540	20,320	17,410		2,920
1971	339,070	276,260	29,000	12,960	20,840	18,090		2,730
1972	349,950	285,900	29,450	13,050	21,550	18,900	900	1,700
1973	365,050	298,900	30,150	13,600	22,250	19,800	900	1,550
1974	374,650	306,350	31,000	13,600	23,650	21,150	900	1,600
1975	380,900	308,550	32,350	14,550	25,400	22,950	1,000	1,450
1976	387,000	312,100	33,000	15,250	26,600	24,100	950	1,550
1977	395,500	318,050	33,700	15,900	27,850	25,100	1,000	1,700

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), tables 9-56, as corrected; *Labor Force Statistics*, Bulletin No. 70-F and 72-F; printouts for 1967-1969.

186.—UNEMPLOYMENT PEAKS: 1936 TO 1977

[Survey definitions and methods vary from year to year. Data prior to 1940 are limited to the few dates for which statistics are available; since World War II, based on monthly estimates.]

Month and year	Number unemployed	Percent unemployed ¹
Dec. 1936 - Feb. 1937 ²	5,822	10.5
Dec. 1939 ³	8,006	9.1
Nov. 1949	28,434	15.0
June 1954	15,359	7.8
March 1976	40,450	10.3

¹ Based on civilian labor force.

² Data limited to city of Honolulu. Excludes persons on public emergency work; inclusion of this group would raise the unemployment rate to 12.4 percent.

³ Data limited to Oahu. Excludes persons on public emergency work; their inclusion would raise the unemployment rate to 10.6 percent.

Source: Robert C. Schmitt, "Unemployment Rates in Hawaii During the 1930's," *The Hawaiian Journal of History*, Vol. 10 (1976), pp. 90-101; Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), pp. 1-2.

Table 187.—EMPLOYMENT STATUS: ANNUAL AVERAGES, 1970 TO 1977

Year and area	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	383,900	352,050	31,850	8.3
1976	397,000	358,000	39,000	9.8
1977	405,000	375,000	30,000	7.4
ISLANDS: 1976				
Oahu	314,450	284,250	30,200	9.6
Hawaii	35,900	31,850	4,100	11.4
Kauai and Niihau	17,200	15,600	1,600	9.4
Maui County	29,450	26,350	3,100	10.5
Lanai	1,650	1,400	200	13.1
Maui	24,800	22,350	2,450	9.9
Molokai	3,000	2,550	450	14.5
ISLANDS: 1977				
Oahu	319,900	296,700	23,200	7.3
Hawaii	36,600	33,250	3,350	9.2
Kauai and Niihau	17,850	16,700	1,150	6.5
Maui County	30,650	28,400	2,300	7.4
Lanai	1,650	1,500	150	8.1
Maui	25,950	24,100	1,850	7.1
Molokai	3,100	2,750	300	10.3

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), pp. 1-16.

Table 188.—LABOR FORCE CHARACTERISTICS: 1970

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

Table 188.—LABOR FORCE CHARACTERISTICS: 1970 (Continued)

Subject	State total	Sex		Island	
		Male	Female	Oahu	Other
CLASS OF WORKER					
Private wage and salary workers	200,912	118,527	82,385	158,958	41,954
Federal government workers	31,391	22,044	9,347	30,005	1,386
State government workers	28,699	11,596	17,103	23,369	5,330
Local government workers	10,457	7,746	2,711	7,452	3,005
Self-employed workers	12,832	8,798	4,034	9,577	3,255
Unpaid family workers	1,265	229	1,036	891	374

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

Table 189.—LABOR FORCE CHARACTERISTICS, BY COUNTY: 1970

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

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

Table 190.—JOB COUNT, BY INDUSTRY: ANNUAL AVERAGES, 1972 TO 1977

Industry	1972	1973	1974	1975	1976	1977
Nonagriculture, wage and salary ..	312,700	327,500	335,900	342,800	349,200	357,050
Contract construction	23,600	26,650	27,900	26,350	21,400	19,600
Manufacturing	24,900	23,800	22,700	23,650	23,400	23,350
Durable goods	4,550	4,600	4,700	4,800	4,550	4,550
Nondurable goods	20,350	19,250	18,000	18,850	18,800	18,800
Food processing	12,550	11,250	10,050	11,250	11,300	11,350
Sugar	4,450	4,150	3,700	4,450	4,350	3,950
Pineapple	4,250	3,350	2,550	3,800	2,850	3,050
Other	3,800	3,750	3,850	4,000	4,050	4,350
Textile, apparel	3,550	3,650	3,750	3,400	3,300	3,200
Printing, publishing	2,800	2,800	2,700	2,650	2,700	2,700
Other nondurables	1,450	1,500	1,500	1,550	1,550	1,550
Transp., commun., utilities	24,800	25,600	26,300	26,400	27,100	28,200
Transportation	14,800	16,100	17,200	17,450	18,200	19,150
Communication	7,350	6,800	6,400	6,400	6,400	6,500
Utilities	2,650	2,750	2,700	2,600	2,500	2,550
Trade	75,250	80,450	82,150	83,750	87,900	90,850
Wholesale	15,150	15,350	15,650	15,850	16,050	16,450
Retail	60,100	65,150	66,500	67,900	71,800	74,450
Finance, insur., real estate	20,200	22,600	24,000	24,250	24,700	24,550
Services and miscellaneous	64,550	70,350	73,950	76,400	79,900	84,750
Hotels	17,600	18,950	19,450	19,950	20,900	22,500
Other services, misc.	47,000	51,400	54,500	56,500	59,000	62,300
Government	79,400	78,050	78,900	82,000	84,800	85,700
Federal	32,700	31,650	31,000	30,550	29,850	29,300
Air Force	3,400	3,300	3,300	3,300	3,200	3,050
Army	6,000	6,050	5,700	5,300	4,950	4,750
Navy	11,800	11,250	11,200	11,100	11,050	11,200
Other	11,500	11,050	10,800	10,850	10,600	10,250
State	35,300	35,250	35,950	38,700	41,350	42,650
Local	11,450	11,150	11,950	12,750	13,600	13,800
Agriculture, wage and salary	11,200	10,750	10,200	11,050	11,050	10,600
Sugar	5,550	5,550	4,450	5,200	5,050	4,550
Pineapple	2,950	2,600	2,300	2,300	2,200	2,250
Other	2,700	2,600	3,400	3,550	3,800	3,800
Nonagric., self-employed ¹	21,300	21,500	21,650	22,050	22,050	22,850
Agric., self-employed ²	4,600	4,600	4,700	4,800	4,450	4,200
Labor disputes	150	700	2,200	200	250	800

Footnotes and source follow next table.

Table 191.—JOB COUNT, BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1977

Industry	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County			
					Total	Lanai	Maui	Molo-kai
Nonagriculture, wage and salary	357,050	296,800	25,450	12,850	21,950	250	20,550	1,150
Contract construction	19,600	16,250	1,350	550	1,450	—	1,350	100
Manufacturing	23,350	17,350	2,750	1,200	2,050	(Z)	2,050	(Z)
Durable goods	4,550	4,000	250	(Z)	300	(NS)	(NS)	(NS)
Nondurable goods	18,800	13,350	2,500	1,150	1,750	(NS)	(NS)	(NS)
Food processing	11,350	6,650	2,050	1,050	1,550	(NS)	(NS)	(NS)
Sugar	3,950	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Pineapple	3,050	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Other	4,350	3,350	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Textile, apparel	3,200	3,050	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Printing, publishing	2,700	2,400	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Other nondurables	1,550	1,250	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Transp., commun., utilities ..	28,200	23,300	1,900	1,550	1,450	(Z)	1,300	100
Transportation	19,150	16,150	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Communication	6,500	5,300	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Utilities	2,550	1,850	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Trade	90,850	76,200	6,050	3,050	5,550	50	5,350	150
Wholesale	16,450	14,550	1,050	300	500	—	500	—
Retail	74,450	61,650	5,000	2,750	5,050	50	4,850	150
Finance, insur., real estate ..	24,550	21,750	950	650	1,200	(Z)	1,150	(Z)
Services and miscellaneous ..	84,750	68,950	6,350	3,250	6,200	(Z)	5,850	350
Hotels	22,500	14,400	3,200	1,550	3,300	(Z)	3,050	250
Other services, misc.	62,300	54,550	3,150	1,700	2,900	(Z)	2,800	100
Government	85,700	73,000	6,050	2,600	4,050	100	3,500	400
Federal	29,300	28,400	450	250	250	(Z)	200	(Z)
Air Force	3,050	2,950	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Army	4,750	4,700	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Navy	11,200	11,150	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Other	10,250	9,600	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
State	42,650	35,550	3,900	1,550	2,650	100	2,300	250
Local	13,800	10,050	1,750	800	1,150	(Z)	1,000	150
Agriculture, wage and salary ..	10,600	2,700	3,300	1,500	3,100	650	2,100	350
Sugar	4,550	750	1,350	1,250	1,150	(NS)	(NS)	(NS)
Pineapple	2,250	900	—	—	1,400	(NS)	(NS)	(NS)
Other	3,800	1,100	1,950	200	550	(NS)	(NS)	(NS)
Nonagric., self-employed	22,850	17,150	2,400	1,050	2,200	100	1,900	200
Agric., self-employed ²	4,200	1,000	2,400	350	450	—	400	(Z)
Labor disputes	800	400	150	150	150	—	150	—

Z Fewer than 25.

NS Not shown separately.

¹ Includes unpaid family workers and domestics.

² Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), pp. 17-76, as corrected.

Table 192.—EMPLOYING UNITS, 1975, AND EMPLOYEES, 1964 AND 1975, BY PLACE OF WORK

Census tract of employment	Employing units, 1975	Employees		
		1964	1975	Percent change
State total ¹	26,315	210,698	308,587	46.5
Oahu	14,809	169,396	250,934	48.1
1-3	269	1,021	2,054	101.2
4-7	293	2,252	3,277	45.5
8-12	252	1,786	2,406	34.7
13-17	351	3,054	3,259	6.7
18	131	1,113	2,301	106.7
19	492	5,931	13,442	126.6
20	485	3,673	8,686	136.5
21, 22	140	1,133	1,565	38.1
23-25	256	1,827	2,599	42.3
26-29	368	6,398	9,855	54.0
30-35	725	4,928	8,325	68.9
36	838	4,992	8,747	75.2
37	810	9,891	16,131	63.1
38	887	10,613	14,194	33.7
39	300	7,143	10,210	42.9
40	1,968	13,730	27,863	102.9
41-43	357	4,764	6,442	35.2
44-46	100	650	778	19.7
47-50	203	2,903	5,098	75.6
51, 52	432	2,804	4,187	49.3
53-59	1,171	21,154	17,873	-15.5
60, 61	178	1,501	2,369	57.8
62-68	544	6,854	12,469	81.9
69-71	54	492	6,046	1,128.9
72	410	11,018	13,119	19.1
73, 74	60	9,956	10,008	0.5
75-78	270	1,950	4,819	149.1
79-81	185	1,247	2,418	93.9
84-86	159	3,243	2,468	-23.9
83, 87, 88	307	2,209	4,338	96.4
89	230	277	3,907	1,310.5
90-95	303	7,960	3,873	-51.3
96-98	175	1,554	1,756	13.0
99, 100	96	1,191	1,832	53.8
101, 102	114	1,164	1,945	67.1

**Table 192.— EMPLOYING UNITS, 1975, AND EMPLOYEES, 1964 AND 1975,
BY PLACE OF WORK — Con.**

Census tract of employment	Employing units 1975	Employees		
		1964	1975	Percent change
Oahu, con.:				
103-106	298	2,192	3,478	58.7
107-113	598	4,828	6,797	40.8
Hawaii County ¹	5,449	15,653	25,778	64.7
201-209	3,147	9,118	14,606	60.2
210, 211	232	769	1,440	87.3
212	68	1,032	978	-5.2
213, 214	456	646	1,014	57.0
215, 216	801	714	3,533	394.8
217	319	477	1,548	224.5
218	132	934	629	-32.7
219, 220 ¹	255	1,329	1,394	4.9
221	39	634	636	0.3
Maui County	2,886	15,804	19,963	26.3
301	50	237	216	-8.9
302-305	308	3,309	896	-72.9
306-313	1,652	6,975	11,597	66.3
314, 315	550	2,039	5,397	164.7
316	81	1,642	566	-65.5
317-319	245	1,602	1,291	-19.4
Kauai County	3,171	9,845	11,912	21.0
401	109	434	268	-38.2
402, 403	630	913	1,786	95.6
404, 405	1,406	4,588	5,934	29.3
406, 407	449	1,582	1,462	-7.6
408-410	577	2,328	2,462	5.8

¹ Data for 1975 on employing units and employees exclude wholesale trade in census tracts 219 and 220 (Hamakua), withheld to avoid disclosure of figures for individual establishments. The 1975 State and Hawaii County totals shown here have been revised from those given in the source.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Distribution by Employer Site and Industry Category, State of Hawaii* (c. 1977), pp. 19 and 96-152.

**Table 193.—NON-GOVERNMENTAL EMPLOYMENT AND PAYROLLS COVERED BY
THE HAWAII EMPLOYMENT SECURITY LAW: 1966 TO 1976**

[Excludes governmental, self-employed, and unpaid family workers, agricultural workers insured under the self-financed program, and certain other groups.]

Year	Total covered private employment			Non-agricultural private employment		
	Total covered employment	Total wages (\$1,000)	Average annual wages (\$)	Covered employment	Total wages (\$1,000)	Average annual wages (\$)
1966	169,206	881,783	5,211	157,557	821,269	5,213
1967	175,202	948,425	5,413	163,041	885,410	5,431
1968	185,551	1,088,657	5,867	174,144	1,026,294	5,893
1969	205,053	1,311,655	6,397	193,817	1,246,449	6,431
1970	221,457	1,518,727	6,858	217,422	1,495,653	6,879
1971	225,562	1,588,451	7,042	221,646	1,565,091	7,061
1972	231,264	1,707,639	7,384	227,370	1,683,568	7,405
1973	246,441	1,936,169	7,857	241,540	1,902,329	7,876
1974	252,327	2,129,359	8,439	252,078	2,127,299	8,439
1975	255,880	2,320,364	9,068	255,642	2,318,683	9,070
1976	258,304	2,468,794	9,557	258,041	2,465,918	9,556

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

Table 194.—EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1976

Industry	Number of employers, December	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
All industries	17,130	356,217	3,685,818	10,347
Government	6	84,811	1,084,029	12,782
Federal	1	29,832	459,554	15,405
State	1	41,368	469,577	11,351
County	4	13,611	154,898	11,380
Private	17,124	271,406	2,601,789	9,586
Agriculture, forestry, fisheries	557	11,109	108,039	9,725
Sugar	17	5,329	61,027	11,452
Pineapple	6	2,238	20,070	8,968
Other	534	3,542	26,942	7,607
Mining and contract construction	1,602	21,391	336,719	15,741
Manufacturing	720	23,575	251,029	10,648
Sugar mills	17	3,950	51,835	13,123
Pineapple canning	3	3,438	24,488	7,123
Other food processing	169	4,099	41,247	10,003
Other manufacturing	531	12,088	133,459	11,041
Transportation	645	18,236	231,785	12,710
Communications	64	6,388	91,142	14,268
Utilities	49	2,520	37,313	14,807
Wholesale trade: Durable	774	8,695	109,843	12,633
Non-durable	776	7,372	79,893	10,837
Retail trade	4,155	71,807	468,706	6,527
Eating and drinking places	1,337	26,678	128,339	4,811
Other retail trade	2,818	45,129	340,367	7,542
Finance, insurance, real estate	1,996	22,676	244,473	10,781
Services	5,714	77,303	640,599	8,287
Hotels, rooming houses	193	21,130	155,123	7,341
Medical and other health services	1,011	13,188	146,018	11,072
Other services	4,510	42,985	339,458	7,897
Nonclassifiable establishments	72	334	2,248	6,730

Source follows next table.

Table 195.—EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES OR ISLANDS: 1976

Island or county	Including government		Excluding government			
	Number of employers, Dec.	Average employment	Number of employers, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
State total	17,130	356,217	17,124	271,406	2,601,789	9,586
Oahu	13,518	292,756	13,515	220,117	2,146,998	9,754
Hawaii County	1,619	27,116	1,616	21,331	192,786	9,038
Maui County	1,319	23,325	1,316	19,491	172,267	8,838
Kauai County	680	13,020	677	10,468	89,738	8,573

Source: Hawaii State Department of Labor and Industrial Relations, *1976 Employment and Payrolls in Hawaii* (September 1977).

Table 196.—HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1967 TO 1977

Industry ¹	Ave. weekly earnings (dollars)			Average weekly hours			Ave. hourly earnings (dollars)		
	1967	1976	1977	1967	1976	1977	1967	1976	1977
Construction	164.21	318.56	352.36	36.9	36.2	35.7	4.45	8.80	9.87
Manufacturing	100.35	200.46	209.38	39.2	39.0	38.0	2.56	5.14	5.51
Food processing	94.62	189.12	188.33	39.1	39.4	38.2	2.42	4.80	4.93
Textile and apparel	71.13	113.96	111.78	39.3	37.0	35.6	1.81	3.08	3.14
Printing and publishing	132.06	257.56	268.76	37.2	34.9	34.5	3.55	7.38	7.79
Communication, utilities	145.51	288.58	311.28	42.3	42.5	42.7	3.44	6.79	7.29
Trade ²	78.54	138.60	147.74	34.0	33.0	33.2	2.31	4.20	4.45
Wholesale	102.54	196.60	207.59	37.7	38.1	38.3	2.72	5.16	5.42
Retail ²	68.04	119.25	128.93	32.4	31.3	31.6	2.10	3.81	4.08
Finance, insur., real estate ...	91.32	164.10	164.11	...	...	...	...	...	...
Hotels	73.58	128.61	137.38	33.6	31.6	31.8	2.19	4.07	4.32
Laundries	61.22	105.95	110.66	37.1	35.2	34.8	1.65	3.01	3.18

¹ Data for 1967 based on 1967 Standard Industrial Classification (SIC) code; data for 1976 and 1977 based on 1972 SIC.

² Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), pp. 79, 82, and 85, and records.

Table 197.—AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS: 1972 AND 1977

[In dollars]

Job classification	Total employment ¹		Private employment, by island: 1977				
	1972	1977	State average	Kauai	Oahu	Maui	Hawaii
MONTHLY RATES							
Junior typist	436	615	614	...	610	...	659
Clerk-stenographer	557	801	755	...	734	979	848
Secretary	612	906	832	863	830	826	841
Accountant (entry level)	682	942	950	...	947	...	...
Drafting technician	602	897	969	...	...	...	...
Civil engineer (entry level)	776	1,039	...	...	...	...	...
Hospital attendant	410	639	632	622	638	567	...
Staff nurse	749	1,100	1,074	1,001	1,076	1,008	...
HOURLY RATES							
Housekeeper .....	...	3.537	3.537	3.541	3.543	3.498	3.539
Cook, general	3.715	5.476	5.406	5.488	5.328	5.606	5.612
Waiter/waitress	1.905	2.446	2.436	2.442	2.435	2.429	2.456
Laborer (light)	2.696	4.322	4.328	4.108	4.628	4.238	4.006
Carpenter (maintenance)	4.506	7.035	6.163	6.238	6.258	5.984	5.764
Electrician (maintenance)	5.215	8.546	7.257	5.980	7.778	6.194	6.438
Automotive mechanic	4.578	6.792	6.596	6.034	7.182	6.050	6.090
Truck driver (1½-5 tons)	3.768	5.782	5.299	4.658	5.652	4.878	4.682

¹ Statewide average for both private and government employment.
Source: Hawaii Employers Council, *Pay Rates in Hawaii* (annual).

**Table 198.—LABOR TURNOVER RATES FOR MANUFACTURING
(EXCEPT PINEAPPLE CANNING): 1961 TO 1977**

Year	Annual accession rates ¹		Annual separation rates ²		
	Total	New hires	Total	Quits	Layoffs
1961	2.5	2.0	2.7	1.4	0.8
1962	2.9	1.6	3.3	1.1	1.4
1963	3.0	1.8	3.2	1.1	1.1
1964	3.5	2.2	3.3	1.3	0.8
1965	3.1	2.2	2.9	1.3	0.5
1966	2.8	2.0	2.9	1.5	0.4
1967	2.7	1.9	2.7	1.2	0.5
1968	3.4	2.4	3.0	1.5	0.4
1969	3.5	2.9	3.1	1.9	0.2
1970	2.8	2.1	3.2	1.6	0.7
1971	2.2	1.5	2.3	1.1	0.5
1972 ³	2.2	1.8	2.4	1.2	0.4
1973	2.5	2.1	2.4	1.4	0.3
1974	2.3	1.8	2.3	1.2	0.5
1975	2.2	1.6	2.2	1.0	0.6
1976	2.4	1.3	2.5	0.8	1.0
1977	2.5	1.5	2.4	0.9	0.7

¹ Number of additions per 100 employees.

² Number of terminations per 100 employees.

³ Rates for 1972 and later years based on 1972 SIC codes.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), pp. 95 and 96, and records.

Table 199.—INTERSTATE MOVEMENT OF JOB-SEEKERS: 1970 TO 1977

Year	Island workers on the Mainland ¹	Mainland workers in Hawaii ²	Ratio ³
1970	5,078	6,062	119
1971 ⁴	6,215	6,908	111
1972 ¹	6,124	5,994	98
1973	5,255	6,116	116
1974	5,924	6,988	118
1975	7,607	8,785	115
1976	7,458	8,334	112
1977	5,846	8,154	139

¹ Interstate liable initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland.

² Interstate agent initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

³ Interstate agent initial claims as a percent of interstate liable initial claims. Ratios under 100 suggest a net out-migration of workers.

⁴ Excludes extended claims, authorized for the period from October 1971 to December 1972. Including extended (as well as regular) claims, interstate liable claims numbered 6,386 in 1971 and 7,255 in 1972; interstate agent claims, 6,950 in 1971 and 6,368 in 1972.

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

Table 200.—CHILD LABOR CERTIFICATES ISSUED: 1977

Age	Both sexes	Male	Female
18 years old and under	14,753	8,213	6,540
13 years old and under	248	116	132
14 and 15 years old	2,062	1,255	807
16 to 18 years old	12,443	6,842	5,601

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

Table 201.—INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1970 TO 1976

Year	Accidents		Deaths		Insurance payments (\$1,000)
	Number	Rate ¹	Number	Rate ²	
1970	37,405	68.56	40	5.2	12,528
1971	34,561	61.62	21	2.6	16,665
1972	34,901	59.93	45	5.5	18,773
1973	36,277	59.06	61	7.3	19,548
1974	37,646	60.47	72	8.5	18,341
1975	40,435	(NA)	59	6.8	22,503
1976	38,721	(NA)	39	(NA)	27,760

NA Not available.

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

² Accidental deaths per 100,000 total resident population.

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

Table 202.—MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1964 TO 1974

Year	Total unions and associations	Labor unions				Professional and State employee associations
		Total	Affiliated with AFL-CIO	Unaffiliated		
				National	Local unions	
1964	(NA)	49,000	24,000	24,000	(NA)	(NA)
1966	(NA)	62,000	31,000	25,000	7,000	(NA)
1968	77,000	70,000	36,000	27,000	7,000	7,000
1970	89,000	82,000	45,000	30,000	7,000	8,000
1972	123,000	115,000	78,000	30,000	7,000	9,000
1974	129,000	121,000	84,000	29,000	7,000	8,000

NA Not available.

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

Table 203.—MEMBERSHIP IN LABOR UNIONS, BY COUNTY: 1973

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

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

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

Table 204.—WORK STOPPAGES: 1960 TO 1976

[Estimated by U.S. Bureau of Labor Statistics.]

Year	Number of stoppages begun in year	Workers involved ¹	Man-days idle during year	Percent of estimated non-agricultural working time
1960	32	5,000	16,000	(NA)
1961	33	22,000	47,000	(NA)
1962	34	4,000	71,000	0.19
1963	27	23,000	176,000	0.47
1964	26	3,000	8,000	0.02
1965	24	8,000	45,000	0.11
1966	28	5,000	44,000	0.10
1967	40	11,000	87,000	0.20
1968	14	8,000	252,000	0.32
1969	26	18,000	205,000	0.03
1970	22	6,800	152,700	0.26
1971	21	3,700	32,200	0.05
1972	21	9,300	73,700	0.12
1973	11	9,600	97,100	0.12
1974	24	17,900	462,700	0.55
1975	13	1,900	32,400	0.04
1976	20	3,000	35,300	0.04
ISLANDS: 1976				
Oahu	19	2,900	33,500	(NA)
Others	1	100	1,800	(NA)

NA Not available.

¹ Workers counted more than once if involved in more than one stoppage during year.Source: U.S. Bureau of Labor Statistics data summarized in *Statistical Abstract of the United States* (annual); U.S. Bureau of Labor Statistics *Work Stoppages* . . . (annual reports), and records.**Table 205.—STRIKES AND WORK STOPPAGES: 1970 TO 1977**

[Estimated by Hawaii Employers Council]

Calendar year	Number of stoppages	Man-days lost	
		Total	Percent of available working time
1970	22	144,763	0.26
1971	23	34,496	.05
1972	27	42,106	(NA)
1973	20	134,976	(NA)
1974	23	472,916	(NA)
1975	16	44,179	(NA)
1976	22	46,363	(NA)
1977	11	203,874	(NA)

NA Not available

Source: Hawaii Employers Council, "Strikes and Work Stoppages in Hawaii — 1945 to 1973," *Research Report*, No. 1255 (October 1974), and unpublished estimates by the Hawaii Employers Council for 1974-1977.

Section 12

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 gross state product, industrial income, personal income, family income, poverty, personal wealth, and family expenditures. Data on workers' earnings and payrolls appear in Section 11; on taxable income, in Section 8.

Gross state product in 1976 amounted to approximately \$7.4 billion, or about triple the 1965 total. The major sources of income to Hawaii in 1977 were defense expenditures (\$1.09 billion), pineapple production (\$162 million), sugar production (\$227 million), and visitor expenditures (\$1.8 billion). Personal income in 1977 was \$6.8 billion, compared with \$2.5 billion only ten years earlier, and per capita personal income was \$7,681, more than twice the 1967 level. The per capita figure for Hawaii exceeded the national average by 9 percent, and thus failed to compensate for the Islands' 21-27 percent higher cost of living. The median annual income of families, based on data for 1975, was \$18,228 on Oahu, \$15,923 on the Neighbor Islands, and \$17,770 Statewide; for unrelated individuals, the all-island median was \$6,180. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in May 1978 at \$7,130. Top wealthholders in Hawaii — those with gross assets of \$60,000 or more — numbered 11,323 in 1962 and 53,700 in 1972. Total assets of this group in the latter year amounted to \$7.9 billion, 40 percent of which was in real estate. The most recent family expenditure survey, taken in 1972 and 1973, reported that the largest items in the family budget on Oahu were housing (accounting for 33.8 percent of spending for current consumption), food (20.4 percent) and transportation (19.1 percent).

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, Community Services Administration, Internal Revenue Service, Hawaii State Department of Agriculture, Hawaii State Department of Planning and Economic Development, Hawaii Visitors Bureau, Bank of Hawaii and First Hawaiian Bank. Comparable data for the country as a whole are given in *Statistical Abstract of the United States: 1977*, Section 14.

Table 206.—DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1967 TO 1977

[In millions of dollars]

Year	Total for four major industries	Value of sales		Defense expenditures	Visitor expenditures ¹
		Raw sugar and molasses	Fresh and processed pineapple		
1967	1,255	180.3	133.3	561.4	380
1968	1,331	189.1	127.5	574.6	440
1969	1,480	179.0	125.4	625.9	550
1970	1,561	187.8	138.6	639.4	595
1971	1,758	202.9	141.4	708.8	705
1972	1,914	184.7	145.4	744.2	840
1973	2,226	222.2	142.4	840.9	1,020
1974	2,927	676.6	127.1	897.9	1,225
1975	2,846	366.1	136.7	982.8	1,360
1976	3,076	257.0	144.5	1,034.2	1,640
1977	3,320	226.8	161.6	1,086.6	1,845

¹ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews. Data for 1969-1976 are revisions.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual) and records; First Hawaiian Bank, Research and Planning Division, records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, *1977 Annual Research Report*, table 1, as revised.

**Table 207.—GROSS STATE PRODUCT AND PER CAPITA
GROSS STATE PRODUCT: 1958 TO 1976**

Year	Gross state product (millions of dollars)		Per capita gross state product (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,412.3	2,170.3	2,333	3,585
1959	1,588.2	2,383.6	2,553	3,832
1960	1,800.9	2,651.9	2,807	4,134
1961	1,878.9	2,681.7	2,852	4,071
1962	1,971.0	2,774.6	2,884	4,059
1963	2,059.8	2,754.5	3,019	4,038
1964	2,245.9	3,000.3	3,209	4,287
1965	2,489.9	3,314.3	3,538	4,709
1966	2,802.3	3,604.7	3,945	5,075
1967	3,013.1	3,742.7	4,170	5,180
1968	3,350.7	3,983.2	4,562	5,423
1969	3,742.5	4,173.2	4,989	5,563
1970	4,164.7	4,495.4	5,379	5,807
1971	4,460.6	4,616.9	5,590	5,786
1972	4,935.4	4,935.4	6,012	6,012
1973	5,699.9	5,544.6	6,753	6,569
1974	6,318.7	5,661.5	7,398	6,629
1975	6,908.8	5,812.0	7,956	6,693
1976 ¹	7,378.6	(NA)	8,351	(NA)

NA Not available.

¹ Preliminary.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Income and Expenditure Accounts: 1958 to 1976*, Vol. 1.

Table 208.—CHARGES AGAINST GROSS STATE PRODUCT: 1960 TO 1976
 [In millions of current dollars.]

Subject	1960	1965	1970	1976 ¹
Compensation of employees	1,146.2	1,647.7	2,916.1	4,893.6
Wage and salary disbursements	1,073.9	1,523.5	2,644.7	4,289.9
Employers' contributions to social insurance	45.7	76.5	154.7	324.1
State and local	12.4	25.2	41.7	100.4
Federal	33.3	51.3	113.0	223.7
Other labor income	26.6	47.7	116.7	279.6
Proprietors' income	129.3	151.2	192.8	256.0
Rental income of persons	58.0	75.6	95.6	97.1
Corporate profits	195.4	183.5	171.1	438.8
Corporate profits tax	45.6	63.3	80.4	144.6
State and local	5.7	8.6	13.7	32.9
Federal	39.9	54.7	66.7	111.7
Dividends	49.1	70.4	94.7	146.6
Undistributed profits after taxes	100.7	49.8	- 4.0	147.6
Net interest	66.4	118.0	238.3	544.0
Business transfer payments	5.2	8.9	15.5	29.5
Indirect business tax and nontax less subsidies	125.1	166.7	304.0	547.6
Capital consumption allowances	75.3	138.3	231.3	572.0
Charges against gross state product	1,800.9	2,489.9	4,164.7	7,378.6

¹ Preliminary.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Income and Expenditure Accounts: 1958 to 1976*, Vol. I.

Table 209.—EXPENDITURES ON GROSS STATE PRODUCT: 1960 TO 1976
[In millions of current dollars.]

Subject	1960	1965	1970	1976
Net personal consumption expenditures	1,032.6	1,466.3	2,430.4	3,900.5
Gross private domestic investments	283.9	486.6	882.4	1,095.0
Fixed investment	269.8	428.9	849.4	1,004.9
Nonresidential structures & equipment	167.5	262.7	542.2	664.2
Residential	102.3	166.2	307.2	340.7
Change in business inventories	14.1	57.7	33.0	90.1
Government purchase of goods & services	643.0	912.0	1,531.3	2,587.4
State and local	220.6	371.9	758.9	1,366.8
Federal	422.4	540.1	772.4	1,220.6
Net exports	-261.5	- 328.0	- 753.4	(NA)
Exports	513.8	730.3	1,240.8	(NA)
Less imports	775.3	1,058.3	1,994.2	(NA)
Errors and omissions	102.9	- 47.0	74.0	(NA)
Expenditures on gross state product	1,800.9	2,489.9	4,164.7	7,378.6

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Income and Expenditure Accounts: 1958 to 1976*, Vol. I.

Table 210.—ESTIMATED PERSONAL CONSUMPTION EXPENDITURES: 1960 TO 1975
[In millions of current dollars.]

Consumption item	1960	1965	1970	1975
Total	1,106.6	1,600.3	2,827.0	4,637.0
Food and tobacco	338.4	472.3	782.8	1,204.2
Clothing, accessories and jewelry	94.2	140.7	284.9	500.0
Personal care	18.5	26.7	38.2	64.1
Housing	185.5	273.1	410.9	672.4
Household operation	126.4	190.7	348.0	597.5
Medical care expenses	53.6	87.0	166.8	316.3
Personal business	47.6	79.4	143.8	236.8
Transportation	149.3	187.0	354.1	534.2
Recreation	67.2	107.0	235.8	412.3
Private education and research	10.6	15.8	24.9	42.4
Religious and welfare activities	15.2	20.5	36.8	56.7

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Income and Expenditure Accounts: 1958 to 1976*, Vol. I.

**Table 211.—TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME:
1967 TO 1977**

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1967	2,452	2,080	3,447	2,938	108	106
1968	2,727	2,292	3,796	3,188	110	107
1969	3,099	2,543	4,170	3,423	114	108
1970	3,509	2,912	4,599	3,822	118	113
1971	3,758	3,165	4,785	4,042	116	111
1972	4,110	3,393	5,078	4,215	113	109
1973	4,620	3,817	5,564	4,612	112	107
1974	5,173	4,185	6,134	4,962	113	106
1975	5,739	4,768	6,708	5,595	114	110
1976	6,252	5,089	7,183	5,813	112	105
1977	6,773	(NA)	7,677	(NA)	109	(NA)

NA Not available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, April 1977 (p. 22), printouts received January 16, 1978 and July 24, 1978, letter dated October 7, 1976, and News Release BEA 78-70.

Table 212.—PERSONAL INCOME BY MAJOR SOURCES: 1971 TO 1976
 [In millions of dollars]

Item	1971	1972	1973	1974	1975	1976
Labor and proprietors income						
By type:						
Wage and salary disbursements	2,799	3,029	3,375	3,691	4,011	4,289
Other labor income	132	148	173	193	242	280
Proprietors income	191	217	264	288	240	256
Farm	15	16	26	65	37	27
Nonfarm	176	201	238	222	203	229
By industry:						
Farm	99	102	134	171	151	155
Nonfarm	3,022	3,292	3,678	4,001	4,342	4,670
Private	1,957	2,142	2,434	2,633	2,858	3,074
Government and govt. enterprises ...	1,065	1,150	1,244	1,368	1,484	1,596
Federal, civilian	370	388	402	438	475	511
Federal, military	305	359	418	465	482	494
State and local	390	402	424	465	527	591
Derivation of personal income						
Labor and proprietors income	3,122	3,394	3,812	4,172	4,493	4,825
Less: Personal contributions for						
social insurance	156	169	206	230	248	266
Net labor and proprietors income	2,966	3,225	3,606	3,942	4,245	4,559
Plus: Dividends, interest, and rent	464	498	563	684	747	828
Plus: Transfer payment	328	387	450	548	700	811
Personal income	3,758	4,110	4,620	5,173	5,692	6,198

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated July 1978.

Table 213.—PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1969 TO 1976

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
Total: ¹						
1969	3,098.6	2,633.7	464.9	207.3	101.2	156.5
1970	3,508.7	2,981.5	527.2	240.5	109.5	177.1
1971	3,757.8	3,186.7	571.1	261.1	118.3	191.6
1972	4,110.1	3,493.7	616.4	283.2	124.5	208.7
1973	4,619.5	3,910.1	709.4	326.3	142.3	240.8
1974	5,173.5	4,342.9	830.6	371.5	172.6	286.4
1975	5,691.6	4,765.3	926.3	418.4	179.9	327.9
1976	6,197.6	5,180.8	1,016.8	445.2	197.5	374.1
Per capita: ²						
1969	4,170	4,365	3,331	3,285	3,368	3,371
1970	4,599	4,780	3,788	3,785	3,698	3,851
1971	4,785	4,996	3,872	3,836	3,815	3,960
1972	5,078	5,310	4,070	4,103	3,943	4,104
1973	5,564	5,799	4,548	4,544	4,419	4,634
1974	6,134	6,323	5,304	5,146	5,394	5,467
1975	6,652	6,877	5,693	5,579	5,519	5,952
1976	7,079	7,325	6,045	5,812	5,791	6,507

¹ In millions of dollars.

² In dollars.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated July 1978.

**Table 214.—TOTAL MONEY INCOME IN 1975 OF FAMILIES AND UNRELATED INDIVIDUALS,
BY GEOGRAPHIC AREA, AND PERSONS, BY SEX: SPRING 1976**
[Numbers of families, unrelated individuals, and persons in thousands.]

Total money income in 1975	Families			Unrelated individuals			Persons ¹	
	State total	Oahu	Other islands	State total	Oahu	Other islands	Male	Female
All income levels	201	160	41	66	52	14	296	236
Under \$2,000 ²	4	3	1	9	6	3	37	67
\$2,000 to \$3,999	7	5	1	15	10	5	34	50
\$4,000 to \$5,999	12	9	2	9	7	1	27	38
\$6,000 to \$7,999	13	10	3	8	7	1	30	32
\$8,000 to \$9,999	12	10	3	8	7	1	29	20
\$10,000 to \$11,999	15	11	4	5	4	1	26	12
\$12,000 to \$14,999	21	15	5	4	4	—	36	9
\$15,000 to \$19,999	33	25	8	5	4	1	38	6
\$20,000 to \$24,999	30	24	6	2	2	—	19	2
\$25,000 to \$49,999	50	42	8	2	1	—	} 21	2
\$50,000 and over	5	5	1	—	—	—		
Median income ³ dollars	17,770	18,228	15,923	6,180	6,815	3,432	9,489	4,082
Mean income dollars	19,789	20,218	18,119	7,950	8,577	5,581	11,282	5,182

¹ Reported for persons in households, 14 years old and over as of Spring 1976, with income in 1975. Persons 14 years old and over as of Spring 1976 but without income in 1975 numbered approximately 107,000 (27,000 males and 80,000 females).

² For persons, refers to incomes of \$1 to \$1,999 or less.

³ Corresponding medians for 1969 income, reported by the 1970 census, were as follows: for families, \$11,554 Statewide, \$12,035 on Oahu, and \$9,756 on the other islands; for unrelated individuals, \$2,981 Statewide, \$3,013 on Oahu, and \$2,702 on the other islands; for persons, \$6,528 for males and \$3,222 for females.

Source: U.S. Bureau of the Census, "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," *Current Population Reports, Consumer Income*, Series P-60, No. 113 (July 1978), pp. 175-177.

Table 215.—TOTAL MONEY INCOME IN 1975 OF HOUSEHOLDS: SPRING 1976
 [Number of households in thousands]

Total money income	All households					Husband -wife house- holds
	Total	Island of residence		Tenure ¹		
		Oahu	Others	Owner occupants	Renter occupants	
Total	244	194	50	127	105	169
Under \$5,000	30	21	9	8	20	7
\$5,000 to \$9,999	41	34	8	10	28	22
\$10,000 to \$14,999	43	33	10	17	22	31
\$15,000 to \$19,999	40	31	9	22	16	31
\$20,000 to \$24,999	33	26	7	21	11	28
\$25,000 to \$29,999	21	18	3	17	3	19
\$30,000 to \$49,999	31	26	5	27	3	27
\$50,000 and over	6	5	1	4	1	5
Median income ² dollars	15,991	16,468	14,309	21,295	10,858	18,911
Mean income dollars	18,354	18,869	16,347	23,342	12,881	21,151
Mean size of household	3.45	3.46	3.39	3.81	3.03	3.99
Per capita income dollars	5,321	5,447	4,821	6,126	4,257	5,301

¹ Occupiers who paid no cash rent not shown separately.

² The median 1969 income of households surveyed in April 1970 was \$10,675 for the State and \$11,171 for Oahu.

Source: U.S. Bureau of the Census, "Household Money Income in 1975, by Housing Tenure and Residence for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," *Current Population Reports, Consumer Income*, Series P-60, No. 108 (November 1977), p. 145.

Table 216.—MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN: 1965 TO 1975
[Includes nontaxable returns.]

Year received	All returns	Single returns	Joint returns
1965	5,184	2,118	8,307
1966	5,559	2,418	9,017
1967	5,860	2,646	9,575
1968	6,180	2,595	10,618
1969	6,534	2,623	11,581
1970	7,018	2,969	12,358
1971	7,366	2,962	12,685
1972	7,462	3,284	13,515
1973	7,680	3,262	14,114
1974	7,844	3,774	15,319
1975	8,140	3,890	16,350
COUNTIES: 1975			
Honolulu	8,369	4,158	17,175
Maui	7,229	2,852	14,312
Hawaii	7,388	2,984	13,310
Kauai	7,787	2,755	14,928

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals* (annual).

Table 217.—POVERTY POPULATION, HOUSEHOLDS, FAMILIES, AND UNRELATED INDIVIDUALS, FOR COUNTIES: 1974-1975

Island or county and year of survey	Population		Households		Families ¹	Unrelated individuals
	Number	Percent ²	Number	Percent ³		
Oahu, 1975	70,515	10.4	21,596	10.3	14,564	16,136
Hawaii County, 1975	14,067	18.8	4,106	19.4	2,959	2,474
Maui County, 1975	6,348	11.5	2,234	12.6	1,402	1,426
Kauai, 1974	3,407	11.5	1,050	12.1	(NA)	(NA)

NA Not available.

¹ Two or more persons.

² Of total non-barracks, non-institutional population.

³ Of total households.

Source: Hawaii Office of Economic Opportunity, *Poverty Data from OEO Census Update Survey* for Oahu (p. 9), Hawaii County (p. 9), and Maui County (p. 11), and *Poverty Data from Kauai Socioeconomic Profile, County of Kauai* (p. 13).

Table 218.—FAMILY INCOME POVERTY GUIDELINES: MAY 5, 1978

[In dollars. These family income levels are poverty thresholds used by the Community Services Administration, effective May 5, 1978, to determine eligibility for Federal programs for the poor.]

Family Size	Nonfarm family	Farm family
1.....	3,620	3,130
2.....	4,790	4,110
3.....	5,960	5,090
4 ¹	7,130	6,070
5.....	8,300	7,050
6 ²	9,470	8,030

¹ Corresponding levels for four-person families were \$6,200 and \$5,270 on the Mainland and \$7,750 and \$6,590 in Alaska.

² For larger families, add \$1,170 for each additional member in a nonfarm family and \$980 for each additional member in a farm family.

Source: Community Services Administration, "CSA Income Poverty Guidelines (Revision)," CSA Instruction 6004-1k, in *Federal Register*, Vol. 43, No. 66 (April 5, 1978), pp. 14316-14317.

Table 219.—TOP WEALTHHOLDERS: 1962 TO 1972

[Top wealthholders are defined as persons with a gross estate of \$60,000 or more. All figures are estimates based on estate tax returns. Money amounts are in millions of dollars.]

Subject	1962	1969	1972
Number of top wealthholders.....	11,323	36,470	53,700
Total assets.....	1,908	6,327	7,866
Debts and mortgages ¹			
Number.....	9,909	29,301	48,200
Amount.....	231	1,090	1,369
Net worth.....	1,677	5,236	6,497
Real estate.....			
Number.....	10,104	30,133	46,000
Amount.....	802	2,440	3,179
Bonds.....			
Number.....	4,611	13,477	14,000
Amount.....	66	120	301
Corporate stock.....			
Number.....	9,164	25,452	42,000
Amount.....	697	1,204	1,858
Cash.....			
Number.....	10,994	31,062	52,700
Amount.....	137	695	760
Notes and mortgages.....			
Number.....	2,190	11,572	8,500
Amount.....	30	331	423
Life insurance equity.....			
Number.....	8,296	24,123	47,100
Amount.....	36	86	204
Noncorporate business assets.....			
Number.....	...	5,599	11,200
Amount.....	...	57	219
Other assets.....			
Amount.....	139	...	922

¹ "Debts" in 1962.

Source: U.S. Internal Revenue Service, *Statistics of Income—1962, Personal Wealth* (1967), pp. 55-56, *Statistics of Income—1969, Personal Wealth* (1973), pp. 57-58, and *Statistics of Income—1972, Personal Wealth Estimated from Estate Tax Returns* (1976), table 33.

**Table 220.—AVERAGE ANNUAL INCOME AND EXPENDITURES OF FAMILIES,
FOR URBAN OAHU: 1961 AND 1972-1973 COMBINED**

[Standard errors are not available for 1961]

Category	Survey period	
	1972-73 combined	1961
Numbers of families in sample	228	215
Family income before taxes	\$15,801	\$9,217
Current consumption expenditures, total		
Average annual expenditures	9,438	6,746
Standard error 1972-73	1,288.18	
Food, total		
Average annual expenditures	1,925	1,750
Standard error 1972-73	295.27	
Food at home		
Average annual expenditures	1,243	1,308
Standard error 1972-73	213.15	
Food away from home ¹		
Average annual expenditures	683	442
Standard error 1972-73	151.59	
Tobacco products and smoking supplies		
Average annual expenditures	101	88
Standard error 1972-73	29.96	
Alcoholic beverages		
Average annual expenditures	128	159
Standard error 1972-73	42.02	
Housing, total		
Average annual expenditures	3,194	1,729
Standard error 1972-73	576.41	
Shelter, total		
Average annual expenditures	2,016	897
Standard error 1972-73	474.60	
Rent		
Average annual expenditures	1,142	447
Standard error 1972-73	267.78	
Owned dwellings ²		
Average annual expenditures	811	401
Standard error 1972-73	379.53	
Other lodging		
Average annual expenditures	63	49
Standard error 1972-73	52.08	

**Table 220.—AVERAGE ANNUAL INCOME AND EXPENDITURES OF FAMILIES,
FOR URBAN OAHU: 1961 AND 1972-1973 COMBINED (Continued)**

[Standard errors are not available for 1961]

Category	Survey period	
	1972-73 combined	1961
Fuel, light, refrigeration, and water, total		
Average annual expenditures	\$255	\$196
Standard error 1972-73	46.18	
Household operations		
Average annual expenditures	492	383
Standard error 1972-73	97.75	
Household furnishings and equipment		
Average annual expenditures	430	238
Standard error 1972-73	120.22	
Clothing ³		
Average annual expenditures	674	577
Standard error 1972-73	144.13	
Personal Care		
Average annual expenditures	160	207
Standard error 1972-73	31.98	
Education		
Average annual expenditures	140	147
Standard error 1972-73	93.68	
Health Care		
Average annual expenditures	522	403
Standard error 1972-73	132.63	
Recreation		
Average annual expenditures	558	306
Standard error 1972-73	183.59	
Reading		
Average annual expenditures	80	65
Standard error 1972-73	19.12	
Transportation, total ⁴		
Average annual expenditures	\$1,801	\$1,128
Standard error 1972-73	378.99	
Private transportation		
Average annual expenditures	1,517	875
Standard error 1972-73	346.71	
Public and other transportation		
Average annual expenditures	284	253
Standard error 1972-73	107.97	
Miscellaneous		
Average annual expenditures	156	187
Standard error 1972-73	73.33	

¹ Food away from home includes meals as pay.

² Excludes mortgage principal payments which are considered a reduction in liabilities.

³ Includes all laundry and dry cleaning (clothing and materials).

⁴ Includes vehicle purchases, finance charges and operating costs.

Source: U.S. Bureau of Labor Statistics, *Consumer Expenditures and Income, Honolulu, Hawaii, 1961* (BLS Report No. 237-78, November 1963), p. 2, and unpublished data from the 1972-1973 Consumer Expenditure Survey.

**Table 221.—ESTIMATED ECONOMIC COSTS OF CHILDREN,
FOR OAHU: 1972-1973**

[Based on the response to the question, "About how much money in all do you think
it has cost you to raise your children over the last twelve months?"
asked of 620 persons on Oahu.]

Subject	Number
Average number of children	2.24
Average family income	\$11,623
Average amount spent on all children	\$2,262
Percent of income	19.5
Amount per child	\$1,010
Percent of income	8.7

Source: *The Value of Children*, Vol. 3, *Hawaii*, by Fred Arnold and James T. Fawcett (East-West Population Institute, 1975), p. 90.

Section 13

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 16, 17, 18, 20, 21, 22 and 23.

In June 1978, the Honolulu all-items "unrevised" consumer price index stood at 182.1, with the 1967 level equal to 100. The index had increased 6.8 percent in the preceding 12 months, 42.8 percent since June 1973, and 76.1 percent since June 1968. Prices have risen most rapidly since 1967 for gas and electricity (126.3 percent), medical care (120.0 percent) and restaurant meals (up 114.8 percent), and least for public transportation (up 24.9 percent).

A "moderate" or "intermediate" budget for a four-person family living on Oahu was estimated at \$20,883 as of the Autumn of 1977. This family budget was 22 percent higher than the corresponding urban United States average, and was second only to Anchorage among major American metropolitan areas. Hawaii-Mainland differentials were greatest for rents and personal income taxes and least for clothing, social security payments, and transportation. An "intermediate" budget for a retired couple in Honolulu came to \$7,691 in the Autumn of 1976, 14 percent above the U.S. urban average.

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 families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the *Monthly Labor Review* and *CPI Detailed Report*, 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 data.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the December 1977 existing index and, like the latter, expressed as a percent of the 1967 annual average. The June 1978 all-items index was 182.1 according to the old coverage and weights, 184.1 based on the previous coverage and revised weights, and 183.9 with the expanded coverage and new weights.

Comparisons of family budgets between Honolulu and various Mainland communities have most recently been made for the Fall of 1977. These data were

Section 13 (continued)

compiled and published by the U.S. Bureau of Labor Statistics. Similar comparisons go back a number of years, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1977, and a 40-area comparison for various dates since Autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, and annually since 1969.

In addition to these data, the Bureau of Labor Statistics publishes monthly and annual data on average prices for a wide variety of foods, and occasional data on a number of non-food items (most recently in *Average Retail Prices of Selected Commodities and Services, Fall 1971*, issued in 1973). Still another useful source is *Prices Paid by Hawaii Farmers: 1970-1974*, issued by the Hawaii State Department of Agriculture in November 1975.

No composite wholesale price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in *Statistics of Hawaiian Agriculture*, issued by the Hawaii Agricultural Reporting Service, and *Honolulu Prices: Wholesale Eggs, Poultry, Pork, Beef and Rice*, a publication of the State Department of Agriculture, Market News Service. Wholesale price statistics of other commodities are less readily available, and in most cases totally lacking.

Data on prices and living costs are summarized in *Statistical Abstract of the United States: 1977*, Section 15.

**Table 222.—CONSUMER PRICE INDEX (ALL ITEMS COMBINED), FOR HONOLULU:
QUARTERLY, 1967 TO 1978**

[Unrevised index for urban wage earners and clerical workers. Annual average for 1967=100.]

Year	Annual average	March	June	September	December
1967	100.0	98.9	99.7	100.6	101.8
1968	103.8	102.8	103.4	104.6	105.7
1969	108.5	107.2	108.2	109.6	111.0
1970	114.2	113.2	114.4	114.9	115.7
1971	118.9	116.7	118.5	121.2	121.1
1972	122.8	122.4	122.2	123.1	124.4
1973	128.3	126.0	127.5	129.6	132.8
1974	141.9	137.7	141.2	145.5	148.5
1975	155.0	151.9	154.3	157.6	159.8
1976	162.8	161.1	162.3	164.0	165.5
1977	171.0	168.3	170.5	173.4	174.9
1978 ¹ .....	...	177.9	182.1	...	...

¹ The unrevised consumer price index was discontinued after June 1978. For the revised index, see table 224.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly) and *Consumer Price Index—Pacific Cities and U.S. Average* (monthly).

**Table 223.—CONSUMER PRICE INDEXES, BY COMMODITY GROUPS, FOR HONOLULU:
1968 TO 1978**

[Unrevised indexes for urban wage earners and clerical workers, on base of 1967=100.
Annual averages unless otherwise specified.]

Group	1968	1973	1975	1976	1977	1978: June
All items	103.8	128.3	155.0	162.8	171.0	182.1
Food	103.6	135.2	176.7	183.0	193.0	211.2
Food at home	103.3	133.8	175.8	179.5	189.0	209.8
Cereals and bakery products	102.3	117.9	190.0	176.4	172.8	195.1
Meats, poultry, and fish	101.4	146.5	174.8	182.9	186.9	214.5
Dairy products	104.8	127.8	166.3	179.8	187.9	200.6
Fruits and vegetables	109.7	134.7	168.0	177.3	190.7	210.5
Other foods at home	101.5	127.1	179.9	178.5	206.4	219.7
Food away from home	104.1	139.0	178.7	193.1	204.5	214.8
Housing	104.5	128.8	149.3	156.4	162.9	171.1
Shelter ¹	105.8	135.1	148.5	155.7	160.0	165.3
Rent	103.3	133.1	150.4	156.8	163.5	170.5
Homeownership ²	107.2	136.5	147.3	154.9	157.6	161.6
Fuel and utilities ³	100.1	115.1	157.0	158.8	175.5	195.3
Gas and electricity	100.0	112.1	188.1	187.6	202.7	226.3
Household furnishings and operation ..	102.7	117.3	147.0	156.8	163.8	175.7
Apparel and upkeep ⁴	103.8	124.1	141.2	146.7	152.2	155.5
Men's and boys	103.9	116.7	135.5	144.0	150.3	155.4
Women's and girls	103.6	126.2	132.9	135.7	139.4	138.2
Footwear	103.3	120.8	139.2	144.4	151.0	154.6
Transportation	103.7	123.9	146.8	153.7	159.7	170.6
Private	104.3	125.5	150.9	159.1	166.1	179.1
Public	100.0	114.9	123.9	124.0	125.6	124.9
Health and recreation	103.5	124.1	148.8	160.4	171.4	181.0
Medical care	105.9	133.3	164.8	182.1	203.0	220.0
Personal care	101.3	122.7	156.6	167.6	177.8	187.9
Reading and recreation	102.7	122.7	149.0	158.2	164.0	168.4
Other goods and services ⁵	103.1	116.5	126.6	135.4	142.5	150.6

¹ Also includes hotel and motel rates not shown separately.

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

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

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

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

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly) and *Consumer Price Index—Pacific Cities and U.S. Average* (monthly), and records.

**Table 224.—CONSUMER PRICE INDEX, BY COMMODITY GROUPS, FOR HONOLULU:
JUNE 1978**
[Unless otherwise specified, 1967=100]

Groups	All urban consumers	Urban wage earners and clerical workers (revised)
All items	183.9	184.1
Food and beverages	205.9	207.3
Food	213.5	215.0
Food at home	213.0	214.5
Cereals and bakery products	196.9	196.6
Meats, poultry, fish, and eggs	212.0	215.2
Meats, poultry, and fish	215.3	218.8
Dairy products	204.6	205.4
Fruits and vegetables	221.0	224.4
Other foods at home	234.4	233.8
Food away from home	217.3	218.0
Alcoholic beverages	142.3	141.6
Housing	171.4	170.9
Shelter	170.0	168.0
Rent, residential	174.6	174.6
Other rental costs	198.8	199.7
Homeownership	166.7	164.2
Fuel and other utilities	200.8	201.0
Fuels	228.6	228.8
Fuel oil, coal, and bottled gas ¹	99.1	99.1
Gas (piped) and electricity	228.8	228.9
Household furnishings and operation	160.7	164.9
Apparel and upkeep	158.6	156.4
Apparel commodities	155.9	153.6
Men's and boys' apparel	157.1	161.2
Women's and girls' apparel	145.4	133.5
Footwear	160.5	156.7
Transportation	170.6	170.4
Private transportation	178.2	177.9
Public transportation	128.9	129.0
Medical care	220.7	224.1
Entertainment	178.3	181.9
Other goods and services	182.9	180.3
Personal care	195.0	188.5

**Table 224.—CONSUMER PRICE INDEX, BY COMMODITY GROUPS, FOR HONOLULU:
JUNE 1978 (Continued)**

[Unless otherwise specified, 1967=100]

Groups	All urban consumers	Urban wage earners and clerical workers (revised)
Commodities and Service Groups		
Commodities	179.5	179.7
Food and beverages	205.9	207.3
Commodities less food and beverages	159.8	159.2
Nondurables less food and beverages	172.5	172.2
Durables	143.7	143.0
Services	191.8	192.1
Medical care services	229.6	233.6
Special Indexes:		
All items less shelter	187.5	188.7
All items less medical care	181.4	181.5
All items less energy ¹	105.1	105.2
Commodities less food	158.4	157.8
Nondurables less food	168.3	168.0
Nondurables	191.9	192.6
Services less rent	196.2	196.6
Services less medical care	184.7	184.7

¹ December 1977=100.

Source: U.S. Bureau of Labor Statistics, "Consumer Price Indexes—Pacific Cities and U.S. Average — June 1978."

Table 225.—AVERAGE RETAIL PRICES OF FOOD IN HONOLULU: 1970 TO 1978

[In cents. Data are annual averages unless otherwise indicated.]

Food and unit	1970	1971	1972	1973	1974	1975	1976	1977	1978: May
Cereals and bakery products:									
Flour, white, all purpose 5 lb.	74.9	75.5	78.5	90.4	126.8	123.7	109.2	97.4	103.7
Rice, short grain 10 lb.	144.7	142.4	146.9	176.8	351.0	341.0	265.5	240.8	315.3
Bread, white lb.	29.7	29.3	30.2	33.8	47.2	52.5	50.2	48.4	50.9
Meats, poultry and fish:									
Steak, round, U.S. Choice lb.	128.5	135.2	143.8	171.0	193.1	210.1	199.4	200.9	225.1
Rib roast, U.S. Choice lb.	143.6	151.5	164.7	171.7	196.8	208.7	224.9	237.2	268.4
Chuck roast, U.S. Choice lb.	79.8	80.5	90.2	110.4	120.5	123.4	119.8	121.1	138.0
Hamburger lb.	86.5	85.7	79.6	108.5	125.7	122.4	122.2	119.1	131.7
Beef liver lb.	86.9	89.5	91.3	101.2	116.1	120.7	117.0	120.9	118.9
Veal cutlets lb.	...	...	180.8	208.5	...	...	484.0	...	207.1
Pork chops lb.	152.9	147.0	147.7	173.7	184.4	211.0	221.7	216.6	224.1
Ham, whole, smoked lb.	85.4	77.1	79.2	105.8	124.4	152.9	169.0	141.0	158.8
Bacon lb.	108.9	93.8	100.6	135.9	148.2	195.8	210.9	183.1	210.3
Frying chicken, whole or cut-up lb.	68.4	70.0	72.1	90.4	91.2	95.6	95.8	98.0	97.5
Mahimahi, fresh or frozen lb.	89.4	115.6	158.1	138.8	127.9	205.0	...	160.5	190.0
Dairy products:									
Milk, fresh, vit. D, grocery ½ gal.	67.0	70.9	74.7	82.1	94.5	104.1	108.2	113.3	119.7
Milk, evaporated 14½-oz. can	21.9	22.6	23.3	25.4	32.0	34.6	38.1	40.5	43.3
Butter lb.	95.5	97.3	96.5	97.5	101.0	112.3	141.4	140.0	154.4
Fruits and vegetables:									
Apples, all purpose lb.	37.6	38.8	37.4	40.1	45.2	52.4	55.3	57.5	65.0
Bananas lb.	26.3	27.6	29.7	29.8	32.1	35.5	38.6	40.1	44.8
Papayas lb.	21.8	29.7	34.6	33.4	35.3	37.6	42.1	45.0	55.6
Potatoes 10 lb.	193.0	189.1	195.0	215.4	295.2	291.4	293.9	261.2	242.8
Onions, yellow lb.	19.4	20.4	22.3	26.8	26.6	32.2	29.4	35.7	39.3
Cabbage lb.	12.0	17.7	17.9	18.4	22.2	23.2	23.3	27.6	23.2
Tomatoes lb.	47.3	53.5	56.6	56.9	62.5	70.0	71.3	84.4	93.9
Peas, green #303 can	32.9	34.4	36.2	37.2	41.3	50.1	49.4	48.2	49.0
Tomatoes #2½ can	40.1	41.2	41.7	42.6	50.7	64.0	70.0	83.8	81.2
Dried beans lb.	26.4	30.4	35.9	42.4	97.8	63.4	57.9	63.3	71.1
Other foods at home:									
Eggs, grade A, large dozen	76.2	65.9	72.5	94.1	97.0	95.7	98.2	105.7	103.9
Margarine lb.	38.1	40.9	43.1	43.9	67.7	76.6	66.2	72.1	76.4
Sugar, white 5 lb.	68.3	72.2	76.1	82.0	184.7	205.0	128.8	116.5	133.4
Coffee 1-lb. can	103.7	111.1	112.5	121.1	144.6	159.0	204.7	408.0	381.4
Chicken soup 10½-oz. can	21.1	21.0	21.0	21.0	24.7	26.3	26.3	27.9	27.9

Source: U.S. Bureau of Labor Statistics, *Estimated Retail Food Prices by City* (annual, 1970-1977) and *Estimated Average Retail Food Prices—Pacific Region* (monthly, 1978).

Table 226.—COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1966 TO 1977

Type of family and date	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
URBAN FAMILY OF FOUR PERSONS						
1966: Autumn .....	....	11,190	....	....	122	....
1967: Spring	7,246	10,902	16,076	122	120	123
1969: Spring	8,135	12,118	18,315	124	120	126
1970: Spring	8,597	12,776	19,311	124	120	125
1971: Autumn	8,990	13,108	19,700	125	119	124
1972: Autumn	9,118	13,617	20,579	123	119	124
1973: Autumn	9,924	14,937	21,901	121	118	120
1974: Autumn	11,383	17,019	25,572	124	119	123
1975: Autumn	12,226	18,694	28,302	128	122	127
1976: Autumn	12,711	19,633	30,086	127	121	127
1977: Autumn	13,280	20,883	31,897	127	122	127
RETIRED COUPLE						
1966: Autumn .....	....	4,434	....	....	115	....
1967: Spring	3,110	4,429	7,219	116	115	120
1969: Spring	3,401	4,884	7,849	116	115	118
1970: Spring	3,562	5,166	8,312	115	115	117
1971: Autumn	3,875	5,538	8,621	117	116	116
1972: Autumn	3,927	5,633	8,717	114	113	113
1973: Autumn	4,221	6,038	8,844	112	112	110
1974: Autumn	4,801	6,796	9,918	114	112	111
1975: Autumn	5,168	7,339	10,726	115	114	112
1976: Autumn	5,397	7,691	11,318	115	114	113
1977: Autumn	5,711	8,107	11,882	114	113	111

Source: U.S. Bureau of Labor Statistics, *City Workers' Family Budget, Autumn 1966* (Bull. No. 1570-1); *Retired Couple's Budget, Autumn 1966* (Bull. No. 1570-4); *Three Standards of Living for an Urban Family of Four Persons, Spring 1967* (Bull. No. 1570-5); *Three Budgets for a Retired Couple, 1967-68* (Bull. No. 1570-6); *Three Budgets for an Urban Family of Four Persons, 1969-70* (Supplement to Bull. 1570-5); *Three Budgets for a Retired Couple . . . 1969-70* (Supplement to Bull. 1570-6); *Autumn 1971 Urban Family Budgets and Geographical Comparative Indexes* (release, April 27, 1972); *Three Budgets for a Retired Couple, Autumn 1971* (release, May 16, 1972); *Autumn 1972 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, June 15, 1973); *Three Budgets for a Retired Couple, Autumn 1972* (release, August 10, 1973); *Autumn 1973 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, June 16, 1974); *Three Budgets for a Retired Couple, Autumn 1973* (release, August 27, 1974); *Autumn 1974 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, April 9, 1975); *Three Budgets for a Retired Couple, Autumn 1974* (release, August 1, 1975); *BLS Revises Estimates for Urban Family Budgets and Comparative Indexes for Selected Urban Areas, Autumn 1975* (release, May 5, 1976); *Three Budgets for a Retired Couple, Autumn 1975* (release, August 19, 1976); *Autumn 1976 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, April 27, 1977); *Three Budgets for a Retired Couple, Autumn 1976* (release, August 4, 1977); *Autumn 1977 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, April 26, 1978); *Three Budgets for a Retired Couple, Autumn 1977* (release, August 13, 1978).

Table 227.—ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1977

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget ¹	13,280	20,883	31,897	127	122	127
Total consumption.....	10,437	15,103	21,153	121	116	118
Food.....	3,926	4,932	6,326	123	120	123
At home.....	3,482	4,218	5,058	127	123	124
Away from home.....	444	714	1,268	99	106	117
Housing ²	2,894	4,939	7,700	139	123	127
Shelter ³	2,292	3,951	5,719	147	126	136
Renter costs ⁴	2,292	2,885	4,219	147	143	132
Homeowner costs ⁵	—	4,306	5,984	—	123	136
Housefurnishings & operations	602	988	1,770	116	111	105
Transportation ⁶	814	1,541	2,051	101	105	107
Automobile owners.....	1,164	1,541	2,051	108	100	107
Clothing.....	860	1,185	1,665	104	100	96
Personal care.....	334	440	623	118	117	116
Medical care ⁷	1,072	1,077	1,123	109	109	109
Other family consumption ⁸	537	989	1,665	110	109	111
Other items ⁹	525	836	1,449	111	110	112
Social security & disability payments.....	835	1,022	1,022	132	106	104
Personal income taxes.....	1,483	3,922	8,273	206	167	166

¹ Among the 40 metropolitan areas for which separate indexes were reported, Honolulu ranked second in total budget costs at all three levels, exceeded only by Anchorage.

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

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

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

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

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

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

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

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

Source: U.S. Bureau of Labor Statistics, *Autumn 1977 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, USDL: 78-393, April 26, 1978).

**Table 228.—ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU:
AUTUMN 1977**

[For a retired husband and wife, age 65 years or over. Excludes personal income taxes.]

Item	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Inter- mediate budget	Higher budget	Lower budget	Inter- mediate budget	Higher budget
Total budget ¹	5,711	8,107	11,882	114	113	111
Total family consumption.....	5,465	7,619	10,987	113	113	111
Food.....	1,919	2,506	3,221	125	123	126
At home.....	1,797	2,243	2,696	127	124	125
Away from home.....	122	263	525	102	116	131
Housing ²	1,796	2,665	4,173	103	106	106
Shelter ³	1,281	1,625	2,376	97	100	102
Renter costs ⁴	1,722	2,381	3,267	143	151	137
Homeowner costs ⁵	987	1,218	1,994	71	73	87
Housefurnishings, operations.....	515	1,040	1,696	120	117	113
Transportation ⁶	495	817	1,274	147	124	105
Clothing.....	211	350	506	99	97	91
Personal care.....	165	241	353	113	113	113
Medical care.....	644	650	657	103	103	103
Other family consumption ⁷	235	390	803	112	112	117
Other items ⁸	246	488	895	113	113	110

¹ Among the 40 metropolitan areas for which separate indexes were reported, Honolulu ranked second at the lower level and fourth at the intermediate and higher levels. Anchorage ranked first at all three levels.

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

³ The average costs of shelter were weighted by the following proportions: lower budget, 40 percent living in rented dwellings; intermediate budget, 35 percent in rented dwellings; higher budget, 30 percent in rented dwellings.

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

⁵ Includes property taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs. Assumes all mortgage payments have been completed prior to retirement.

⁶ Based on 45 percent of the lower budget families, 60 percent of the intermediate budget families, and all of the higher budget families owning automobiles.

⁷ Includes reading, recreation, tobacco products, alcoholic beverages, and miscellaneous expenditures.

⁸ Includes gifts and contributions. The higher level also includes an allowance for life insurance.

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Three Budgets for a Retired Couple, Autumn 1977* (Release USDL 78-698, August 13, 1978).

Table 229.—COST OF LIVING FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1977

Cost of living allowance category ¹	Index (Washington, D.C.=100), by islands				
	Oahu	Hawaii	Kauai	Maui and Lanai	Molokai
Local retail, private housing	118.4	113.6	117.2	112.2	115.4
Local retail, federal housing	102.3	99.8	107.2	99.7	108.2
Commissary, PX, private housing	103.8	...	116.7	...	...
Commissary, PX, federal housing	87.7	...	106.7	...	...
Commissary, PX, military housing	73.9	...	89.0	...	...
Local retail, military housing .....	...	88.1	...	86.2	90.7

¹ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to federal employees who purchase goods and services only from private retail establishments, while "Commissary, PX" includes those who have unlimited access to military commissary and exchange facilities. "Private housing" includes federal employees who occupy housing units that are privately owned or leased; "federal housing," those who occupy units owned or leased by a federal agency; and "military housing," those in either on-base military units or off-base housing for which a housing allowance is paid under the military housing program.

Source: U.S. Civil Service Commission, "Nonforeign Area Cost of Living Allowances," FPM Letter No. 591-21 (February 8, 1978), attachment pages 1, 2 and 3.

Section 14

ELECTIONS

This section presents data on the number and characteristics of registered voters, votes cast, elected officials, and legislative bills.

More than 395,000 persons were registered to vote in the general election of November 1978, and more than 292,000 actually voted. The number voting amounted to 40 percent of the 637,000 Hawaii residents of voting age at that time. The latter figure included numerous aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among eligible voters, females slightly outnumbered males, persons of Japanese ancestry outnumbered Caucasians, and Democrats were far more numerous than Republicans.

A constitutional convention was convened on July 5, 1978. In the election for delegates to this convention, 119,250 persons cast ballots out of 344,953 registered to vote. The number of delegates elected numbered 102, compared with 82 in the 1968 constitutional convention and 63 in 1950.

Elective offices in Hawaii include the President, two U.S. Senators, two U.S. Representatives, the Governor, 25 State Senators, 51 State Representatives, and various county officials. The minimum voting age is 18 years.

The 1977 State Legislature, with 76 members, included 67 males, 26 persons under 40 years of age, 34 persons of Japanese ancestry, and 59 Democrats.

In its 1978 session, the State Legislature considered 5,501 bills; 248 were passed and 239 became law. The Legislature also considered 1,521 resolutions, of which 875 were approved.

Official election results are published by the Office of the Lieutenant Governor. Additional information is often available from the various County Clerks. Characteristics of individual precincts are described in *1976 Hawaii Voting Behavior*, compiled by Daniel W. Tuttle, Jr., and published by the Public Affairs Advisory Services, Inc., on May 31, 1978. National statistics appear in the *Statistical Abstract of the United States: 1977*, Section 16.

Table 230.—REGISTERED VOTERS AND VOTES CAST, FOR PRIMARY, GENERAL, AND SPECIAL ELECTIONS: 1968 TO 1978

Type and date of election	Registered voters ¹			Votes cast		Percent of civilian population ²	
	Both sexes	Male	Female	Number	Percent of reg. voters	Registered	Voting
Primary elections:							
1968: Oct. 5	265,253	...	...	166,271	62.7	39.2	24.5
1970: Oct. 3	282,472	...	...	202,401	71.7	39.1	28.0
1972: Oct. 7	326,906	...	...	203,160	62.1	42.4	26.3
1974: Oct. 5	333,527	...	...	235,982	70.8	41.8	29.6
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2	42.8	30.5
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6	46.2	34.5
General elections:							
1968: Nov. 5	274,199	137,863	136,302	239,765	87.4	40.5	35.4
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9	40.4	34.4
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8	43.9	37.3
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4	43.1	34.2
1976: Nov. 2 ³	363,045	180,265	182,780	309,025	85.1	44.0	37.4
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0	47.1	34.9
Special elections:⁴							
1968: June 1	242,827	...	...	110,370	45.5	35.8	16.3
1978: May 20	344,952	169,787	175,165	119,250	34.6	41.1	14.2

¹ Data by sex not available for primary elections before 1976 and the Constitutional Convention election of 1968. Data by sex for November 5, 1968 do not add exactly to the published total.

² Based on official estimates.

³ Number voting excludes 64 unregistered votes cast (overseas and nonresident).

⁴ Constitutional conventions of 1968 and 1978.

Source: Office of the Lieutenant Governor, *Result of Votes Cast* for each election. Registered voters by sex for the 1968 general election from unpublished data.

Table 231.—REGISTERED VOTERS AND VOTES CAST FOR DELEGATES TO THE CONSTITUTIONAL CONVENTION: 1978

County	Registered voters: April 30, 1978			Votes cast: May 20, 1978	
	Both Sexes	Male	Female	Number	Percent of registered voters
State total	344,952	169,787	175,165	119,250	34.6
Hawaii	37,083	18,408	18,675	12,700	34.2
Maui	27,601	13,762	13,839	10,959	39.7
Honolulu	262,588	128,788	133,800	87,008	33.1
Kauai	17,680	8,829	8,851	8,583	48.5

Source: Office of the Lieutenant Governor, *Result of Votes Cast, Constitutional Convention Election, Saturday, May 20, 1978, State of Hawaii.*

Table 232.—SEX AND PARTY OF REGISTERED VOTERS AND NUMBER VOTING, BY COUNTIES: NOVEMBER 2, 1976

Sex or party	State total	Hawaii County	Maui County	City and County of Honolulu	Kauai County
Total	363,045	39,760	29,743	275,479	18,063
Sex:					
Male	180,265	19,923	14,951	136,273	9,118
Female	182,780	19,837	14,792	139,206	8,945
Party:					
Democratic	215,321	22,497	17,452	163,192	12,180
Republican	41,849	4,863	2,420	33,190	1,376
Non-partisan	273	5	17	237	14
People's	88	10	10	64	4
Independents for					
Godly Government	16	1	4	11	—
Libertarian	34	—	1	33	—
Non-affiliated	105,464	12,384	9,839	78,752	4,489
Voting ¹	309,025	34,532	24,601	234,088	15,804
Percent of registration	85.1	86.9	82.7	85.0	87.5

¹ Excludes 64 unregistered votes cast (40 overseas and 24 nonresident).

Source: Office of the Lieutenant Governor, *Result of Votes Cast, General Election, Tuesday, November 2, 1976, State of Hawaii*, pp. 15, 16 and 134.

Table 233.—ETHNIC STOCK OF REGISTERED VOTERS: AUG.-OCT. 1974

Subject	Intending to vote in Democratic primary		All eligible voters: poll of Oct. 21-23, 1974
	Poll of Aug. 24-28, 1974	Poll of Sept. 20-24, 1974	
Persons interviewed ¹	574	1,197	607
Registered Democrats	474	926	(²)
Independents	100	271	(²)
Ethnic stock (percent) ³	100.0	100.0	100.0
Japanese	40.2	41.5	36.7
Caucasian	24.4	23.1	32.5
Filipino	13.9	14.1	7.9
Hawaiian or Part Hawaiian	8.5	8.2	9.9
Chinese	6.6	6.5	7.4
Others and not reported	6.3	6.5	5.6

¹Interviews were conducted on Oahu, Hawaii, Maui, and Kauai, but not Molokai or Lanai. For further discussion, see Gerry Keir, "State Race Doesn't Look Close," *Honolulu Advertiser*, Oct. 29, 1974, pp. A-1 and A-4.

²Not available. In response to the question, "Generally speaking, do you usually think of yourself as a Republican, a Democrat, an independent, or what?" Answers were: Democrats, 249 (41.0 percent), Republicans, 134 (22.1 percent), independents, 171 (28.2 percent), and did not know, 53 (8.7 percent).

³Response to the question, "According to the last Federal census there are five major ethnic groups in Hawaii. Which one best describes your own ancestry? (1) Caucasian, (2) Japanese, (3) Filipino, (4) Hawaiian or Part Hawaiian, (5) Chinese, (6) other."

Source: Sample surveys designed by Gerry Keir, City Editor, *Honolulu Advertiser*, and conducted by Surveys of Hawaii. Data supplied by Gerry Keir, Nov. 18, 1974.

Table 234.—POPULATION OF VOTING AGE AND PERCENT VOTING: NOVEMBER 1960 TO 1978

[Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years.
Includes armed forces stationed in Hawaii.]

Year (Nov.)	Persons of voting age	Percent casting votes		Subject	Persons of voting age
		For Presidential Electors	For U.S. Representatives		
1960.....	371,000	49.7	49.2	Age, 1978:	
1962.....	390,000	...	49.9	18 to 24 years	146,000
1964.....	404,000	51.3	56.9	25 to 44 years	248,000
1966.....	417,000	...	49.9	45 to 64 years	177,000
1968.....	439,000	53.8	55.3	65 years and over ...	67,000
1970.....	473,000	...	44.0		
1972.....	536,000	50.4	51.3	Race, 1978:	
1974.....	574,000	...	45.2	White	246,000
1976.....	605,000	48.2	48.6	Black	10,000
1978.....	637,000	...	39.9	Other	381,000

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States: November 1978," *Current Population Reports*, Series P-25, No. 732, September 1978.

Table 235.—PARTY MEMBERSHIP OF THE STATE LEGISLATURES: 1967 TO 1977

Regular session	House of Representatives				Senate			
	Total	Democrats	Republicans	Vacant seats	Total	Democrats	Republicans	Vacant seats
1967.....	51	39	12	—	25	15	10	—
1969.....	51	38	12	1	25	17	8	—
1971.....	51	34	17	—	25	16	8	1
1973.....	51	35	16	—	25	17	8	—
1975.....	51	35	16	—	25	18	7	—
1977 ¹	51	41	10	—	25	18	7	—
COUNTIES:								
1977								
Hawaii	5	5	—	—	3	2	1	—
Maui	4	4	—	—	2	2	—	—
Honolulu ¹	39	29	10	—	19	13	6	—
Kauai	3	3	—	—	1	1	—	—

¹Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Oahu Republican changed his affiliation to Democrat.

Source: *Session Laws of Hawaii*, 1967-1975; Office of the Lieutenant Governor, records.

Table 236.—COMPOSITION OF THE 1977 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	41	10	25	18	7
County:						
Hawaii	5	5	—	3	2	1
Maui	4	4	—	2	2	—
Honolulu	39	29	10	19	13	6
Kauai	3	3	—	1	1	—
Sex:						
Male	46	39	7	21	16	5
Female	5	2	3	4	2	2
Year born:						
1916 or earlier	1	1	—	4	3	1
1917 to 1926	10	8	2	8	7	1
1927 to 1936	16	12	4	11	7	4
1937 to 1946	19	16	3	2	1	1
1947 or later	5	4	1	—	—	—
Ethnic stock:						
Caucasian, exc. Portuguese ...	9	7	2	5	2	3
Chinese	2	1	1	5	4	1
Filipino	2	2	—	—	—	—
Hawaiian (unmixed)	—	—	—	—	—	—
Japanese	23	22	1	11	10	1
Korean	—	—	—	—	—	—
Negro	1	1	—	—	—	—
Portuguese	1	—	1	1	—	1
Puerto Rican	—	—	—	—	—	—
Samoan	—	—	—	—	—	—
Other	—	—	—	—	—	—
Mixed: Part-Hawaiian	7	5	2	2	1	1
Mixed: Non-Hawaiian	6	3	3	1	1	—

Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Office of the Lieutenant Governor, information supplied March 23, 1977.

Table 237.—VOTES CAST FOR MAJOR OFFICES: 1966 TO 1976

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, D.....	189,248	Thiessen.....	34,008	Lee ³	3,671
U.S. Representative ¹	Matsunaga ...	161,954	Blaisdell	78,733	Olsen ³	2,432
	Mink	149,207	DuBois	39,233	Lombardi ³ .	2,026
November 3, 1970:						
Governor	Burns	137,150	King.....	100,573	None .....	...
U.S. Senator	Heftel	116,039	Fong	123,334	None .....	...
U.S. Representative, Dist. 1 ...	Matsunaga ...	84,845	Cockey	31,534	None .....	...
U.S. Representative, Dist. 2 ...	Mink	90,628	None .....	...	None .....	...
November 7, 1972:						
President	McGovern....	101,409	Nixon	168,865	None .....	...
U.S. Representative, Dist. 1 ...	Matsunaga ...	73,826	Rohlfing	61,138	None .....	...
U.S. Representative, Dist. 2 ...	Mink	79,856	Hansen	60,043	None .....	...
November 5, 1974:						
Governor	Ariyoshi	136,262	Crossley.....	113,388	None .....	...
U.S. Senator	Inouye, D.....	207,454	None .....	...	Kimmel ⁴ ..	42,767
U.S. Representative, Dist. 1 ...	Matsunaga ...	71,552	Paul	49,065	None .....	...
U.S. Representative, Dist. 2 ...	Mink	86,916	Coray	51,894	None .....	...
November 2, 1976:						
President	Carter	147,375	Ford	140,003	MacBride ⁵ .	3,923
U.S. Senator	Matsunaga ...	162,305	Quinn	122,724	Others ⁶ ...	17,063
U.S. Representative, Dist. 1 ...	Heftel	60,050	Rohlfing	53,745	Hoshijo ⁷ ..	23,807
U.S. Representative, Dist. 2 ...	Akaka	124,116	Inouye, H. ...	23,917	Others ⁸ ...	8,066

¹ Two elected at large.

² American Independent.

³ Peace and Freedom.

⁴ People's.

⁵ Libertarian.

⁶ Hodges (People's), 14,226; Kimmel (Nonpartisan), 1,433; Johnson (Libertarian), 1,404.

⁷ Independents for Godly Government.

⁸ Penaroza (Independents for Godly Government), 3,461; Cate (People's), 2,408; Smith (Libertarian), 2,197.

Source: Office of the Lieutenant Governor, *Result of Votes Cast, General Election, State of Hawaii* (biennial).

**Table 238.—LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
1976 TO 1978**

Action	1976	1977		1978
		Regular	Special	
House bills:				
Carried over from previous year	1,854	—	—	1,616
Introduced	1,468	1,765	16	1,339
Enacted	143	149	16	162
Vetoed	7	4	—	6
Became law	136	145	16	156
Senate bills:				
Carried over from previous year	1,663	—	—	1,454
Introduced	1,285	1,532	5	1,092
Enacted	108	78	5	86
Vetoed	2	11	—	3
Became law	106	67	5	83
House resolutions:				
Offered	709	767	—	740
Adopted	455	538	—	442
House concurrent resolutions:				
Offered	124	140	—	150
Adopted	38	39	—	53
Senate resolutions:				
Offered	469	523	—	499
Adopted	259	308	—	336
Senate concurrent resolutions:				
Offered	123	175	—	132
Adopted	59	47	—	44

Source: Legislative Reference Bureau, records.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were eight banks with 166 branches, 11 savings and loan associations with 112 branches, three trust companies, and 242 industrial loan or small loan licensees in Hawaii as of June 30, 1977. Deposits in Island banks reached \$3.0 billion in 1977, compared with \$1.56 billion in 1970 and \$673 million in 1960. Assets of savings and loan associations stood at \$2.3 billion in 1977, triple their 1970 level and eleven times as great as in 1960. Eighty-four percent of the households on Oahu had savings accounts in 1972 and 78 percent had checking accounts. There were 158 credit unions with assets of \$600 million at the end of 1977.

The market value of stocks and bonds traded on the Honolulu Stock Exchange in 1977 amounted to \$298,000, the lowest total on record, and the Exchange discontinued operations at the end of the year. The all-time high was \$25.4 million in 1961. Approximately 58,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1975.

Life insurance in force in Hawaii at the end of 1976 amounted to \$13.6 billion, triple the figure reported ten years earlier. For all 542 insurance companies doing business in the Islands, Hawaii premiums amounted to \$422 million in 1976 and losses, claims, and benefits paid came to only \$193 million. Oahu fire losses amounted to \$7.0 million in fiscal 1977. Persons covered by the two major prepaid health insurance plans as of December 31, 1977, numbered 615,000, with membership dues of \$139 million.

By mid-1977, 26,636 corporations and partnerships were registered to do business in Hawaii: 18,175 local ("domestic") corporations, 2,755 out-of-State ("foreign") corporations, and 5,706 partnerships. Business units with one or more employees in 1975 numbered 17,095; 95 had 250 or more employees. During fiscal 1978, 2,718 new local corporations were formed and 1,879 existing local corporations were dissolved or merged. Business receipts of corporations exceeded \$9.4 billion in 1975; business receipts of proprietorships in 1973 amounted in \$696 million. Hawaii's largest corporation, Amfac, Inc., reported 1977 sales of \$1.3 billion.

Sources for statistics on these subjects include the Hawaii State Department of Regulatory Agencies (specifically its Bank Examination, Insurance, Fire Marshal and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York and Honolulu Stock Exchanges, the Health Insurance Institute and two major local health insurance plans, the Hawaii Credit Union League, and the annual report on *County Business Patterns* issued by the U.S. Bureau of the Census. Comparable Mainland data appear in Sections 17 and 18 of *Statistical Abstract of the United States: 1977*.

Table 239.—BANKS: 1968 TO 1978

Year	Number, June 30		Total assets, June 30 (\$1,000)	Deposits, June 30 (\$1,000)				Debits to demand deposits, cal. year (\$1,000)	Bank clearings, cal. year (\$1,000)
	Banks	Branch offices and facilities		Total	Demand	Time	Government and other		
1968	7	126	1,440,891	1,287,166	431,047	525,564	330,555	16,316,676	9,281,829
1969	7	132	1,669,606	1,499,459	526,895	590,618	381,947	21,527,177	11,190,757
1970	7	143	1,762,811	1,558,671	558,924	631,538	368,209	23,305,519	13,286,842
1971	7	149	2,062,194	1,804,545	624,130	751,692	428,723	24,316,129	15,091,524
1972	7	155	2,252,841	2,000,685	683,419	843,828	473,438	27,006,791	16,839,868
1973	8	162	2,625,855	2,367,682	781,470	982,689	603,523	31,803,985	19,253,017
1974	8	164	2,875,085	2,573,664	819,177	1,074,603	679,883	38,495,103	21,219,856
1975	8	165	2,964,953	2,615,796	875,441	1,170,368	569,986	42,198,265	23,663,047
1976	8	168	3,207,161	2,883,238	880,902	1,326,326	676,010	44,908,514	27,173,406
1977	8	166	3,387,094	3,008,895	932,909	1,497,021	578,965	50,492,878	30,437,727
1978	8	171	4,003,656	3,601,380	1,099,932	1,664,932	836,517	(NA)	(NA)

NA Not available.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 240.—SAVINGS AND LOAN ASSOCIATIONS, TRUST COMPANIES, AND LOAN COMPANIES: 1968 TO 1978

Year (as of June 30)	Savings and loan associations				Trust companies		Industrial loan licensees		Small loan licensees	
	Number		Assets (\$1,000)	Deposits ¹ (\$1,000)	Number	Assets ¹ (\$1,000)	Number	Assets (\$1,000)	Number	Assets (\$1,000)
	Associations	Branches ²								
1968	14	42	569,325	480,227	4	37,312	192	204,543	52	1,571
1969	14	44	650,398	528,570	4	44,790	198	265,310	54	1,367
1970	13	51	730,772	584,017	3	40,606	213	311,978	46	1,016
1971	13	55	869,323	716,674	3	45,049	220	371,556	47	871
1972	12	62	1,085,455	878,335	4	46,941	220	448,935	40	365
1973	12	72	1,325,331	1,032,679	3	45,809	221	549,495	24	131
1974	11	82	1,474,175	1,146,587	3	41,181	225	680,286	24	653
1975	11	90	1,650,050	1,326,024	3	46,988	235	718,010	6	67
1976	11	107	1,923,501	1,608,434	3	53,365	239	797,883	6	32
1977	11	112	2,345,999	1,952,042	3	57,911	242	742,330	—	—
1978	10	115	2,876,344	2,211,889	3	59,862	238	776,687	—	—

¹ Withdrawable shares, withdrawable deposits and investment certificates.

² Branches, facilities, and agencies.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

**Table 241.—ASSETS AND LIABILITIES OF BANKS AND SAVINGS AND LOAN ASSOCIATIONS:
DECEMBER 31, 1960 TO 1977**
[In thousands of dollars]

Subject	1960	1965	1970	1976	1977
BANKS					
Total assets	813,618	1,155,117	1,917,915	3,353,783	3,609,198
Loans and discounts	400,109	667,133	1,163,467	1,981,539	2,163,324
Investments	248,905	282,558	449,642	856,766	859,367
Cash and due from banks	143,400	144,138	215,527	348,702	396,987
Fixed assets	12,105	27,476	43,846	78,423	78,371
Other assets	9,099	33,812	45,433	88,353	111,150
Total liabilities and capital	813,618	1,155,117	1,917,915	3,353,783	3,609,198
Demand deposits	275,452	373,402	608,810	1,006,999	1,064,095
Time and other deposit	467,844	632,113	1,088,352	1,989,415	2,168,674
Other liabilities	12,275	62,838	84,695	140,400	141,705
Capital	58,047	86,734	136,057	216,969	234,724
SAVINGS AND LOAN ASSOCIATIONS					
Total assets	210,993	482,067	778,909	2,141,259	2,535,006
Mortgage loans	185,034	423,603	678,688	1,841,239	2,229,623
Other loans	4,713	8,750	14,212	44,047	53,490
Investments	10,082	17,418	46,471	176,934	182,221
Fixed assets	2,693	8,361	16,282	35,870	35,571
Cash on hand and in banks	7,940	19,687	12,134	13,594	4,527
Other assets	531	4,248	11,122	29,574	29,574
Total liabilities	210,993	482,067	778,909	2,141,259	2,535,006
Withdrawal shares	175,040	364,036	576,044	1,683,972	2,030,848
Withdrawable deposits, invest. certif.	277	14,034	49,868	72,721	20,460
Reserve	15,728	27,898	37,346	65,044	81,846
Surplus and undivided profits	977	5,718	22,061	65,264	67,425
Other liabilities	18,971	70,381	93,590	254,258	334,428

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

Table 242.—CREDIT UNIONS IN HAWAII: 1970 TO 1977
[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)
1970	169	209,170,122	182,622,125
1971	168	245,084,882	216,048,536
1972	167	280,706,057	248,550,443
1973	160	317,503,100	277,982,162
1974	160	357,925,240	313,151,583
1975	160	418,506,281	369,822,346
1976	162	499,648,355	442,943,395
1977	158	599,929,673	536,387,418

Source: Hawaii Credit Union League, records.

**Table 243.—MARKET VALUE OF STOCKS AND BONDS
TRADED ON THE HONOLULU STOCK EXCHANGE:
1970 TO 1977**

Year	Value (\$1,000)
1970	8,590
1971	5,533
1972	3,986
1973	1,896
1974	1,175
1975	523
1976	383
1977 ¹	298

¹ The Honolulu Stock Exchange held its final session December 30, 1977. It was established in August 1898.

Source: Honolulu Stock Exchange, records.

**Table 244.—HAWAII RESIDENTS HOLDING SHARES
IN U.S. PUBLIC CORPORATIONS OR
INVESTMENT COMPANIES: 1959 TO 1975**

Year	Shareowners
1959	13,000
1962	18,000
1965	39,000
1970	74,000
1975	58,000

Source: New York Stock Exchange, Inc., *Shareownership in America 1959* (p. 27), *Shareownership U.S.A., 1965 Census of Shareowners* (p. 22), *Shareownership - 1970, Census of Shareowners* (p. 20), and *Shareownership 1975* (p. 19).

Table 245.—STOCKHOLDINGS OF HAWAII RESIDENTS IN MAJOR HAWAII COMPANIES: 1978

[Excludes stock owned by residents in their broker's name.]

Company ¹	Hawaii shareholders		Shares held in Hawaii		Market value of shares held in Hawaii (millions of dollars)	Annual dividends to Hawaii shareholders (millions of dollars)
	Number	Percent company total	Number (millions)	Percent of company total		
Castle & Cooke	4,350	16	4.4	21	81.3	3.5
Alexander & Baldwin	4,880	51	4.4	47	73.2	5.2
Hawaii Bancorp.	2,185	55	5.2	80	67.7	4.2
Hawaiian Electric	10,685	62	2.5	42	65.1	5.1
General Tel. & Elec.	12,165	2.8	2.2	1.6	63.9	5.0
First Hawaiian	1,500	65	2.3	75	56.3	4.1
Dillingham	5,465	38	5.2	41	43.8	2.7
Amfac	4,395	36	1.9	15	34.5	1.9
Pacific Resources	2,590	68	3.6	70	28.8	1.3
Maui Land & Pine	295	18	0.97	61	23.7	0.39
C. Brewer	1,830	48	0.79	17	11.8	—
Aloha Airlines	3,315	19	1.0	47	5.5	—
Hawaiian Airlines	925	42	0.97	61	4.8	0.15

¹ Companies listed on a Mainland stock exchange or in the national over-the-counter market. Interisland resorts not included because of lack of data.

Source: Kit Smith, "Hawaii's Big 13 and their owners," *Honolulu Advertiser*, June 29, 1978, p. C-5.

Table 246.—INSURANCE BUSINESS TRANACTED IN HAWAII: 1966 TO 1976

Calendar year	All insurance			Life insurance, excluding annuities				
	Number of companies authorized, Dec. 31	Premiums (\$1,000)	Losses, claims, and benefits paid (\$1,000)	Number of companies ¹	Insurance written, revived, increased, or transferred (\$1,000)	Insurance in force, Dec. 31 (\$1,000)	Premiums received (\$1,000)	Claims and benefits paid (\$1,000)
1966	403	149,321	65,255	179	841,080	4,697,954	74,127	30,456
1967	415	162,102	74,888	189	929,044	5,102,132	80,217	32,964
1968	434	179,236	86,102	200	1,171,454	5,874,280	85,713	36,609
1969	450	207,184	98,867	213	1,289,564	6,632,539	91,402	39,703
1970	469	246,986	114,011	223	1,376,907	7,441,077	98,360	40,267
1971	485	276,707	119,880	233	1,565,272	8,127,837	106,524	45,301
1972	502	303,954	124,502	239	1,484,039	8,788,361	115,491	44,661
1973	517	316,897	132,102	262	1,935,643	9,433,897	120,229	47,980
1974	534	331,146	155,272	270	2,609,649	11,095,747	130,102	54,009
1975	537	380,480	170,561	279	2,046,479	12,650,488	138,597	53,291
1976	542	421,545	192,547	283	2,266,311	13,560,838	148,977	65,312

¹ Transacting life insurance business during the year, 1958-1972; authorized, 1973 and later years. Includes fraternal benefit societies.

Source: *Report of the Insurance Commissioner of Hawaii* (annual), and records.

Table 247.—INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1976
[In dollars]

Class of insurance	Premiums	Losses, claims and benefits paid
All classes	421,545,077	192,546,912
Life ¹	148,474,829	65,303,469
Fraternal	502,145	8,335
Fire, marine, casualty, and miscellaneous	268,019,971	127,112,976
Accident and health	42,601,002	23,525,043
Fire	13,688,838	4,035,763
Allied lines	5,800,556	1,558,792
Homeowners multiple peril	15,474,587	6,026,701
Private passenger auto no-fault	15,007,454	8,952,298
Other private passenger automobile liability	38,343,868	21,860,699
Commercial auto no-fault	2,972,320	1,061,419
Other commercial automobile liability	11,500,783	6,051,947
Private passenger automobile physical damage	23,495,164	18,187,391
Commercial automobile physical damage	3,939,667	2,276,800
Workers' compensation	44,979,566	21,509,163
Other liability	21,337,912	5,834,630
Medical malpractice	4,327,039	604,735
Glass	409,070	171,984
Burglary and theft	1,327,780	450,323
Boiler and machinery	444,190	163,392
Fidelity and surety	5,935,927	27,073
Ocean marine	4,318,515	1,585,134
Inland marine	7,281,156	2,363,572
Earthquake	32,968	.....
All other	4,801,609	866,117
Surplus lines	4,548,132	122,132

¹ Excludes annuities. Also excludes insurance on nonresidents.
Source: *Report of the Insurance Commissioner of Hawaii 1977*, p. 7.

Table 248.—MISCELLANEOUS INSURANCE STATISTICS: 1976
 [In millions of dollars. For insurance companies authorized in Hawaii.]

Subject	Amount			
Life insurance:				
Written or transferred				2,266.3
In force, December 31				13,560.8
Premiums received				149.0
Claims and benefits paid				65.3
Insurance other than life:				
Direct premiums paid				272.6
Direct premiums earned				255.8
Direct losses paid				127.2
Direct losses incurred				150.3
	Amount			
Subject	All com- panies	Domestic	Foreign	Alien (U.S. business only)
Financial condition, Dec. 31:				
Assets	359,477	223	354,394	4,860
Liabilities exc. capital and surplus	324,745	163	320,410	4,171
Policyholder's surplus inc. capital	34,732	60	33,984	689
Capital	2,007	12	1,984	12
Net gain or loss	556	0.1	601	-45
Hawaii business:				
Direct premiums written	457.8	124.6	318.3	14.9
Claims and benefits paid	220.3	55.6	158.7	6.0
Investments in Hawaii, Dec. 31	1,771.6	81.7	1,649.7	40.1
Mortgage loans (principal indebtedness)	947.6	35.6	889.5	22.6
Collateral loans (amount lent)	1.8	0.8	1.0	—
State and county bonds ¹	185.5	10.8	174.3	0.3
Utilities stocks and bonds ¹	189.5	11.0	163.3	15.2
Industrial and misc. stocks and bonds ¹	394.0	17.5	374.7	1.7
Real estate ¹	53.2	6.0	46.9	0.2
Balances in Hawaii banks	10.8	7.2	3.6	0.0

¹ Market value (less encumbrances for real estate).

Source: *Report of the Insurance Commissioner of Hawaii 1977*, pp. 9, 16, 20, 21, 36, and 37, and underlying data.

Table 249.—HEALTH INSURANCE: 1974-1975

Subject	Number
Persons less than 65 years of age protected by health insurance, as of December 31, 1975 (unduplicated):	
Hospital expense	634,000
Surgical expense	649,000
Regular medical expense	616,000
Major medical expense	67,000
Health insurance benefit payments, 1974 (millions of dollars), total	114
Insurance companies	26
Other hospital-medical plans	88
Health insurance premiums, 1974 (millions of dollars), total	127
Insurance companies	29
Other hospital-medical plans	98
Community hospital costs, 1975:	
Average length of hospital stay (days)	6.9
Average cost to hospital (dollars)—	
Per patient day	152.10
Per patient stay	1,049.50

Source: Health Insurance Institute, *Source Book of Health Insurance Data 1976-77*, pp. 33, 47, 51, and 62.

Table 250.—PREPAID HEALTH PLANS: 1970 TO 1977

Year	Hawaii Medical Service Association		Kaiser Foundation Health Plan			Commercial carrier premiums ¹ (\$1,000)
	Persons covered, end of year ²	Membership dues ³ (\$1,000)	Persons covered ²		Membership dues (\$1,000)	
			Annual average	End of year		
1970	393,546	35,389	82,721	87,008	9,372	23,000
1971	404,293	42,443	89,934	94,009	11,503	26,556
1972	417,305	48,759	95,226	95,877	13,227	29,097
1973	432,905	55,209	96,057	96,242	14,779	31,200
1974	451,583	64,138	97,202	98,184	16,309	33,176
1975	474,265	79,827	100,766	101,827	18,592	35,564
1976	484,295	97,882	103,364	104,785	21,879	(NA)
1977	507,709	113,335	106,217	107,592	25,614	(NA)

NA Not available.

¹ For accident and health insurance.

² Subscribers and dependents, whether on a group or individual basis.

³ Excludes investment income, membership fees, etc.

Source: Hawaii Medical Service Association, records; Kaiser Foundation Health Plan, Inc., records; *Report of the Insurance Commissioner* (annual).

Table 251.—FIRES, BY COUNTY: 1967 TO 1977

Year	State total ¹	City and County of Honolulu	Hawaii County	Kauai County	Maui County ²
1967	3,657	3,378	126	153	(NA)
1968	5,070	4,274	392	199	205
1969	5,633	4,716	390	240	287
1970	4,781	3,868	364	254	295
1971	4,834	3,969	398	205	262
1972	5,293	4,288	386	226	393
1973	5,826	4,710	376	370	370
1974	4,620	3,660	386	256	318
1975	6,563	5,347	342	461	413
1976	5,294	4,423	356	243	272
1977	5,645	4,548	401	287	409

NA Not available.

¹ For reporting counties.

² Years ended June 30, 1968 through 1974.

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

**Table 252.—FIRE CHARACTERISTICS, FOR THE CITY AND COUNTY OF HONOLULU:
1970 TO 1977**
[Years ended June 30]

Year	Fire alarms				Fire deaths	Fire losses (dollars)
	Total alarms	Fires	False alarms	Needless alarms ¹		
1970	6,279	4,716	1,563	—	4	4,531,168
1971	5,679	3,868	1,811	—	8	5,032,081
1972	6,379	3,952	1,838	589	7	3,527,052
1973	7,415	4,930	1,807	678	8	12,962,159
1974	6,132	3,685	1,812	635	11	6,391,520
1975	7,064	4,316	2,057	691	5	7,303,404
1976	8,157	5,278	2,166	713	7	7,369,820
1977	8,225	5,451	2,061	713	5	7,008,431

¹ Non-fire incidents, such as smoke scares or overheated food.

Source: *Annual Report of the Fire Department, City & County of Honolulu, 1975-1976*, p. 259, and records.

Table 253.—REGISTERED CORPORATIONS AND PARTNERSHIPS: 1968 TO 1978
[Excludes eleemosynary corporations]

Year ended June 30	Domestic (Hawaii) corporations			Foreign (non-Hawaii) corporations			Partnerships		
	Formed	Dissolved or merged ¹	On record, end of period ¹	Qualified	Withdrew, merged, or cancelled ¹	On record, end of period ¹	Registered	Dissolved or cancelled ¹	On record, end of period ¹
1968	984	624	8,356	199	82	1,248	389	325	2,196
1969	1,177	498	9,035	297	53	1,492	524	512	2,492
1970	1,392	672	9,755	303	61	1,734	228	254	2,750
1971	1,411	563	10,603	266	61	1,939	717	307	3,160
1972	1,602	647	11,558	283	68	2,154	881	305	3,736
1973	1,989	259	13,288	300	70	2,384	879	352	4,263
1974	2,016	259	14,666	276	56	2,604	1,072	344	4,991
1975	1,808	261	16,212	260	81	2,783	1,151	344	5,798
1976	1,929	1,860	16,281	276	74	2,985	1,032	405	6,425
1977	2,204	301	18,184	322	539	2,768	1,377	2,092	5,710
1978	2,718	1,879	19,023	340	54	3,054	1,150	500	6,360

¹ Annual fluctuations include effect of sporadic purging of defunct firms from registration files.

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

**Table 254.—CHARACTERISTICS OF BUSINESS UNITS, BY COUNTIES:
1975 AND 1976**

[Excludes government employees and self-employed persons.]

County	1976				1975			
	Number of establishments	Number of employees for week including March 12	Payroll (\$1,000)		Number of establishments	Number of employees for week including March 12	Payroll (\$1,000)	
			First quarter	Annual			First quarter	Annual
Total	17,271	252,252	577,390	2,412,122	17,095	*252,254	*543,590	*2,274,957
Hawaii	1,677	19,072	41,090	171,253	1,638	18,064	35,447	147,845
Honolulu	13,478	207,153	484,407	2,018,954	13,322	*209,981	*463,986	*1,937,440
Kauai	693	8,479	17,467	73,751	682	7,741	14,477	61,375
Maui	1,363	17,461	34,329	147,377	1,322	15,895	28,760	124,269
Statewide	60	87	98	786	131	573	920	4,023

*Revised.

Source: U.S. Bureau of the Census, *County Business Patterns, 1976, Hawaii*, CBP-76-13 (July 1978), p. 15.

**Table 255.—CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP:
1976**

[Excludes government and self-employed workers.]

Major industry group	Number of establishments	Number of employees, mid-March	Payroll (\$1,000)	
			First quarter	Annual
Total	17,271	252,252	577,390	2,412,122
Agricultural services, forestry, fisheries	184	1,380	2,892	12,348
Mining	14	237	710	2,517
Contract construction	1,490	22,038	78,834	320,214
Manufacturing ¹	797	22,935	59,781	257,587
Food and kindred products	193	9,733	24,228	111,951
Apparel and other textile products	129	3,378	5,135	22,042
Transportation and other public utilities	732	24,674	80,600	337,310
Wholesale trade	1,410	15,364	44,626	181,599
Retail trade ¹	4,846	69,132	105,609	444,937
Eating and drinking places	1,315	26,362	30,337	124,726
Finance, insurance and real estate	2,358	21,708	51,900	217,801
Services ¹	5,072	74,194	151,735	631,832
Hotels and other lodging places	215	18,989	33,432	136,311
Health services	1,006	11,981	32,534	139,705
Nonclassifiable establishments	368	590	705	5,975

¹ Includes subgroups not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns, 1976, Hawaii*, CBP-76-13 (July 1978), pp. 1-2.

Table 256.—CHARACTERISTICS OF BUSINESS UNITS, BY EMPLOYMENT-SIZE CLASS: 1976

[Excludes government employees and self-employed persons.]

Employment-size class	Number of establishments	Number of employees, mid-March	Annual payroll (\$1,000)
Total	17,271	252,252	2,412,122
1 to 4	9,135	18,202	171,911
5 to 9	3,359	24,298	200,574
10 to 19	2,332	33,346	271,301
20 to 49	1,544	49,698	431,050
50 to 99	566	39,501	377,063
100 to 249	248	36,084	392,886
250 to 499	49	17,130	163,240
500 to 999	26	18,010	186,425
1,000 or more	12	15,983	217,673

Source: U.S. Bureau of the Census, *County Business Patterns, 1976, Hawaii*, CBP-76-13 (July 1978), pp. 3 and 10.

Table 257.—CORPORATIONS: 1965 TO 1975

Fiscal years ended in —	Number of corporations			Business receipts ¹ (\$1,000,000)			Taxable income, excluding net losses (\$1,000,000)
	— Total	Taxable	Nontaxable	All corporations	Taxable corporations	Nontaxable corporations	
1965	5,744	3,116	2,628	...	...	...	177.7
1966	6,109	3,344	2,765	...	...	...	181.0
1967	6,384	3,463	2,921	3,523	...	...	192.6
1968	6,841	3,948	2,893	4,031	3,113	918	231.7
1969	7,121	4,149	2,972	4,580	3,601	979	229.8
1970	7,821	4,324	3,497	5,302	3,936	1,366	224.4
1971	8,071	4,390	3,681	5,686	3,905	1,781	216.2
1972	8,441	4,666	3,775	6,112	4,144	1,968	241.4
1973	9,263	5,031	4,232	6,838	4,907	1,931	319.3
1974	10,360	5,375	4,985	8,414	6,239	2,175	568.3
1975 (prelim.)	10,965	5,440	5,525	9,425	6,766	2,659	498.1

¹ Comparable data not available before 1967.

² Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

³ Between September 1 and August 31.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns — Corporations* (annual report), and records.

Table 258.—PROPRIETORSHIPS: 1961 TO 1973

Year earned	Number of businesses			Business receipts (\$1,000,000)			Net profit or loss (\$1,000,000)	
	Total	With net profit	With net loss	All businesses	With net profit	With net loss	Profit	Loss
1961	22,316	19,084	3,232	361.1	338.6	22.5	70.9	4.3
1963	23,470	19,619	3,851	404.9	358.0	46.9	78.5	6.3
1965	22,366	19,150	3,216	474.8	440.6	34.2	91.0	5.1
1967	24,325	20,190	4,135	458.7	422.3	36.4	93.4	8.6
1969	25,730	20,853	4,877	577.3	544.2	33.0	129.5	9.6
1971	29,598	21,886	7,712	612.5	561.4	51.2	138.5	13.9
1973	33,143	24,817	8,326	696.0	631.9	64.1	163.3	19.4

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns - Proprietorships* (biennial report).

Table 259.—FINANCIAL AND STOCK MARKET DATA FOR MAJOR HAWAII CORPORATIONS: 1977

Company	Principal business	Total sales, 1977 (\$1,000)	Net income, 1977 (\$1,000)	Standard & Poor's quality rating, Mar. 1978	Price range of stock				Cash dividend per share, 1977	Annual earnings per share, 1977 ¹
					1960-1976		1977			
					High	Low	High	Low		
Amfac, Inc.	Processed food, retail, hotel	1,322,107	16,004	B+	41½	5¾	17¼	13⅞	1.00	1.22
Castle & Cooke	Processed and fresh foods	1,018,764	45,050	A-	26⅞	3⅞	18⅞	13¼	0.727	2.15
Dillingham Corp.	Maritime, construction, property	856,946	4,564	B+	41½	4	12⅞	7	0.52	0.26
Pacific Resources	Petro refining, gas utility	397,050	6,067	B+	15¾	4	9¼	7	0.294	1.00
Alexander & Baldwin	Sugar, shipping	356,466	19,714	B	41¾	6¾	17⅞	14¼	1.20	2.14
Hawaiian Electric	Electric utility	256,334	17,447	A	39⅞	14⅞	26⅞	23¼	1.92	3.15
C. Brewer & Co.	Sugar, land develp., investment	237,116	4,934	B	30	7	17¼	9⅞	0	1.08
Hawaiian Telephone	Telephone utility	195,736	26,621	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Hawaiian Airlines	Hawaii interisland air service	79,487	634	B-	21⅞	1⅞	4½	3⅞	0.15	0.40
Maui Land & Pine	Canned pineapple, land develp.	65,361	3,112	B	21½	5	15	11	0.40	1.95
Amelco Corp. ²	Construction, manf. concrete prd.	54,096	-468	(NR)	—	—	1¼	¾	0	-0.33
Aloha Airlines	Hawaii interisland air service	50,216	1,560	B-	27½	1⅞	4⅞	2⅞	0.10	0.73

NA Not available.

NR Not rated.

¹ Primary basis, excluding extraordinary items.

² For fiscal years ended September 30, stock price as reported by Bache Halsey Stuart Inc., Honolulu.

Source: Corporate annual reports; Standard & Poor's, *Stock Guide*, April, 1978; "C&C Joins Amfac in Billion Dollar Club", *Honolulu Advertiser*, March 21, 1978, p. C-7.

Table 260.—MINORITY-OWNED BUSINESSES, BY MINORITY GROUP: 1972

[Excludes businesses owned by whites, blacks, and persons of Spanish origin.]

Minority group	All firms		With paid employees					Without paid employees		
	Firms (number)	Gross receipts (\$1,000)	Firms (number)	Employees (number)	Gross receipts (\$1,000)	Average employees per firm (number)	Average receipts per firm (\$1,000)	Firms (number)	Gross receipts (\$1,000)	Average receipts per firm (\$1,000)
Hawaii, total	13,634	1,107,996	2,991	30,010	981,296	10	328	10,643	126,700	12
American Indian	11	519	2	(D)	(D)	(D)	(D)	9	(D)	(D)
Chinese	1,389	226,139	369	5,391	211,094	15	572	1,020	15,045	15
Japanese	6,099	510,112	1,686	14,462	446,009	9	265	4,413	64,103	15
Korean	165	15,474	36	(D)	(D)	(D)	(D)	129	(D)	(D)
Filipino	847	9,602	78	269	4,544	3	58	769	5,058	7
Asian Indian	3	(D)	—	—	—	—	—	3	(D)	(D)
Aleutian	1	(D)	—	—	—	—	—	1	(D)	(D)
Hawaiian ¹	393	24,950	68	1,034	22,366	15	329	325	2,584	8
Other minorities	692	150,328	132	3,431	144,829	26	1,097	560	5,499	10
Not specified	4,034	170,849	620	4,969	138,778	8	224	3,414	32,071	9

D Withheld to avoid disclosing figures for individual companies.

¹ Businesses owned by Hawaiians in the five Pacific States numbered 708, and reported gross receipts of \$108,020,000. This included 247 firms with paid employees (reporting averages of 15 employees and \$409,000 in receipts per firm) and 461 firms without paid employees (averaging \$15,000 in receipts per firm).

Source: U.S. Bureau of the Census, *1972 Survey of Minority-Owned Business Enterprises*, MB72-3 (February 1975), pp. 74-77.

COMMUNICATIONS

This section presents statistics on the various communications media: postal service, telephone, telegraph, radio, television, newspapers, and books.

Hawaii is served by all major communications media. In 1977 it had 76 post offices handling 249 million pieces of mail and accounting for postal receipts in excess of \$43 million. There were 628,000 telephones in service (double the number ten years earlier), 274,000 telephone homes, 1.6 billion local calls originated, 7.0 million completed interisland calls, and 17.1 million incoming and outgoing transpacific calls. Telegraph messages to and from Hawaii in 1976 totaled 307,000. The thirty-four commercial and educational radio stations in the Islands early in 1978 included 26 on the regular broadcast band and eight FM stations. The State also had 15 television stations (13 commercial and two educational), including satellites but excluding translators. Ten cable TV companies served 87,000 subscribers. More than 96 percent of all households had television sets, and half of the adults surveyed watched three or more hours daily. Island publishers printed seven daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the three English-language dailies averaged 211,500 in 1976, compared with 190,700 a decade earlier.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, CATV Division of the Hawaii State Department of Regulatory Agencies, Hawaiian Telephone Company, and Audit Bureau of Circulations, and *Hawaii Media Guide*. Data on communications for other States and for the nation as a whole are carried in *Statistical Abstract of the United States: 1977*, Section 19.

Table 261.—POSTAL SERVICE: 1967 TO 1977

Year	Number of post offices ¹	Gross postal receipts ² (\$1,000)	Pieces of mail handled (millions)
1967	80	15,881	149
1968	80	17,617	159
1969	80	20,178	172
1970	80	20,840	187
1971	80	21,976	201
1972	78	23,434	215
1973	77	27,100	226
1974	76	29,663	233
1975	76	33,549	238
1976	76	37,433	242
1977	76	43,790	249

¹ As of June 30. Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations.

² Years ended June 30.

Source: *Annual Report of the Postmaster General for 1967-1970*; *Statistical Abstract of the United States for 1967-1971*; U.S. Postal Service, Honolulu, records.

Table 262.—TELEPHONE SERVICE: 1967 TO 1977

Year	Telephones in service, Dec. 31			Local calls completed (1,000)	Interisland calls		Transpacific calls	
	State total	Oahu	Other islands		Paid ¹	Completed	Paid, in and out ²	Hawaii originated
1967	323,849	268,190	55,659	562,522	1,332,551	1,354,805	2,144,049	1,271,406
1968	352,196	291,317	60,879	585,071	1,624,206	1,649,734	2,594,151	1,558,008
1969	381,982	314,915	67,067	611,919	1,963,219	1,994,026	3,267,601	1,948,391
1970	414,165	339,952	74,213	631,543	2,288,320	2,317,727	3,753,449	2,257,208
1971 ³	445,995	365,733	80,262	667,542	2,569,758	2,607,521	4,476,130	2,517,860
1972	498,593	412,443	86,150	702,346	3,072,319	3,131,881	5,427,667	3,055,018
1973 ⁴	523,699	430,612	93,087	1,016,950	3,754,413	3,804,616	6,813,550	3,794,848
1974	544,718	444,359	100,359	1,078,658	4,494,314	4,564,049	8,619,719	4,775,288
1975	567,685	460,602	107,083	1,046,907	5,156,241	5,352,232	10,703,400	5,907,991
1976	596,952	480,937	116,015	1,138,003	5,850,827	6,139,528	13,621,200	7,448,194
1977	627,848	501,914	125,934	1,175,151	6,838,432	7,028,480	17,102,800	9,484,517

¹ Excludes uncollectables.

² Includes calls paid in Hawaii and elsewhere.

³ Defense Administrative Telephone System (DATS) taken over by Hawaiian Telephone Company in 1971. DATS telephones in service numbered 4,423 (all on Oahu) as of December 31, 1971.

⁴ The sharp increase in completed local calls is attributable in part to a change in the method of estimation.

Source: Hawaiian Telephone Co., records.

Table 263.—TELEPHONE SERVICE, BY ISLAND: 1977

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu, except DATS ¹	DATS ¹	Kauai
Telephones in service ²	627,848	55,941	42,572	836	3,009	476,259	25,655	23,576
Residence main stations ²	273,860	24,363	18,546	593	1,425	218,421	—	10,512
Business main stations ²	67,869	6,237	7,743	103	357	41,604	12,075	2,750
Local calls:								
Originating ³	1,566,868,638	...	...	...	...	...	...	...
Completed ³	1,175,151,479	...	...	...	...	...	...	...
Interisland calls:								
Completed	7,028,480	1,515,366	1,445,579	...	...	3,321,166		746,369
Paid ³	6,838,432	...	...	...	...	...	...	...
Transpacific paid calls:								
Hawaii originating	9,484,517	574,431	795,437	...	...	7,824,649		289,950
Incoming and outgoing ³	17,102,800	...	...	...	...	...	...	...

¹ Defense Agency Telephone Service, all on Oahu.

² As of December 31.

³ Not available by island.

Source: Hawaiian Telephone Company, records.

Table 264.—TELEGRAPH MESSAGES: 1970 TO 1977

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1970	567,550	266,811	198,830	67,981	300,739	236,106	64,633
1971	419,188	201,600	135,581	66,019	217,588	154,506	63,082
1972	392,596	189,214	122,792	66,422	203,382	141,682	61,700
1973	385,823	198,693	136,747	61,946	187,130	116,850	70,280
1974	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977	277,748	142,903	61,512	81,391	134,845	70,826	64,019

Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 265.—PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1967 TO 1977

Year	Honolulu Advertiser ¹	Honolulu Star-Bulletin ¹	Sunday Star-Bulletin and Advertiser ²	Hawaii Tribune-Herald ³	
				Daily	Sunday
1967	67,550	112,182	160,147	10,944	11,124
1968	70,135	115,688	166,171	11,645	11,813
1969	71,835	119,148	168,034	12,473	12,706
1970	74,318	123,765	174,069	13,125	13,469
1971	74,441	124,601	177,929	13,851	14,167
1972	72,723	126,341	181,452	14,250	14,683
1973	74,799	129,561	187,648	15,669	16,045
1974	76,196	121,163	184,528	15,724	16,253
1975	71,937	113,541	179,790	15,843	16,560
1976	75,260	117,514	188,418	16,342	17,359
1977	77,597	117,560	193,143	16,346	17,698

¹ Published daily, Monday through Saturday. Data are six-day averages for six-month periods ended September 30.

² All data are averages for six-month periods ended September 30.

³ Published daily, including Sunday. Data are averages for the fourth quarter (October through December) through 1972 and for six-month periods ended September 30 beginning in 1973.

Source: Audit Bureau of Circulations data supplied by the Hawaii Newspaper Agency, Inc., and the Hawaii Tribune-Herald.

Table 266.—PERIODICALS PUBLISHED IN HAWAII: 1978

Frequency	Newspapers ¹		Magazines and other periodicals
	English	Foreign language	
Daily or 6 times weekly	3	4	—
2 or 3 times weekly	3	—	1
Weekly	2	—	18
Semi-monthly or biweekly	1	—	10
Monthly	—	—	22
2 to 10 times annually	—	—	8

¹ The daily newspapers are: *Honolulu Advertiser*, *Honolulu Star-Bulletin*, and *Hawaii Tribune-Herald* (Hilo), all English-language; *Hawaii Hochi* and *Hawaii Times*, both bilingual (Japanese and English); and *New China Daily Press* and *United Chinese Press*, both Chinese. All but the *Hawaii Tribune Herald* are published in Honolulu.

Source: Aloha United Way, *Hawaii Media Guide* (1978).

Table 267.—BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY PRESS OF HAWAII: 1972 TO 1977

Year	Published titles ¹		New books and journals published ²		Volumes sold ²	Sales revenues ² (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1972 ³	287	231	23	4	(NA)	317,812
1973	319	263	32	4	60,310	402,054
1974	348	283	29	4	66,741	430,069
1975	385	308	37	4	88,799	470,386
1976	431	349	45	4	107,065	511,953
1977	470	378	39	4	140,345	575,006

NA Not available.

¹ As of June 30.

² Year ended June 30.

³ The University Press of Hawaii was established July 22, 1971, by combining the former University of Hawaii Press and East-West Center Press.

Source: The University Press of Hawaii, *Annual Report* (annual).

Table 268.—COMMERCIAL AND EDUCATIONAL RADIO AND TELEVISION BROADCASTING STATIONS IN HAWAII: JANUARY 1, 1978

Kind of station	Commercial stations	Educational stations
Radio, AM	25	1
Radio, FM	8	—
Television, except satellites	7	2
Television satellites	6	—

Source: Federal Communications Commission, Policy and Rules Division, Policy Analysis Branch, records.

Table 269.—TELEVISION WATCHING: 1976

[Based on telephone interviews with 1,000 adults on the six largest islands, conducted in November and December 1976.]

Hours of television watched per day	Percent
Total	100.0
None	6.0
One hour or less	19.1
Two	23.5
Three	18.7
Four	16.3
Five	6.0
Six	3.6
Seven or more hours	5.3
Don't know or refused	1.5

Source: Survey & Marketing Services, Inc., *Analysis of Service and Development of Performance Measurements for State of Hawaii Libraries, Vol. II, A Survey of Residents in Relation to Public Library Use* (Hawaii State Department of Education, Office of Library Services, February 1978), table 4-A, p. 15.

Table 270.—TELEVISION HOUSEHOLDS: SEPTEMBER 1, 1977

Subject	Number
All households	267,100
Television households	257,500
Percent	96.4

Source: NSI audience reports from A.C. Nielsen Co., cited in Standard Rate & Data Services, Inc., *Spot Television Rates and Data*, Vol. 60, No. 1, January 15, 1978, p. 15.

Table 271.—BROADCAST REVENUES AND EXPENDITURES OF COMMERCIAL RADIO AND TELEVISION STATIONS: 1970 TO 1976

Calendar year	Commercial radio				Commercial television			
	Number of stations		Broadcast revenues (dollars)	Broadcast expenses (dollars)	No. of stations ¹		Broadcast revenues (dollars)	Broadcast expenses (dollars)
	In operation	Reporting			In operation	Reporting		
1970	26	25	5,757,859	6,244,077	10	5	7,583,908	8,669,866
1971	27	25	6,247,860	7,018,848	10	5	8,308,597	8,683,276
1972	25	25	7,153,196	7,680,250	10	5	9,400,834	9,375,975
1973	26	25	7,466,577	8,067,173	10	5	10,336,947	9,215,651
1974	28	27	8,138,284	8,942,108	10	5	11,824,511	10,811,204
1975	28	26	8,101,051	8,959,057	10	5	13,752,738	12,265,357
1976	27	27	8,636,100	10,069,359	10	5	16,498,018	14,546,686

¹ Six of the ten stations in operation are satellites. Only one of these satellites reported revenue and expense figures for the years covered.

Source: Federal Communications Commission, Policy Analysis Branch, records.

Table 272.—CABLE TELEVISION COMPANIES, 1961 TO 1977, AND SUBSCRIBERS, 1970 TO 1977
[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Companies:					
1961-1962 ¹	1	1	—	—	—
1963	2	2	—	—	—
1964-1967	4	4	—	—	—
1968	5	4	—	—	1
1969-1970	6	5	—	—	1
1971-1972	7	5	—	1	1
1973	8	5	1	1	1
1974	10	5	3	1	1
1975	10	5	3	1	1
1976	10	5	3	1	1
1977 ²	10	5	3	1	2
Subscribers:					
1970	12,091	11,066	—	—	1,025
1971	13,718	12,581	—	37	1,100
1972	16,887	14,732	—	478	1,677
1973	21,826	18,315	501	950	2,060
1974	34,041	25,979	4,420	1,300	2,342
1975	54,609	43,172	7,019	1,500	2,918
1976	71,499	57,333	9,087	1,651	3,428
1977	87,187	67,607	13,960	1,952	3,668

¹ The first CATV company in Hawaii, Kaiser-Teleprompter, began service April 20, 1961. State regulation of CATV was authorized by Act 112, S.L.H. 1970, effective June 19, 1970.

² One company provided service to both Hawaii and Maui Counties.

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

Table 273.—GROSS REVENUES OF CABLE TELEVISION COMPANIES: 1974 TO 1977
[In thousands of dollars]

Year	State total	City and Co. of Honolulu	Co. of Maui	Co. of Hawaii	Co. of Kauai
1974	2,259	1,561	218	370	111
1975	4,583	3,266	385	737	196
1976	6,321	4,725	343	1,046	207
1977	7,929	6,171	344	1,173	241

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

Table 274.—POSTAGE, TELEPHONE, AND TELEGRAPH RATES, AND NEWSPAPER PRICES: 1970 TO 1978
[In dollars]

Year (as of July 1)	Postage rates (letters, < 1 oz.)		Telephone rates (including tax) for Honolulu					Telegraph rate per full-rate word (non-coded)	Newspaper price ¹	
	Surface	Air	Local call, pay phone	To Hilo ²	To San Francisco		Monthly charge ³		Daily	Sunday
					Direct dialing ⁴	Operator handled ²				
1970	0.06	0.10	0.10	0.99	...	4.29	9.90	0.21	0.10	0.25
1971	0.08	0.11	0.10	0.99	...	4.29	9.90	0.21	0.15	0.35
1972	0.08	0.11	0.10	0.99	4.29	4.29	10.12	0.21	0.15	0.35
1973	0.08	0.11	0.10	0.97	3.27	4.25	10.63	0.21	0.15	0.35
1974	0.10	0.13	0.10	0.97	2.59	3.40	10.53	0.21	0.20	0.45
1975	0.10	0.13	0.10	0.96	2.57	3.37	10.17	0.21	0.20	0.50
1976		0.13	0.10	0.95	2.39	3.34	10.07	0.21	0.20	0.50
1977		0.13	0.10	0.94	1.86	2.84	9.98	0.21	0.20	0.50
1978		0.15	0.15	0.94	1.84	2.81	11.86	0.21	0.20	0.50

¹ Street sales, *Honolulu Advertiser* and *Honolulu Star-Bulletin*.

² Station-to-station operator-handled daytime weekday calls, first three minutes.

³ For an individual residential line.

⁴ Daytime calls, first three minutes. Direct dialing was introduced January 16, 1972.

Source: Office of the Postmaster General, records; Hawaiian Telephone Co., records; Federal Communications Commission, records; newspaper mastheads.

Section 17

ENERGY AND SCIENCE

This section presents statistics relating to electrical, gas and petroleum power and energy, and to scientific resources.

Electricity sales exceeded 5.8 billion kilowatt-hours in 1977, or 7,500 per residential customer. The total has doubled since 1967. Manufactured gas sales reached 34.8 million therms in 1977, 55 percent above the figure ten years earlier. Residential rates in 1977 averaged 5.2 cents per kilowatt-hour and 86 cents per therm, both well above the corresponding rates several years earlier.

The liquid fuel tax base for 1977 was approximately 888 million gallons, compared with 825 million in 1974 and 572 million in 1967. The 1977 total included 311 million gallons of gasoline, 473 million of aviation fuel, and 99 million of diesel oil. The average price for premium gasoline rose from 48.7 cents per gallon in October 1973 to 77.7 cents in April 1978.

Total energy consumption in 1974 amounted to 185 trillion British thermal units, compared with 104 trillion BTU a decade earlier. Transportation accounted for 58 percent of the 1974 total.

The State is well served with scientific resources. A 1976 inventory reported 384 companies and agencies with research or scientific capabilities. Employment in these organizations was more than 34,000. Forty-three patents were granted to Hawaii residents in 1977.

Information on communications, energy and science can be obtained from reports and records of the U.S. Bureau of Mines, Federal Energy Administration, Federal Power Commission, Hawaii State Department of Taxation, Hawaii State Department of Regulatory Agencies, Public Utilities Division, and individual utility companies. Detailed statistics on energy consumption, with special emphasis on petroleum products, appear in *Energy Use in Hawaii*, published by the State Energy Office of the Department of Planning and Economic Development in November 1977. *Hawaii's Scientific Resources, 1977 Directory*, issued by DPED in 1977, contains information on scientific organizations and facilities in the Islands. Data for the nation as a whole can be found in the *Statistical Abstract of the United States: 1977*, Sections 20 and 21.

Table 275.—ELECTRIC UTILITIES: 1967 TO 1977

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1967	196,417	166,256	30,161	829,157	2,832,468	989,785	1,842,684
1968	202,167	171,346	30,821	894,532	3,109,256	1,083,233	2,026,023
1969	210,330	178,569	31,761	896,271	3,426,052	1,174,502	2,251,550
1970	219,003	186,282	32,721	1,007,021	3,758,094	1,270,732	2,487,362
1971	226,514	193,043	33,471	1,016,350	4,167,127	1,375,308	2,791,819
1972	236,309	201,903	34,406	1,135,055	4,562,568	1,493,840	3,068,728
1973	246,255	210,740	35,515	1,266,600	4,867,850	1,581,855	3,285,995
1974	255,901	219,633	36,268	1,419,892	5,113,906	1,635,978	3,477,928
1975	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296

Year	Average annual use (kWh) ¹		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1967	5,953	61,109	.027039	.020037	63,686	26,763	36,923
1968	6,322	65,735	.026803	.020022	69,598	29,034	40,564
1969	6,577	70,890	.026548	.019647	75,418	31,181	44,237
1970	6,822	76,017	.026810	.020113	84,097	34,068	50,029
1971	7,124	83,410	.028229	.021493	98,849	38,823	60,026
1972	7,399	89,192	.02849	.02172	109,217	42,557	66,660
1973	7,506	92,524	.03077	.02367	126,449	48,680	77,769
1974	7,449	95,895	.03493	.02704	151,177	57,149	94,028
1975	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977	7,490	106,474	.05222	.04408	271,553	92,917	178,636

¹ Based on number of customers at end of year.

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

**Table 276.—SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU:
1970 TO 1977**

Year	Number of customers, December 31		Net input ¹ (1,000 KWH)	Power sold (1,000 KWH)	Average annual residential use (KWH)	Average residential rate ² (dollars per KWH)	Installed capacity ³ (KW) 31 December
	Total	Residential only					
1970	168,531	144,854	3,494,059	3,275,673	7,478	0.02438	811,700
1971	174,300	150,285	3,844,325	3,600,728	7,776	0.02555	811,700
1972	180,794	156,249	4,175,342	3,942,679	8,108	0.02584	902,600
1973	187,321	162,180	4,407,460	4,189,397	8,191	0.02812	1,005,200
1974	194,043	168,525	4,641,204	4,393,616	8,110	0.03063	1,140,180
1975	198,598	172,839	4,793,015	4,555,118	7,999	0.04313	1,140,180
1976	201,974	175,581	5,038,978	4,761,592	8,102	0.04385	1,140,180
1977	205,225	179,139	5,209,990	4,911,435	8,035	0.04810	1,140,180

¹ Net generated plus purchased power.

² Based on average number of customers during the year.

³ Maximum generator nameplate.

Source: Hawaiian Electric Co., Inc., records.

Table 277.—ELECTRIC UTILITIES, BY ISLANDS: 1977

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
State total	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
Oahu	205,225	179,139	26,086	1,209,400	4,911,435	1,427,942	3,483,493
Hawaii	30,715	25,312	5,403	124,300	376,808	153,115	223,693
Kauai	13,773	11,607	2,166	62,080	167,035	60,283	106,752
Maui County	25,903	21,499	4,404	85,900	376,332	137,974	238,358
Lanai	844	675	169	—	6,052	3,630	2,422
Maui	23,123	19,306	3,817	79,050	347,091	124,250	222,841
Molokai	1,936	1,518	418	6,850	23,189	10,094	13,095

County or island	Average annual use ¹ (kWh)		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	7,490	106,474	0.05222	0.04408	271,553	92,917	178,636
Oahu	7,971	133,539	0.04740	0.03965	205,820	67,686	138,134
Hawaii	6,049	41,402	0.07298	0.06886	26,577	11,174	15,403
Kauai	5,194	49,285	0.07941	0.08124	13,460	4,787	8,673
Maui County	6,418	54,123	0.06719	0.06891	25,696	9,270	16,426
Lanai	5,378	14,329	0.07270	0.08243	464	264	200
Maui	6,436	58,381	0.06633	0.06717	23,209	8,242	14,967
Molokai	6,650	31,329	0.07576	0.09615	2,023	764	1,259

¹ Based on number of customers at end of year.

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

Table 278.—GAS UTILITIES: 1967 TO 1977
[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1967	36,382	35,000	1,382	22,547	11,348	11,198
1968	36,255	34,955	1,300	23,570	11,331	12,240
1969	36,134	34,829	1,305	25,649	11,848	13,801
1970	36,142	32,163	3,979	27,831	10,891	16,940
1971	36,153	32,072	4,081	30,445	9,279	21,167
1972	36,083	31,806	4,277	33,322	9,321	24,000
1973	35,781	31,142	4,639	34,540	8,931	25,609
1974	35,228	30,620	4,608	34,363	8,096	26,267
1975	34,685	30,236	4,449	35,594	8,230	27,364
1976	34,264	29,873	4,391	35,568	8,121	27,447
1977	33,722	29,408	4,314	34,844	7,612	27,232

Year	Average annual use (therms) ¹		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1967	324	8,103	.3618	.2179	6,546	4,106	2,440
1968	324	9,415	.3618	.2169	6,754	4,099	2,655
1969	340	10,576	.3588	.2156	7,227	4,251	2,976
1970	339	4,257	.3619	.2227	7,714	3,941	3,773
1971	289	5,187	.3699	.2308	8,317	3,432	4,885
1972	293	5,612	.36843	.22681	8,878	3,434	5,444
1973	287	5,520	.37518	.23121	9,272	3,351	5,921
1974	264	5,700	.68361	.52267	19,264	5,535	13,729
1975	272	6,151	.81723	.63583	24,125	6,726	17,399
1976	272	6,251	.82767	.63369	24,115	6,722	17,393
1977	259	6,313	.85883	.65821	24,462	6,537	17,925

¹ Based on number of customers at end of year.

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

**Table 279.—GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU:
1967 TO 1977**

Calendar year	Customers ¹		Gas sold (1,000 therms) ²		Average annual residential usage (therms) ²
	Total	Residential	Total	Residential	
1967	34,237	32,862	21,708	10,701	326
1968	34,079	32,787	22,668	10,666	325
1969	33,908	32,611	24,659	11,102	340
1970	33,851	29,880	26,696	10,026	336
1971	33,691	29,621	29,082	8,290	280
1972	33,479	29,256	31,643	8,258	282
1973	33,142	28,813	32,610	8,041	279
1974	32,455	28,200	32,166	7,522	267
1975	31,856	27,778	32,885	7,600	274
1976	31,443	27,429	32,649	7,490	276
1977	30,926	26,993	31,831	7,007	260

¹ As of December 31. Data for residential customers, 1967-1970, may include a few commercial accounts.

² Includes liquefied petroleum gas.

Source: Gasco, Inc., records.

Table 280.—GAS UTILITIES, BY ISLANDS: 1977
 [Excludes bottled gas.]

Island	Customer, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	33,722	29,408	4,314	34,844,043	7,611,799	27,232,244
Oahu	30,926	26,997	3,929	31,830,654	7,010,868	24,819,786
Hawaii	2,167	1,836	331	2,396,789	454,544	1,942,245
Kauai	232	232	—	64,528	64,528	—
Maui	397	343	54	552,072	81,859	470,213

Island	Average annual use (therms) ¹		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	259	6,313	0.85883	0.65821	24,462	6,537	17,925
Oahu	260	6,317	0.86855	0.66472	22,588	6,090	16,498
Hawaii	248	5,868	0.75063	0.58613	1,480	341	1,139
Kauai	278	—	0.76843	—	49	49	—
Maui	239	8,708	0.69826	0.61238	345	57	288

¹ Based on number of customers at end of year.

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

**Table 281.—TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLAND:
JANUARY 1978**
[In dollars]

Utility and monthly use	Oahu	Hawaii ¹	Kauai	Maui	Molokai	Lanai
Water:						
5/8-inch meter, 5,000 gallons ..	5.70	5.90	4.50	5.65	5.65	2.95
5/8-inch meter, 10,000 gallons ..	7.55	8.55	7.00	8.30	8.30	4.65
1-inch meter, 20,000 gallons ..	13.50	16.85	15.00	19.55	19.55	9.30
1½ inch meter, 50,000 gallons	28.10	37.50	35.00	44.75	44.75	22.00
Electricity:²						
100 kilowatt-hours	9.44	13.28	10.77	10.97	13.61	11.29
250 kilowatt-hours	17.52	23.75	21.74	20.83	24.58	21.62
500 kilowatt-hours	28.98	37.61	37.84	34.45	40.47	36.03
750 kilowatt-hours	40.55	51.31	53.38	48.13	56.65	50.50
1,000 kilowatt-hours	52.51	65.52	68.92	62.30	73.43	65.46
Gas:						
10 therms	10.35	9.46	9.58	8.25	...	...
25 therms	21.36	19.86	21.05	18.19	...	...
50 therms	43.23	39.74	43.33	37.69	...	...
100 therms	80.23	73.34	80.83	70.64	...	...
Telephone:³						
Individual line	9.50	8.50	8.10	8.10	6.95	6.25
Two-party line	7.80	7.15	6.85	6.85	5.90	5.35

¹Water rates are those for South Hilo, North and South Kohala, and Ka'u; for other districts, add 12¢ per 1,000 gallons. Gas rates are those for South Hilo.

²Includes fuel adjustment surcharge.

³Excludes Federal excise tax (4 percent for 1978).

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division; Honolulu Board of Water Supply; Hawaii County Department of Water Supply; Kauai County Department of Water; Maui County Department of Water Supply; Koele Company, Inc.

Table 282.—BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1977

Island	Power boilers	Heating boilers	Pressure vessels ¹
State total	668	2,392	4,502
Hawaii	90	236	653
Maui	60	161	532
Lanai	3	2	24
Molokai	5	29	30
Oahu	461	1,849	3,032
Kauai	49	115	231

¹ Five cubic feet or more.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, records.

Table 283.—LIQUID FUEL TAX BASE: 1967 TO 1977

[In thousands of gallons. Excludes residual fuel, used in the generation of electrical power.]

Year reported ¹	All types	Gasoline	Diesel oil		Liq. pet. gas		Aviation fuel	Small boats	
			Non-hwy.	Hwy. use	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1967	572,354	188,717	39,569	5,511	457	139	336,359	250	1,351
1968	619,803	197,663	41,213	6,566	781	253	371,686	227	1,415
1969	743,255	223,088	49,147	7,703	674	242	460,753	226	1,424
1970	754,632	235,178	58,129	8,029	814	274	450,474	214	1,519
1971	809,628	250,191	57,405	8,852	1,044	579	489,767	231	1,559
1972	827,825	261,452	65,163	9,523	1,231	702	487,743	264	1,747
1973	882,932	281,122	74,608	11,159	1,909	453	511,502	280	1,899
1974	824,653	270,267	75,124	11,539	2,093	789	463,728	312	801
1975	839,289	284,552	75,120	12,710	1,823	1,380	462,384	411	908
1976	850,261	295,704	79,884	13,561	1,858	1,054	456,819	464	917
1977	888,136	311,409	85,484	13,817	2,036	1,280	472,654	558	899

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

Source: Hawaii State Department of Taxation, "Tax Base for Certain Taxes," "Comparison of Liquid Fuel Tax Collections & Distribution for Two Years," and "Liquid Fuel Tax Base and Tax Collections" (annual reports).

Table 284.—DOMESTIC DEMAND FOR PETROLEUM PRODUCTS: 1967 TO 1976

[Barrels daily]

Calendar year	Total	Usage		Product			
		Military ¹	Civilian	Gasoline	Jet fuel	Residual fuel oil	Other products ²
1967 ³	64,517	567	63,950	13,206	21,855	23,901	5,555
1968	71,700	753	70,947	13,674	25,637	26,585	5,804
1969	77,710	1,743	75,967	14,394	28,988	27,389	6,939
1970	79,622	3,321	76,301	14,901	31,373	26,460	6,888
1971	85,592	1,051	84,541	16,187	32,332	30,156	6,917
1972	90,480	2,671	87,809	17,333	32,688	31,735	8,724
1973	93,025	3,460	89,565	18,058	33,778	31,907	9,282
1974	89,860	5,164	84,696	19,661	30,241	30,704	9,254
1975	87,970	3,121	84,849	17,858	30,605	30,532	8,975
1976	90,363	2,642	87,721	19,891	29,811	30,664	9,997

¹ Excludes imports and direct shipments.

² Liquefied gases, kerosine, distillate fuel oil, lubricating oils and greases, asphalt and road oil, etc.

³ Earliest year available.

Source: U.S. Bureau of Mines, "District V Military and Civilian Petroleum Demand," *Mineral Industry Surveys* (for 1967 to 1969); "Crude Petroleum, Petroleum Products, and Natural Gas Liquids in P.A.D. District V," *Mineral Industry Surveys* (for 1970 to 1974); U.S. Department of Energy, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids in P.A.D. District V," *Energy Data Reports* (for 1975 and 1976).

Table 285.—DOMESTIC DEMAND FOR PETROLEUM PRODUCTS: 1975 AND 1976
[Barrels daily]

Item	Total		Military ¹		All other	
	1975	1976	1975	1976	1975	1976
Total petroleum	87,970	90,363	3,121	2,642	84,849	87,721
Liquefied gases	1,134	1,128	—	—	1,134	1,128
Fuel uses	1,134	1,128	—	—	1,134	1,128
Other	—	—	—	—	—	—
Gasoline	17,858	19,891	154	596	17,704	19,295
Motor	17,644	19,637	154	596	17,490	19,041
Aviation	214	254	—	—	214	254
Special naphthas and solvents ..	121	112	—	—	121	112
Jet fuel	30,605	29,811	2,759	1,705	27,846	28,106
Naphtha-type	2,759	1,694	2,759	1,694	—	—
Kerosine-type	27,846	28,117	—	11	27,846	28,106
Kerosine	38	246	3	8	35	238
Distillate fuel oil	5,871	6,571	205	333	5,666	6,238
Lubricating oils and greases ..	244	276	—	—	244	276
Residual fuel oil	30,532	30,664	—	—	30,532	30,664
Asphalt and road oil	1,099	1,128	—	—	1,099	1,128
All other finished and unfinished oils	—	—	—	—	—	—
Still gas	468	536	—	—	468	536

¹ Excludes imports and direct shipments.

Source: U.S. Department of Energy, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids in P.A.D. District V, Year 1976," *Energy Data Reports*, February 17, 1978, pp. 3-4.

Table 286.—ENERGY CONSUMPTION, BY TYPE AND CONSUMING SECTOR: 1960 TO 1974
 [In trillion British thermal units]

Year	Gross consumption								Utility electricity distributed	Net consumption
	Total gross consumption	By energy type ¹		By consuming sector						
		Petroleum products	Hydro-power	Household and commercial	Industrial	Transportation ²	Electric power	Miscellaneous ²		
1960	76.1	75.9	0.2	1.4	8.7	41.8	23.1	1.1	6.2	59.2
1961	94.5	94.3	0.2	3.5	11.5	54.3	24.3	0.9	6.9	77.1
1962	86.0	85.8	0.2	4.2	10.1	43.5	26.1	2.1	7.4	67.3
1963	93.4	93.1	0.3	4.2	9.2	49.9	27.7	2.4	7.8	73.5
1964	103.7	103.3	0.4	3.7	10.4	57.1	30.4	2.1	8.6	81.9
1965	109.6	109.3	0.3	4.1	10.5	60.7	30.9	3.4	9.2	87.9
1966	122.0	121.7	0.3	4.0	10.8	70.5	33.2	3.5	9.9	98.7
1967	135.1	134.8	0.3	4.0	7.5	81.6	31.4	10.6	10.6	114.3
1968	152.1	151.9	0.2	5.1	11.3	97.5	34.6	3.6	11.7	129.2
1969	163.3	163.0	0.3	6.5	13.4	103.7	38.5	1.2	12.9	137.7
1970	169.9	169.7	0.2	7.9	14.0	104.0	43.0	1.0	14.1	141.0
1971	180.7	180.5	0.2	6.7	12.8	113.3	47.5	0.4	15.6	148.8
1972	186.3	186.1	0.2	6.2	13.3	111.6	52.8	2.4	17.3	150.8
1973	192.4	192.2	0.2	5.8	12.5	115.6	55.5	3.0	18.2	155.1
1974	184.9	184.7	0.2	5.9	10.6	107.5	57.5	3.4	19.2	146.6

¹ No consumption of anthracite, bituminous coal and lignite, natural gas, or nuclear power was recorded in this period.

² Highway use of distillate fuel oil needed in "miscellaneous" in 1967.

Source follows next table.

Table 287.—PETROLEUM CONSUMPTION, BY TYPE AND CONSUMING SECTOR: 1964, 1973 AND 1974

Petroleum product and consuming sector	Thousand barrels			Trillion British thermal units		
	1964	1973	1974	1964	1973	1974
Total	17,739	33,303	32,008	103.3	192.2	184.7 ^a
Type of petroleum:						
Gasoline	4,414	6,589	6,615	23.2	34.6	34.7
Jet fuel	3,468	11,970	10,601	19.7	67.9	60.1
Kerosine	48	41	75	0.2	0.2	0.4
Distillate fuel oil	1,769	1,839	1,997	10.3	10.7	11.6
Residual fuel oil	7,539	11,580	11,495	47.3	72.8	72.3
Liquefied petroleum gases	259	941	966	1.0	3.7	3.9
Asphalt	242	343	259	1.6	2.3	1.7
Consuming sector:						
Household and commercial	636	1,143	1,145	3.7	5.8	5.9
Industrial	1,731	2,144	1,851	10.4	12.5	10.6
Transportation	10,246	20,718	19,337	57.1	115.6	107.5
Electric power	4,783	8,816	9,137	30.0	55.3	57.3
Miscellaneous	343	482	538	2.1	3.0	3.4

Source of tables 286 and 287: U.S. Bureau of Mines, *Historical Fuels and Energy Consumption Data, 1960-72, United States by States and Census Districts West of the Mississippi*, by L.H. Crump (Information Circular 8705, 1976), pp. 72-77; *Fuels and Energy Data: United States by States and Census Divisions, 1973*, by L.H. Crump (Information Circular 8722, 1976), pp. 41 and 93; and *Fuels and Energy Data: United States by States and Census Divisions, 1974*, by L.H. Crump (Information Circular 8739, 1977), pp. 53 and 144.

Table 288.—AVERAGE PRICE PER GALLON FOR GASOLINE, FOR URBAN OAHU: 1973 TO 1978
 [In dollars. Average prices include all applicable taxes.]

Year	Leaded regular gasoline ¹		Unleaded regular gasoline ²		Premium gasoline ¹	
	April	October	April	October	April	October
1973 .....	...	0.452	...	...	...	0.487
1974	0.568	.593	...	...	0.602	.623
1975 .....	.623	.698	...	...	.654	.740
1976 .....	.673	.704	0.682	0.712	.710	.739
1977 .....	.711	.721	.723	.740	.752	.765
1978 ³ .....	.727	...	.750	...	.777	...

¹ Earliest available month is October 1973.

² Earliest available month is January 1976 (\$0.696).

³ The U.S. city average in April, 1978 was \$0.627 for leaded regular, \$0.667 for unleaded regular, and \$0.687 for premium gasoline. Among the 23 metropolitan areas surveyed monthly, Honolulu ranked first for all three types of gasoline.

Source: U.S. Bureau of Labor Statistics, *Retail Prices and Indexes of Fuels and Utilities, Residential Usage* (monthly).

Table 289.—ENERGY USED IN AGRICULTURE: 1974

Subject	Units	Amounts
All energy used	Billion BTU's	6,511
Crops	Billion BTU's	6,214
Sugar cane	Billion BTU's	4,667
Pineapples	Billion BTU's	345
Other and unspecified	Billion BTU's	1,202
Livestock	Billion BTU's	297
Gasoline	1,000 gallons	8,976
Diesel	1,000 gallons	6,493
Fuel oil	1,000 gallons	40
LP gas	1,000 gallons	173
Natural gas	1,000 MCF	—
Coal	Tons	—
Electricity	Million KWH's	707
Invested ¹	Billion BTU's	2,043
Irrigation, total	Billion BTU's	2,465
Gasoline	1,000 gallons	723
Electricity	Million KWH's	696
Fertilizers, total	Billion BTU's	1,882
Nitrogen	1,000 lbs. ²	52,944
Phosphate	1,000 lbs. ²	22,835
Potash	1,000 lbs. ²	25,407
Pesticides, total	Billion BTU's	161
Herbicide	1,000 lbs. ³	857
Insecticide	1,000 lbs. ³	595
Fungicide and other	1,000 lbs. ³	—

¹ Energy required to manufacture fertilizers and pesticides (including carrier solution).

² Of (N), (P2O5), and (K2O).

³ Of active ingredient.

Source: Federal Energy Administration, *Energy and U. S. Agriculture: 1974 Data Base*, Vol. 1 (September 1976), pp. 69-72.

Table 290.—SCIENTIFIC ORGANIZATIONS AND RESOURCES: 1976

Type of organization	Number of organizations	Employment		
		Total	Professional	Technical
Total employing organizations	384	34,449	7,346	10,729
Organizations with scientific capabilities	98	14,528	2,447	3,253
Computer science companies	54	2,510	697	1,096
R & D and allied companies	43	1,541	453	400
Testing laboratories	31	1,060	305	288
Private research agencies	39	778	299	118
Government agencies	119	14,032	3,145	5,574
Federal civilian	24	1,424	257	715
Military	10	6,118	676	3,705
State, except University of Hawaii	36	3,218	1,087	613
University of Hawaii	33	1,497	756	294
County	16	1,775	369	247

Subject	Number	Subject	Number
Professional associations:		Colleges and universities:	
Number of associations	44	Number of units	34
Regular membership	11,749	Full-time enrollment ¹	37,770
Associate membership	753	Part-time enrollment ¹	38,805
Scientific libraries:		Business and technical schools:	
Number of libraries	22	Number of units	4
Number of scientific books	846,436	Full-time enrollment ¹	763
		Part-time enrollment ¹	162

¹Spring 1976. Because of differences in coverage and definition, these data differ from those in Section 3

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Scientific Resources, 1977 Directory*, 8th edition (1977), p. 5.

**Table 291.—PATENTS GRANTED TO HAWAII
RESIDENTS: 1970 TO 1977**

Year	Patents
1970	50
1971	37
1972	26
1973	50
1974 ¹	55
1975 ¹	61
1976	51
1977	43

¹ Fiscal year ended June 30. Includes reissues.
Source: *Annual Report of the Commissioner of Patents*;
U.S. Department of Commerce, Patent and Trademark
Office, records.

Section 18

TRANSPORTATION

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

Most local travel in Hawaii is by private automobile. Motor vehicle registration increased from 335,000 in 1967 to 446,000 in 1972 and 562,000 in 1977. Vehicle miles rose during the same period from 2.7 billion to 4.5 billion. Hawaii residents purchased 46,500 new passenger cars in 1977 and scrapped or shipped out approximately 25,000. By the end of 1977, 541,000 licensed drivers had access to 3,828 miles of streets and highways throughout the State. There was a corresponding rise in the use of local bus service: passengers carried by the Honolulu Mass Transit Lines increased from 19.4 million in 1971 to 66.3 million in 1977. Registered bicycles numbered 108,000 in 1974 and 84,000 in 1977.

Most 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. Interisland steamer service was discontinued in 1949; hydrofoil service was initiated between Honolulu and other Island ports in 1975 and suspended early in 1978. In 1977, the two scheduled airlines and a number of air taxis reported 6.4 million interisland passengers, more than three times their 1967 total, while hydrofoil passengers numbered 270,000. The State has 11 commercial airports, 45 general aviation, military, or private airports, 18 civilian heliports, 3,241 active pilots, and 386 active civil aircraft.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 5,900 in 1977, air passengers increased during the same 18-year span from 224,000 to 3.7 million. Between 1936 and 1978, sharp declines occurred in both scheduled flight time between California and Hawaii (from 20 to 5 hours) and minimum roundtrip fare (from \$712 to \$242). Overseas cargo received in the State in 1976 amounted to 68,000 tons by air and 9.2 million tons by ship.

Undocumented State-registered vessels as of December 31, 1977, numbered 13,165, compared with 8,042 in 1970. Median length was 17 feet, and four-fifths were stored on land. There were also 924 documented vessels in the State in 1977, more than triple the 1965 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Land, Water, and Air Transportation Facilities Divisions. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Hawaii State Public Utilities Commission, Honolulu Department of Transportation Services, County finance departments, Cardinal Mailing Services, and individual transportation companies. Similar statistics for other areas are reported in *Statistical Abstract of the United States: 1977*, Sections 22 and 23.

**Table 292.—MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1970 TO 1977**

Year (December 31)	Total	Paved	Unpaved
1970	3,529.10	3,047.10	482.00
1971	3,598.95	3,098.51	500.44
1972	3,611.48	3,117.38	494.10
1973	3,665.84	3,171.58	494.26
1974	3,659.44	3,269.83	389.61
1975	3,743.44	3,354.59	388.85
1976	3,797.24	3,436.53	360.71
1977 ¹	3,827.65	3,505.89	321.76
ISLANDS: 1977			
Hawaii	1,438.18	1,278.49	159.69
Maui	582.14	505.39	76.75
Lanai	45.79	31.79	14.00
Molokai	124.73	112.73	12.00
Oahu	1,306.01	1,269.53	36.48
Kauai	330.80	307.96	22.84
Niihau	—	—	—

¹Includes 41.4 miles of freeways (all on Oahu) and 11,220 feet of highway tunnel (10,903 on Oahu and 317 on Maui, counting each bore separately).

Source: Hawaii State Department of Transportation, Division of Land Transportation Facilities, records.

Table 293.—HIGHWAY BRIDGES, BY ISLAND: 1977

Island	Longest highway bridge		Highest highway bridge	
	Location	Length (feet)	Location	Height (feet)
Hawaii	Hakalau	775	Nanue, Hilo	208
Maui	Kalialinui	325	Unnamed, Hana Rd.	83
Lanai	Keomuku	25	Not available .....	...
Molokai	Manawainui	325	Manawainui	50
Oahu	Pearl City Viaduct	5,946	Kipapa	160
Kauai	Kalihiwai	798	Wahiawa, Koloa	98

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, data supplied May 1977.

Table 294.—MAXIMUM GRADES, HEIGHTS, AND TRAFFIC, FOR STREETS AND HIGHWAYS: 1976

Subject and island	Street or highway	Amount
Steepest streets and highways (percent grade):		
Hawaii	Waipio Valley Road 1/3-mile below lookout	26.0
	Kuakini Houselot Subdiv. Rd., N. Kona	23.0
	Stainback Hwy., 12 miles from Volcano Rd.	16.0
Maui	Hapapa Road	26.0
	Pulehuiki Rd., off Kula Hwy.	19.6
Lanai	Manele Road	9.4
Molokai	Pano Place	12.0
Oahu	Huali St., below Prospect St., Punchbowl	24.0
	Alencastre St., St. Louis Heights	19.0
	Tantalus Drive and Roundtop Drive	19.0
	Wilhelmina Rise	19.0
Kauai	Kuli Road, Kalaheo	25.7
	Wainiha Powerhouse Road, Haena	19.5
Highest streets and highways (feet above sea level):		
Hawaii	Road to Mauna Kea	13,631
	Saddle Road, 30½ miles from Hilo	6,630
Maui	Haleakala Road	10,000
Lanai	Lanaihale Road	3,370
Molokai	Road to Waikolu	3,600
Oahu	FAA Road to Kaala	4,020
	Palehua Road	2,700
Kauai	Kokee Road	4,120
Busiest intersections (vehicles per 24-hour period):		
Hawaii	Kamehameha Ave. and Kanoelehua Ave.	55,560
Maui	Kaahumanu Ave. and Kahului Beach Rd.	73,250
Lanai ¹	Kaumalapau Hwy. and Manele Rd.	2,530
Molokai ¹	Kam V Hwy. and Ala Malama St.	12,670
Oahu	Kalihi Interchange, H-1 Frwy. and Kalihi St.	334,260
	Kam Hwy., Puuloa Rd., Nimitz Hwy., and Lagoon Dr.	193,450
	Kapiolani Blvd., King St., and South St.	49,080
Kauai ²	Kuhio Hwy., Ahukini Rd., and Oxford St.	43,430

¹ 1974 data.

² 1975 data.

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

**Table 295.—SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLAND:
DECEMBER 31, 1977**

Type of facility and control	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections	523	28	13	—	—	477	5
Under State control ¹	215	5	13	—	—	197	—
Under County control	308	23	—	—	—	280	5
Metered on-street parking spaces	3,542	534	—	—	—	3,008	—
Under State control	75	—	—	—	—	75	—
Dept. of Acctg. & General Services	8	—	—	—	—	8	—
Dept. of Transportation	67	—	—	—	—	67	—
Under County control	3,467	534	—	—	—	2,933	—
Metered off-street parking spaces	4,092	409	26	—	18	3,568	71
Under State control	1,403	120	26	—	18	1,168	71
Dept. of Acctg. & General Services	413	56	26	—	—	306	25
Dept. of Transportation	990	64	—	—	18	862	46
Under County control	2,689	289	—	—	—	2,400	—

¹ All under the Department of Transportation.

Source: Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

**Table 296.—MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES:
1967 TO 1977**

Year	Motor vehicle registration ¹			Highway fuel consumption ²		Vehicle miles of travel ³	
	Total	Passenger cars	Other motor vehicles ⁴	Total (1,000 gallons)	Gallons per vehicle	Total (millions)	Per vehicle
1967	335,326	297,766	37,560	194,368	580	2,721.1	8,114
1968	353,888	315,024	38,864	209,597	592	2,934.4	8,292
1969	373,541	332,213	41,328	225,917	605	3,162.8	8,467
1970	404,463	358,255	46,208	243,482	602	3,408.9	8,428
1971	425,210	375,205	50,005	261,476	615	3,660.7	8,609
1972	446,355	392,179	54,176	268,407	601	3,757.7	8,414
1973	476,759	416,663	60,096	289,847	608	4,057.9	8,511
1974 ⁵	487,647	423,642	64,005	279,996	574	3,919.9	8,038
1975 ⁵	501,783	434,088	67,695	296,160	590	4,146.2	8,263
1976 ⁵	536,514	462,685	73,829	308,151	574	4,314.1	8,041
1977 ⁵	561,575	484,224	77,351	324,449	578	4,542.3	8,088

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

² Includes gasoline, diesel oil, and butane gas.

³ Based on an average of 14 miles per gallon.

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

⁵ Adjusted to include vehicles operated by members of the armed forces in Hawaii but registered elsewhere.

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, annual releases and records.

Table 297.—VEHICLE REGISTRATION AND USE AND DRIVERS LICENSES IN FORCE, BY COUNTIES: 1977

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered, total ¹	561,575	423,118	60,317	26,912	51,228
Passenger cars	484,224	375,100	46,671	21,301	41,152
Ambulances and hearses	60	32	13	5	10
Buses	2,391	1,692	294	144	261
Trucks	72,676	44,722	12,908	5,462	9,584
Tractor-trucks	2,224	1,572	431	—	221
Other motor vehicles	—	—	—	—	—
Other vehicles registered: ¹					
Trailers and semi-trailers	19,373	12,637	3,179	1,889	1,668
Motorcycles and motor scooters	6,104	4,546	579	253	726
Highway fuel consumption (1,000 gal.)	324,449	243,127	37,832	14,762	28,728
Per motor vehicle (gallons)	578	575	627	549	561
Vehicle miles (millions)	4,542.3	3,403.8	529.6	206.7	402.2
Per vehicle (miles)	8,088	8,045	8,781	7,679	7,851
Drivers licenses in force, Dec. 31	540,952	423,946	51,737	23,535	41,734

¹ Taxable and non-taxable. Includes vehicles operated by members of the armed forces in Hawaii but registered elsewhere. Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, records.

Table 298.—TAXIS, BY COUNTY: 1970 TO 1977

Year (Dec. 31)	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui			
					County total	Lanai	Maui	Molo-kai
1970	1,567	1,434	57	28	48	2	42	4
1973	1,847	1,680	56	26	85	2	77	6
1974	1,802	1,612	55	24	111	2	101	8
1975	1,683	1,487	55	31	110	...	...	...
1976	1,799	1,589	62	45	103	2	98	3
1977	1,821	1,609	63	46	103	2	98	3

Source: County departments of finance, records.

Table 299.—REGISTERED BICYCLES, BY COUNTIES: 1970 TO 1977

Year	State total ¹	City and County of Honolulu	County of Hawaii	County of Kauai ²	County of Maui ³
1970	34,530	28,749	2,489	...	3,292
1971	52,485	44,159	2,735	2,141	3,450
1972	79,188	68,620	3,766	2,729	4,073
1973	91,052	79,177	3,947	3,049	4,879
1974	107,826	91,504	6,118	4,034	6,170
1975	99,910	85,976	4,927	3,693	5,314
1976	89,018	78,220	3,781	2,890	4,127
1977	84,148	75,276	2,815	2,550	3,507

¹Excludes Kauai before 1971.

²Records before 1971 lost in fire.

³Includes Maui (3,169 in 1977), Molokai (167), and Lanai (171).

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

Table 300.—AUTOMOBILES AVAILABLE AND MEANS OF TRANSPORTATION TO WORK: 1960 AND 1970

Number of automobiles available	Households		Means of transportation to work	Workers	
	1970	1960		1970	1960
All households	203,089	153,012	All workers ¹	327,310	248,406
None	22,170	25,871	Private automobile, driver	213,521	} 156,992
1	93,854	88,320	Private automobile, passenger	44,493	
2	69,343	32,577	Bus	19,470	20,039
3 or more	17,722	6,244	Walked only	33,003	22,214
			Other means	11,296	10,173
Percent two or more	42.9	25.4	Worked at home	5,527	32,843

¹ Includes not reported (6,145 in 1960).

Source: *U.S. Census of Housing: 1960*, Final Report (HC(1)-13, table 6; *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 64; *U.S. Census of Housing: 1970*, Final Report HC(1)-B13, table 36; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 50.

**Table 301.—COMPONENTS OF CHANGE IN PASSENGER MOTOR VEHICLE REGISTRATION:
1963 to 1977**

Year	Number of passenger cars			Out-shipments of automobiles and auto parts (tons) ²
	Net increase ¹	New registrations	Scrapped or shipped out	
1963	12,336	19,442	7,106	14,693
1964	16,827	23,898	7,071	18,024
1965	19,310	27,431	8,121	11,676
1966	13,277	28,502	15,225	11,861
1967	10,930	28,608	17,678	8,662
1968	17,258	33,917	16,659	9,260
1969	17,189	39,148	21,959	9,212
1970	26,042	36,627	10,585	11,050
1971	16,950	35,984	19,034	16,157
1972	16,974	37,484	20,510	14,394
1973	24,484	41,919	17,435	16,420
1974	6,979	30,932	23,953	31,423
1975	10,446	33,693	23,247	21,396
1976	28,597	38,006	9,409	18,627
1977	21,539	46,542	25,003	(NA)

NA Not available.

¹ From previous registration year.

² Excludes parts before 1965.

Source: Net increase from Hawaii State Department of Transportation, Land Transportation Facilities Division. New registrations from R.L. Polk & Co. data in the Federal Reserve Bank of San Francisco. *Western Economic Indicators* (bimonthly) and data from Cardinal Mailing Services, Ltd., in this section. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual). Vehicles scrapped or shipped out computed as a residual.

Table 302.—NEW PASSENGER CAR AND TRUCK REGISTRATIONS, DOMESTIC AND FOREIGN, BY COUNTIES: 1977

Kind, origin, and make of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Passenger cars	46,542	35,439	4,986	1,511	4,606
Domestic ¹	26,189	19,942	2,671	876	2,700
Buick	1,820	1,591	57	33	139
Chevrolet	5,217	4,011	588	119	499
Dodge	3,494	2,112	443	210	729
Ford	6,963	5,812	520	145	486
Mercury	1,280	902	249	64	65
Oldsmobile	1,364	1,108	103	29	124
Plymouth	2,665	1,845	317	197	306
Pontiac	1,342	1,218	54	8	62
Other makes ²	2,044	1,343	340	71	290
Foreign ¹	20,353	15,497	2,315	635	1,906
Datsun	3,768	2,542	215	164	847
Honda	2,229	1,819	112	120	178
Mazda	1,030	800	83	29	118
Toyota	7,343	5,276	1,568	152	347
Volkswagen	3,496	2,857	192	141	306
Other makes ²	2,487	2,203	145	29	110
Trucks	7,008	4,498	1,270	390	850
Domestic ¹	4,682	3,002	878	248	554
Chevrolet	2,014	1,460	272	75	207
Ford	1,611	993	336	90	192
Other makes ²	1,052	549	270	78	155
Foreign ¹	2,331	1,496	392	147	296
Datsun	1,450	935	210	83	222
Other makes ²	881	561	182	64	74

¹ Vehicles manufactured abroad but sold under domestic nameplates (such as the Dodge Colt or Ford Fiesta) are included in the domestic subtotals.

² Under 1,000 Statewide sales.

Source: Motor Vehicle Registrations-Hawaii, A Division of Cardinal Mailing Services, Ltd., release for December 1977.

Table 303.—MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1970 TO 1977

Year	Major traffic accidents ¹		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1970	18,172	136	11,743	153
1971	18,048	131	10,934	154
1972	18,259	126	11,141	146
1973	19,544	119	11,860	136
1974	14,855	119	10,022	129
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977 ²	16,188	138	12,245	154
COUNTIES: 1977				
Honolulu	12,193	84	9,096	90
Hawaii	1,868	26	1,564	30
Kauai	616	8	398	9
Maui ²	1,511	20	1,187	24

¹ Traffic accidents with damage of \$300 or more (\$100 or more before July 1, 1974) or causing injury or death.

² Death total includes one reported for Maui County after completion of tabulations for 1977.

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, *Major Traffic Accidents, State of Hawaii, 1977* (July 1978), pp. 1, 4, 6, 8, and 9.

Table 304.—BUS SERVICE, FOR OAHU: 1970 TO 1977
 [Service provided by Honolulu Rapid Transit Co., Ltd., through 1970 and by Mass Transit Lines beginning in 1971]

Year	Buses, Dec. 31	Bus mileage ¹	Passengers								
			Total	Adults	Students	Revenue transfers	Stadium express	Chartered service ²	Senior citizens	School subsidy	Free transfers
1970 ³	141	4,611,357	30,434,906	20,667,713	2,866,354	—	—	159,480	—	—	6,741,359
1971 ⁴	108	2,986,724	19,413,259	12,845,695	1,855,745	—	—	—	1,994,747	41,658	2,675,414
1972 ⁵	143	4,964,044	31,031,764	16,572,443	5,459,399	93,225	—	21,935	3,614,840	81,108	5,188,814
1973 ⁶	315	7,973,393	36,741,009	18,791,719	7,044,095	293,682	—	31,653	4,163,482	77,926	6,338,452
1974 ⁷	333	11,670,774	50,519,626	25,348,211	10,418,417	107,035	—	35,593	5,521,982	87,236	9,001,152
1975	350	13,328,501	58,295,732	28,466,844	12,691,968	—	7,106	48,079	7,033,193	95,488	9,953,054
1976	350	15,547,127	64,585,334	31,371,327	14,365,046	—	12,327	46,874	7,329,002	115,932	11,344,826
1977	350	16,242,537	66,311,882	32,223,015	14,899,375	—	11,575	34,428	7,337,243	76,532	11,729,714

¹ Includes mileage for regular public bus lines, school subsidies, and chartered services.

² Under HRT, chartered services were provided for both public and private groups, including special events, excursions and field trips. Under MTL, service is provided for intercity functions.

³ Passenger total excludes 2,277,502 zone fares; total revenue passengers (adult, student, and chartered) numbered 23,693,547. Under HRT, service was limited largely to Honolulu and Halawa. Service was suspended during a one-day strike in August 1970.

⁴ Bus service by HRT was terminated by a strike that began January 1, 1971 and is still in progress. MTL commenced service on March 1, 1971, with routes extending from Kalihi to Hawaii Kai.

⁵ Service provided from Pearl Harbor to Hawaii Kai; extended to Windward Oahu and North Shore on August 13, 1972.

⁶ Service extended to Waianae coast in April 1973.

⁷ Islandwide service after March 15, 1974, when MTL began operation of Leeward Bus Company lines.

Source: City and County of Honolulu, Department of Transportation Services, Bus Systems Division, records.

**Table 305.—CHRONOLOGY OF HONOLULU PUBLIC TRANSIT FARES:
1868 TO 1977**

Company and effective date	Full fares		School fares	
	Cash ¹	Tokens or tickets	Cash	Tokens or tickets
PIONEER OMNIBUS LINE²				
1868: Spring .....	.25	6/1.00	...	...
HAWAIIAN TRAMWAYS, LTD.³				
1888: Dec. 28 .....	.05	...	...	...
HONOLULU RAPID TRANSIT⁴				
1901: Aug. 31 .....	.05	.05	...	.025
1924: Oct. 1 .....	.07	4/ .25	...	3/ .10
1928: Apr. 15 .....	.10	2/ .15	...	4/ .15
1934: Sept. 1 .....	.10	2/ .15	.05	...
1941: Jan. 1 .....	.10	2/ .15	.05	4/ .15
1943: July 1 .....	.10	3/ .20	.05	3/ .10
1946: July 1 .....	.10	5/ .40	.05	5/ .20
1948: June 1 .....	.10	...	.05	5/ .20
1949: Sept. 1 .....	.10	...	.05	...
1951: June 16 .....	.13	2/ .21	.05	...
1952: Apr. 1 .....	.13	2/ .25	.05	...
1952: Sept. 24 .....	.15	3/ .40	.06	5/ .25
1953: Sept. 10 .....	.20	2/ .30	.10	5/ .30
1957: Apr. 16 .....	.20	2/ .30	.15	5/ .50
1959: Mar. 7 .....	.20	5/ .75	.15	5/ .50
1961: Apr. 5 .....	.20	5/ .85	.15	5/ .50
1961: May 8 .....	.25	5/ .85	.15	5/ .50
1961: May 29 .....	.25	5/1.00	.15	5/ .50
CITY BUS SERVICE⁵				
1971: Mar. 1 .....	.25	...	.15	...
1971: Mar. 2 .....	.25	...	.10	...
1972: June 9 ⁶ .....	.25; .50	...	.10; .25	...
1974: Mar. 15 .....	.25	...	.10	...

Footnotes and source on next page.

¹ For single fares. Multiple fares similar to token or ticket fares were available 1928-1946 and 1951-1961.

² Pioneer Omnibus Line operated a single horse-drawn vehicle around central Honolulu "for a few years" beginning in Spring 1868.

³ Hawaiian Tramways, Ltd., operated a mule-car service in central Honolulu (and eventually to Waikiki) between December 28, 1888 and December 23, 1903.

⁴ Honolulu Rapid Transit and Land Company operated electric street cars (1901-1941), motor buses (1915-1970), and trolley buses (1938-1958) in Honolulu (and eventually to Pearl Harbor), beginning service August 31, 1901 and terminating it December 31, 1970. Special fares were charged for the Pearl Harbor service: 20¢ effective June 16, 1951, 25¢ on April 1, 1952, and 30¢ on September 10, 1953. Zone fares, charged briefly, were eliminated in 1961. There was also a cash transfer fare.

⁵ Mass Transit Lines (City Bus Service) began operation March 1, 1971, initially serving areas between Kalihi and Hawaii Kai but by March 15, 1974 providing Islandwide service. In addition to the fares listed, MTL offered special fares for children (10¢, effective June 30, 1971), blind persons (free from the start of service), and senior citizens (also free, but until September 18, 1972 only in off-peak periods).

⁶ Zone fares initiated.

Source: Roy S. Melvin and Robert Ramsay, "Hawaiian Tramways," *Pacific Railway Journal*, Vol. 2, No. 9, January 1960, pp. 5, 6, 11, and 19-22; *Pacific Commercial Advertiser*, December 23, 1903, p. 3; Hawaii State Department of Regulatory Agencies, Public Utilities Division, "Honolulu Rapid Transit Company, Limited, Summary of Fare Schedules in Effect" (table covering 1901-1961) and data supplied July 26, 1977; City and County of Honolulu, Department of Transportation Services, data supplied August 31, 1977.

**Table 306.—STEAM RAILROAD MILEAGE AND PASSENGERS:
1970 TO 1977**

Calendar year	Miles of track	Passengers
1970 ¹	6	} 341,882
1971	6	
1972 ²	6	(NA)
1973 ³	6	35,079
1974	6	62,619
1975	6	70,974
1976	6	80,362
1977	6	89,110

NA Not available.

¹ The Lahaina, Kaanapali & Pacific Railroad commenced service on May 10, 1970. Previously, rail passenger service had been available on Maui until 1936, Hawaii until 1946, and Oahu until 1947.

² Service suspended October 10, 1972-June 29, 1973.

³ Service resumed June 30, 1973.

Source: Lahaina, Kaanapali, & Pacific Railroad, records.

**Table 307.—INTERISLAND AND TRANSPACIFIC REVENUE PASSENGERS, BY MODE OF TRAVEL:
1967 TO 1977**

Year	Interisland passengers		Transpacific passengers				
	Surface arrivals ¹	Air arrivals ²	Surface ³		Air ⁴		
			Arrivals	Departures	Arrivals	Departures	Through
1967	—	2,117,557	28,830	24,046	1,285,210	1,252,700	162,119
1968	—	2,347,949	26,603	22,496	1,358,335	1,307,447	183,864
1969	—	2,724,622	24,089	21,339	1,766,720	1,769,087	270,340
1970	—	2,992,777	13,267	13,699	2,190,809	2,158,577	893,890
1971	—	3,380,031	8,943	8,024	2,296,119	2,304,570	729,237
1972	—	4,093,338	10,725	8,820	2,540,472	2,550,199	733,362
1973	—	4,809,097	9,742	7,585	2,866,003	2,913,446	870,378
1974	—	5,174,914	5,756	5,975	3,009,769	2,964,992	885,122
1975	71,807	5,321,616	5,795	5,284	3,181,580	3,134,774	956,576
1976	196,366	5,873,138	5,829	5,987	3,496,645	3,432,908	816,915
1977	270,128	6,413,847	5,940	5,476	3,667,756	3,615,717	714,150

¹ Scheduled interisland passenger service by hydrofoil vessels was begun on June 15, 1975, and terminated January 15, 1978.

² Excludes nonrevenue passengers before 1970. Air taxi service seriously underreported before 1977.

³ Port of Honolulu only. Excludes through passengers. For years ended June 30.

⁴ Includes nonrevenue passengers beginning in 1970. Treatment of through passengers was apparently changed after 1959 and again after 1969.

Source: Hawaii State Department of Transportation, records.

Table 308.—AIRPORTS AND HELIPORTS, BY CONTROL: JUNE 30, 1978

Type	All facilities ¹	State		Mili- tary	Pri- vate ¹
		Commercial	General aviation		
Airports	57	11	3	6	37
Helicopters	14	4	—	(NA)	10

NA Not available.

¹ Data for private airports and heliports are estimates.

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

Table 309.—PILOTS, CIVIL AIRCRAFT, AND AIRCRAFT OPERATIONS: 1960 TO 1977

Year	Active pilots, Dec. 31 ¹	U.S. active civil aircraft, Dec. 31		Aircraft operations ²		
		Air carrier	General aviation	Honolulu International Airport	Gen. Lyman Field, Hilo	Kahului Airport
1960	778	24	77	254,750	34,548	47,503
1965	1,340	23	146	288,288	44,559	64,603
1970	2,218	20	241	300,629	52,183	77,451
1971	2,409	17	249	294,874	56,167	76,768
1972	2,526	(NA)	(NA)	297,861	50,333	75,467
1973	2,786		291	309,144	48,138	75,478
1974	2,956	16	308	305,724	47,715	75,186
1975	2,902	17	341	319,781	51,145	77,062
1976	3,037	21	365	320,565	52,679	90,455
1977	3,241	21	(NA)	329,926	60,377	100,655

NA Not available.

¹ Data for 1971 and 1973-75 include active pilots in American Samoa, Canton Island, Wake Island, and Guam, as well as Hawaii.

² An aircraft operation is an aircraft arrival or departure.

Source: Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual), and records; Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

Table 310.—AIRCRAFT OPERATIONS, BY TYPE, FOR SPECIFIED AIRPORTS: 1977

Airport	All operations	Air carrier	Air taxi	General aviation	Mili- tary
Honolulu Int. Airport	329,926	114,174	68,234	114,484	33,034
Gen. Lyman Field	60,377	20,216	3,581	26,017	10,563
Kahului Airport	100,655	40,365	26,231	25,117	8,942
Lihue Airport	65,636	25,190	22,544	14,840	3,062
Ke-ahole Airport	83,616	15,109	15,084	40,019	13,404

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

**Table 311.—CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES:
1967 TO 1977**

Subject	1967	1976	1977
Number of airlines ¹	2	2	2
Aircraft revenue departures ² (1,000)	64.6	76.9	79.5
Aircraft revenue miles ² (1,000)	7,665	9,364	9,624
Average airborne speed ² (miles per hour)	237	324	324
Average available seats per aircraft ²	66.0	124.6	125.8
Revenue passengers: ²			
Enplanements ³ (1,000)	1,776	5,262	5,724
Load factor (percent)	59.1	64.1	65.9
Revenue ton-miles (1,000):			
Freight plus express	2,823	6,370	6,037
Mail	925	1,394	1,215
Number of employees	1,797	2,385	2,444
Operating revenues (\$1,000)	26,287	112,665	129,138
Operating profit or loss before income taxes (\$1,000)	-241	3,674	990
Average passenger revenues per revenue passenger-mile ² (cents) ..	8.9	14.3	14.4
Average freight revenues per revenue ton-mile (excluding mail and express) ² (dollars)	0.55	0.88	1.04

¹ Aloha Airlines, Inc., and Hawaiian Airlines, Inc.

² Scheduled service only.

³ Originations for 1967.

Source: Civil Aeronautics Board, *Handbook of Airline Statistics 1973*, and records.

Table 312.—AIR CARGO AND AIRMAIL: 1970 TO 1977
[In thousands of pounds.]

Calendar year	Overseas air cargo		Overseas airmail		Interisland ¹	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1970	37,553	54,285	21,362	18,109	52,139	14,141
1971 ²	67,131	116,591	17,915	24,883	51,389	14,332
1972 ³	55,908	108,178	16,665	22,739	59,900	14,774
1973	57,494	87,834	16,123	21,001	69,710	16,453
1974	79,054	96,393	16,185	21,528	79,576	16,594
1975	95,287	112,338		36,934	81,515	17,830
1976	118,478	136,017		39,407	86,818	19,024
1977	132,401	133,352		36,938	82,676	17,065

¹ Air taxi service seriously underreported before 1977.

² Data reflect the shipping strike of July 1, 1971-October 6, 1971.

³ Data reflect the shipping strikes of January 17-February 19 and October 25-December 7, 1972.

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, tabular releases and records.

Table 313.—PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1977

Airport	Passengers ¹		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	3,667,756	3,615,717	133,352	132,401	36,938	
Honolulu	3,551,546	3,468,806	126,730	105,774	36,624	
Hilo (Lyman)	108,631	139,332	6,622	26,627	314	
Kahului	7,579	7,579	—	—	—	
Other airports	—	—	—	—	—	
INTERISLAND						
Total	6,413,847	6,413,847	82,676	82,676	17,065	17,065
Honolulu	2,586,533	2,601,860	28,861	46,725	4,199	12,558
Hilo (Lyman)	585,382	540,260	11,069	21,619	3,518	1,405
Upolu	1,512	1,297	1	5	—	—
Waimea	13,381	12,189	767	356	3	—
Ke-ahole	545,990	560,267	5,673	4,161	1,639	540
Kahului	1,400,385	1,420,339	20,270	6,130	4,122	1,585
Hana	10,685	10,945	2	3	1	—
Kaanapali	46,935	47,708	793	82	—	—
Molokai	99,016	96,268	1,093	659	381	76
Kalaupapa	4,163	4,449	204	23	20	8
Lanai	23,814	23,324	1,099	188	141	33
Lihue	1,095,060	1,093,606	12,815	2,412	3,040	859
Other	991	1,335	29	313	1	1

¹ Revenue and non-revenue, including Military Airlift Command (MAC). Excludes overseas passengers in transit (714,150, all through Honolulu).

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, "Hawaii State Owned Airport Statistics, Calendar Year 1977" (release, February 22, 1978).

Table 314.—REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SAN FRANCISCO-HONOLULU FLIGHTS BY PAN AMERICAN WORLD AIRWAYS: 1970 TO 1978

Subject	Effective date of change in fare										
	June 1, 1970	July 1, 1970	May 15, 1971	July 25, 1972	May 12, 1973	Sept. 1, 1973	June 1, 1974	Jan. 1, 1977	June 15, 1977	Nov. 4, 1977	May 1, 1978
First class fare ¹	165.05	168.53	193.61	193.08	193.67	193.67	204.67	208.08	212.08	200.08	206.08
Fare	165.00	165.00	190.00	190.00	190.00	190.00	201.00	205.00	209.00	197.00	203.00
Tax	0.05	3.53	3.61	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08
Security charge	—	—	—	—	0.59	0.59	0.59	—	—	—	—
Economy fare, weekends ¹	110.03	113.35	126.39	125.04	125.63	134.64	142.64	145.06	148.06	140.05	144.06
Fare	110.00	110.00	123.00	122.00	122.00	131.00	139.00	142.00	145.00	137.00	141.00
Tax	0.03	3.35	3.39	3.04	3.04	3.05	3.05	3.06	3.06	3.05	3.06
Security charge	—	—	—	—	0.59	0.59	0.59	—	—	—	—
Economy fare, weekdays ¹	94.03	97.30	111.35	110.04	110.63	119.63	126.64	129.05	132.05	125.05	129.05
Fare	94.00	94.00	108.00	107.00	107.00	116.00	123.00	126.00	129.00	122.00	126.00
Tax	0.03	3.30	3.35	3.04	3.04	3.04	3.05	3.05	3.05	3.05	3.05
Security charge	—	—	—	—	0.59	0.59	0.59	—	—	—	—
Thrift fare, weekends ¹	100.03	103.32	116.36	118.04	118.63	127.63	134.64	137.05	140.05	133.05	137.06
Fare	100.00	100.00	113.00	115.00	115.00	124.00	131.00	134.00	137.00	130.00	134.00
Tax	0.03	3.32	3.36	3.04	3.04	3.04	3.05	3.05	3.05	3.05	3.06
Security charge	—	—	—	—	0.59	0.59	0.59	—	—	—	—
Thrift fare, weekdays ¹	85.03	88.28	101.32	103.04	103.63	112.63	119.63	122.04	124.05	118.04	121.04
Fare	85.00	85.00	98.00	100.00	100.00	109.00	116.00	119.00	121.00	115.00	118.00
Tax	0.03	3.28	3.32	3.04	3.04	3.04	3.04	3.04	3.05	3.04	3.04
Security charge	—	—	—	—	0.59	0.59	0.59	—	—	—	—
Aircraft	B-707	B-707	B-747	B-747	B-747	B-747	B-747	B-747	B-747	B-747	B-747
Flight time ²	4:55	4:55	4:55	5:02	5:02	5:02	4:58	4:58	4:58	4:58	4:58

¹ Total regular one-way fare, including taxes and other charges, in dollars.

² Average scheduled flight time eastbound and westbound, in hours and minutes.

Source: Hawaii State Department of Planning and Economic Development, *Chronology of Airline Fares and Flight Times, 1929-1974* (Statistical Report 103, June 18, 1974); Pan American World Airways, printed schedules and records.

Table 315.—REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1970 TO 1978

Subject	Effective date of change in fare						
	July 1, 1970	May 12, 1973	Jan. 15, 1974	Jan. 1, 1975	Feb. 1, 1976	Oct. 1, 1977	Apr. 8, 1978
Honolulu—Hilo							
Total one-way fare ¹	26.00	26.64	27.64	28.38	30.00	32.00	34.00
Fare	24.07	24.07	25.00	25.93	27.78	29.63	31.48
Tax	1.93	1.93	2.00	2.07	2.22	2.37	2.52
Security charge	—	0.64	0.64	0.38	—	—	—
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50	DC-9-50
Flight time ²	0:42	0:41	0:41	0:41	0:40	0:40	0:40
Honolulu—Maui							
Total one-way fare ¹	19.00	19.64	20.64	21.38	23.00	25.00	27.00
Fare	17.59	17.59	18.52	19.44	21.30	23.15	25.00
Tax	1.41	1.41	1.48	1.56	1.70	1.85	2.00
Security charge	—	0.64	0.64	0.38	—	—	—
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50	DC-9-50
Flight time ²	0:28	0:27	0:27	0:27	0:27	0:27	0:27
Honolulu—Kauai							
Total one-way fare ¹	19.00	19.64	20.64	21.38	23.00	25.00	27.00
Fare	17.59	17.59	18.52	19.44	21.30	23.15	25.00
Tax	1.41	1.41	1.48	1.56	1.70	1.85	2.00
Security charge	—	0.64	0.64	0.38	—	—	—
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50	DC-9-50
Flight time ²	0:27	0:27	0:27	0:27	0:27	0:26	0:26

¹ Total regular one-way fare, including taxes and other charges, in dollars.

² Average scheduled flight time eastbound and westbound, in hours and minutes.

Source: Hawaii State Department of Planning and Economic Development, *Chronology of Airline Fares and Flight Times, 1929-1974* (Statistical Report 103, June 18, 1974); Hawaiian Airlines, printed schedules and records.

Table 316.—STATE COMMERCIAL HARBORS: 1978

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,613	104	321
Kawaihae	40	35	1,500	1,450	1,015	23	71
Maui:							
Kahului	35	35	2,400	2,050	2,317	146	169
Molokai:							
Kaunakakai	23	23	1,500	600	687	5	288
Oahu:							
Honolulu:							
Main	40	35	3,300	1,520	17,855	1,929	4,241
Kapalama			3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,140	60	104
Port Allen	35	35	1,500	1,200	1,324	24	33

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, *Hawaii State Commercial Harbors* (undated leaflet) and revisions supplied July 1978.

Table 317.—DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1970 TO 1977

Year	Documented vessels ¹		Numbered vessels ²	
	Date	Number	Date	Number
1970	June 30	553	Dec. 31	8,042
1971	June 30	597	Dec. 31	8,803
1972	June 30	621	Dec. 31	10,250
1973	June 30	692	Dec. 31	12,049
1974	Aug. 22	707	Dec. 31	11,843
1975	Sept. 1	797	Dec. 31	12,956
1976	Dec.	802	Dec. 31	13,130
1977	Dec. 7	924	Dec. 31	13,165

¹ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented.

² Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered.

Source: U.S. Coast Guard, records; Hawaii State Department of Transportation, *Report of Undocumented Vessel Registration*, (annual).

Table 318.—UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1977

Subject	Number	Subject	Number
Certificates outstanding	13,165	Type of vessel: ¹	
Length:		Cabin motorboat	1,494
Under 16 feet	5,860	Open motorboat	5,112
16 to less than 26 feet	6,128	Runabout	3,279
26 to less than 40 feet	991	Sail/inboard	437
40 to 65 feet	130	Sail/outboard	638
Over 65 feet	6	Sail only	1,619
Dealers or manufacturers	50	Motor vessel over 65 feet	13
		Other	523
Hull materials: ¹		Uses:	
Wood	3,104	Pleasure	11,845
Steel	32	Commercial fishing	826
Aluminum	405	Charter fishing	10
Plastic	9,216	Commercial passenger	35
Other	358	Other commercial	35
Propulsion: ¹		Livery	63
Inboard	819	Dealers or manufacturers	50
Outboard	7,826	Youth group	13
Inboard/outboard	1,540	Government	228
Sail/inboard	438	Other	60
Sail/outboard	566	Island kept: ¹	
Sail only	1,641	Hawaii	1,589
Other	285	Kauai	956
Type of storage: ¹		Lanai	62
On water	2,423	Maui	764
On land	10,692	Molokai	219
		Oahu	9,525

¹ Excludes dealers and manufacturers registrations (50).

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

Table 319.—SHIP ARRIVALS AT THE PORT OF HONOLULU: 1967 TO 1977

Year ended June 30	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1967	1,684	13,820,896	2,652	1,422,467
1968	1,774	15,277,355	2,474	1,413,915
1969	1,903	15,954,257	2,961	2,458,333
1970 ¹	1,933	16,053,275	3,321	2,167,733
1971 ¹	1,879	15,629,860	3,356	2,339,132
1972	1,847	15,267,302	3,096	1,875,681
1973	1,801	14,373,090	3,602	2,185,872
1974	1,587	13,465,620	3,666	2,879,354
1975	1,602	13,025,705	3,440	2,411,933
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,770	2,249,446

¹ Tonnage estimated.

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, records.

Table 320.—VESSELS ARRIVING AT SPECIFIED HARBORS: 1976
[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels		18 feet and less	19 feet and more
		Pass. and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker		
All spec. harbors ...	14,878	6,637	245	5,152	2,539	305	(NA)	(NA)
Hilo	633	107	19	268	219	20	540	93
Kawaihae	282	19	2	152	108	1	263	19
Kailua	—	—	—	—	—	—	—	—
Hana	—	—	—	—	—	—	—	—
Kahului	872	174	11	346	295	46	738	134
Kaunakakai	474	—	—	235	239	—	(NA)	(NA)
Kaunakakai	628	19	—	371	232	6	(NA)	(NA)
Kalaupapa	16	—	—	13	3	—	(NA)	(NA)
Honolulu	9,724	5,699	98	2,563	1,222	142	8,943	781
Barbers Point	1,316	211	109	904	15	77	1,216	100
Nawiliwili	780	396	6	213	153	12	759	21
Port Allen	153	12	—	87	53	1	(NA)	(NA)

NA Not available

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1976, Part 4 (1977)*, pp. 101-102.

Table 321.—FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1976

Subject and year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
FREIGHT TRAFFIC¹ (SHORT TONS)						
1970	1,141,163	329,425	1,083,355	8,078,111	2,561,558	500,094
1971	1,064,384	355,546	1,067,941	7,390,015	2,677,542	460,259
1972	1,108,067	303,116	1,297,829	7,960,447	3,420,445	582,887
1973	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
PASSENGERS²						
1970	4,457	—	—	690,906	—	4,228
1971	2,148	—	—	518,603	—	1,683
1972	658	—	—	796,694	—	658
1973	—	—	—	989,100	—	—
1974	9,600	—	9,600	987,475	—	—
1975	13,613	—	11,296	1,073,125	—	13,934
1976	1,313	—	1,307	1,390,524	—	40,674

¹ Excludes cargo carried by Army and Navy vessels and cargo in transit.

² Total arrivals and departures for transpacific, interisland, and local travel. For details (Honolulu only), see the following table.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1976*, Part 4, pp. 29-34.

Table 322.—PASSENGER ARRIVALS AND DEPARTURES, BY ORIGIN AND DESTINATION, FOR HONOLULU HARBOR: 1976

Category	Total	Arrivals	Departures
All passengers	1,390,524	681,586	708,938
To or from other countries	18,705	10,742	7,963
To or from other states	1,782	910	872
To or from U.S. territories	223	223	—
Interisland	456,017	283,950	172,067
Pearl Harbor tours and other local	913,797	385,761	528,036

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

Table 323.—OVERSEAS AND INTERISLAND SHIPPING: 1966 TO 1976
 [In revenue tons of 2,000 lb.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1966	6,850,718	4,050,678	2,800,040	3,380,431	1,686,898	1,693,533
1967	7,136,017	4,334,536	2,801,481	3,536,997	1,767,764	1,769,233
1968	9,185,880	6,498,986	2,686,894	3,689,409	1,844,704	1,844,705
1969	9,440,891	7,185,809	2,255,082	3,941,074	1,969,987	1,971,087
1970	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
1973	11,287,536	8,203,106	3,084,430	4,679,121	2,300,634	2,378,487
1974	11,156,346	8,581,226	2,575,120	3,780,896	1,904,501	1,876,395
1975	11,758,995	8,644,344	3,114,651	5,067,630	2,495,317	2,572,313
1976	12,222,022	9,240,594	2,981,428	5,015,918	2,475,123	2,540,795

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual).

Table 324.—FREIGHT TRAFFIC FOR SPECIFIED HARBORS: 1976
[Short tons.]

Harbor and commodity ¹	Total	Foreign		Domestic			
		Imports	Exports ²	Coastwise ³		Internal receipts	Local
				Receipts	Shipments		
Hilo	995,544	52,344	—	576,080	366,876	244	—
Sugar	222,964	—	—	39	222,925	—	—
Kawaihae	263,562	—	55,423	54,299	153,760	80	—
Kahului	1,276,424	20,954	10,341	684,383	560,560	186	—
Sugar	255,906	—	12	171	255,723	—	—
Honolulu	7,189,538	1,087,464	52,800	3,786,943	2,231,521	443	30,367
Fresh fruits and tree nuts	312,878	913	132	267,473	44,360	—	—
Prep. fruit and veg. juice	457,070	1,394	1,269	122,591	331,816	—	—
Sugar	273,014	21	1,389	2,130	269,474	—	—
Molasses	303,263	—	—	113,946	177,203	—	12,114
Gasoline	380,912	4,388	8,349	243,578	119,822	—	4,775
Jet fuel	283,168	—	—	273,062	10,106	—	—
Kerosene	872,396	706,859	1,394	164,143	—	—	—
Residual fuel oil	312,191	16,725	—	225,705	65,603	—	4,158
Fabricated metal products	435,142	9,560	446	137,077	288,059	—	—
Barbers Point	6,593,497	4,368,050	—	662,512	1,592,935	—	—
Crude petroleum	2,911,348	2,873,552	—	37,796	—	—	—
Gasoline	356,180	24,467	—	30,688	301,025	—	—
Distillate fuel oil	598,468	283,131	—	16,666	298,671	—	—
Residual fuel oil	2,367,162	1,042,223	—	576,748	748,191	—	—
Nawiliwili	460,900	8,470	—	220,458	231,936	36	—
Other harbors ⁴	490,348	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available

¹ Commodities under 200,000 tons not shown separately.

² The leading export item in 1976 was wood chips, staves, and moldings (55,423, all from Kawaihae).

³ Includes both interisland and interstate traffic.

⁴ Includes Hana (2), Maalaea (444), Kaunapau (260,026), Kaunakakai (137,329), Kalaupapa (1,233), Kailua (5), and Port Allen (91,309).

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1976, Part 4* (1977), pp. 29-36, and records.

Table 325.—BOATING ACCIDENTS: 1970 TO 1977

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1970	36	1	1	2	44	82.6
1971	15	2	2	—	16	64.8
1972	37	7	9	7	43	254.1
1973	27	1	1	2	30	126.1
1974	63	5	5	3	77	353.3
1975	62	4	4	13	74	228.2
1976	51	2	2	5	57	221.5
1977	57	1	1	6	63	284.0

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics* (annual).

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry. Related information appears in Section 6 (on land use), 11 and 15 (agricultural employment and earnings), 17 (energy used on farms), and 22 (food processing).

There were 4,100 farms in Hawaii as of 1977, with a total area of 2,300,000 acres. Both figures have declined during the past decade. The value of crop sales in 1977 was \$259 million, or 61 percent higher than the total for 1967. Livestock sales amounted to \$65 million, or 74 percent more than the 1967 level. Combined crop and livestock sales ranged from \$37 million in Kauai County to \$105 million on Oahu. Net farm income in 1976 was \$58.7 million, the lowest annual total since 1970. Major crops in 1977 were sugar (\$144 million in sales, up 36 percent over the decade), pineapple (\$62 million, or 62 percent over the 1967 total), and vegetables and melons (\$15 million, or 131 percent more than in 1967). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from \$16 million in 1967 to \$53 million in 1977, or approximately 223 percent. About 550 farms sold \$14 million of flowers and nursery products in 1977, chiefly anthuriums, orchids, potted foliage, and ornamentals and trees. Important products of livestock farms as of 1977 included cattle (19 million in sales), hogs (\$7 million), milk (\$23 million), and eggs (12 million). Coffee sales have fluctuated sharply during the past decade, but macadamia nuts and horticultural specialties have increased rapidly. In 1977, Hawaii produced 43 percent of the fresh market vegetables consumed locally, 30 percent of the fresh market fruits, 35 percent of the beef veal, 22 percent of the chickens, none of the rice, butter, and oleomargarine, all of the milk, and 92 percent of the eggs.

Statistics on Hawaiian agriculture exclude *pakalōlō* (marijuana) and other illicit plants. Some authorities have speculated that the income from such illegal production may exceed that from more traditional forms of diversified agriculture.

Important sources for data on agriculture include the *United States Census of Agriculture*, most recently conducted at the end of 1974, the annual report on *Statistics of Hawaiian Agriculture* issued by the Hawaii Agricultural 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 24 of the *Statistical Abstract of the United States: 1977*.

Table 326.—AGRICULTURAL SUMMARY: 1950 TO 1974

Year	Number of farms, by size (in acres)					Farm acreage (thousands)			
	All farms	1 to 9	10 to 49	50 to 259	260 and over	Total acreage	In farms of 260 or more acres	Harvested cropland	Irrigated
1950	5,750	3,558	1,669	339	184	2,432	2,350	159.5	117.4
1959	6,242	3,569	1,988	432	253	2,461	2,364	176.4	141.2
1964	4,864	2,603	1,594	416	251	2,354	2,266	167.5	143.9
1969	3,896	2,024	1,281	389	202	2,058	1,982	178.7	145.6
1974	3,020	1,633	872	317	198	2,119	2,060	151.4	141.7

Year	Average age of farm operators (years)	Tenant farmers		Regular hired workers ¹	Average value of land and buildings		Market value of agricultural products sold		
		Percent of all operators	Percent of farm acreage		Per farm (\$1,000)	Per acre (dollars)	Total (\$1,000)	Average per farm (\$1,000)	Percent of farms over \$2,500
1950	47.8	57.5	1.7	21,597	34.0	80	164,554	28.6	(NA)
1959	49.5	38.7	1.6	14,403	(NA)	(NA)	152,334	24.4	(NA)
1964	51.0	41.1	2.6	12,375	98.9	205	187,505	38.5	46.4
1969	53.1	38.1	18.2	13,200	156.8	297	285,619	73.3	55.6
1974	55.4	36.6	18.2	11,497	340.6	485	609,788	201.9	69.3

Year	Livestock and poultry on farms (thousands)				Quantity of crops harvested				
	Cattle and calves	Hogs and pigs	Sheep and lambs	Chickens 3 mo. old and over ²	Sugar-cane (1,000 tons)	Pineapples (1,000 tons)	Rice (1,000 lb.)	Coffee (1,000 lb. ³)	Macadamia nuts (1,000 lb. ⁴)
1950	156	65	14	472	7,889	655	658	4,648	704
1959	205	78	12	806	9,391	1,010	287	10,005	2,015
1964	218	68	12	1,045	10,741	924	—	9,679	7,015
1969	233	52	(D)	1,072	11,258	946	—	2,755	10,323
1974	227	51	12	1,305	8,986	693	—	1,819	17,087

D Data withheld to avoid disclosure of information for individual farms.

NA Not available.

¹ Working 150 days or more. Data for 1964, 1969, and 1974 exclude farms with sales less than \$2,500 (which accounted for 152 hired workers in 1964).

² Chickens 4 months old and over before 1969.

³ Parchment.

⁴ Husked, unshelled.

Source: U.S. Bureau of the Census, *U.S. Census of Agriculture: 1959*, Vol. I, Part 50; *U.S. Census of Agriculture: 1964*, Vol. I, Part 50; *U.S. Census of Agriculture: 1969*, Vol. I, Part 50; *U.S. Census of Agriculture: 1974*, Vol. I, Part 11.

Table 327.—AGRICULTURAL SUMMARY, BY COUNTIES: 1974

County	Number of farms, by size (in acres)					Farm acreage (thousands)			
	All farms	1 to 9	10 to 49	50 to 259	260 and over	Total acreage	Total cropland	Harvested cropland	Irrigated
State total	3,020	1,633	872	317	198	2,119	351.6	151.4	141.7
Hawaii	1,641	801	546	182	112	1,315	143.2	56.5	9.7
Honolulu	697	513	122	36	26	136	51.2	23.9	34.8
Kauai	248	113	81	34	20	270	49.8	24.2	38.3
Maui	434	206	123	65	40	398	107.4	46.9	59.0
County	Average size of farm (acres)	Average age of farm operators (years)	Tenant operators: percent of total	Regular hired workers ¹	Average value of land and buildings		Market value of agricultural products sold		
					Per farm (\$1,000)	Per acre (dollars)	Total (\$1,000)	Average per farm (\$1,000)	Percent of farms over \$2,500
State total	702	55.4	36.6	11,497	340.6	485	609,788	201.9	69.3
Hawaii	801	55.6	36.4	3,662	330.3	412	214,316	130.9	67.9
Honolulu	195	55.4	41.3	2,507	272.4	1,398	135,134	193.9	76.8
Kauai	1,089	54.9	38.3	1,980	397.4	365	102,298	412.5	66.1
Maui	917	55.2	28.8	3,348	456.3	497	157,539	363.0	64.3
County	Livestock and poultry on farms (thousands)			Market value of machinery and equipment (\$1,000)	Quantity of crops harvested				
	Cattle and calves	Hogs and pigs	Chickens 3 mo. old and over		Coffee, parchment (1,000 lb.)	Macadamia (1,000 lb.)	Papayas (1,000 lb.)	Pineapples (1,000 tons)	Sugarcane (1,000 tons)
State total	227.5	51.0	1,305	97,279	1,819	17,087	37,184	693	8,986
Hawaii	137.0	7.7	195	26,675	1,813	16,922	33,579	} 165	{ 3,484
Honolulu	29.3	32.4	1,014	20,802	} 6	(D)	1,594		
Kauai	18.4	1.8	} 97	15,969		{ 77	1,229		
Maui	42.7	9.2		33,833			{ (D)			782	527	2,069

D Data withheld to avoid disclosure information for individual farms.

¹Working 150 days or more on farms with sales of \$2,500 and over.

Source: U.S. Bureau of the Census, *U.S. Census of Agriculture; 1974*, Vol. 1, Part 11.

**Table 328.—NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES:
1967 TO 1977**

Year and county	Number of farms	Area in farms ¹ (1,000 acres)	Value of sales (\$1,000) ²				
			Crops and livestock	Sugar (un-processed cane)	Pineapples (fresh equivalent)	Other crops	Livestock
1967	4,800	2,360	198,293	106,000	38,500	16,334	37,459
1968	4,700	2,330	203,051	111,200	35,900	18,066	37,885
1969	4,600	2,310	199,101	104,900	35,500	19,214	39,487
1970	4,500	2,300	213,689	110,600	39,500	21,941	41,648
1971	4,400	2,300	221,692	115,800	40,300	22,539	43,053
1972	4,300	2,300	232,497	117,300	43,900	25,055	46,242
1973	4,100	2,300	266,161	141,900	39,600	29,392	55,269
1974	4,100	2,300	575,473	442,300	40,300	34,964	57,909
1975	4,100	2,300	377,552	237,000	41,600	40,688	58,264
1976	4,100	2,300	327,830	164,700	53,000	47,815	62,315
1977	4,100	2,300	324,466	144,200	62,500	52,758	65,008
COUNTIES: 1967							
Hawaii	2,650	1,378	58,002	39,200	—	8,878	9,924
Maui	730	540	55,836	24,900	23,900	2,464	4,572
Honolulu	980	156	57,257	19,000	13,300	4,091	20,866
Kauai	440	286	27,198	22,900	1,300	901	2,097
COUNTIES: 1977							
Hawaii	2,450	1,340	97,944	51,900	—	27,939	18,105
Maui	500	526	83,988	37,100	30,700	9,080	7,108
Honolulu	850	152	105,182	23,000	31,800	12,828	37,554
Kauai	300	282	37,352	32,200	—	2,911	2,241

¹ Includes land not in crop and pasture, such as farm house lots, roads, etc.

² Excludes illegal crops, which are thought by some authorities to have sales greater than those of all legal crops. Shipments of *pakaʻiʻi* (marijuana) from Hawaii County alone have been estimated at 250,000 pounds annually, with annual sales from these shipments running \$250 million and \$750 million; see *Honolulu Advertiser*, August 15, 1978, p. A-4.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 329.—ACREAGE IN CROPS AND PASTURE, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY COUNTY: 1967 AND 1977

Subject	State total		Counties, 1977			
	1967	1977	Hawaii	Kauai	Maui	Honolulu
Acreage (1,000 acres):						
Sugarcane	239.8	220.7	93.1	45.9	47.5	34.2
Pineapples (land used for pineapple)	64.0	47.0	—	—	32.4	14.6
Vegetables and melons	3.4	3.8	1.0	0.1	1.2	1.3
Fruits (excluding pineapples)	3.5	5.1	3.4	0.4	0.6	0.7
Coffee	4.6	2.4	2.4	—	—	—
Macadamia nuts	8.0	9.9	9.8	(D)	(D)	(D)
Miscellaneous crops	1.6	8.4	2.6	0.5	1.6	3.7
Number of crop farms:						
Sugar	785	520	509	5	3	3
Pineapples	63	16	—	—	14	2
Vegetables and melons	630	504	161	45	72	226
Fruits (excluding pineapples)	532	673	406	73	42	152
Coffee	830	780	780	—	—	—
Macadamia nuts	240	456	451	3	1	1
Taro	148	129	48	48	31	2
Flower and nursery	510	550	280	20	70	180
Volume of crop marketings:						
Sugar (unprocessed cane; 1,000 tons)	11,046	8,994	3,649	1,877	2,097	1,371
Pineapples (fresh equivalent; 1,000 tons)	1,010	690	—	—	424	266
Vegetables and melons (1,000 lb.)	55,440	67,980	24,340	1,900	25,660	16,080
Fruits (excluding pineapples; 1,000 lb.)	38,692	76,842	46,653	7,112	15,461	7,601
Coffee (parchment; 1,000 lb.)	5,440	2,250	2,250	—	—	—
Macadamia nuts (in shell; 1,000 lb.)	7,972	19,180	19,100	(D)	(D)	(D)
Taro (1,000 lb.)	8,155	7,870	1,665	4,820	1,385	
Value of crop sales (\$1,000):						
Sugar (unprocessed cane)	106,000	144,200	51,900	32,200	37,100	23,000
Pineapples (fresh equivalent)	38,500	62,500	—	—	30,700	31,800
Vegetables and melons	6,421	14,860	4,773	554	4,814	4,719
Fruits (excluding pineapples)	2,762	9,368	5,781	1,046	1,260	1,281
Coffee (parchment)	1,474	2,858	2,858	—	—	—
Macadamia nuts (in shell)	1,961	7,481	7,449	(D)	(D)	(D)
Taro	579	999	245	588	166	
Field crops (not estimated separately)	314	3,055	333	517	1,134	1,071
Horticultural specialities	2,700	14,007	6,396	167	1,696	5,748
Forest products	123	130	104	7	10	9

D Withheld to avoid disclosure of individual operations.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 330.—VEGETABLES, MELONS, FRUITS, COFFEE, NUTS, AND TARO: 1977

Crop ¹	Acreage harvested ²	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Vegetables and melons:					
Snap beans	160	7.5	1,200	52.5	630
Chinese cabbage	265	26.8	7,090	12.3	872
Head cabbage	440	29.5	13,000	11.2	1,456
Celery	42	56.2	2,360	17.0	401
Cucumbers	260	16.5	4,300	23.4	1,006
Daikon	155	21.6	3,350	12.2	409
Eggplant	55	25.9	1,425	32.9	469
Ginger root	33	25.9	855	65.8	563
Lettuce (head, semi-head)	530	18.5	9,800	19.1	1,872
Dry onions	80	23.1	1,850	35.6	659
Green onions	90	9.3	835	60.7	507
Tomatoes	240	25.0	6,000	30.8	1,848
Watermelons	210	9.9	2,075	19.6	407
Fruits:					
Bananas	550	10.5	5,800	15.6	905
Papayas	2,155	29.5	63,548	11.9	7,565
Macadamia nuts	6,300	3.0	19,180	39.0	7,481
Coffee (1977-1978)	2.0	1.1	2,250	127.0	2,858
Taro	470	...	7,870	127	999

¹ Data shown for crops with sales in excess of \$400,000.

² Acreage bearing for macadamia nuts; acreage in crop for taro.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture, 1977*.

**Table 331.—NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY COUNTY: 1967 AND 1977**

Subject	State total		Counties, 1977			
	1967	1977	Hawaii	Kauai	Maui	Honolulu
Number of livestock farms:						
Cattle (incl. beef and dairy)	1,400	900	385	150	255	110
Hogs	790	640	85	100	120	335
Milk	170	80	30	5	20	25
Eggs	450	70	28	7	9	26
Broilers	36	10	(D)	(D)	(D)	(D)
Honey	37	23	4	4	5	10
Volume of livestock marketings:						
Beef (1,000 lb. dressed weight)	31,277	32,325	20,071	2,925	7,596	7,733
Pork (1,000 lb. dressed weight)	8,263	8,750	1,222	400	1,685	5,443
Milk (million lb.)	142.5	147.5	(D)	(D)	(D)	120.3
Eggs (million)	195	218	14.1	14.3		189.6
Broilers and chickens (1,000 lb. ¹)	5,066	6,158	(D)	(D)	(D)	5,765
Honey (1,000 lb.)	246	679	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):						
Cattle ²	11,850	18,837	11,485	1,848	4,664	840
Hogs ²	3,680	7,105	888	380	1,483	4,354
Milk	12,804	23,158	(D)	(D)	(D)	18,827
Eggs	7,101	12,408	893	929		10,586
Broilers and chickens	1,927	3,125	(D)	(D)	(D)	2,933
Others	97	375	316	13	32	14

D Withheld to avoid disclosure of individual operations.

¹ Ready-to-cook weight.

² Excludes interfarm sales.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 332.—FLOWERS AND NURSERY PRODUCTS, BY ISLAND; 1977

Island and year	Number of farms	Area				Wholesale value (\$1,000)	Out-of-State shipments (\$1,000)	
		Total (acres)	Greenhouse (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)			Open field (acres)
State total:								
1975	502	1,005	682	8,280	156	643	9,767	5,392
1976	500	1,137	830	10,155	172	713	11,828	6,450
1977	550	1,267	948	11,700	242	734	14,004	7,152
Islands, 1977:								
Hawaii	280	763	550	8,500	210	345	6,396	(NA)
Kauai	20	37	18	35	2	34	167	(NA)
Mauai	70	96	105	150	5	85	1,696	(NA)
Oahu	180	371	275	3,015	25	270	5,748	(NA)

NA Not available.

Source: Hawaii Agricultural Reporting Service, "1977 Record Year for Flowers and Nursery Products," *Hawaii Flowers & Nursery Products, Annual Summary* (May 25, 1978).

Table 333—FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWERS: 1977

Kind of flower	Number of farms	Number of flowers sold		Wholesale value (\$1,000)
		Unit	Number	
Cut flowers:				
Anthuriums	165	1,000 dozens	1,549	3,372
Birds of paradise	16	Do.	35	49
Carnations	5	Do.	28	42
Chrysanthemums, pompon	14	1,000 bunches	291	233
Chrysanthemums, other	5	1,000 dozens	12	49
Gingers	20	...	(NA)	69
Proteas, sunburst cordifolium	8	1,000 stems	163	82
Proteas, other	8	Do.	29	14
Roses	4	1,000 dozens	402	572
Others	28	...	(NA)	196
Cut orchids:				
Cattleyas	21	1,000 flowers	41	34
Cymbidiums	20	Do.	753	249
Dendrobiums, sprays	31	1,000 dozens	31	125
Others	47	...	(NA)	92
Lei flowers:				
Carnations	17	Million flowers	34.6	900
Vanda Miss Joaquim	28	Do.	35.4	501
Plumerias	15	Do.	28.6	395
Tuberose	4	Do.	16.1	280
Pikake	8	1,000 strands	100	97
Cut foliage:				
Ti leaves	31	Million leaves	13.0	230
Other greens	28	Do.	20.8	182
Potted plants:				
Chrysanthemums	10	1,000 pots	177	433
Orchids	75	Do.	256	800
Potted foliage	46	...	(NA)	2,450
Other potted plants	75	...	(NA)	515
Ornamentals and trees	97	...	(NA)	997
Other nursery products	25	...	(NA)	1,049

NA Not available

Source: Hawaii Agricultural Reporting Service, "1977 Record Year for Flowers and Nursery Products," *Hawaii Flowers & Nursery Products, Annual Summary* (May 25, 1978).

Table 334.—MARKET SUPPLY OF SPECIFIED FOODS: 1967 TO 1977

Commodity and year	Total market supply ¹			Per capita market supply ²	Percent from Hawaii
	Total	Inshipments	Hawaii		
Fresh market vegetables:					
1967	109,653	60,313	49,340	148	45.0
1976	145,178	85,173	60,005	152	41.3
1977	150,057	86,016	64,041	154	42.7
Fresh market melons:					
1967	7,350	5,715	1,635	10	22.2
1976	10,751	9,221	1,530	11	14.2
1977	10,861	8,786	2,075	11	19.1
Fresh market fruits:					
1967	49,193	26,138	23,055	66	46.9
1976	69,533	49,779	19,754	73	28.4
1977	69,060	48,404	20,656	71	29.9
Eggs:					
1967	17,233	984	16,249	23	94.3
1976	19,596	1,396	18,200	21	92.9
1977	19,706	1,506	18,200	20	92.4
Beef and veal:					
1967	61,891	30,614	31,277	83	50.5
1976	92,573	60,253	32,320	97	34.9
1977	93,142	60,817	32,325	96	34.7
Pork:					
1967	22,931	14,668	8,263	31	36.0
1976	31,072	23,300	7,772	33	25.0
1977	31,972	23,222	8,750	33	27.4
Chickens:					
1967	17,259	12,193	5,066	23	29.4
1976	27,137	21,016	6,121	28	22.6
1977	28,021	21,863	6,158	29	22.0

¹ Eggs in 1,000 dozens; other foods in 1,000 pounds.

² Eggs in dozens; other foods in pounds. Based on de facto population (see table 3).

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 335.—INCOME FROM FARMING: 1960 TO 1976
[In millions of dollars.]

Year	Realized gross farm income					Farm production expenses	Realized net farm income ²	Net change in farm inventories	Total net farm income ¹
	Cash receipts from farm marketings	Government payments	Non-money income	Other farm income	Total ¹				
1960	149.9	9.2	5.1	2.5	166.7	128.6	38.1	8.4	46.5
1961	160.3	9.0	5.3	2.5	177.2	129.5	47.7	.4	48.1
1962	170.4	10.1	5.2	2.7	188.3	133.4	55.0	1.0	55.9
1963	192.8	10.4	5.5	3.0	211.6	138.6	73.1	.4	73.5
1964	176.4	12.1	5.7	3.2	197.3	143.5	53.8	1.2	55.0
1965	183.4	11.1	6.0	3.7	204.2	147.5	56.7	1.5	58.2
1966	194.4	11.1	5.7	4.1	215.3	153.8	61.5	.5	62.0
1967	192.2	8.6	6.0	4.8	211.5	166.0	45.5	.8	46.2
1968	200.7	11.3	6.1	5.3	223.3	166.7	56.6	-.6	56.0
1969	197.3	11.0	6.3	5.7	220.3	175.2	45.1	1.0	46.1
1970	210.9	11.1	6.1	5.5	233.7	184.8	48.8	.8	49.6
1971	220.6	10.4	6.4	6.6	244.0	181.5	62.5	-.8	61.7
1972	232.4	11.1	6.6	6.7	256.9	185.6	71.3	-.9	70.4
1973	268.4	9.3	9.0	8.3	295.1	224.5	70.5	-.4	70.2
1974	575.1	8.3	10.3	10.2	603.9	258.5	345.3	2.7	348.1
1975	377.5	8.6	12.5	12.9	411.5	269.2	142.3	-1.7	140.6
1976	323.3	.4	13.8	14.3	351.8	292.0	59.8	-1.1	58.7

¹ Details may not add to totals due to rounding.

² Of farm operations.

Source: Hawaii Agricultural Reporting Service, "1976 Net Income of Hawaii Farmers Down Sharply," *Hawaii Farm Income* (October 19, 1977).

Table 336.—LAND USE PRODUCTIVITY RATINGS FOR MAJOR ISLANDS: 1968

[In acres]

Island and land use	Agricultural productivity rating						
	Total ¹	A (very good)	B (good)	C (moderate)	D (poor)	E (very poor)	Not rated for productivity ¹
Six islands	4,050,176	68,037	128,833	312,558	783,817	2,668,515	88,416
Island:							
Kauai	354,112	10,038	30,276	28,458	30,525	249,276	5,539
Oahu	388,928	24,584	32,286	21,986	19,728	228,218	62,126
Molokai	167,104	702	—	4,519	40,405	120,309	1,169
Lanai	89,280	—	—	4,849	20,219	63,777	435
Maui	466,432	32,713	20,067	38,467	99,806	268,726	6,653
Hawaii	2,584,320	—	46,204	214,279	573,134	1,738,209	12,494
Land use:							
Pineapple	69,276	—	16,204	22,131	29,038	1,903	—
Sugarcane	262,377	65,776	71,354	82,760	40,230	2,257	—
Diversified agriculture	33,569	2,261	6,497	14,218	6,205	4,388	—
Grassland grazing	492,905	—	22,905	116,641	175,186	178,173	—
Wooded grazing	657,629	—	4,313	37,776	175,767	439,773	—
Idle agricultural land	13,585	—	994	3,139	4,545	4,907	—
Forest	289,039	—	1,729	7,864	58,877	220,569	—
Forest reserve	1,190,954	—	1,603	14,596	237,389	937,366	—
Recreation	17,248	—	798	657	4,630	11,163	—
Game management	87,585	—	—	2,302	17,565	67,718	—
National park	229,423	—	—	5,191	26,554	197,678	—
Military	38,048	—	1,637	3,280	3,624	29,507	—
Undeveloped subdivision	76,814	—	799	2,003	4,198	69,814	—
Pali and barren land	503,308	—	—	—	9	503,299	—
Quarry	1,462	—	—	—	—	—	1,462
Water	8,063	—	—	—	—	—	8,063
Urban: military	17,658	—	—	—	—	—	17,658
Urban: civilian	61,233	—	—	—	—	—	61,233

¹ Quarry, water, or urban.

Source: Arthur Y. Ching and Tamotsu Sahara, *Land Use and Productivity Rating, State of Hawaii, 1968*, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21.

Table 337.—FERTILIZER CONSUMPTION: 1960 TO 1977
 [In tons. Years ended June 30.]

Year	Total	Mixtures	Direct application materials	
			Primary nutrients	Secondary and micro-nutrients
1960	127,255	57,906	66,167	3,182
1961	156,627	76,780	79,346	501
1962	158,274	83,107	73,488	1,679
1963	145,423	83,774	59,422	2,227
1964	158,843	89,235	66,476	3,132
1965	158,833	85,878	69,851	3,104
1966	162,798	92,232	69,163	1,403
1967	165,750	86,060	75,726	3,964
1968	168,988	92,360	73,559	3,069
1969	171,778	91,321	76,936	3,521
1970	189,262	97,713	88,794	2,755
1971	199,858	103,581	94,078	2,199
1972	202,725	98,624	100,878	3,223
1973	171,199	105,722	62,983	2,494
1974	165,720	104,413	58,155	3,152
1975	180,704	106,713	70,984	3,007
1976	176,735	114,116	56,952	5,667
1977	191,022	118,821	65,718	6,483

Source: Hawaii Agricultural Reporting Service, "Hawaii Fertilizer Consumption Up 8 Percent," *Hawaii Fertilizer Use* (November 21, 1977).

Section 20

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 1.2 million acres of forest reserve and 948,000 acres of commercial forest in the State, most of it on the Big Island. More than 49,000 acres had been planted in eucalyptus and other species of trees by 1977. Primary forest products harvested in 1969 (the most recent year available) had a value of \$331,000. Almost 900 forest and brushland fires burned 6,500 acres in 1977. According to a 1974 compilation, the tallest tree in the State is a 203-foot eucalyptus saligna.

The commercial fish catch in fiscal 1977 was 15.3 million pounds and had a value of \$9.4 million. *Aku* (Skipjack) accounted for 41 percent of the total value. Other important species were *ahi*, *akule*, *opelu*, and *mahimahi*. Commercial fishermen numbered 2,367; they operated 1,437 fishing vessels, serving 44 fishery wholesaling and processing establishments.

The value of mineral production reached \$44 million in 1977, most of it in cement and stone. The all-time high was \$49.7 million, recorded in 1975.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries, and reports and records of the U.S. Bureau of Mines, National Marine Fisheries Service, and 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: 1977*, Sections 25, 26, and 27.

**Table 338.—FOREST RESERVE, TREES PLANTED, AND FOREST FIRES:
1967 TO 1977**

Year	Forest reserve ¹ (1,000 acres)	Acres planted in trees ²	Forest and brushland fires ³	
			Number ⁴	Acres burned
1967	1,196	2,404	16	6,572
1968	1,196	2,039	25	13,339
1969	1,196	1,499	34	45,523
1970	1,196	1,539	62	14,245
1971	1,196	776	49	1,951
1972	1,196	361	67	8,190
1973	1,196	162	75	17,968
1974	1,196	88	36	2,640
1975	1,196	137	45	3,438
1976	1,196	324	64	6,881
1977	1,196	20	888	6,495

¹ As of June 30. Effective July 10, 1961, the area previously known as the forest and water reserve was designated the forest and water reserve within the conservation district. Data include both governmental and private land.

² Years ended June 30. Data refer to acreage planted in forest reserves.

³ Calendar years.

⁴ Increase after 1976 reflects improved reporting of smaller forest and brushland fires.

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

Table 339.—AREA OF FOREST LAND, 1970, AND PLANTED FOREST, 1977, BY ISLAND
[In acres.]

Island	Forest land, 1970		Area of planted forest, to 1977 ³
	Total ¹	Commercial ²	
State total	1,986,400	947,800	49,309
Niihau	31,100	—	—
Kauai	219,900	145,900	5,280
Oahu	205,300	126,500	7,218
Molokai	78,100	34,000	2,847
Lanai	43,900	4,500	512
Kahoolawe	15,800	—	—
Maui	239,800	67,500	10,670
Hawaii	1,152,500	569,400	22,782

¹ Includes commercial (938,300 acres), unproductive (933,700), and productive-reserved (114,400).

² Includes Federal military (12,300), State (428,100), miscellaneous corporate (294,900), and miscellaneous individual (203,000). Data revised since publication in *Data Book 1977*, table 301.

³ Chiefly Eucalyptus, other hardwoods, and conifers. Includes arboretum plantings.

Source: Hawaii State Department of Land and Natural Resources, Forestry Division, records; U.S. Forest Service, Institute of Pacific Islands Forestry, records.

Table 340.—PRIMARY FOREST PRODUCTS HARVESTED: 1958 TO 1969

Subject	Total	Sawlogs	Craftwood	Veneer logs	Fuelwood	Posts	Treefern
Production:¹							
1958 .....	...	405	510	—	1,300	65.0	100
1960 .....	...	850	100	30	1,500	37.0	115
1963 .....	...		913	—	847	22.0	118
1967 .....	...	3,925	196	—	720	7.1	143
1969 .....	...	1,650	422	1,056	1,720	10.1	55
Average unit value (\$):							
1958 .....	...	100	240	—	14.50	0.83	0.35
1960 .....	...	70	200	300	30.00	0.60	0.38
1963 .....	...		160	—	22.43	1.05	0.33
1967 .....	...	40	300	—	38.89	1.69	0.52
1969 .....	...	52	230	47	31.40	1.58	0.49
Total value (\$1,000):							
1958	269	40	121	—	19	54	35
1960	197	57	20	9	45	22	44
1963	230		149	—	19	23	39
1967	334	161	58	—	28	12	75
1969	331	86	98	50	54	16	27

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

Source: U.S. Department of Agriculture, Pacific Southwest Forest and Range Experiment Station, *Forest Products Harvested in Hawaii - 1969*, Research Note PSW-239 (1971), p. 2.

Table 341.—LARGEST REPORTED TREES OF SPECIFIED NATIVE AND EXOTIC SPECIES: 1974

Species	Circum. at 4½ ft. (ft., in.)	Height (feet)	Spread (feet)	Location
NATIVE				
<i>Acacia koa</i> (koa) ¹	37-4	140	128	Keauhou, Ka'u
<i>Aleurites moluccana</i> (kukui)	10-7	67	59	Pahala, Ka'u
<i>Calophyllum inophyllum</i> (kamani)	18-6	59	81	Malama-ki, Puna
<i>Metrosideros collina</i> ('ohi'a-lehua)	17-10	84	78	Waipunalei, Hilo
<i>Pandanus tectorius</i> (hala)	4-6	35	40	Keaau, Hilo
<i>Santalum pilgeri</i> ('ili'-ahi, or sandalwood)	7-8	65	48	Honomolino, S. Kona
<i>Sapindus saponaria</i> (wingleaf soapberry)	10-1	106	84	Hawaii Vol. Nat. Park
<i>Sophora chrysophylla</i> (mamani)	12-2	39	42	Mauna Kea For. Res.
EXOTIC				
<i>Araucaria hetrophylla</i> (Norfolk I. pine) .	16-6	140	75	Lanai City, Lanai
<i>Carica papaya</i> (papaya)	4-10	60	12	Kailua, N. Kona
<i>Cassia grandis</i> (pinkshower)	10-11	55	40	Reed's Island, Hilo
<i>Casuarina cunninghamiana</i> (river-oak iron wood)	6-9	80	42	Kohala Forest Res.
<i>Cocos nucifera</i> (coconut)	4-8	94	28	Arboretum, Hilo
<i>Delonix regia</i> (royal poinciana)	13-6	48	62	Maunawili, Koolaupoko
<i>Eucalyptus deanei</i>	11-0	157	60	Honaunau For. Res.
<i>Eucalyptus saligna</i>	12-11	203	70	Kailua, N. Kona
<i>Ficus benghalensis</i> (Indian banyan)	44-2	80	231	Lahaina
<i>Ficus retusa</i> (Chinese banyan)	90-1	104	195	Keaau, Puna
<i>Macadamia tetraphylla</i>	2-9	50	36	Kainaliu, N. Kona
<i>Mangifera indica</i> (mango)	24-8	71	70	Rainbow Falls, Hilo
<i>Plumeria rubra</i> (frangipani)	4-10	35	38	Arboretum, Hilo
<i>Prosopis pallida</i> (kiawe)	13-5	91	81	Puako, S. Kohala
<i>Roystonea regia</i> (royal palm)	7-0	70	30	Honokea, Hawaii

¹ Circumference measured above bulge.

Source: L.W. Bryan, "Champion Trees of Hawaii," *American Forests*, May 1974.

Table 342.—FISHERY OPERATING UNITS AND LANDINGS: 1958 TO 1976

Year	Fishermen ¹			Motor vessels ²		Boats ²		Fishery establishments ³	Landings ⁴	
	Total	On vessels ²	On boats and shore ²	Number	Gross tonnage	Motor	Other		Quantity (1,000 lb.)	Value (\$1,000)
1958 ⁵ .....	....	....	....	....	....	....	....	....	11,361	2,632
1959	688	343	345	64	1,066	224	39	....	16,570	3,179
1960	598	330	268	63	1,775	193	9	22	11,118	2,704
1961	589	320	269	65	1,908	195	20	20	14,472	2,897
1962	817	273	544	60	1,745	318	35	19	13,157	2,820
1963	820	266	554	56	1,728	360	23	16	11,735	2,679
1964	743	233	510	57	1,722	350	24	17	12,685	2,848
1965	744	264	480	57	1,762	324	23	24	19,588	3,602
1966	744	271	473	65	1,852	312	11	26	13,014	3,128
1967	677	237	440	61	1,811	305	17	29	11,842	3,077
1968	1,032	292	740	63	1,844	466	14	32	12,896	3,451
1969	1,338	315	1,023	61	1,923	599	32	36	9,543	3,483
1970	1,436	333	1,103	80	2,278	637	49	37	11,051	3,900
1971	1,533	355	1,178	89	2,475	773	39	44	16,873	5,238
1972	1,732	396	1,336	101	2,769	828	11	40	14,443	5,743
1973	2,091	357	1,734	104	2,801	1,095	2	41	14,035	6,115
1974 ⁶	1,992	....	....	97	....	1,066	....	42	10,990	6,028
1975	2,197	....	....	109	....	1,278	....	42	9,208	6,312
1976	2,367	....	....	101	....	1,336	....	44	14,761	8,879

¹ Persons licensed as commercial fishermen by the Hawaii State Department of Land and Natural Resources, Fish and Game Division. Data refer to June 30 of the following year.

² A vessel is defined as a craft having a capacity of five net tons or over; a boat, as a craft having a capacity of less than five net tons. Data on vessels and boats refer to June 30 of the following year.

³ Data include all fishery wholesaling and processing establishments in the State. All totals are as of June 30 of the year indicated.

⁴ Data may differ from corresponding totals reported by the State Fish and Game Division, which, unlike the NMFS series shown here, include unsold fish.

⁵ Fishery operating units not reported by NMFS before 1959.

⁶ Methods of collecting data on operating units were changed in 1974.

Source: U.S. Department of the Interior, Fish and Wildlife Service, Bureau of Commercial Fisheries, *Fishery Statistics of the United States* (annual through 1967); U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States* (annual, 1968-1974), and records.

Table 343.—COMMERCIAL FISHING: 1968 TO 1978
 [Years ended June 30.]

Year	Fishermen licensed during year	Commercial fish landings				
		Pounds	Value (dollars)	Value per pound (dollars)	Per fisherman	
					Pounds	Value (dollars)
1968	760	12,829,326	3,253,622	0.254	16,881	4,281
1969	1,028	11,096,116	3,378,553	0.304	10,794	3,287
1970	1,264	9,786,726	3,584,936	0.366	7,743	2,836
1971	1,373	15,176,525	4,633,877	0.305	11,054	3,375
1972	1,544	15,577,302	5,536,385	0.355	10,089	3,586
1973	1,677	14,029,491	5,676,780	0.405	8,366	3,385
1974	2,085	13,997,435	6,234,933	0.445	6,713	2,990
1975	1,991	10,801,380	6,242,572	0.578	5,425	3,135
1976	2,283	11,891,275	7,503,964	0.631	5,209	3,287
1977	2,367	15,298,457	9,433,770	0.617	6,463	3,986
1978	2,574	13,681,344	11,169,917	0.816	5,315	4,340

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, *Commercial Fish Landings, for Fiscal Year* (annual), and records.

**Table 344.—COMMERCIAL FISH LANDINGS, BY SPECIES AND ISLAND:
JULY 1, 1976 TO JUNE 30, 1977**

Island and species	Pounds caught	Value (dollars)
Total landings	15,298,457	9,433,770
ISLAND		
Hawaii	2,500,428	1,965,749
Maui	1,344,050	523,801
Lanai	26,907	14,509
Molokai	25,528	23,526
Oahu	11,040,190	6,681,802
Kauai	361,354	224,383
SPECIES ¹		
Sea catch, total ²	15,278,610	9,412,141
Aku (Skipjack)	9,439,146	3,898,341
Ahi (Yellowfin)	2,089,698	1,923,080
Akule	804,841	525,723
Ahi (Bigeye)	376,723	712,141
Opelu	332,852	276,430
Pacific Blue Marlin	309,220	88,943
Ono	202,154	165,128
Striped Marlin	172,687	109,261
Mahimahi	149,794	198,239
Opakapaka	116,898	162,657
Limu	100,495	61,766
Ulua	95,046	76,885
Kawakawa	91,638	23,426
Hahalalu	87,197	65,583
Ulaula koae (Onaga)	85,843	197,466
Hapuupuu	58,840	72,338
Ahipalaha (Albacore)	51,775	34,329
Ula (Lobster)	48,422	83,876
Pond catch, total	19,847	21,629

¹ Shown separately for all species over 50,000 pounds or \$75,000.

² Includes species not shown separately.

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, *Commercial Fish Landings for Fiscal Year — July, 1976 through June, 1977* (October 1977).

Table 345.—COMMERCIAL LIMU HARVEST: 1970 TO 1976

[This series was discontinued in mid-1977]

Calendar year	Pounds taken	Pounds sold	Value (dollars)
1970	49,427	49,302	16,166
1971	88,813	88,813	28,366
1972	96,563	96,460	34,838
1973	97,140	96,987	35,909
1974	46,366	45,885	23,899
1975	64,502	63,587	39,207
1976	65,716	64,446	39,632

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

Table 346.—MINERAL OPERATIONS: 1963 TO 1972

Kind of operation and year	Establishments		All employees		Production, development, and exploration workers			Value added in mining (\$1,000)	Cost of supplies, etc. ¹ (\$1,000)	Value of shipments and receipts ² (\$1,000)	Capital expenditures ³ (\$1,000)
	Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Man-hours (\$1,000)	Wages (\$1,000)				
MINERAL INDUSTRIES ONLY											
1963	44	4	315	1,658	228	560	1,451	4,909	2,136	6,525	520
1967 ⁴	12	3	200	1,600	200	400	1,300	5,000	2,300	5,500	1,800
1972 ⁴	15	5	300	2,400	200	400	1,800	9,000	4,100	11,000	2,000
INCLUDING OPERATIONS IN MANUFACTURES											
1963	49	4	339	1,758	312	607	1,551	5,677	1,985	7,462	520
1967	18	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1972	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

¹ Data for mineral industries only include purchase machinery installed. Data including mineral operations in manufacturing establishments exclude purchase machinery installed.² For crushed and broken stone, sand and gravel mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products.³ Excludes data for crushed and broken stone, sand and gravel mining operations in manufacturing establishments.⁴ Excludes data for companies without paid employees. In 1963, there were 16 single-unit establishments without paid employees in Hawaii; these establishments accounted for approximately 3 percent of value added.Source: U.S. Bureau of the Census, *U.S. Census of Mineral Industries* for 1963 (MIC63(2)-10, table 1; 1967, MIC67(2)-10, table 1; and 1972, MIC72(2)-9, table 1.

Table 347.—MINERAL PRODUCTION: 1970 TO 1977

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers.]

Year	Quantity (1,000 short tons)		Value (\$1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals ¹
1970	406	6,331	28,965	10,334	15,538	3,093
1971	386	6,056	28,107	10,627	14,357	3,123
1972	415	5,005	28,074	11,116	13,494	3,464
1973	469	7,180	35,147	13,750	18,466	2,931
1974	502	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977 ²	346	5,855	43,750	19,936	21,357	2,457

¹ Chiefly sand and gravel; pumice, pumicite, and volcanic cinder; and lime.² Preliminary.Source: U.S. Bureau of Mines, *Minerals Yearbook* (annual) and "The Mineral Industry in Hawaii," *Mineral Industry Surveys* (annual preliminary and advance summary reports).

Section 21

CONSTRUCTION AND HOUSING

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

There were 23,406 building permits issued in 1977, with an estimated value of \$534 million. The total included \$311 million for private residential construction and \$154 million for private nonresidential structures. The estimated value of construction put in place, as indicated by the contracting tax base, was \$1.16 billion in 1975 and \$1.01 billion in 1976. The value of land transfers in fiscal 1978 was \$1.3 billion. Mortgage loans outstanding amounted to \$3.96 billion. The May 1978 construction cost index for Honolulu was 239.3 for single-family residences and 238.9 for high-rise buildings, with the 1967 average equal to 100. By the end of 1977, 2,881 elevators were in operation in the Islands.

The number of housing units in the State increased from 166,000 in 1960 to 217,000 in 1970 and 281,000 in 1978. Owner occupied units numbered 56,000 in 1960 and 129,000 in 1978; the latter total included 93,000 on land owned in fee and 36,000 on leased land. Condominium units, first authorized in 1961, approached 60,000 at the end of 1977. Military and public housing accounted for 25,000 units as of 1978. Housing was in short supply throughout most of the past decade: on Oahu, the 1978 vacancy rate was only 1.5 percent, although a fifth of all units turned over at least once during the year. The average selling price of single family homes on Oahu in the first half of 1977, based on Multiple Listing Service data, was \$90,700. Median monthly rent for the State rose from \$64 in 1960 to \$120 in 1970 and \$204 (the mean) in 1976, and the average value of owner occupied units in the latter year was \$61,000. The average property value of new homes insured by the Federal Housing Administration in Hawaii was \$21,600 in 1960 and \$48,600 in 1975 — both figures well over national averages.

The principal sources for these data are the United States Census of Housing, and annual report on *FHA Homes, Data for States and Selected Areas*, postal vacancy surveys issued by the Federal Home Loan Bank, the Hawaii Health Surveillance Program survey, the Honolulu Department of Housing and Community Development's *Housing and Community Development Research*, reports of the county building departments, the First Hawaiian Bank's monthly *Economic Indicators*, the Bank of Hawaii's annual *Construction in Hawaii*, and the semi-annual *Multiple Listing Service Statistical Review*. Mainland statistics appear in Section 28 of *Statistical Abstract of the United States: 1977*.

Table 348.—NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTY: 1967 TO 1977

Year	Number of building permits issued					Estimated value of building permits (\$1,000)				
	State total	Hono-lulu	Hawaii	Kauai	Maui	State total	Hono-lulu	Hawaii	Kauai	Maui
1967	19,284	14,632	2,659	275	1,718	256,436	210,408	21,935	8,522	15,571
1968	21,262	16,997	2,126	389	1,750	405,618	345,600	22,535	14,627	22,856
1969	20,944	15,426	3,050	460	2,008	524,667	412,594	60,757	18,013	33,303
1970	23,162	16,792	3,402	514	2,454	506,649	386,687	61,362	15,777	42,823
1971	24,562	17,239	3,876	556	2,891	416,695	298,630	61,237	15,768	41,060
1972	25,342	17,706	3,982	862	2,792	508,261	364,835	69,016	25,741	48,669
1973	30,581	22,767	4,260	1,132	2,422	649,121	480,639	56,376	31,578	80,528
1974	26,027	19,169	3,635	1,066	2,157	831,897	594,896	85,350	36,745	114,906
1975	23,287	16,514	3,506	1,255	2,012	744,494	495,871	69,691	53,099	125,833
1976	23,453	15,937	3,535	1,195	2,786	581,226	411,497	58,137	29,921	81,671
1977	23,406	15,793	3,536	1,173	2,904	534,278	356,591	62,088	32,060	83,539

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual); Hawaii, Kauai and Maui County departments of public works, records.

Table 349.—VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1970 TO 1977

[In thousands of dollars. Limited to private construction, including additions, alteration, and repairs.]

Category and year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
RESIDENTIAL					
1970	224,147	173,815	23,226	8,690	18,417
1971	254,145	181,246	36,926	10,017	25,957
1972	323,756	228,104	42,657	19,808	33,188
1973	460,490	347,767	39,045	21,828	51,850
1974	538,869	376,170	49,995	19,992	92,711
1975	382,552	228,155	38,698	20,009	95,690
1976	259,348	179,673	29,243	13,346	37,086
1977	311,333	192,334	39,504	21,197	58,298
NONRESIDENTIAL					
1970	188,154	142,995	25,337	4,855	14,966
1971	113,709	86,047	19,236	3,126	5,299
1972	131,274	98,840	16,614	3,256	12,564
1973	137,873	94,123	11,666	6,799	25,284
1974	209,904	156,961	23,920	10,908	18,114
1975	227,272	179,006	11,018	16,086	21,163
1976	196,425	144,455	10,505	3,755	37,710
1977	153,570	118,429	11,850	6,822	16,469

Source: First Hawaiian Bank, as revised from local construction reports submitted to F. W. Dodge Division, McGraw-Hill Information Systems Company.

**Table 350.—PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMIT,
BY COUNTY: 1970 TO 1977**

Subject	State total	City & County of Honolulu	Hawaii County	Kauai County	Maui County
New 1-family dwellings:					
1970	5,399	3,809	796	320	474
1971	5,802	3,771	1,014	348	669
1972	5,852	3,353	1,152	515	832
1973	5,420	3,008	1,143	424	845
1974	3,455	1,626	839	401	589
1975	3,042	1,078	826	343	795
1976	3,386	1,326	821	366	873
1977	4,790	2,210	1,070	429	1,081
New duplex units:					
1970	228	212	6	6	4
1971	100	70	28	—	2
1972	124	112	4	6	2
1973	326	312	6	4	4
1974	484	464	4	14	2
1975	242	112	12	16	102
1976	110	56	—	46	8
1977	100	84	4	2	10
New apartments:					
1970	5,122	3,957	389	67	709
1971	5,623	4,017	830	29	747
1972	9,023	6,952	850	365	856
1973	11,864	9,745	493	339	1,287
1974	15,203	11,070	990	501	2,642
1975	7,031	4,240	499	186	2,106
1976	3,492	3,142	129	—	221
1977	3,129	2,389	129	83	528
Units demolished:					
1970 ¹	930	642	100	112	76
1971	857	596	80	87	94
1972	956	669	70	82	135
1973	1,156	874	102	60	120
1974	983	703	162	73	45
1975	913	632	135	11	135
1976	857	613	92	6	146
1977	906	696	96	15	99

¹Hawaii and Maui Counties estimated.

Source: Compiled from County building departments by Dept. of Planning and Economic Development.

Table 351.—CONDOMINIUM PROJECTS REGISTERED WITH THE HAWAII STATE REAL ESTATE COMMISSION: 1961 TO 1977

Year	Projects	Year	Projects	Year	Projects
1961	1	1966	31	1971	69
1962	9	1967	25	1972	84
1963	18	1968	62	1973	136
1964	26	1969	66	1974	95
1965	77	1970	47	1975	90
Year		Projects		Housing units	
1976		63		4,167	
1977		71		5,017	

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

Table 352.—NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1963 TO 1977

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1962	182	—	—	8	174	182
1963	41	—	—	—	41	223
1964	1,557	—	28	258	1,271	1,780
1965	1,091	73	147	245	626	2,871
1966	2,061	67	216	366	1,412	4,932
1967	1,545	—	—	284	1,261	6,477
1968	2,181	39	150	74	1,918	8,658
1969	1,754	32	152	453	1,117	10,412
1970	4,908	6	939	874	3,089	15,320
1971	4,318	—	1,062	382	2,874	19,638
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,048	49,287
1976	7,357	112	655	260	6,330	56,644
1977 ¹	3,347	42	829	980	1,496	59,991

¹ Estimated.

Source: Bank of Hawaii, Department of Business Research, *Bank of Hawaii Monthly Review*, August 1977, p. 2, and *Construction in Hawaii* (May 1978), p. 6.

Table 353.—NEW SALES HOUSING COMPLETED, BY PRICE GROUP AND SALES STATUS, FOR OAHU: 1976

[Survey includes only subdivisions or projects with five or more completions during the year.]

Price group and sales status	On fee simple land				On leased land			
	Total	Single-family		Multi-family ¹	Total	Single-family		Multi-family ¹
		Detached	Attached ¹			Detached	Attached ¹	
Units completed	1,355	873	248	234	4,299	141	156	4,002
Price group:								
Under \$30,000	34	—	—	34	—	—	—	—
\$30,000 to \$34,999	—	—	—	—	—	—	—	—
\$35,000 to \$39,999	96	—	96	—	210	—	—	210
\$40,000 to \$44,999	33	—	—	33	214	—	—	214
\$45,000 to \$49,999	34	—	22	12	416	—	—	416
\$50,000 to \$59,999	91	8	30	53	1,382	13	94	1,275
\$60,000 to \$69,999	255	157	64	34	1,048	6	62	980
\$70,000 to \$99,999	726	622	36	68	837	107	—	730
\$100,000 and over	86	86	—	—	192	15	—	177
Median (dollars)	75,558	83,095	52,000	57,170	59,475	84,439	58,298	59,106
Sales status:								
Sold before construction start	370	361	—	9	645	58	—	587
Speculative	985	512	248	225	3,654	83	156	3,415
Sold by end of year	811	473	190	148	1,744	27	56	1,661
Unsold by end of year	174	39	58	77	1,910	56	100	1,754
Percent unsold	18	8	23	34	52	67	64	51

¹Condominium units.Source: U.S. Department of Housing and Urban Development, Federal Housing Administration, *HUD Surveys Unsold New Houses in Honolulu, Hawaii* (Director's Release HUD #HAO 77-3, June 15, 1977).

Table 354.—MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1977

[Includes all properties, residential and nonresidential]

Calendar year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213

Source: Honolulu Board of Realtors, records.

Table 355.—MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL AND CONDOMINIUM UNITS, FOR OAHU: 1972 TO 1977

Calendar year	Number of units listed		Number of units sold		Percent of listed units sold		Average selling price (dollars)	
	Residential	Condominium	Residential	Condominium	Residential	Condominium	Residential	Condominium
1972	3,472	2,080	2,891	1,306	83.3	62.8	65,723	43,869
1973	4,148	3,185	2,699	2,379	65.1	74.7	85,914	46,811
1974	4,826	4,912	2,246	2,302	46.5	46.9	83,611	54,956
1975	4,821	5,323	2,265	1,715	47.0	32.2	83,797	55,596
1976	4,791	4,903	2,472	1,650	51.6	33.7	85,691	59,842
1977	4,452	5,422	2,985	2,285	67.0	42.1	94,028	61,484

Source: Honolulu Board of Realtors, records.

**Table 356.—MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY
COUNTIES: JAN. 1 -JUNE 30, 1977**

County and type of unit	Units listed	Units sold		Selling price	
		Number	Percent	Amount (\$1,000)	Per unit (\$1,000)
State total	8,388	3,849	45.9	274,452	71.3
Single-family residential	3,004	1,773	59.0	160,749	90.7
1 and 2 bedrooms	289	170	58.8	13,031	76.6
3 bedrooms	1,755	1,109	63.2	91,118	82.2
4 or more bedrooms	960	494	51.4	56,600	114.6
Condominiums	3,294	1,348	40.9	83,888	62.2
Income, vacant, or co-op.	2,090	728	34.8	29,815	41.0
City & County of Honolulu	5,612	2,659	47.4	217,354	81.7
Single-family residential	2,367	1,465	61.9	138,331	94.4
1 and 2 bedrooms	179	120	67.0	9,705	80.9
3 bedrooms	1,347	901	66.9	76,925	85.4
4 or more bedrooms	841	444	52.8	51,701	116.4
Condominium	2,840	1,058	37.2	64,547	61.0
Income, vacant or co-op.	405	136	33.6	14,476	106.4
Hawaii County	1,785	561	31.4	14,412	25.7
Single-family residential	400	171	42.8	8,935	52.2
1 and 2 bedrooms	72	25	34.7	1,002	40.1
3 bedrooms	243	119	49.0	6,217	52.2
4 or more bedrooms	85	27	31.8	1,716	63.6
Condominium	34	10	29.4	359	35.9
Income, vacant, or co-op.	1,351	380	2.8	5,118	13.5
Kauai County	215	95	44.2	4,880	51.4
Single-family residential	62	21	33.9	1,673	79.7
1 and 2 bedrooms	7	4	57.1	224	56.0
3 bedrooms	44	13	29.5	956	73.5
4 or more bedrooms	11	4	36.4	493	123.2
Condominium	44	18	40.9	922	51.2
Income, vacant, or co-op.	109	56	55.4	2,285	40.8
Maui County	776	534	68.8	37,806	70.8
Single-family residential	175	116	66.3	11,810	101.8
1 and 2 bedrooms	31	21	67.7	2,100	100.0
3 bedrooms	121	76	62.8	7,020	92.4
4 or more bedrooms	23	19	82.6	2,690	141.6
Condominium	376	262	69.7	18,060	68.9
Income, vacant, or co-op.	225	156	69.3	7,936	50.9

Source: Data Communication Incorporated, *State of Hawaii Multiple Listing Service, Statistical Review* (semi-annual).

Table 357.—GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1966 TO 1976
 [In thousands of dollars. Series discontinued in January 1977 and resumed in 1978.]

Year reported ¹	Contracting	Rentals		
		Total	Hotel rentals ²	All other rentals ³
1966	392,408	303,615	...	...
1967	346,778	362,320	...	...
1968	451,697	417,247	...	...
1969	624,957	490,856	...	...
1970	782,972	531,668	176,923	354,745
1971	692,938	573,606	198,539	375,067
1972	695,939	649,954	227,058	422,895
1973	904,629	761,447	264,519	496,928
1974	1,027,195	893,347	319,109	574,237
1975	1,161,913	1,019,792	365,919	653,873
1976	1,012,952	1,161,955	433,300	728,655

¹Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

²Not reported separately prior to January 1970.

³Includes residential, office, automobile, and equipment rentals, and land leases.

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

Table 358.—HONOLULU CONSTRUCTION COST INDEXES: 1965 TO 1978
 [1967 = 100]

Year ¹	Single-family residence			High-rise building		
	All components	Materials prices	Labor ²	All components	Materials prices	Labor ²
1965	90.4	92.5	87.8	90.8	95.1	87.2
1966	95.6	97.0	94.0	95.8	98.6	93.2
1967	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.7	106.6	106.8	105.2	102.3	107.6
1969	115.2	115.3	115.2	110.8	104.7	116.1
1970	118.0	112.9	124.5	117.9	109.3	125.2
1971	125.7	116.5	137.4	125.1	110.8	137.7
1972	135.2	123.1	150.6	133.6	114.6	150.0
1973	154.7	150.0	160.8	144.9	126.7	160.6
1974	164.6	159.0	171.6	163.7	154.6	175.6
1975	175.7	167.1	186.6	178.8	171.3	185.3
1976	193.9	176.2	215.9	199.1	178.4	216.9
1977	221.2	197.7	251.0	221.9	188.1	251.2
1978: May	239.3	211.9	274.0	238.9	200.0	272.5

¹Annual average unless otherwise specified.

²Wages and benefits.

Source: First Hawaiian Bank, records.

Table 359.—CHARACTERISTICS OF CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1972

Industry	All establishments				With payroll		Without payroll	
	Number of establishments	Number of proprietors & working partners	All employees (average)	Total receipts (\$1,000)	Number of establishments	Total receipts (\$1,000)	Number of establishments	Total receipts (\$1,000)
Total	2,318	1,327	25,012	1,109,328	1,570	1,085,515	748	23,813
Construction industries	2,183	1,265	24,460	1,046,508	1,462	1,033,800	721	12,708
General building contractors and operative builders	703	343	9,900	563,928	571	560,684	132	3,244
Heavy construction general contractors	92	39	3,147	124,794	83	124,243	9	551
Special trade contractors	1,387	882	11,413	357,785	808	348,873	579	8,912
Subdividers and developers	135	62	552	62,819	108	51,715	27	11,104

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1972, Pacific States*, CC72-A-9 (1975), p. 51-3.

Table 360.—NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1968 TO 1978

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) ¹
1968	13,615	528,972,370
1969	14,683	809,639,656
1970	14,876	822,665,446
1971	16,036	969,486,762
1972	20,354	1,211,269,225
1973	21,874	1,736,756,401
1974	21,435	2,076,149,450
1975	17,892	1,308,805,819
1976	20,072	915,195,342
1977	22,618	1,771,313,731
1978	13,148	1,306,408,450

¹Data before January 1967 limited to deeds; data for 1967 and later years include leases, agreement of sales assignments, subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, *Annual Report* (annual); Bureau of Conveyances, records.

**Table 361.—REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION:
1970 TO 1977**

[In thousands of dollars. As of December 31.]

Year	All institutions	Banks	Savings, building and loan associations	Trust companies	Industrial loan companies	Insurance companies
1970	1,790,220	469,483	678,688	4,760	37,587	599,702
1971	2,093,033	496,899	854,183	5,156	63,852	672,944
1972	2,424,166	570,525	1,061,068	2,199	90,733	699,641
1973	2,797,345	662,989	1,231,323	984	194,758	707,292
1974	3,210,216	751,142	1,344,025	593	291,566	822,890
1975	3,564,867	816,412	1,547,871	479	318,305	881,800
1976	3,959,529	883,500	1,841,239	2,307	284,856	947,627
1977	(NA)	992,773	2,229,623	1,241	292,066	(NA)

NA Not available.

¹ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division and Insurance Division.

Table 362.—HOUSING CHARACTERISTICS: 1940 TO 1970

Year and county	All housing units	Population per occupied unit	Percent vacant ¹		Median number of rooms ¹	Percent in one-unit structures ¹
			For rent or sale	Other vacant		
1940	90,830	(NA)	4.4		4.2	78.9
1950	120,606	4.1	2.4	4.2	4.3	71.9
1960	165,506	3.9	2.7	4.8	4.5	74.2
1970	216,568	3.6	2.9	3.0	4.6	65.0
COUNTIES: 1970						
City & Co. of Honolulu	174,653	3.6	3.1	2.3	4.5	59.0
Hawaii County	18,972	3.6	2.5	6.3	4.8	88.4
Kauai County	9,021	3.5	2.3	5.5	4.8	91.0
Maui County	13,922	3.5	1.7	6.1	4.8	91.6
Year and county	Percent lacking some or all plumbing ¹	Occupied housing units			Owner occupied: median value ²	Renter occupied: median rent ³
		Number	Percent owner occupied	Percent 1.01 or more persons per room		
1940	(NA)	86,855	25.4	38.4	2,540	17
1950	38.8	112,290	33.0	30.8	12,283	32
1960	(NA)	153,064	41.1	25.7	20,900	64
1970	5.6	203,088	46.9	19.9	35,100	120
COUNTIES: 1970						
City & 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).

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

³In dollars. Contract monthly rent, excluding rent free units.

Source: U.S. Census of Housing: 1940, General Characteristics, Hawaii; U.S. Census of Housing: 1950, Bulletin H-A52; U.S. Census of Housing: 1960, Final Report HC(1)-13; U.S. Census of Housing: 1970, Final Report HC(1)-A13.

Table 363.—HOUSING CHARACTERISTICS: 1960 AND 1970

Subject	1960: percent	1970: percent		
		State total	City & Co. of Honolulu	Other counties
Year-round housing units: ¹				
With more than one bathroom	21.5	39.6	40.9	34.4
In structures built previous 10 years	36.0	39.8	42.8	27.3
With air conditioning ²	1.5	11.3	13.2	2.9
With 3 or more bedrooms	46.3	52.8	50.9	60.7
Occupied housing units:				
Moved into unit previous 15 months	30.8	29.7	32.4	17.8
With 2 or more automobiles available	25.4	42.9	41.3	49.5
With clothes washing machine	80.1	74.7	73.7	79.0
With clothes dryer	7.6	28.4	31.5	15.4
With dish washer	(NA)	17.1	19.3	7.5
With home, food freezer	18.8	21.0	18.4	31.9
With television	77.9	93.4	94.4	88.9
Owned second home	(NA)	4.2	4.0	5.0

NA Not available.

¹Data for 1960 include a few vacant seasonal or migratory housing units.

²Data for 1960 limited to occupied housing units.

Source: *U.S. Census of Housing: 1960*, Final Report HC(1)-13, and *U.S. Census of Housing: 1970*, Final Report HC(1)-B13.

**Table 364.—STRUCTURAL AND OCCUPANCY CHARACTERISTICS OF OCCUPIED HOUSING UNITS,
BY COUNTIES: 1974**

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total occupied units ¹	243,520	194,416	21,678	9,835	17,590
TYPE OF BUILDING					
Single-family	161,898	116,711	19,777	9,206	16,204
Duplex	10,840	9,057	1,426	118	239
Triplex	1,013	926	—	39	48
Apartment house	67,734	66,075	428	275	956
Rooming house ¹	1,406	1,184	—	79	143
Group quarters ¹	629	463	48	118	—
ROOMS IN UNIT					
1	8,110	7,307	285	39	478
2	11,712	9,674	1,093	275	669
3	19,112	17,085	1,046	551	430
4	46,002	37,977	3,898	1,928	2,199
5	74,661	55,062	8,129	4,013	7,457
6	51,328	40,345	4,326	2,164	4,493
7	20,205	16,519	1,949	590	1,147
8 or more	11,951	10,086	951	197	717
Not reported	439	360	—	79	—
BEDROOMS IN UNIT					
None	7,393	6,638	238	39	478
1	26,197	22,900	1,569	629	1,099
2	59,515	48,938	5,134	2,478	2,964
3	114,250	87,019	11,219	5,783	10,229
4	28,626	23,414	2,662	590	1,960
5	5,137	3,654	713	197	574
6	2,008	1,595	143	79	191
7	151	103	—	—	48
8 or more	91	51	—	39	—
Not reported	151	103	—	—	48
TENURE					
Owner occupied	130,868	100,245	14,404	5,034	11,185
Land owned	103,818	75,337	13,216	4,760	10,564
Land leased	24,961	23,517	761	157	526
Land tenure not reported	2,029	1,391	427	117	95
Renter occupied	112,650	94,172	7,274	4,799	6,405

¹For purposes of this survey, each rooming house or other group quarters structure (except institutions and barracks) counted as a single housing unit.

Source follows next table.

Table 365.—FINANCIAL CHARACTERISTICS OF OCCUPIED HOUSING UNITS, BY COUNTIES: 1974

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
MONTHLY MORTGAGE OF OWNER OCCUPIED UNITS					
Total owner occupied	130,868	100,245	14,404	5,034	11,185
Owned outright	44,328	26,759	6,703	2,596	8,269
Mortgaged	86,540	73,486	7,701	2,438	2,916
\$1 to \$99	7,006	2,779	2,757	944	526
\$100 to \$199	30,483	25,576	2,805	669	1,434
\$200 to \$299	22,861	20,944	1,141	393	382
\$300 to \$399	12,698	11,939	380	236	143
\$400 to \$499	5,771	5,558	—	118	96
\$500 or more	4,089	3,860	143	39	48
Not reported	3,632	2,830	475	39	287
Percent owned outright	33.9	26.7	46.5	51.6	73.9
Median, including owned outright	\$ 140	\$ 175	\$ 9	(Z)	(Z)
Median, excluding owned outright	\$ 217	\$ 233	\$ 131	\$ 138	\$ 109
MONTHLY CONTRACT RENT OF RENTER OCCUPIED UNITS					
Total renter occupied	112,650	94,172	7,274	4,799	6,405
No cash rent	17,554	15,541	998	393	621
Rent paid	95,096	78,631	6,276	4,406	5,784
\$1 to \$99	21,695	13,174	3,470	2,518	2,533
\$100 to \$199	35,324	30,156	1,902	1,259	2,008
\$200 to \$299	23,947	21,768	856	511	813
\$300 to \$399	10,760	10,395	48	79	239
\$400 to \$499	1,544	1,544	—	—	—
\$500 or more	926	926	—	—	—
Not reported	900	669	—	39	191
Median rent paid ¹	\$ 172	\$ 186	\$ 90	\$ 87	\$ 113

Z more than half of all owner occupied housing units were owned outright.

¹For households paying cash rent.

Source: Hawaii State Department of Health and Department of Planning and Economic Development, "Characteristics of Occupied Housing Units in Hawaii, 1974; Employment by Place of Work in Hawaii, 1974," *Population Report*, No. 7, December 1976.

Table 366.—CHARACTERISTICS OF OCCUPIED HOUSING UNITS, FOR SPECIFIED ISLANDS: 1975

Characteristics	Oahu	Hawaii	Maui, Molokai, Lanai	Kauai (1974)
Number of housing units	209,676	22,112	17,732	8,550
Occupants:				
Average household size ¹	3.43	3.38	3.37	3.45
Median household income (dollars)	14,139	11,337	13,370	10,750
Median family income (dollars)	14,611	12,028	...	...
Percent of households below poverty level	10.0	19.8	...	...
Tenure and control (percent):				
Owner occupied	47.8	60.6	65.9	53.8
Condominium or cooperative	3.5	0.3	2.7	...
Other owner occupied	44.3	60.3	63.2	...
Renter occupied (incl. no cash rent)	51.7	39.4	34.1	46.1
Percent of owner occ. on leased land	31.6	6.8	6.0	14.8
Percent of renter occ. owned by govt.	21.5	6.8	3.9	...
Structural characteristics (percent):				
In one-unit structures	57.1	82.0	84.0	...
In one-story structures	57.6	80.0	83.0	...
With passenger elevator	11.0	2.4	5.2	...
With 1 to 3 rooms	18.4	11.6	13.8	...
With 0 to 2 bedrooms	42.0	32.1	34.1	...
With both hot and cold running water	99.2	96.0	98.0	...
With private flush toilet and tub or shower	98.8	96.6	98.8	...
With private sink, stove, and refrigerator	98.4	96.9	98.8	...
In "good" condition ²	85.6	82.6	86.1	...
Median monthly costs (dollars):				
Owner occupied:				
Total, excl. maintenance and utilities	256	89	137	...
Utilities	56	45	53	...
Renter occupied, excl. no cash rent:				
Contract rent	197	135	164	(³)
Utilities	36	30	45	...

¹Before adjustment for apparent overstatement; see source for discussion.

²Units were classified as "good," "fair," or "poor," see source for criteria.

³For rented plantation housing, \$28; for other rented units, \$125.

Source: Survey & Marketing Services, Inc., *OEO 1975 Census Update Survey* for Oahu (Sept. 1976), Hawaii County (Sept. 1976), and Maui County (Feb. 1976), as corrected; Univ. of Hawaii; Center for Nonmetropolitan Planning and Development, *Kauai Socioeconomic Profile* (May 1975).

Table 367.—TENURE AND CONTROL OF HOUSING: 1968 TO 1978

Year	All housing units ¹	Owner occupied units ²		Renter occupied and vacant units ³		
		Land owned	Land leased	Private ⁴	Federal ¹	State and County ¹
1968	204,248	63,115	16,708	103,760	14,952	5,713
1969	209,598	65,164	18,585	105,337	14,236	6,276
1970	216,774	68,422	20,802	106,821	14,439	6,290
1971	223,618	72,086	21,732	108,400	15,089	6,311
1972	231,608	75,939	24,565	109,949	14,959	6,196
1973	239,444	78,878	26,776	112,636	15,071	6,083
1974	249,646	82,494	30,333	114,186	16,373	6,260
1975	260,740	85,264	30,543	121,896	16,386	6,651
1976	268,387	88,284	33,730	122,626	17,225	6,522
1977	275,127	89,980	34,549	126,361	17,493	6,744
1978	280,622	92,989	35,869	126,837	18,653	6,274

¹ As of April 1.

² As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1968, 1977 and 1978 refer to January 1; data for 1969-1976, to July 1.

³ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

⁴ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

Source: Honolulu Redevelopment Agency, *Redevelopment and Housing Research*, No. 33 (July 1973) and No. 34 (July 1974); Honolulu Department of Housing and Community Development, *Housing and Community Development Research*, Nos. 35-38 (July 1975-July 1978).

Table 368.—TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1978

County	All housing units ¹	Owner occupied units ²		Renter occupied and vacant units ³		
		Land owned	Land leased	Private ⁴	Federal ¹	State and County ¹
State total	280,622	92,989	35,869	126,837	18,653	6,274
City & Co. of Honolulu	219,907	63,805	34,229	98,514	18,508	4,851
County of Hawaii	26,006	13,851	930	10,407	56	762
County of Kauai	11,328	5,153	133	5,720	65	257
County of Maui	23,381	10,180	577	12,196	24	404

¹ As of April 1.

² As indicated by the number of taxpayers claiming home exemptions, as of January 1.

³ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

⁴ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus are not attributable to any specific date.

Source: Honolulu Department of Housing and Community Development, *Housing and Community Development Research*, No. 38, July 1978.

Table 369.—TENURE AND VALUE OR RENT OF HOUSING UNITS: SPRING 1976

Subject	Amount
All occupied housing units	244,000
Owner occupied	127,000
Mean value	61,322 dollars
Renter occupied (cash)	105,000
Mean rent	203 dollars
Occupier paid no cash rent	12,000
All renters	117,000
In public housing	8,000
In subsidized housing	8,000
Not in subsidized or public housing	98,000
Not reported	3,000

Source: U.S. Bureau of the Census, Survey of Income and Education, Spring 1976, unpublished tabulations.

Table 370.—VACANCY RATES FOR HOUSING UNITS SAMPLED FOR THE HAWAII HEALTH SURVEILLANCE PROGRAM SURVEY, BY COUNTIES: QUARTERLY, JULY 1976 TO MARCH 1978

Year and quarter	Percent of sampled units vacant ¹			
	Oahu	Hawaii County	Maui County	Kauai County
1976: Third	4.7	7.4	2.9	4.4
Fourth	5.4	8.4	2.3	6.1
1977: First	5.3	7.9	4.5	4.9
Second	5.9	7.7	7.1	1.7
Third	6.5	7.9	(S)	3.0
Fourth	6.5	4.5	1.0	2.0
1978: First	4.3	7.0	4.3	7.7

S Inadequate or defective sample.

¹ Units occupied by households temporarily absent were classified as occupied. The base excludes beach homes and units occupied by transients.

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

Table 371.—POSTAL VACANCY SURVEYS OF SELECTED AREAS: FEBRUARY 1976
[Sponsored by the Federal Housing Administration and conducted by U.S. mail carriers.]

Place	All possible deliveries	Vacant units				Units under construction
		Used and new		Used	New	
		Number	Percent			
Oahu	197,899	5,930	3.0	2,698	3,232	5,474
Honolulu	126,927	2,830	2.2	(NA)	(NA)	2,121
Rest of Oahu	70,972	3,100	4.4	(NA)	(NA)	3,353
Hawaii:						
Hilo	10,317	166	1.6	131	35	155
Kauai:						
Kapaa and Lihue	3,314	20	0.6	12	8	6
Maui:						
Kahului and Wailuku	6,789	180	2.7	43	137	62

NA Not available.

Source: U.S. Department of Housing and Urban Development, Federal Housing Administration, releases dated March 26, 1976, April 2, 1976, and May 28, 1976.

Table 372.—HOUSING VACANCY SURVEYS OF OAHU: 1977 AND 1978
[Sponsored by the Federal Home Loan Bank and conducted by U.S. mail carriers.]

Date of survey and type of unit	All deliveries ¹	Vacant ¹		New units and units under construction ²		
		Number	Percent	Total	New	Under construction
APRIL 1977 ³						
All deliveries	213,850	3,399	1.6	4,301	2,073	2,228
Single-family residences	113,937	488	0.4	564	155	409
Apartments	99,913	2,911	2.9	3,737	1,918	1,819
Mobile homes	—	—	...	—	—	—
MARCH 1978						
All deliveries	224,237	3,312	1.5	6,686	1,866	4,820
Single-family residences	117,767	709	0.6	2,063	452	1,611
Apartments	106,467	2,603	2.4	4,623	1,414	3,209
Mobile homes	3	—	0	—	—	—

¹ Excludes new units, completed but as yet unoccupied.

² As yet unoccupied.

³ Dated March 1977 in the initial report but April 1977 thereafter.

Source: Federal Home Loan Bank of Seattle, *Honolulu Housing Vacancy Survey, March 1977* and *Honolulu Housing Vacancy Survey, March 1978*.

**Table 373.—CHARACTERISTICS OF HOMES INSURED UNDER F.H.A.
SECTION 203: AVERAGE VALUES, 1966 TO 1975**

Characteristics	New homes			Existing homes		
	1966	1972	1975	1966	1972	1975
Property value (dollars)	27,533	46,609	48,633	27,595	41,611	(NA)
Market price of site (dollars)	11,259	18,026	17,609	12,437	16,924	(NA)
Percent of property value	40.9	38.7	35.9	45.1	40.7	(NA)
Improved living area (square feet)	1,091	1,211	1,082	1,046	1,041	(NA)
Lot size (square feet)	7,363	6,951	3,348	7,350	6,860	(NA)
Dollars per square foot:						
Sale price	23.08	35.83	37.85	22.30	38.88	(NA)
Site price	1.68	2.74	9.38	1.92	2.66	(NA)
Construction cost	16.13	23.89	27.19	...	...	...

NA Not available.

Source: U.S. Department of Housing and Urban Development, *FHA Homes. Data for States and Selected Areas* (annual).

Table 374.—HAWAII HOUSING AUTHORITY OPERATIONS: 1970 TO 1977

Year	Units managed by HHA ¹		Population in units ¹	Operating revenues of HHA ² (\$1,000)		Operating revenues per unit per mo. ² (dollars)	Total assets ¹ (\$1,000)	Average rent charged ² (dollars)
	Total	Occupied		Gross	Net			
1970	4,974	4,737	19,791	4,991	48	87.79	69,522	79.01
1971	4,917	4,683	18,806	6,238	54	111.00	75,003	67.61
1972	5,403	5,333	19,368	6,006	22	93.84	80,848	70.05
1973	5,406	5,361	19,078	6,175	19	95.98	82,060	73.26
1974	5,547	5,407	18,898	6,940	100	106.95	72,826	84.94
1975	5,442	5,419	18,175	7,186	422	106.85	81,169	67.88
1976	5,515	5,498	17,783	8,057	128	136.38	88,426	68.18
1977 ³	5,555	5,524	18,214	8,696	-767	103.36	80,843	97.05

¹ As of June 30.

² Year ended June 30.

³ Gross operating revenue includes Federal subsidies of \$1,843,000. Net loss reflects the utilization of operating reserves absorbing the excess of expenditures over receipts.

Source: Hawaii Housing Authority, records.

Table 375.—TALLEST STRUCTURES ON OAHU: MARCH 1978

Category and name of structure	Address	Year built	Height	
			Stories	Feet
Apartment houses:				
Regency Tower II	98-288 Kaonohi St.	1979	43	350
Discovery Bay	1778 Ala Moana	1976	42	350
Regency Tower	2525 Date St.	1974	42	350
Century Center	1750 Kalakaua Ave.	1978	41	350
Yacht Harbor Towers	1600 Ala Moana	1972	40	350
Contessa	2825 So. King St.	1971	37	348
Hotels:				
Ala Moana Hotel	410 Atkinson Drive	1970	38	390
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Pacific Beach Hotel	155 Liliuokalani Ave.	1979	43	350
Waikiki Ala Wai Waterfront	444 Niu St.	1979	43	350
Waikiki Lodge II	343 Hobron Lane	1979	43	350
Hyatt Regency Hotel	2424 Kalakaua Ave.	1976	39	350
Office buildings:				
Pacific Trade Center	1058 Alakea St.	1972	30	350
Grosvenor Center	735 Bishop St.	1979	30	330
Ala Moana Building	1441 Kapiolani Blvd.	1960	25	300
Aloha Tower	Pier 9, foot of Fort St.	1926	10	184
Towers:				
VLF Antenna ¹	Lualualei	1972	...	1,503
KGMB-TV	1534 Kapiolani Blvd.	c.1966	...	436
Other structures:				
Tripler Army Hospital	Moanalua	1948	14	189
Central Union Church	1660 So. Beretania St.	1924	...	160

¹ VLF Antenna of the Radio Transmitting Facility, Lualualei, of the Naval Communications Station, Honolulu. Two towers, each 1,503 feet, completed in August 1972.

Source: City and County of Honolulu, Building Department, records.

Table 376.—CHANGES IN THE NUMBER OF ELEVATORS: 1967 TO 1977

Year	Added	Removed	In operation, December 31
1967	140	14	1,145
1968	120	13	1,252
1969	170	19	1,403
1970	270	24	1,649
1971	210	19	1,840
1972	200	17	2,023
1973	175	58*	2,141
1974	190	7	2,324
1975	248	4	2,568
1976	202	2	2,768
1977	119	6	2,881

*Reflects deletion of 40 workmen's hoists (not used as elevators) from coverage.
Source follows next table.

Table 377.—ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1972 AND 1977

Facility	State totals		Geographic location: 1977						
	1972	1977	Oahu	Hawaii Co.		Maui Co.			Kauai Co.
				Hilo	Kona	Maui	Molokai	Lanai	
Total ¹	2,023	2,881	2,481	99	60	194	1	1	45
Elevators	1,676	2,440	2,089	75	58	177	—	1	40
Under 9 stories	938	1,341	1,041	66	58	143	—	1	32
Hydro	233	411	305	23	18	56	—	1	8
Roped	705	930	736	43	40	87	—	—	24
9 to 18 stories	525	723	677	9	—	29	—	—	8
19 to 28 stories	155	253	248	—	—	5	—	—	—
29 to 38 stories	58	99	99	—	—	—	—	—	—
39 stories or more	—	24	24	—	—	—	—	—	—
Escalators and moving walks	116	191	185	6	—	—	—	—	—
Inclined lifts	4	6	2	2	—	2	—	—	—
Man lifts	11	10	10	—	—	—	—	—	—
Dumbwaiters	174	232	194	16	2	14	1	—	5
Workmen's hoists ¹	40	3	3	—	—	—	—	—	—
Other facilities	2	2	1	—	—	1	—	—	—
Buildings with facilities ¹	(NA)	1,366	1,171	55	26	88	1	1	24

NA Not available.

¹ Workmen's hoists not included in totals.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health.

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning.

The number of manufacturing establishments in Hawaii increased from 618 in 1958 to 697 in 1967 and 773 in 1972. The value added by manufacture rose from \$165 million in 1958 to \$326 million in 1967, \$410 million in 1972, and \$700 million in 1976. About 72 percent of all manufacturing activity in the State was on Oahu in 1976. Food processing — mostly sugar and pineapple — accounted for more than half of the value added by manufacture in that year. Between 1966 and 1976, the general excise and use tax base increased 54 percent for sugar processing, dropped 10 percent for pineapple canning, and rose 101 percent for all other manufacturing. There were three pineapple canneries and 16 sugar mills in Hawaii in mid-1977. The production of canned pineapple fruit and juices in 1976-1977 dropped to 19 million actual cases, well below the levels of earlier years, but fresh pineapple sales rose sharply. Sugar production in 1977 amounted to 1.03 million short tons, about the same level as in other recent years. The value of production (including raw sugar and commercial molasses) was \$227 million, well below the record set in 1974 but still the fourth best year in Island history.

Sources for data on this subject include the United States Census of Manufactures, most recently published for 1972, the Annual Survey of Manufactures, and publications of the Hawaii State Department of Agriculture and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Statistics for the nation as a whole appear in Section 29 of the *Statistical Abstract of the United States: 1977*.

Table 378.—MANUFACTURING: 1966 TO 1976

Year	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)
	Number	Payroll (million dollars)	Number	Man-hours (millions)	Wages (million dollars)				
1966	24,800	123.8	18,700	34.3	78.2	310.8	371.5	680.9	24.1
1967	25,400	139.6	19,000	35.9	86.9	326.2	399.6	723.4	26.0
1968	23,200	134.0	17,400	32.2	83.3	353.9	381.9	737.1	15.6
1969	23,900	145.3	17,900	33.2	90.8	351.0	408.3	758.1	19.8
1970	24,800	168.7	18,100	35.3	102.8	408.6	451.1	856.9	40.5
1971	24,400	176.6	17,500	34.3	105.7	435.0	465.9	899.9	28.0
1972	24,800	191.1	17,700	33.1	113.7	410.0	548.3	955.6	46.7
1973	24,300	195.5	17,500	31.9	117.9	496.1	592.9	1,086.4	36.6
1974	22,500	210.4	15,800	28.8	116.6	913.8	952.9	1,848.2	50.2
1975	23,700	236.7	16,900	30.6	133.0	685.4	1,116.2	1,800.3	51.5
1976	24,200	266.4	17,100	30.8	153.9	700.3	1,156.8	1,854.8	55.6

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1976*, M76(AS)-6, p. 213.

Table 379.—MANUFACTURING, BY GEOGRAPHIC AREA: 1972

Standard metropolitan statistical area, county, and city	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
Hawaii, total	773	238	25.0	191.7	17.7	33.1	113.8	410.3	548.5	956.1	47.2
STANDARD METROPOLITAN STATISTICAL AREA											
Honolulu	612	193	19.6	148.9	13.9	25.4	85.9	321.2	412.4	731.8	33.1
COUNTIES											
Hawaii	85	24	2.5	20.4	1.7	3.4	12.8	49.8	51.9	101.4	10.7
Honolulu	612	193	19.6	148.9	13.9	25.4	85.9	321.2	412.4	731.8	33.1
Kauai	28	8	.8	5.8	.6	1.1	4.0	13.0	28.9	42.0	1.4
Maui	48	13	2.1	16.5	1.6	3.3	11.0	26.3	55.3	80.9	2.1
CITIES WITH 450 OR MORE EMPLOYEES											
Ewa Beach and Barbers Point	8	6	.5	5.4	.4	.7	3.8	15.9	30.8	46.4	11.9
Hilo	57	11	.9	6.9	.6	1.1	3.9	14.1	9.1	23.0	.6
Honolulu	534	169	17.1	126.6	12.2	22.3	72.6	261.1	282.5	542.5	16.8
Kahului	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Waipahu	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Source follows table 380.

Table 380.—MANUFACTURING, BY INDUSTRY GROUP AND INDUSTRY: 1972

Ind. code	Industry group and industry	Establishments		All employees		Production workers		Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)
		Total	With 20 employees or more	Number (1,000)	Payroll (million dollars)	Number	Man-hours (millions)			
	All manufacturing	773	238	25.0	191.7	17.7	33.1	410.3	548.5	956.1
20	Food and kindred products	209	70	11.9	87.8	8.8	17.0	215.4	308.3	513.0
201	Meat products	18	8	0.4	2.7	0.3	0.5	5.9	24.0	30.0
202	Dairy products	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)
203	Preserved fruits, vegetables ..	38	5	4.9	28.2	4.4	8.0	70.5	71.3	141.8
2033	Canned fruits, vegetables...	15	5	4.8	27.4	4.3	7.8	69.0	69.4	138.4
204	Grain mill products	8	6	0.2	1.7	0.1	0.2	5.6	20.9	26.5
205	Bakery products	18	8	0.7	6.3	0.4	0.8	11.4	7.8	19.3
206	Sugar, confectionery products	37	24	3.8	32.8	2.6	5.4	76.7	136.5	202.7
2061	Raw cane sugar	18	18	3.4	29.5	2.3	4.8	67.1	110.4	177.5
208	Beverages	21	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)
209	Misc. foods, kindred products.	56	6	0.7	4.5	0.5	1.1	9.4	13.3	22.7
23	Apparel, other textile products ..	120	55	3.3	15.4	2.9	5.2	29.6	17.4	46.4
24	Lumber and wood products	38	12	0.9	7.4	0.7	1.3	13.1	12.4	25.3
25	Furniture and fixtures	26	11	0.7	5.1	0.4	0.7	7.9	11.1	18.4
26	Paper and allied products	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	117	21	2.5	22.8	1.3	2.2	46.2	17.3	63.6
28	Chemicals and allied products ..	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)
29	Petroleum and coal products	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber, misc. plastics products .	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, glass products	42	13	1.1	12.3	0.8	1.6	31.8	24.7	56.5
33	Primary metal industries	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	33	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery, except electrical	28	3	0.4	3.4	0.3	0.5	4.8	3.6	7.7
37	Transportation equipment	6	2	0.2	2.1	0.2	0.3	2.7	2.5	5.2
39	Misc. manufacturing industries .	55	9	0.8	4.0	0.7	1.2	6.9	4.8	11.9
—	Administrative and auxiliary	22	14	0.9	11.9	—	—	—	—	—

(D) Withheld to avoid disclosing figures for individual companies.

Source of tables 379 and 380: U.S. Bureau of the Census, *Census of Manufactures, 1970, Hawaii*, MC72(3)-12.

Table 381.—MANUFACTURING, BY INDUSTRY GROUP AND ISLAND: 1974
[Revised]

Island and industry group	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
State total	22.5	210.4	15.8	28.8	116.6	913.8	952.9	1,848.2	50.2	167.2
Island:										
Oahu	16.5	156.0	11.4	20.9	83.6	420.6	763.3	1,160.9	30.7	140.1
Other islands	6.0	54.4	4.4	7.9	33.0	493.2	189.6	687.3	19.5	27.1
Industry group: ¹										
Food and kindred products	10.1	89.5	7.2	13.5	55.3	711.6	390.0	1,095.3	26.4	60.0
Canned fruits and vegetables .	3.0	194	2.7	4.6	15.1	87.2	50.9	138.1	(D)	27.6
Raw cane sugar	3.0	31.3	2.1	4.5	21.3	509.2	123.3	631.9	17.8	9.6
Apparel, other textile products .	3.0	17.3	2.8	4.9	11.2	23.8	21.5	44.7	1.1	7.9
Lumber and wood products	0.7	5.2	0.5	1.0	3.4	10.1	6.7	16.8	0.8	1.7
Furniture and fixtures	0.8	6.1	0.5	0.8	2.9	10.6	8.7	18.7	0.1	4.5
Printing and publishing	2.7	26.9	1.4	2.4	12.8	62.1	26.9	88.6	2.7	8.9
Stone, clay, glass products	1.5	22.4	1.2	2.7	15.2	49.9	54.7	103.5	3.0	14.4
Machinery, exc. electric	0.6	5.6	0.5	0.1	0.6	6.8	5.4	17.9	0.6	0.2
Miscellaneous mfg.	0.7	4.8	0.4	0.6	2.1	2.6	7.9	12.5	0.2	3.5

¹ Reported separately only for major groups, and hence does not add to indicated total or subtotal.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1975*, M75(AS)-6, pp. 225 and 236.

Table 382.—MANUFACTURING, BY INDUSTRY GROUP AND ISLAND: 1975

Island and industry group	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
State total	23.7	236.7	16.9	30.6	133.0	685.4	1,116.2	1,800.3	51.5	176.2
Island:										
Oahu	16.9	174.0	11.7	20.4	89.8	401.6	915.5	1,317.0	25.3	144.4
Other islands	6.8	62.7	5.2	10.2	43.2	283.8	200.7	483.3	26.2	31.8
Industry group: ¹										
Food and kindred products ²	11.6	104.3	8.7	15.3	66.4	442.3	399.3	843.3	31.8	66.1
Canned fruits, vegetables ³	3.5	20.3	3.1	4.8	16.1	89.4	62.4	151.8	(D)	31.1
Raw cane sugar	3.4	42.4	2.5	5.5	29.6	252.3	125.2	377.5	24.7	12.2
Apparel, other textile products ..	3.1	18.4	2.8	5.3	11.7	25.5	24.6	50.8	0.4	7.6
Lumber and wood products	0.7	5.5	0.5	0.9	3.9	10.8	7.4	18.6	2.2	1.6
Furniture and fixtures	0.7	6.2	0.5	0.7	2.8	16.5	5.3	21.2	0.1	4.8
Printing and publishing	2.7	31.0	1.3	2.3	14.1	79.6	35.9	115.5	2.1	5.4
Leather, leather products	0.1	0.4	0.1	0.1	0.3	0.7	0.6	1.3	—	0.2
Stone, clay, glass products	1.6	24.5	1.1	2.3	14.5	49.7	76.9	127.7	2.7	12.4
Miscellaneous mfg.	0.7	5.4	0.4	0.7	2.6	7.3	8.8	16.7	0.2	3.3

(D) Withheld to avoid disclosing data for individual companies.

¹ Reported separately only for major groups, and hence does not add to indicated totals.

² Total value of shipments includes extensive duplication arising from shipments between establishments in the same industry classification.

³ Establishments in this industry reported value of production instead of value of shipments. Consequently, the formula for computing value added by manufacture was modified to exclude any change in finished products inventories between the beginning and end of the year.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1976*, M76(AS)-6, pp. 217 and 227.

Table 383.—MANUFACTURING, BY INDUSTRY GROUP AND ISLAND: 1976

Island and industry group	All employees		Production workers			Value added by manufac-ture (million dollars)	Cost of materials (million dollars)	Value of industry ship-ments (million dollars)	Capital expendi-tures, new (million dollars)	End-of-year inven-tories (million dollars)
	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (mil-lions)	Wages (million dollars)					
State total	24.2	266.4	17.1	30.8	153.9	700.3	1,156.8	1,854.8	55.6	193.7
Island:										
Oahu	17.5	195.4	12.1	20.6	107.0	503.2	962.7	1,465.0	29.5	162.1
Other islands	6.7	71.0	5.0	10.2	46.9	197.1	194.1	389.8	26.1	31.6
Industry group: ¹										
Food and kindred products ²	11.4	114.5	8.4	14.9	72.6	357.9	403.7	761.3	31.7	65.3
Canned fruits, vegetables ³	3.3	22.4	2.9	4.4	17.8	96.3	63.9	160.2	(D)	30.1
Raw cane sugar	3.5	45.3	2.6	5.6	31.9	135.0	124.5	259.7	23.2	10.1
Apparel, other textile products ..	3.1	19.7	2.7	5.0	10.9	24.5	25.7	52.2	1.1	4.4
Lumber and wood products	0.8	6.6	0.7	1.0	5.2	12.7	8.5	20.3	0.6	2.5
Furniture and fixtures	0.7	5.6	0.4	0.7	2.5	14.3	5.9	19.6	0.0	4.8
Printing and publishing	2.8	35.5	1.4	2.5	16.8	92.9	41.8	133.6	2.4	7.7
Leather, leather products	0.1	0.4	0.1	0.1	0.3	0.7	0.6	1.3	—	0.2
Stone, clay, glass products	1.3	19.2	0.8	1.7	11.5	39.5	48.8	89.9	4.3	12.4
Miscellaneous mfg.	0.6	5.2	0.4	0.7	2.4	6.6	7.9	15.1	1.2	2.5

(D) Withheld to avoid disclosing figures for individual companies.

¹ Reported separately only for major groups, and hence detail does not add to indicated totals.

² The total value of shipments and cost of materials include extensive duplication arising from shipments between establishments in the same industry classification.

³ Establishments in this category reported value of production instead of value of shipments.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1976*, M76(AS)-6, pp. 216 and 226.

**Table 384.—MANUFACTURING LABOR COSTS, CAPITAL EXPENDITURES,
ASSETS, AND RENTAL PAYMENTS: 1975 AND 1976**

[In millions of dollars.]

Item	1975	1976
Labor costs, total	272.1	308.0
Payroll	236.7	266.4
Social security and other required payments	16.8	20.1
Employer payments for other programs	18.5	21.5
Expenditures for new plant and equipment, total	51.5	55.6
New structures and additions to plant	12.8	15.0
New machinery and equipment	38.7	40.6
Gross book value of depreciable assets, end of year, total	673.7	709.0
Structures and building	227.4	243.6
Machinery and equipment	446.2	465.3
Rental payments, total	15.3	17.5
Structures and building	9.0	11.0
Machinery and equipment	6.3	6.5

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1976*, M76(AS)-6, p. 228.

**Table 385.—PINEAPPLE CANNERIES AND SUGAR MILLS:
1967 TO 1977**

Year	Pineapple canneries ¹	Sugar ²	
		Companies	Mills
1967.....	6	25	26
1968.....	6	25	26
1969.....	6	24	26
1970.....	4	23	26
1971.....	4	23	26
1972.....	4	21	23
1973.....	4	19	21
1974.....	3	17	20
1975.....	3	16	17
1976.....	3	15	17
1977.....	3	15	16
ISLANDS: 1977			
Hawaii.....	—	5	6
Maui.....	1	3	4
Oahu.....	2	2	2
Kauai.....	—	5	4

¹Variable dates, usually after the end of the canning season.

²As of December 31.

Source: The Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

**Table 386.—GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING,
AND MANUFACTURING: 1966 TO 1976**

[In thousands of dollars. Series discontinued in January 1977 and resumed early in 1978.]

Year reported ¹	Total	Sugar processing	Pineapple canning	Manu- facturing ²
1966.....	490,119	178,909	105,747	205,463
1967.....	521,122	171,155	131,695	218,272
1968.....	533,288	184,663	114,554	234,071
1969.....	592,692	196,744	116,466	279,482
1970.....	575,222	175,337	114,634	285,251
1971.....	599,686	190,209	124,548	284,929
1972.....	638,059	205,962	124,265	307,833
1973.....	692,715	213,095	123,597	356,023
1974.....	934,613	454,660	103,686	376,268
1975.....	1,166,923	605,521	131,655	429,748
1976.....	783,751	275,078	95,488	413,186

NA Not available.

¹ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

² Excludes sugar processing and pineapple canning.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 387.—HAWAIIAN PINEAPPLE PRODUCTION: 1967 TO 1977
 [Hawaiian pack only; excludes overseas production by Hawaiian companies.]

Pack year ended May 31	Canned fruit		Canned juice		Frozen concentrate	
	1,000 actual cases	1,000 standard cases ¹	1,000 actual cases	1,000 standard cases ²	1,000 equivalent 6/10 cases	1,000 standard cases ²
1966-1967	19,005	13,168	11,323	8,800	1,062	972
1967-1968	17,002	11,994	10,794	8,400	643	588
1968-1969	17,728	12,116	10,930	8,600	692	633
1969-1970	16,971	11,596	11,814	9,000	731	669
1970-1971	17,718	12,028	10,590	8,100	1,016	929
1971-1972	17,961	12,537	11,004	8,400	789	722
1972-1973	15,891	11,108	9,282	7,400	633	580
1973-1974	14,042	9,550	8,470	6,600	886	810
1974-1975	11,584	8,110	5,643	4,400	438	400
1975-1976	12,142	8,200	6,173	4,800	471	520
1976-1977	12,160	8,270	7,295	5,600	346	320

¹24 #2½ can, 45-lb. cases.

²24 #2½ can, 42½-lb. cases.

Source: The Pineapple Growers Association of Hawaii, *Pineapple Fact Book/Hawaii 1973* (January 1973), p. 18, and records; Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual), and records.

**Table 388.—EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY:
 1970 TO 1976**

[Includes field and cannery employment and earnings.]

Year	Full-time equivalent employment	Total wages and salaries (dollars)	Earnings per full-time equiv- alent employee (dollars)
1970	7,779	52,580,858	6,759
1971	7,403	51,194,731	6,915
1972	7,110	48,376,978	6,804
1973	5,759	42,613,741	7,400
1974	4,894	37,764,230	7,716
1975	4,915	42,137,633	8,573
1976	4,657	44,918,405	9,645

Source: Hawaii Employers Council, unpublished estimates.

Table 389.—SUGAR PRODUCTION: 1967 TO 1977

Year	Cane land (acres)		Cane used for sugar (short tons)		Sugar produced (short tons)		Average New York raw sugar price cwt. (dollars)	Average daily earnings of workers (dollars) ¹	Field worker man-hours per ton (raw value)	Molasses production (short tons)
	Total area	Harvested area	Total	Per acre	Converted to 96° raw value	Equivalent refined				
1967.....	239,813	111,837	11,045,949	98.74	1,191,042	1,113,148	7.28	21.35	10.64	359,170
1968.....	242,476	113,525	11,279,920	99.36	1,232,182	1,151,597	7.52	21.62	9.98	368,050
1969.....	242,216	113,232	10,839,272	95.73	1,182,414	1,105,060	7.75	23.26	9.44	340,330
1970.....	238,997	113,816	10,457,377	91.88	1,162,071	1,086,000	8.08	24.24	9.50	322,480
1971.....	232,278	115,810	10,685,019	92.26	1,229,976	1,149,510	8.52	26.08	9.04	330,227
1972.....	229,611	108,456	9,929,068	91.55	1,118,883	1,045,708	9.10	29.09	9.22	307,543
1973.....	226,580	108,189	9,645,452	89.15	1,128,529	1,054,723	10.30	30.86	9.20	301,500
1974.....	224,227	95,826	9,082,684	94.76	1,040,742	972,677	29.43	34.41	9.32	293,380
1975.....	221,426	105,125	9,485,299	90.23	1,107,199	1,034,788	22.49	37.34	(NA)	301,335
1976.....	221,551	99,926	9,172,649	91.79	1,050,457	981,757	13.31	43.12	(NA)	275,352
1977.....	220,729	96,770	8,994,388	92.95	1,033,739	966,132	11.11	43.92	(NA)	284,349

NA Not available.

¹ Cash wage only, excluding the value of employees benefits (\$19.97 per day in 1977).

Source: Hawaii Sugar Planter's Association, *HSPA Sugar Manual 1978*, pp. 8-11.

Table 390.—VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1967 TO 1977

Year	Pineapple (\$1,000,000)		Sugar (\$1,000)		
	Canned fruit and juices ¹	Fresh market sales ²	Value of production ³		Government payments
			Raw sugar 96°	Commercial molasses	
1967.....	130.5	2.8	172,421	7,945	10,570
1968.....	125.0	2.5	182,455	6,621	10,861
1969.....	123.0	2.4	171,498	7,501	10,463
1970.....	135.0	3.6	180,680	7,061	10,261
1971.....	137.7	3.7	196,253	6,669	10,722
1972.....	140.5	4.9	176,550	8,052	9,667
1973.....	135.0	7.4	203,788	18,370	9,510
1974.....	118.2	8.9	659,227	17,390	8,646
1975.....	126.6	10.1	354,600	11,500	—
1976.....	130.0	14.5	245,500	11,500	—
1977.....	140.0	21.6	219,100	7,700	48,700

¹ Value of canned fruit and juices and by products shipped out-of-State and sold within State, as estimated by Bank of Hawaii.

² Value FAS shipping point for outshipments, delivered wholesalers local sales.

³ Beginning with 1972, point of delivery changed from refinery to mill.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services.

These activities have undergone rapid growth in recent decades. Retail sales increased from \$522 million in 1958 to \$1,083 million in 1967 and \$1,865 million in 1972. Wholesale sales rose from \$618 million to \$1.54 billion in the same 14-year period. Hotels, amusements, and other services reported receipts of \$683 million in 1972, compared with \$295 million in 1967 and only \$101 million in 1958. General excise and use tax base data for more recent years indicate continued increases; between 1972 and 1976, the retailing tax base rose 68 percent, the wholesaling base by 69 percent, and the base for services by 71 percent. Major retail concentrations included Ala Moana Center (\$219 million in sales in 1972), Waikiki (\$169 million), and downtown Honolulu (\$65 million). The 19 department stores on Oahu reported sales of \$347 million in 1977, double their 1970 volume. The wholesale value of liquor and tobacco sold in 1977 exceeded \$112 million. In addition to civilian retail outlets, there are 79 commissaries, exchanges, clubs, and food services maintained by the armed forces; these facilities had sales of \$231 million in 1977.

Growth has been especially rapid for hotels. The number of units in the State rose from 5,500 in 1958 to 21,200 in 1968 and 47,000 in February 1978. There were 353 hotels, motels and apartment-hotels in the State on the latter date, including 214 on the Neighbor Islands. Occupancy rates averaged 81.2 percent in Waikiki and 71.7 percent on the Neighbor Islands during 1977. The average daily room rate was \$34.28 in 1977. The hotel payroll in 1976 totaled \$155 million, compared with \$35 million ten years earlier.

The major source for these data is the United States Census of Business, most recently published for 1972. Statistics on the retailing, wholesaling, and services tax bases are available through 1976 from the Hawaii State Department of Taxation; these series were discontinued in January 1977 and resumed early in 1978. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Harris, Kerr, Forster and Company. The *Statistical Abstract of the United States: 1977*, Section 30, presents similar data for other states and the nation as a whole.

Table 391.—RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1958 TO 1972
 [Data are only approximately comparable from year to year]

Year	Retail trade		Wholesale trade		Selected services ¹	
	Estab- lishments	Sales (\$1,000)	Estab- lishments	Sales (\$1,000)	Estab- lishments	Receipts (\$1,000)
ALL ESTABLISHMENTS						
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	310,290
1972.....	6,392	1,864,985	1,336	1,538,429	6,348	683,201
ESTABLISHMENTS WITH PAYROLL						
1958.....	3,130	491,231	793	618,155	1,436	92,430
1963.....	3,354	725,977	974	735,205	1,837	153,272
1967.....	3,537	1,041,540	1,030	1,013,813	1,947	294,018
1972.....	4,491	1,819,883	1,336	1,538,429	3,031	648,164

¹ Includes hotels; personal services; miscellaneous business services; automobile repair, services, and garages; miscellaneous repair services; and motion pictures and other amusement and recreation services. Data for 1967 have been revised.

Source: U.S. Bureau of the Census, *U.S. Census of Business: 1958*, Bulletins BC58-RA52, BC58-SA52, and BC58-WA52; *U.S. Census of Business: 1967*, Bulletins BC67-RA13, BC67-SA13, and BC67-WA13; *U.S. Census of Business: 1972*, Reports RC72-A-12, WC72-A-12, and SC72-A-12.

**Table 392.—GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES:
 1966 TO 1976**

[In thousands of dollars. Series discontinued in January 1977 and resumed in 1978.]

Year reported ¹	Retailing	Services ²	Theater, amuse- ment, broadcast- ing, etc.	Whole- saling
1966.....	1,184,736	276,833	29,425	547,031
1967.....	1,271,932	305,691	30,924	570,678
1968.....	1,423,835	358,852	36,203	651,512
1969.....	1,670,288	451,814	39,220	747,204
1970.....	1,895,089	504,191	43,588	854,660
1971.....	2,030,170	523,824	48,503	918,425
1972.....	2,213,704	578,260	53,108	1,002,214
1973.....	2,560,799	697,419	60,079	1,220,818
1974 ³	2,959,201	783,771	66,557	1,374,819
1975 ⁴	3,382,804	919,912	74,561	1,527,057
1976.....	3,724,487	978,091	82,134	1,721,874

¹ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

² Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

³ Wholesaling figure revised.

⁴ Retailing figure revised.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 393.—RETAIL TRADE, BY KIND OF BUSINESS AND GEOGRAPHIC AREA: 1972

Geographic area and kind of business	All establishments		Establishments with payroll				
	Number	Sales (\$1,000)	Number	Sales (\$1,000)	Payroll (\$1,000)		Paid employees, mid-March
					Entire year	First quarter	
Retail trade, total	6,392	1,864,985	4,491	1,819,883	270,112	63,935	59,887
GEOGRAPHIC AREA							
City and Co. of Honolulu	4,733	1,508,305	3,303	1,475,981	233,910	52,900	49,150
Honolulu	3,487	1,160,092	2,547	1,136,921	179,533	42,563	39,002
Kailua	186	57,128	128	55,924	7,441	1,822	1,739
Kaneohe	146	47,760	89	46,853	5,847	1,557	1,282
Pearl City	103	34,531	47	33,596	4,023	925	965
Wahiawa	141	29,724	88	28,459	4,226	1,023	970
Waipahu	163	87,160	118	86,186	10,505	2,503	2,205
Remainder of county	507	91,910	286	88,042	12,335	2,507	2,987
Hawaii County	763	167,199	540	161,508	22,253	5,298	4,957
Hilo	396	118,378	304	116,012	16,316	3,784	3,476
Remainder of county	367	48,821	236	45,496	5,937	1,514	1,481
Kauai County	362	73,458	254	70,038	9,243	2,290	2,183
Lihue	110	36,577	88	35,884	5,265	1,221	1,040
Remainder of county	252	36,881	166	34,154	3,978	1,069	1,143
Maui County	534	116,023	394	112,356	14,706	3,447	3,597
Maui	479	108,333	359	104,813	13,677	3,199	3,334
Kahului	80	37,897	67	37,767	4,291	994	970
Lahaina	143	25,704	117	25,038	4,001	922	999
Wailuku	128	28,257	94	27,319	3,494	829	804
Remainder of island	128	16,475	81	14,689	1,891	454	561
Molokai	39	5,826	26	5,597	797	188	191
Lanai	13	1,669	8	(D)	(D)	(D)	(D)
Island not reported	3	195	1	(D)	(D)	(D)	(D)
KIND OF BUSINESS							
Bldg. mat., hardware, garden	126	34,572	81	33,692	5,199	1,331	756
General merchandise stores	261	334,702	194	332,101	47,524	10,358	9,977
Food stores	774	414,771	569	404,552	38,625	9,421	7,817
Automotive dealers	246	269,794	192	268,298	30,545	7,324	3,602
Gasoline service stations	480	106,688	427	104,217	13,729	3,269	4,086
Apparel and accessory stores	579	107,766	504	105,667	16,814	3,867	3,765
Furniture, home furnishings	409	83,545	290	80,315	12,113	2,810	1,937
Eating and drinking places	1,418	261,375	1,255	258,337	74,450	17,956	21,634
Drug and proprietary stores	107	90,117	96	89,491	8,982	2,296	1,641
Miscellaneous retail stores	1,992	161,655	883	143,213	22,131	5,303	4,672

D Withheld to avoid disclosure.

Source: U.S. Bureau of the Census, *Census of Retail Trade, 1972, Hawaii*, RC72-A-12, and special tabulation of data by island for Maui County.

Table 394.—MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS: 1972
 [Excludes establishments without payroll.]

Merchandise line	Number of establishments			Sales of specified merchandise line (\$1,000)		
	State total ¹	Oahu	Other islands	State total ¹	Oahu	Other islands
All lines, total ¹	4,491	3,303	1,188	1,832,909	1,486,986	343,988
Groceries and other foods	858	562	294	362,374	277,935	84,845
Meals and snacks	1,278	956	318	210,659	176,235	34,927
Alcoholic drinks	565	420	145	53,361	44,770	8,591
Packaged alcoholic beverages	412	251	163	39,022	30,027	8,992
Cigars, cigarettes and tobacco	590	359	227	17,161	14,315	3,482
Drugs and other health aids	362	210	150	53,439	44,761	8,682
Toiletries	449	266	182	17,419	13,456	3,962
Men's, boys' clothing, exc. footwear	496	305	190	69,018	57,899	11,118
Women's, girls' clothing, exc. footwear	635	409	225	110,934	94,409	16,521
Footwear exc. infants' and toddlers	344	205	137	29,787	25,774	4,014
Curtains, draperies, and dry goods	327	187	137	42,209	35,464	6,746
Major household appliances	179	105	72	31,361	22,493	8,655
Radios, TV's, musical instruments	284	167	113	38,088	32,462	5,624
Furniture and sleep equipment	188	133	55	33,160	27,471	5,685
Floor coverings	147	102	44	11,821	9,328	2,494
Kitchenware and home furnishings	438	288	148	32,763	28,460	4,302
Jewelry and optical goods	542	382	157	50,991	44,429	6,564
Sporting and recreational equipment	194	119	71	30,122	26,510	3,608
Hardware and electrical supplies	204	106	96	14,346	11,356	2,987
Lawn and garden supplies	269	177	90	19,659	16,320	3,310
Lumber and building materials	125	74	48	30,788	23,192	7,557
Automobile and trucks	117	86	30	194,360	154,921	39,437
Auto fuels and lubricants	543	378	165	91,333	72,359	18,943
Auto tires, batteries, accessories	562	388	177	58,045	44,940	13,099
Household fuels and ice	21	11	9	13,278	10,056	221
All other merchandise	976	664	307	93,655	77,775	15,871
Nonmerchandise receipts	1,958	1,416	549	83,731	69,869	13,742
Miscellaneous merchandise	(X)	—	(X)	25	—	9

X Not applicable.

¹Because of rounding, detail may not add exactly to indicated totals.

Source: U.S. Bureau of the Census, *Census of Retail Trade: 1972, Retail Merchandise Lines, Hawaii* (unpublished tabulation filed in Hawaii Department of Planning and Economic Development Library).

**Table 395.—DEPARTMENT STORES, FOR OAHU:
1970 TO 1977**
[Data beginning April 1977 not comparable to earlier figures.]

Year	Number of stores, December	Annual sales, (\$1,000)
1970 .....	...	172,644
1971 ¹	19	223,361
1972	22	248,986
1973	22	281,790
1974	23	304,721
1975	23	328,992
1976	24	349,612
1977 ²	19	347,255

¹ Number of stores as of February 1972.

² Data for April 1977 and succeeding months based on a new sample design, the 1972 SIC code, a revised definition of "sales" (to exclude sales taxes and finance charges, previously included), and other changes, and hence not comparable to data prior to April 1977.

Source: U.S. Bureau of the Census, *Current Business Reports: Monthly Retail Trade, Sales and Accounts Receivable* (1970-1977) and *Monthly Department Store Sales in Selected Areas* (1977), and records.

Table 396.—SHOPPING CENTERS: 1970 TO 1977

Year (Dec. 31)	Number of stores			Gross leasable area (1,000 square feet)		
	State total	Oahu	Other islands	State total	Oahu	Other islands
1970	938	739	199	4,742	3,999	743
1971	970	743	227	4,987	4,201	786
1972	1,212	931	281	5,789	4,837	953
1973	1,622	1,166	456	6,710	5,243	1,467
1974	1,786	1,284	502	7,640	6,115	1,525
1975	2,033	1,446	587	8,287	6,620	1,667
1976	2,132	1,467	665	8,424	6,711	1,713
1977	2,238	1,573	665	8,805	7,092	1,713

Source: Bank of Hawaii, *Hawaii 78* (August 1978), p. 30.

Table 397.—MAJOR RETAIL CENTERS ON OAHU: 1972

Center ¹	Number of retail stores	Retail sales (\$1,000)	Payroll, entire year (\$1,000)	Paid employees, March 12
Oahu, total	4,235	1,489,602	221,329	48,605
Honolulu, total	3,215	1,144,892	177,097	38,482
Honolulu central business district	353	65,471	12,254	2,771
Ala Moana Center	224	218,844	39,137	7,738
Waikiki	597	169,084	26,804	6,420
Kahala Mall	60	41,625	5,284	1,374
Dillingham Blvd.	14	20,094	2,530	678
Kailua Shopping Center	105	44,641	6,120	1,427
Waipahu and Westgate Shopping Centers	42	33,768	4,125	1,040
Pearlridge Shopping Center	32	18,606	2,880	476

¹For boundaries, see source.

Source: U.S. Bureau of the Census, *Census of Retail Trade, 1972*, RC72-C-12 (1974).

Table 398.—CHARACTERISTICS OF SELECTED SHOPPING CENTERS: 1976

Island and name of center	Location	Year opened	Site area (acres)	Building area (1,000 square feet)	Parking spaces	Number of stores
Oahu: ¹						
Ala Moana Center	Honolulu	1959	50	1,380	7,500	155
Kahala Mall	Honolulu	1954	20	417	1,500	60
Koko Marina S.C.	Honolulu	1963	15	256	859	84
Pearl City S.C.	Pearl City	1965	15	244	900	36
Pearlridge Center	Aiea	1972	59	1,200	4,950	140
Hawaii: ²						
Hilo Mall S.C.	Hilo	1970	14	220	950	33
Maui: ²						
Kaahumanu Center	Kahului	1973	25	230	1,400	50
Kahului S.C.	Kahului	1951	25	104	1,000	32
Maui Mall	Kahului	1971	25	172	1,400	40
Kauai: ²						
Lihue S.C.	Lihue	1966	9	142	551	24

¹Includes centers with more than 200,000 square feet of building area.

²Includes centers with more than 100,000 square feet of building area.

Source: Chamber of Commerce of Hawaii, *Shopping Centers in Hawaii* (May 1976).

Table 399.—CHARACTERISTICS OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES: 1977

Type of facility and branch of service	Number of establishments, Dec. 31	Annual sales (dollars)	Civilian employees, Dec. 31
All reported facilities	79	230,601,437	4,494
Commissaries	8	66,550,030	452
Air Force ¹	1	19,048,954	121
Army ²	1	16,933,183	138
Marine Corps ³	1	7,178,141	51
Navy ⁴	5	23,389,752	142
Exchanges	21	133,877,669	2,440
Air Force and Army ⁵	12	56,094,661	989
Coast Guard ⁶	4	1,136,399	25
Marine Corps ³	1	18,790,907	269
Navy ⁷	4	57,855,702	1,157
Clubs	35	23,347,198	1,358
Air Force ¹	3	6,264,675	557
Army ²	16	8,417,310	346
Coast Guard ⁶	1	133,192	7
Marine Corps ³	11	4,335,333	216
Navy ⁷	4	4,196,688	232
Food service	15	6,826,540	244
Marine Corps ³	12	2,102,950	83
Navy ⁷	3	4,723,590	161

¹ 15th Air Base Wing (PACAF). Employment data refer to 1976.

² Hdq., U.S. Army Support Command, Hawaii.

³ Hdq., Marine Corps Bases, Pacific, Camp H.M. Smith. The exchange has 56 separate outlets.

⁴ Hdq., U.S. Naval Base, Pearl Harbor. Commissary data include Region Office and Midway.

⁵ Hdq., Army and Air Force Exchange Service, Pacific.

⁶ U.S. Coast Guard Base, Honolulu.

⁷ Naval Air Station, Barbers Point, and Hdq., U.S. Naval Base, Pearl Harbor.

Source: Data supplied to DPED by agencies listed in footnotes.

**Table 400.—WHOLESALE TRADE, BY TYPE OF OPERATION, KIND OF BUSINESS,
AND GEOGRAPHIC AREA: 1972**

Geographic area, type of operation, and kind of business	Number of estab- lishments	Sales (\$1,000)	Inventories, end of year (\$1,000)	Operating expenses (\$1,000)		Paid employees, week including March 12
				Total	Payroll	
Wholesale trade, total	1,336	1,538,429	169,425	220,877	122,302	14,518
GEOGRAPHIC AREA						
City and County of Honolulu	1,071	1,318,371	145,732	(NA)	105,742	12,117
City of Honolulu	991	1,262,298	138,923	(NA)	101,991	11,683
Rest of Oahu	80	56,073	6,809	(NA)	3,751	434
Hawaii County	138	129,677	15,441	(NA)	11,061	1,537
Kauai County	40	30,254	2,847	(NA)	1,965	316
Maui County	87	60,127	5,405	(NA)	3,534	548
Lanai	1	(D)	(D)	(NA)	(D)	(D)
Maui	82	(D)	(D)	(NA)	(D)	(D)
Molokai	4	(D)	(D)	(NA)	(D)	(D)
TYPE OF OPERATION						
Merchant wholesalers	1,067	1,001,772	138,582	176,237	95,660	12,025
Manufacturers' sales branches	143	417,674	28,096	35,341	22,362	1,914
Merchandise agents and brokers	126	118,983	2,747	9,299	4,280	579
KIND OF BUSINESS						
Durable goods	679	594,150	90,699	118,167	69,210	7,805
Motor vehicles, parts, supplies	89	96,427	13,602	21,523	12,357	1,506
Furniture, home furnishings	45	29,964	4,146	5,195	2,688	301
Lumber, other const. materials	85	116,389	18,727	23,053	12,808	1,676
Sporting, recreational goods	42	(D)	(D)	(D)	(D)	(D)
Metals, minerals, exc. petroleum	12	24,438	1,988	3,219	1,526	128
Electrical goods	85	97,149	12,877	12,685	8,120	837
Hardware, plumbing, heating	52	42,089	9,195	8,707	4,264	514
Machinery, equipment	202	121,736	21,661	30,758	19,831	2,006
Miscellaneous durable goods	67	(D)	(D)	(D)	(D)	(D)
Nondurable goods	657	944,279	78,726	102,710	53,092	6,713
Paper and paper products	42	33,578	5,101	7,654	4,684	535
Drugs, drug proprietaries	36	(D)	(D)	(D)	(D)	(D)
Apparel, piece goods	52	(D)	(D)	(D)	(D)	(D)
Groceries	265	388,655	23,996	44,171	21,650	2,929
Farm product raw materials	5	(D)	(D)	(D)	(D)	(D)
Chemicals	21	(D)	(D)	(D)	(D)	(D)
Petroleum	42	224,070	10,683	(NA)	3,058	290
Beer, wine, alcoholic beverages	26	65,201	7,979	8,009	3,579	393
Miscellaneous nondurable goods	168	89,223	9,987	17,208	8,866	1,219

D Withheld to avoid disclosure.

NA Not available.

Source: U.S. Bureau of the Census, *Census of Wholesale Trade: 1972, Area Series, Hawaii*, WC72-A-12, tables 1 and 4, and special tabulation of data by island for Maui County.

Table 401.—SELECTED SERVICES, BY KIND OF BUSINESS AND GEOGRAPHIC AREA: 1972

Geographic area and kind of business	All establishments		Establishments with payroll			
	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)	Payroll (\$1,000)	Paid employees, March
Selected services, total.....	6,348	683,201	3,031	648,164	216,310	39,743
GEOGRAPHIC AREA						
City and County of Honolulu.....	5,023	543,334	2,443	515,326	175,070	31,470
City of Honolulu.....	3,975	485,768	2,064	463,278	157,337	27,224
Rest of Oahu.....	1,048	57,566	379	52,048	17,733	4,246
Hawaii County.....	651	63,812	271	60,074	19,664	3,847
Kauai County.....	252	25,855	123	24,661	7,882	1,643
Maui County.....	422	50,200	194	48,103	13,694	2,783
Lanai.....	6	97	1	(D)	(D)	(D)
Maui.....	378	49,214	183	47,327	13,485	2,706
Molokai.....	34	808	8	656	179	62
Island not reported.....	4	81	2	(D)	(D)	(D)
KIND OF BUSINESS						
Hotels, motels, camps.....	224	241,832	192	241,279	75,945	15,324
Hotels.....	187	230,972	168	230,620	72,677	14,479
Motels.....	33	10,634	22	10,659	3,268	845
Camps and trailer parks.....	4	226	2			
Personal services.....	1,675	53,390	745	46,490	18,623	4,730
Laundry, cleaning.....	227	21,950	145	20,696	8,568	2,142
Beauty and barber shops.....	897	18,572	474	15,692	7,072	1,592
Funeral service, crematories.....	24	3,764	21	3,728	869	158
Other personal services.....	527	9,104	105	6,374	2,114	838
Business services.....	1,763	120,075	658	109,609	40,206	7,444
Advertising.....	101	24,170	41	23,457	3,299	338
Services to dwellings, bldgs.....	305	18,741	158	17,821	8,973	2,183
Other business services.....	1,357	77,164	459	68,331	27,934	4,923
Automotive repair, services.....	633	77,671	390	74,251	18,341	2,986
Automotive repair shops.....	461	31,526	249	28,485	9,083	1,317
Automotive rental, parking, wash.....	172	46,145	141	45,766	9,258	1,669
Miscellaneous repair services.....	439	20,244	180	17,239	5,776	829
Amusement, recreation services.....	849	71,556	407	66,940	22,583	5,244
Motion picture theaters.....	66	12,152	59	11,982	2,305	762
Other amusement, recreation.....	783	59,404	348	54,958	20,278	4,482
Dental laboratories.....	33	2,309	22	2,150	1,115	160
Legal services.....	333	35,149	218	33,180	8,093	885
Architect., engineer., land-survey.....	399	60,955	219	57,026	25,628	2,141

D Withheld to avoid disclosure.

Source: U.S. Bureau of the Census, *Census of Selected Service Industries: 1972, Area Series, Hawaii*, SC72-A-12, tables 1 and 5, and special tabulation of data by island for Maui County.

**Table 402.—HOTEL UNITS, OCCUPANCY RATES, EMPLOYMENT, AND PAYROLL:
1967 TO 1978**

Year	Number of hotel units ¹			Percent occupied ²		Hotel employment ³	Payroll ⁴ (\$1,000)
	State total	Oahu	Neighbor islands	Waikiki	Neighbor islands		
1967.....	18,235	13,004	5,231	90.0	72.8	8,944	34,927
1968.....	21,243	15,138	6,105	89.2	75.2	10,783	46,730
1969.....	25,822	18,209	7,613	81.3	69.3	12,546	58,212
1970.....	30,323	21,217	9,106	74.1	64.8	13,613	66,924
1971.....	35,349	24,612	10,737	58.9	63.5	15,550	78,222
1972.....	35,653	24,441	11,212	70.0	66.4	17,619	93,915
1973.....	37,319	24,969	12,350	81.5	70.2	18,857	107,525
1974.....	39,558	25,352	14,206	82.0	69.4	19,139	115,599
1975.....	40,691	25,699	14,992	78.3	68.3	19,885	128,659
1976.....	44,093	27,099	16,994	82.6	68.4	21,130	155,123
1977.....	46,048	28,083	17,965	81.2	71.7	22,313	175,602
1978.....	48,790	29,294	19,496	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹December, 1967; November, 1968; October, 1969 and later years.

²Annual averages.

³Annual averages, for workers covered by the Hawaii Employment Security Law.

⁴Wage and salary payments to workers covered by the Hawaii Employment Security Law.

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

**Table 403.—HOTELS AND OTHER ACCOMMODATIONS, BY GEOGRAPHIC
AREAS: 1970 AND 1978**

Geographic area	February 1970		June 1978		
	Visitor plants ¹	Units	Visitor plants ¹	Units	
				Total	Condo ²
State total.....	275	26,923	362	48,034	7,178
Oahu.....	152	18,449	143	29,193	1,520
Waikiki ³	124	16,590	113	25,471	...
Hotels.....	55	13,825	62	22,288	...
Apartment hotels.....	63	2,488	48	3,013	...
Other ⁴	6	277	3	170	...
Other Honolulu.....	9	1,105	10	2,479	...
Rest of Oahu.....	19	754	20	1,243	...
Other islands.....	123	8,474	219	18,841	5,658
Hawaii.....	41	3,166	59	6,064	720
Kauai.....	31	2,565	47	4,097	779
Maui.....	48	2,643	107	8,146	3,870
Molokai.....	2	89	5	523	289
Lanai.....	1	11	1	11	—

¹ Hotels, apartment-hotels, motels, cottages, etc.

² Condominium units in rental pools for transient use. Included in total units. Not available for Oahu subareas.

³ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal.

⁴ Motels, cottages, etc.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory* for February 1970 and 1978.

Table 404.—HOTEL UNITS, 1977 AND 1978, AND OCCUPANCY RATES, 1976 AND 1977, BY GEOGRAPHIC AREA

Geographic area	Number of units			Percent occupied ¹	
	Feb. 1977 (existing)	February 1978		1976	1977
		Existing	Planned ²		
State total	44,986	47,070	15,806	(NA)	(NA)
Oahu	27,363	28,546	5,389	(NA)	(NA)
Waikiki and Kahala ³	23,627	24,934	5,389	82.6	81.2
Ala Moana	1,676	1,649	—	}	(NA)
Central Honolulu	129	129	—		
Airport	702	691	—		
Leeward Oahu	618	532	(NA)		
Windward Oahu	611	611	(NA)		
Hawaii	5,929	6,002	4,016	57.6	61.0
Hilo and Honokaa	2,130	1,957	—	51.4	53.0
Volcano	38	38	—	}	78.9
Ka'u	21	56	—		
North and South Kohala	409	408	3,198		
North and South Kona	3,331	3,543	818		
Maui	7,898	8,202	2,676	74.8	76.9
Wailuku and Kahului	428	427	—	79.7	80.1
Lahaina and Napili	4,938	4,897	1,453	79.0	81.6
Kihei and Maalaea	2,425	2,767	1,148	}	58.4
Kula, Makawao, and Paia	19	19	75		
Hana	88	92	—		
Kauai	3,657	3,786	3,725	76.8	80.6
Kapaa and Wailua	1,711	1,749	2,446	}	80.2
Lihue	789	749	10		
Poipu and Kukuiula	679	769	679	73.3	83.0
Kalaheo	20	20	—	}	53.8
Kokee	12	12	—		
Hanalei	446	487	590		
Molokai	128	523	—	(NA)	(NA)
Lanai	11	11	—	(NA)	(NA)

NA Not available.

¹ Annual averages.

² Under construction or announced for future construction. Includes 1,836 to be completed in 1978, 4,059 in 1979, 750 in 1980, and 9,161 indefinite. Excludes planned units in Leeward and Windward Oahu.

³ Occupancy data limited to Waikiki and Diamond Head.

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

Table 405.—OPERATIONS OF SELECTED RESORT HOTELS: 1967 TO 1977

Year	Average number of rooms	Percentage of occupancy	Guests per occupied room	Average daily rate (dollars)		Total sales and income per guest day (dollars)	Gross operating profit (percent)
				Per room	Per guest		
1967.....	281	87.0	1.81	22.38	12.37	23.12	28.4
1968.....	269	84.6	1.87	23.85	12.72	23.08	28.7
1969.....	298	75.6	1.87	23.98	12.84	22.65	30.4
1970.....	356	72.6	1.88	25.74	13.71	24.61	27.9
1971.....	409	67.1	1.88	24.28	12.93	23.44	25.1
1972.....	595	72.3	1.90	21.83	11.49	21.17	25.1
1973.....	595	80.1	1.91	23.64	12.36	22.67	30.2
1974.....	566	82.6	1.88	26.56	14.10	25.78	31.9
1975.....	486	78.3	1.86	29.75	16.00	...	29.3
1976 ¹.....	...	76.7	...	29.54	15.14	...	...
1977 ¹.....	...	76.7	...	34.28	17.42	...	...

¹ Preliminary.Source: Harris, Kerr, Forster & Company, *Trends in the Hotel-Motel Business* (annual), and records.**Table 406.—HOTEL OCCUPANCY AND ROOM RATES, BY GEOGRAPHIC AREA: ANNUAL AVERAGES, 1976 AND 1977**

Geographic area	Percentage of occupancy		Average daily room rate (dollars)		Average daily guest rate (dollars)	
	1977	1976	1977	1976	1977	1976
State.....	76.7	76.7	34.28	29.54	17.42	15.14
Oahu.....	80.2	82.2	31.87	26.70	16.42	13.87
Waikiki:						
On beach.....	83.2	85.4	39.53	31.64	20.47	16.44
Off beach:						
With restaurant.....	80.1	82.2	25.68	22.94	13.15	11.77
Without restaurant.....	78.8	77.4	23.71	20.70	11.83	10.53
Other Oahu.....	74.7	79.2	35.55	33.11	18.97	18.51
Hawaii.....	58.1	56.0	33.08	30.52	16.62	15.56
Hilo.....	49.2	52.0	28.84	27.21	14.79	14.05
Kona.....	63.4	58.4	35.03	32.23	17.43	16.33
Maui.....	84.0	81.0	42.59	37.61	21.22	18.64
West end.....	90.7	88.2	44.19	39.86	21.44	19.48
Other Maui.....	70.0	63.5	38.21	29.95	20.55	15.60
Kauai.....	84.7	81.9	38.45	34.51	18.91	17.20
East end.....	83.6	80.0	38.60	34.58	19.12	17.32
South end.....	94.6	90.8	37.24	33.92	17.38	16.32

Source: Harris, Kerr, Forster & Company, *Statistics and Trend of Hotel Business in Hawaii* (monthly).

Table 407.—CHARACTERISTICS OF HOTELS AND MOTELS: 1972

Subject	Hotels, motels, motor hotels, and tourist courts	Hotels			Motels, motor hotels, and tourist courts
		All hotels	25 or more guestrooms	Fewer than 25 guestrooms	
ALL ESTABLISHMENTS					
Number of establishments	220	187	(NT)	(NT)	33
Receipts from customers (\$1,000).....	241,606	230,972	(NT)	(NT)	10,634
ESTABLISHMENTS WITH PAYROLL					
Number of establishments	190	168	144	24	22
Guestrooms	31,381	29,440	29,032	408	1,941
Receipts from customers (\$1,000).....	(D)	230,620	228,713	1,907	(D)
Guestroom rentals	142,456	126,244	124,337	(V)	6,911
Meals and nonalcoholic beverages	67,279	65,067	65,067	(V)	2,212
Alcoholic beverages	27,950	26,912	26,912	(V)	1,038
Packaged liquor, wine, and beer	182	182	182	(V)	—
Other merchandise.....	4,047	4,034	4,034	(V)	13
Other sources	(D)	8,181	8,181	(V)	(D)
Payroll, entire year (\$1,000)	(D)	72,677	72,410	267	(D)
Payroll, first quarter (\$1,000).....	(D)	17,966	17,893	73	(D)
Paid employees for week incl. March 12	(D)	14,479	14,379	100	(D)

D Withheld to avoid disclosure. V Insufficient coverage NT Not tabulated

Source: U.S. Bureau of the Census, *Census of Selected Service Industries, 1972, Hotels, Motels, Trailing Parks, and Camps* (SC72-S-2, December 1975), tables 1 and 2.

Table 408.—CONVENTIONS: 1964 TO 1977

Year held	Number of conventions	Registered attendance ¹	Estimated revenue ² (\$1,000)
1964 ³	62	18,521	...
1965	113	22,182	...
1966	134	50,487	...
1967	192	67,702	...
1968	284	71,979	...
1969	160	89,688	...
1970	203	75,749	...
1971	221	93,720	...
1972	198	118,046	43,473
1973	227	153,457	56,463
1974	346	187,770	64,718
1975	386	261,045	71,489
1976	317	192,894	86,108
1977	413	150,418	69,313

¹ Includes Hawaii residents.

² Not available before 1972.

³ Earliest year available.

Source: Hawaii Visitors Bureau, Group Sales Division.

Table 409.—TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES: 1972

Subject	Number of establishments	Receipts ¹ (\$1,000)	Payroll (\$1,000)		Paid employees for week including March 12
			Entire year	First quarter	
Total	203	20,902	8,954	1,977	1,434
With payroll	177	20,659	8,954	1,977	1,434
Without payroll.....	26	243	—	—	—
ESTABLISHMENTS WITH PAYROLL					
Kind of business:					
Travel agencies	136	13,310	5,893	1,327	998
Tour operators ²	32	6,893	2,829	598	392
Other services ³	9	456	232	52	44
Location:					
Oahu	155	18,292	(NA)	(NA)	(NA)
Other islands.....	22	2,367	(NA)	(NA)	(NA)

NA Not available.

¹For Oahu establishments with payroll, source of receipts was as follows: Commissions and other receipts from the retail sale of passenger transportation and lodging, \$11,682,000; tour operation, \$6,504,000; other travel related services, \$106,000. Total operating expenses for these establishments were \$15,867,000.

²Establishments primarily engaged in arranging and assembling tours (wholesaling), usually for sale through travel agents.

³Establishments primarily engaged in arranging passenger transportation such as ticket offices (not operated by transportation companies) for airlines, buses, ships, etc.

Source: U.S. Bureau of the Census, *Census of Selected Service Industries, 1972, Arrangement of Passenger Transportation* (SC72-S-6, December 1975), tables 1 and 4.

Table 410.—MOTION PICTURE THEATRES: 1939 TO 1972

Area, year, and type of theater	All establishments		Establishments with payroll		Establishments with payroll, reporting admissions and capacity		
	Number	Receipts (\$1,000)	Number	Receipts (\$1,000)	Number	Paid admissions ¹ (1,000)	Capacity ²
STATE							
1939, total ³	83	4,182	(NA)	(NA)	(NA)	(NA)	(NA)
1948, total	108	(D)	(NA)	(NA)	(NA)	(NA)	(NA)
Regular	107	8,012	(NA)	(NA)	(NA)	17,769	63,380
Outdoor	1	(D)	(NA)	(NA)	(NA)	(NA)	(NA)
1954, total	102	7,784	98	7,770	66	11,397	...
Except drive-in	94	7,443	92	(D)	63	(NA)	43,228
Drive-in	8	341	6	(D)	3	(NA)	2,174
1958, total	77	(D)	77	(D)	64	8,527	...
Except drive-in	70	6,422	70	6,422	57	7,737	40,945
Drive-in	7	(D)	7	(D)	7	790	3,834
1963, total	74	(D)	74	(D)	67	...	...
Except drive-in	69	6,082	69	6,080	63	5,491	41,998
Drive-in	5	(D)	5	(D)	4	(⁴)	2,719
1967, total	59	9,032	56	(D)	47	543	...
Except drive-in	(NA)	(NA)	51	6,898	44	4,625	33,041
Drive-in	(NA)	(NA)	5	(D)	3	918	2,972
1972, total	66	12,152	59	11,982	(NA)	(NA)	(NA)
Except drive-in	(NA)	(NA)	57	(D)	(NA)	(NA)	(NA)
Drive-in	(NA)	(NA)	2	(D)	(NA)	(NA)	(NA)
OAHU							
1954, total	51	6,201	51	6,201	(NA)	(NA)	(NA)
Except drive-in	45	(D)	45	(D)	NA	(NA)	(NA)
Drive-in	6	(D)	6	(D)	(NA)	(NA)	(NA)
1958, total	41	(D)	41	(D)	(NA)	(NA)	(NA)
Except drive-in	35	5,123	35	5,123	(NA)	(NA)	(NA)
Drive-in	6	(D)	6	(D)	(NA)	(NA)	(NA)
1963, total	36	(D)	36	(D)	(NA)	(NA)	(NA)
Except drive-in	32	5,091	32	5,089	(NA)	(NA)	(NA)
Drive-in	4	(D)	4	(D)	(NA)	(NA)	(NA)
1967, total	36	8,292	36	(D)	32	5,010	...
Except drive-in	31	6,195	31	6,195	29	4,092	23,699
Drive-in	5	2,097	5	(D)	3	918	2,972
1972, total	44	11,199	42	(D)	(D)	(D)	(D)
Except drive-in	(NA)	(NA)	40	9,232	40	4,549	25,744
Drive-in	(NA)	(NA)	2	(D)	(D)	(D)	(D)

D Withheld to avoid disclosure.

NA Not available.

¹ Based on admission charge per person, unless otherwise specified.

² For drive-in motion picture theaters, refers to cars; for other motion picture theaters, refers to seats.

³ Data include all theaters, whether or not showing motion pictures.

⁴ 994,000 persons (where based on persons) and 160,000 cars (where based on cars).

Source: U.S. Bureau of the Census, *Census of Business: 1939, Alaska, Hawaii and Puerto Rico; Census of Business: 1948, Vol. VI and VII; Census of Business: 1954, Vol. V and Vol. VI, Part 2; Census of Business: 1958, BC58-SA52 and BC58-SS8; Census of Business: 1963, Vol. 6 and BC63-SA13; Census of Business: 1967, BC67-SA13 and BC67-SS4; Census of Selected Service Industries: 1972, Vol. I and SC72-A-12.*

Table 411.—MOTION PICTURE PRODUCTION IN HAWAII: 1976 AND 1977

Subject	1976	1977
Number of features filmed	31	63
Features for theater viewing	3	4
Features for television viewing	1	5
Television specials	1	15
Television series ¹	26	39
Expenditures in Hawaii for feature films and television specials and series (millions of dollars)	11	16
Gross budgets (millions of dollars) ²	26	39
Feature films and television specials and series	20	30
Television commercials and related advertising	6	9

¹ Each program in a series counted separately.

² Includes post-production costs out of the State.

Source: Hawaii State Department of Planning and Economic Development, Hawaii Film Office, unpublished estimates.

Table 412.—NUMBER AND GROSS SALES OF LIQUOR LICENSES, FOR OAHU: 1970 AND 1977

Class of licensee	Licenses in effect, June 30		Gross sales of licensees, year ended June 30 (\$1,000)	
	1970	1977	1970	1977
All categories	797	1,037	132,764	255,471
Cabarets	19	33	6,385	13,322
Clubs ¹	14	13	1,038	1,723
Dispensers ²	415	560	48,598	95,317
Retailers ³	321	391	25,754	57,610
Wholesalers	17	22	39,327	80,986
Manufacturers	6	5	11,611	6,021
Tour or cruise vessel	5	13	51	492

¹ Private.

² Bars, restaurants, etc.

³ Package goods stores, including supermarkets, drug stores, etc.

Source: City and County of Honolulu, Department of Finance, Liquor Commission, records.

Table 413.—LIQUOR AND TOBACCO TAX BASES: 1970 TO 1977
 [Wholesale value, in thousands of dollars. Excludes sales on military bases.]

Year ¹	Liquor tax base	Tobacco tax base
1970	40,509	15,565
1971	43,535	16,617
1972	47,077	15,643
1973	54,917	19,887
1974	60,724	21,573
1975	69,210	22,878
1976	76,659	24,413
1977	86,229	26,077

¹Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release).

**Table 414.—ALCOHOLIC BEVERAGE CONSUMPTION AND REVENUES,
 BY TYPE OF BEVERAGE: 1976**

Type of beverage	Consumption		State and county revenues	
	Total (1,000 gal.)	Per capita ¹ (gal.)	Total ² (\$1,000)	Per gal. (dollars)
All alcoholic beverages	26,155	27.5	22,083	0.84
Distilled spirits	2,024	2.1	9,297	4.59
Wine	1,811	1.9	1,590	0.88
Beer	22,320	23.4	11,196	0.50

¹ Based on estimated de facto population (952,700). The corresponding national ratios were 2.0 for distilled spirits, 1.7 for wine, and 21.8 for beer.

² Includes county license fees (\$1,697,000), general excise tax (retailing, \$4,665,000; wholesaling, \$383,000), and ad valorem tax (\$15,338,000).

Source: Distilled Spirits Council of the United States, Inc., *1976 Public Revenues from Alcohol Beverages*, pp. 16, 17, 20, and 33.

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from \$120 million in 1967 to \$993 million in 1977. Exports to foreign countries amounted to only \$47 million in 1967, but by 1977 exceeded \$98 million. (These figures, it should be noted, refer to merchandise imports for consumption and exports of domestic merchandise through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.)

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from \$689 million in 1966 to \$1.8 billion in 1976, the most recent year available. Merchandise exported to the Mainland rose from \$311 million in 1966 to \$817 million in 1974, then slipped back to \$415 million in 1976.

Among the foreign nations, Hawaii's leading trading partners in 1976 were Indonesia for imports and Japan for exports. Imports from Indonesia amounted to \$249 million, or 28 percent of the total, while exports to Japan reached \$13 million, or 21 percent of all foreign exports. The Indonesian imports consisted mostly of crude oil.

The Honolulu Foreign Trade Zone received merchandise valued at \$14 million in 1977. Merchandise forwarded was valued at \$12 million.

Hawaii residents had out-of-State assets estimated at \$2,676 million in 1971. Assets of non-residents in the State at the same time amounted to approximately \$3,439 million.

Hawaii affiliates of foreign firms owned 51,000 acres (and leased another 60,000) in the Islands as of December 1974, reported property, plant, and equipment worth \$716 million, and employed 13,095 persons with an annual payroll of \$91 million. Major Japanese firms operating in Hawaii in September 1976 numbered 109.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census (for foreign trade), the Bank of Hawaii (for interstate trade and balance of payments), Foreign Trade Zone No. 9, the Hawaii International Services Agency, a study of *Foreign Direct Investment in the United States* issued by the U.S. Department of Commerce in 1976, and a 1973 study by the University of Hawaii Economic Research Center on *The Economic and Social Impact of Foreign Investment in Hawaii*. Further information appears in cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of *Statistical Abstract of the United States: 1977*.

Table 415.—IMPORTS AND EXPORTS: 1965 TO 1977
 [In millions of dollars]

Calendar year	Imports			Exports		
	Total	From Main-land U.S.	From other areas ¹	Total	To Main-land U.S.	To other areas
1965.....	711.0	615.1	95.9	331.8	296.7	35.1
1966.....	794.0	688.8	105.2	351.1	310.6	40.5
1967.....	942.5	822.4	120.1	372.7	325.3	47.4
1968.....	1,025.4	886.7	138.7	378.1	329.1	49.0
1969.....	1,196.4	1,029.1	167.3	368.1	321.7	46.4
1970.....	1,361.5	1,194.1	167.4	391.0	339.8	51.2
1971.....	1,416.9	1,201.4	215.5	412.0	365.7	46.3
1972.....	1,447.5	1,220.0	227.5	410.6	350.2	60.4
1973.....	1,836.1	1,563.5	272.6	454.6	381.8	72.8
1974.....	2,447.9	1,866.2	581.7	932.2	817.0	115.2
1975.....	2,531.5	1,773.9	757.6	618.1	522.4	95.7
1976.....	2,632.8	1,756.3	876.5	481.4	415.2	66.2
1977.....	(NA)	(NA)	993.2	(NA)	(NA)	98.3

NA Not available.

¹ Merchandise imports for consumptions. Data refer to imports through the Honolulu Customs District, and may include merchandise destined for other areas. Similarly, imports entered through other customs districts and destined for Hawaii are excluded.

² Merchandise exports, including merchandise of foreign origin. Data refer to exports through the Honolulu Customs District, and may include merchandise originated in other areas. Similarly, exports originated in Hawaii but shipped from other customs districts are excluded.

Source: U.S. Bureau of the Census, *Highlights of the U.S. Export and Import Trade*, Report IT-990, December 1977, tables E-4 and I-9A, and records; Bank of Hawaii, *Hawaii 78 (August 1978)*, p. 45.

Table 416.—IMPORTS AND EXPORTS, BY CONTINENT AND COUNTRY, FOR THE HONOLULU CUSTOMS DISTRICT: 1976

[In dollars. Data refer to the value of the U.S. imports entered for consumption and exports of domestic merchandise through the Honolulu Customs District, which includes Honolulu and Pearl Harbor, Honolulu International Airport, Hilo, Kahului, and Nawiliwili-Port Allen. These data include all trade through the Honolulu Customs District, and thus may include imports intended for consumption on the Mainland or exports originated on the Mainland.]

Continent and country	Imports for consumption	Exports of domestic merchandise
Total	876,464,756	63,045,446
North America:		
Bahamas (British)	8,519,883	—
Barbados	2,280	—
Bermuda	2,108	2,436
Canada	14,912,369	1,749,779
Cayman Islands.....	9,634	—
Costa Rica	2,479	23,373
Dominican Republic	5,722	—
El Salvador.....	22,974	23,750
French West Indies	497	—
Guatemala	6,183	—
Haiti	106,577	—
Honduras	133,762	—
Jamaica	83,304	—
Mexico.....	910,931	32,805
Netherlands Antilles.....	7,018,609	—
Nicaragua.....	810	—
Panama.....	3,262,249	16,794
Trinidad and Tobago	2,705,725	—
South America:		
Argentina	29,492	—
Bolivia	422	—
Brazil	71,187	—
Columbia.....	190,437	—
Ecuador.....	7,869,336	—
Guyana	3,582	—
Peru	598	—
Surinam	—	1,061
Venezuela	6,412,116	—

Table 416.—IMPORTS AND EXPORTS, BY CONTINENT AND COUNTRY, FOR THE HONOLULU CUSTOMS DISTRICT: 1976 (Continued)

Continent and country	Imports for consumption	Exports of domestic merchandise
Europe:		
Austria	37,514	—
Belgium & Luxembourg	698,335	—
Denmark	915,886	—
Federal Republic of Germany	12,800,522	439,241
Finland	24,900	—
France	1,611,033	32,858
Greece	12,125	5,660
Iceland	2,812	—
Ireland	9,238	—
Italy	925,670	287,126
Netherlands	1,156,867	1,951,529
Norway	96,881	—
Poland	—	53,954
Portugal	51,695	—
Spain	37,512	—
Sweden	158,983	—
Switzerland	123,160	—
Turkey	5,266	—
Union of Soviet Socialist Republics	690,838	—
United Kingdom	2,123,079	39,685
Asia:		
Afghanistan	8,771	—
Bangladesh	—	13,056
Bahrain	3,004,078	7,962
Brunei	104,621,619	2,894
Burma	11,675	61,572
China, Republic of	56,040,114	957,009
Hong Kong	15,531,033	2,415,712
India	171,097	2,833
Indonesia	249,468,825	888,245
Iran	8,333	11,232
Iraq	—	15,090
Israel	340,799	—
Japan	117,295,358	13,024,403
Korea, Republic of	3,051,963	2,348,534
Macao	741,452	—
Malaysia	28,251,918	272,294
United Arab Emirates	322,202	27,120

Table 416.—IMPORTS AND EXPORTS, BY CONTINENT AND COUNTRY, FOR THE HONOLULU CUSTOMS DISTRICT: 1976 (Continued)

Continent and country	Imports for consumption	Exports of domestic merchandise
Asia (con.):		
Nepal	2,311	110,505
Oman	46,908,999	—
Pakistan	130,015	25,071
Philippines	9,178,965	5,763,464
Peoples' Republic of China	925,867	10,200
Saudi Arabia	22,213,293	5,655
Singapore	110,669,770	3,326,243
Sri Lanka	35,993	2,671
South Vietnam	2,488	—
Southern Asia ¹	—	7,451
Syria	2,160	—
Thailand	1,575,921	1,132,908
Australia and Pacific Islands:		
Australia	12,902,067	17,669,393
British Pacific Islands ²	3,225,663	160,352
French Pacific Islands ³	306	2,056,538
French Polynesia	103,517	—
New Zealand	9,190,551	1,996,956
Papua New Guinea	15,098	97,932
Trust Territory of the Pacific Islands	80,978	5,531,453
Western Samoa	7,963	54,767
Other Pacific Islands ⁴	913,034	374,161
Africa:		
Angola	5,569,105	—
Burundi	16,873	—
Kenya	72,980	—
Liberia	—	4,925
Libya	—	5,738
Malagasy Republic	36,991	—
Morocco	25,068	—
Senegal	5,045	—
South Africa, Republic of	18,332	1,056
Tanzania	584	—

¹ Includes Bhutan, the Maldives and Portuguese Timor.

² Includes British Solomon Islands, New Hebrides, Gilbert and Ellice Islands, Phoenix Islands (except Canton and Erderbury Islands) and Pitcairn Island Colony.

³ Includes New Caledonia and dependencies, Loyalty Islands, Isle of Pines and Walpole Island, Marquesas, Tuamotu and Gambier, Society Isles Australes, Clipperton Islands, Wallis and Futuna, and other French possessions in Oceania.

⁴ Includes Christmas Island, Fiji, Tonga, Tokelau Islands, Solomon Islands and Nauru.

Source: Data from U.S. Bureau of Census, cited in the Hawaii International Services Directory, International Business Series No. 5, *Hawaii's Foreign Trade 1976*, November 1977.

Table 417.—IMPORTS AND EXPORTS, BY COMMODITY, FOR THE HONOLULU CUSTOMS DISTRICT: 1974 AND 1975

[In dollars. Data refer to the value of U.S. imports entered for consumption and exports of domestic merchandise through the Honolulu Customs District, and may include imports intended for consumption on the Mainland or exports originated on the Mainland.]

Commodity groupings	1974	1975
IMPORTS FOR CONSUMPTION		
All imports for consumption	581,672,420	757,603,313
Animal and vegetable products	42,404,347	36,667,374
Wood and paper; printed matter	13,289,327	7,097,023
Textile fibers and textile products	11,231,922	11,204,969
Chemicals and related products (including petroleum)	340,722,622	482,759,440
Nonmetallic minerals and products	5,647,802	5,970,745
Metals and metal products	142,580,399	178,199,915
Metals	25,874,389	27,716,969
Metal products	7,712,545	8,329,891
Machinery and mechanical equipment; and electrical machinery and equipment	60,693,318	94,512,851
Transportation equipment	48,300,147	47,640,204
Miscellaneous products	23,691,696	32,422,803
Special classification provisions	2,104,305	3,281,044
EXPORTS OF DOMESTIC MERCHANDISE		
All exports of domestic merchandise	113,056,122	94,044,196
Food and live animals	4,997,088	22,293,360
Sugar and honey	466,843	16,646,520
Inedible crude materials, except fuels	5,664,013	5,020,482
Petroleum products	1,145,260	1,610,662
Animal and vegetable oils and fats	345,088	861,696
Chemicals	2,108,810	1,226,146
Manufactured goods classified by material	2,666,379	3,299,855
Machinery and transport equipment	87,353,251	52,237,315
Nonelectric machinery	14,478,011	20,941,289
Electric machinery and apparatus	6,948,959	10,094,926
Transport equipment	65,926,281	21,201,100
Aircraft and parts	65,068,370	20,230,562
Miscellaneous manufactured goods	7,886,809	6,009,370
Unclassified commodities and transactions	822,153	1,127,592

Source: U.S. Bureau of the Census, computer printouts.

**Table 418.—OPERATIONS OF FOREIGN-TRADE ZONE NO. 9, HONOLULU:
1975 TO 1977**

Subject	1975 ¹	1976 ¹	1977 ²
Area of primary zone in square feet, June 30	235,766	235,766	235,766
Firms using zone during year	148	179	205
Continuously	82	86	97
Merchandise received: Value (\$1,000)	15,553	12,348	13,549
Weight (short tons)	7,092	4,608	4,702
Merchandise forwarded: Value (\$1,000)	14,275	12,048	12,152
Weight (short tons)	6,288	5,251	4,152
Occupancy (annual average, percent)	78	78	82
Total income (\$1,000)	536	575	798
Total expenses (\$1,000)	489	523	704
Net income (\$1,000)	48	52	94
Assets, end of period (\$1,000)	1,474	1,552	1,703

¹ Year ended June 30.

² Year ended September 30.

Source: *Annual Report, Foreign-Trade Zone No. 9, Honolulu, Hawaii* for 1975-1977.

Table 419.—FOREIGN DIRECT INVESTMENT IN HAWAII: 1974

Subject	All Hawaii affiliates of foreign parents	Hawaii affiliates of Japanese parents	Hawaii affiliates of other foreign parents
Land controlled, Dec. 31 (1,000 acres)	110	(D)	(D)
Owned	51	6	45
Leased from others	60	(D)	(D)
Property, plant, and equipment owned (\$ million)	716	483	233
Agricultural and timberland	11	(D)	(D)
Other natural resources	—	—	—
Transient lodging, residential, and recreational	423	354	69
Industrial	44	(D)	(D)
Other commercial and business	147	66	81
Other	90	57	33
Employees	13,095	(NA)	(NA)
Wages and salaries (\$ million)	91	(NA)	(NA)

D Data suppressed to avoid disclosure of information for individual firms.

NA Not available.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States, Vol. 2, Report of the Secretary of Commerce: Benchmark Survey, 1974* (April 1976), pp. 124, 129, 150 and 155.

**Table 420.—MAJOR JAPANESE FIRMS IN OPERATION IN HAWAII:
SEPTEMBER 1976**

[Includes major Japanese firms registered to do business in Hawaii and actually in operation. Excludes smaller retail and service establishments.]

Kind of business and SIC code	Number of firms
All listed firms	109
Agriculture (01-09)	1
Construction (15, 16, 17)	1
Printing & publishing (27)	4
Airlines (45)	1
Travel & tour services (47)	20
Wholesale (50, 51)	27
Retail (52-59)	20
Banking, insurance, & other finance (60-64)	6
Real estate, development, and investment (65-67)	13
Hotel (70)	8
Laundry (721)	1
Misc. business services (73)	3
Golf courses (79)	3
Educational services (82)	1

Source: Hawaii International Services Agency, *Directory of Japanese Firms and Representatives in Hawaii, September 1976* (International Business Series No. 3, September 1976).

Table 421.—BALANCE OF INDEBTEDNESS: 1960 TO 1971
[In millions of dollars]

Subject	1960	1965	1971
Out of State assets of Hawaii residents	1,244	2,296	2,676
Hawaii assets of non-residents	1,167	2,483	3,439

Source: H. Robert Heller and Emily E. Heller, *The Economic and Social Impact of Foreign Investment in Hawaii* (University of Hawaii, Economic Research Center, December 1973), p. 16.

Table 422.—BALANCE OF PAYMENTS, EXCLUDING CAPITAL MOVEMENTS: 1970 TO 1976
 [In millions of dollars]

Year	Earnings from overseas					Expenditures to overseas				
	Total	Commodity exports	Federal expenditures	Services performed	Return on overseas investments	Total	Commodity imports	Payments to Federal government	Services performed	Return on investments in Hawaii
1970.....	2,317	391	1,071	727	128	2,805	1,534	672	446	153
1971.....	2,601	412	1,220	825	144	2,756	1,425	696	450	185
1972.....	2,819	411	1,301	953	154	2,935	1,464	744	507	220
1973.....	3,309	455	1,526	1,152	176	3,608	1,904	846	606	252
1974.....	4,307	930	1,694	1,488	195	4,449	2,488	951	707	303
1975.....	4,351	616	1,979	1,543	213	4,864	2,558	1,215	779	312
1976.....	4,632	481	2,186	1,711	254	4,961	2,671	1,118	827	345

Source: Bank of Hawaii, *Hawaii 78, 28th Annual Economic Review* (August 1978), p. 45.

BIBLIOGRAPHY

This volume is the twelfth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first was *Statistical Abstract of Hawaii, 1962*, prepared by Robert C. Schmitt and issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled *The State of Hawaii Data Book* were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. The 1967 and 1968 editions were compiled by Nancy C. Fowler for the DPED Information and Public Service Office. The 1970 and succeeding editions were prepared by Robert C. Schmitt and Lynn Y.S. Zane of the Research and Economic Analysis Division. Most of the volumes issued prior to the present edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in other DPED publications. Three of these DPED reports cover statistical sources in considerable detail: *Statistics in Hawaii: 34 Papers Prepared for the Hawaii Statistical Reporting System Workshop, February 18-20, 1970, at Waikiki* (1970), *Proceedings of the Conference on Socio-Environmental Indicators, March 15-17, 1971, Honolulu, Hawaii* (1971), and *Inventory of Hawaii Planning Information* (1973). The first two are the reports of statistical symposia organized by Dr. Richard Y.P. Joun. The third is a 164-page reference work prepared for the Hawaii Urban Planning Information Center by Nancy Fowler, containing detailed geographic and subject-matter indexes and source listings. These reports are now out of print, but copies can be consulted in most Hawaii libraries.

Although most of the series in the *Data Book* are shown only for recent years, earlier figures in many cases can be found in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University Press and various book stores for \$25.

Privately published works of general statistical reference include *Hawaii Facts and Figures*, *All About Hawaii*, *Combined with Thrum's Hawaiian Almanac and Standard Guide*, and *All About Business in Hawaii*.

Hawaii Facts and Figures is a publication of the Chamber of Commerce of Hawaii. First issued in 1935 as *Business Statistics*, it was renamed *General Information About Honolulu, Hawaii, U.S.A. and the Territory* in 1938 and was given its present title in 1946. Since then it has appeared at annual or biennial intervals. The most recent version is the 1978 edition, with statistics through 1977; copies are available from the Chamber for \$2.00.

The current edition of *All About Hawaii* is the ninety-first, published in 1974 by SB Printers, Inc., at \$2.95. *All About Hawaii* began in 1928 as a tourist guide published by the Honolulu Star-Bulletin. Late in 1940 it was combined with the *Hawaiian Almanac and Annual*, which had appeared regularly since its founding by Thomas G. Thrum in 1875. Issued annually at first, this series has in recent years appeared at much more widely spaced intervals.

All About Business in Hawaii, 1978 Edition, is the sixth in an annual series published by Crossroads Press. The current edition costs \$2.00.

Two other privately published reports containing useful statistics are the annual economic reviews of the two largest banks in the State. The current editions are *Hawaii 78*, published by the Bank of Hawaii in August 1978, and *Hawaii in 1977*, issued by the First Hawaiian Bank as a supplement to its monthly *Economic Indicators* for April 1978.

The County of Hawaii, Department of Research and Development, has published its own *Data Book 1978*, presenting 232 pages of statistics for the Big Island.

The major official source for general statistical information during the Territorial period was the *Report of the Governor of Hawaii to the Secretary of the Interior*, issued annually (sometimes with variant titles) from 1900 to 1959. No comparable work was published by either the Kingdom or Republic of Hawaii, although Thrum's *Hawaiian Almanac and Annual* served much the same function.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the *Statistical Abstract of the United States* and its companion volume, the *County and City Data Book*. The *Abstract* is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 98th, dated 1977; copies are available for \$11.00 (cloth) or \$8.50 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The *County and City Data Book*, most recently issued for 1977, is sold by the same agency for \$19.50. Both volumes are on the shelves of most libraries.

Table B.—PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1977

Edition	Number of pages	Number of tables	Price (dollars)		Printing cost (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 ¹	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 ²	227	210	4.00	5.00	6,245.00	3,000
1973	290	261	4.00	5.00	6,309.00	1,500
1974	306	291	4.00	5.00	9,330.00	2,000
1975	302	308	4.00	5.00	10,222.95	2,000
1976	312	334	4.00	5.00	9,901.13	2,000
1977	339	372	4.00	5.00	11,990.00	2,000

NA Not available.

¹ The 1962 edition was titled *Statistical Abstract of Hawaii, 1962*. In addition, a 41-page, 57-table supplement, *Historical Statistics of Hawaii, 1778-1962*, was published and distributed without extra charge to persons receiving the regular edition.

² A 19-page supplement, *State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources*, was included with each copy of the regular edition, and was not sold separately.

Source: DPED records.

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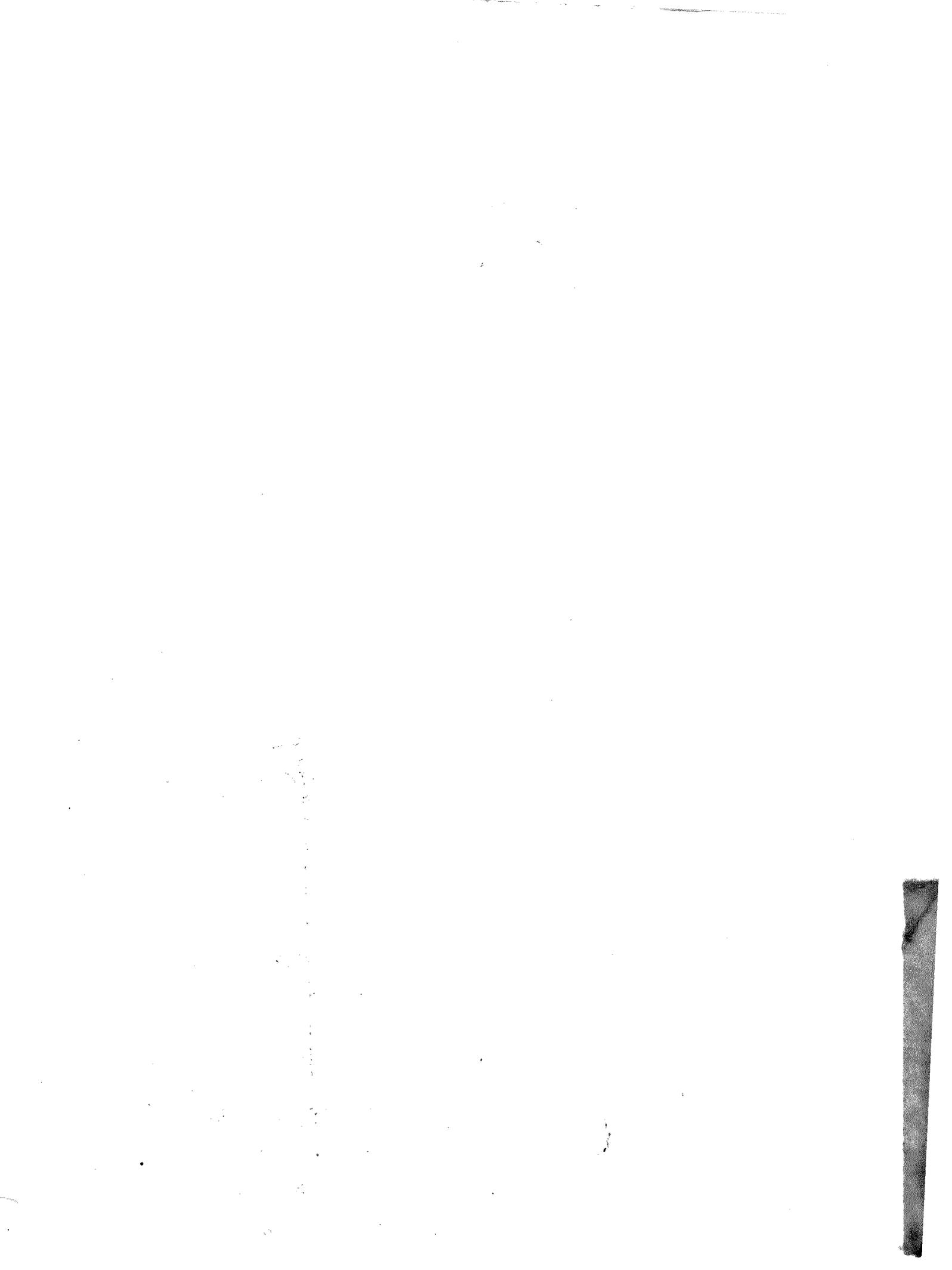
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