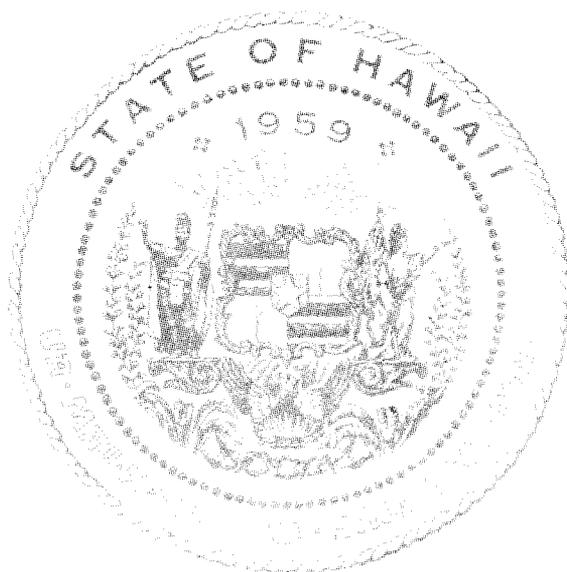


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RESEARCH AND STATISTICS



THE STATE OF HAWAII **DATA BOOK**

1977

A STATISTICAL ABSTRACT

THE STATE OF HAWAII
DATA BOOK

1977

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

NOVEMBER 1977

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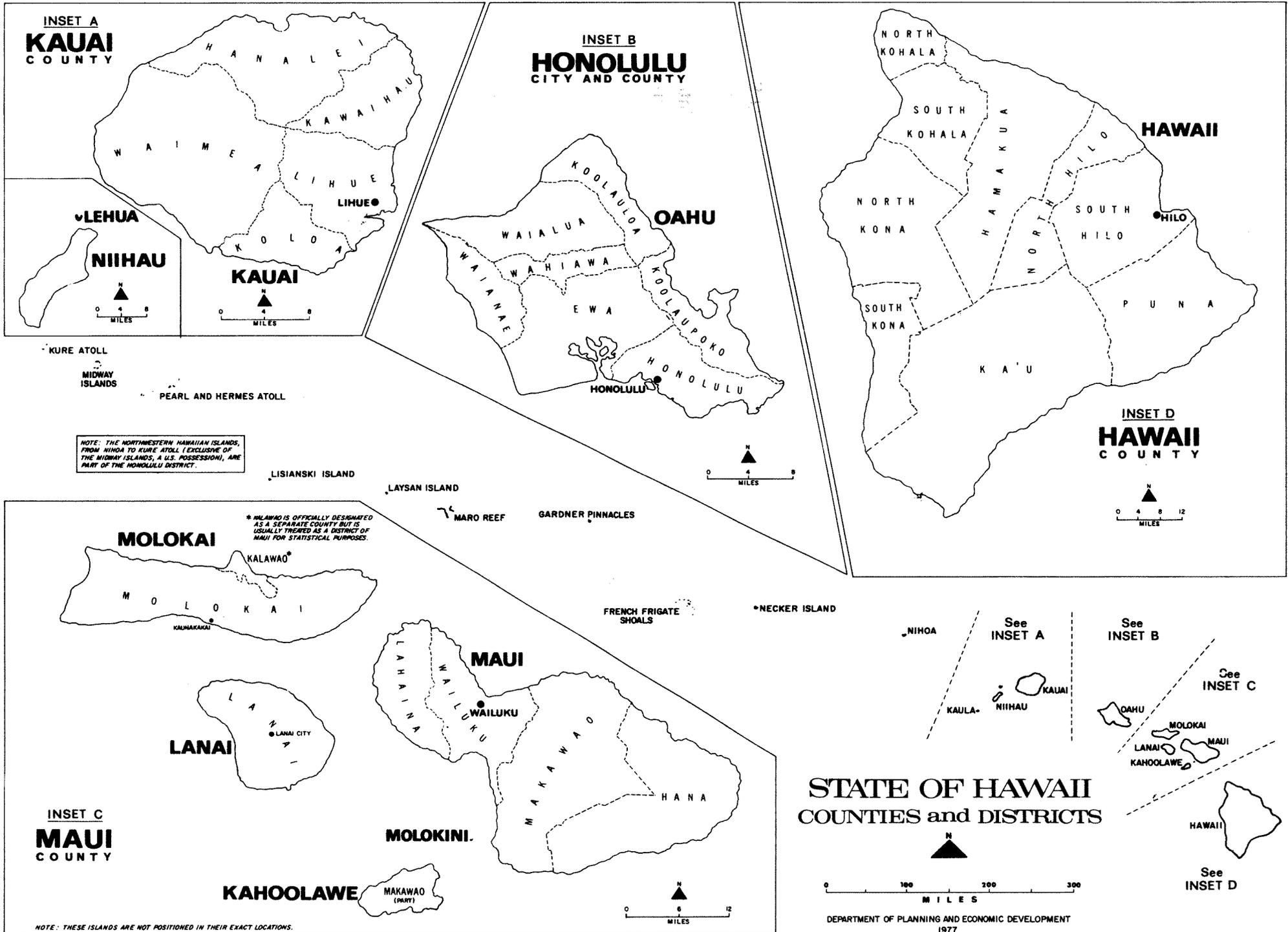
FOREWORD

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 1977* 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. This *State of Hawaii Data Book 1977* 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.



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 1977, is the eleventh 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 126.—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.)

} Headnote

Stub

Boxhead

} Spanner

} Column heads

Footnote indicator

} Field

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

The section 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-1976 indicate a population of 886,600. This total includes approximately 56,000 members of the armed forces and 67,000 of their dependents. It excludes an average of 78,500 visitors who were present in 1976, while including an average of 9,400 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 81.0 percent of the 1976 total lived on Oahu, giving that island a density in excess of 1,280 persons per square mile. The population is young—50 percent were under 25 years of age in 1970—and racially diversified, over one-fourth of the total being the product of mixed marriages. Migration has been a major factor in the growth of the population: between 1970 and 1976, approximately 177,700 persons (excluding military personnel and their dependents) moved to the State, while 119,200 moved away. The in-migrants included 133,100 persons from the Mainland and 44,600 from foreign countries, chiefly the Philippines and Korea.

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

The principal sources for these data are the decennial censuses (including final tabulations of the 1970 count), the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the sample survey conducted since 1969 by the Department of Health, and ongoing series 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, each issued annually: *The Population of Hawaii* and *Hawaii's In-Migrants*. Comparable national statistics appear in sections 1 and 3 of *Statistical Abstract of the United States: 1976*.

**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.

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

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

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

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

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

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:
1966 TO 1976**

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			
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	774,200	53,000	721,100	57,800	663,400	37,600	10,000	801,800
1971	798,000	50,800	747,200	62,200	685,100	41,900	9,400	830,500
1972	820,900	52,000	768,900	66,200	702,700	51,300	8,600	863,500
1973	844,100	58,100	785,900	70,300	715,600	61,600	9,800	895,900
1974	854,100	57,500	796,600	68,300	728,200	66,000	7,800	912,300
1975	868,400	58,800	809,600	63,700	745,900	68,800	9,000	928,200
1976	886,600	56,000	830,600	67,000	763,700	78,500	9,400	955,800

¹ July 1 unless otherwise specified.

² Includes residents temporarily absent; excludes visitors present.

³ Excludes residents temporarily absent; includes visitors present.

⁴ De facto basis, 1966-1969; 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, 1976* (Statistical Report 119, April 2, 1977), table 1, as revised.

Table 4.—ESTIMATED POPULATION, 1970 TO 1976, AND DENSITY, 1976, 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
1975: July 1	868,400	705,400	163,000	75,300	32,700	55,000	2,100	47,500	5,400
1976: July 1	886,600	718,400	168,200	76,600	34,100	57,500	2,000	50,000	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
1975: July 1	809,600	646,900	162,700	75,200	32,600	55,000	2,100	47,500	5,400
1976: July 1	830,600	662,700	167,900	76,500	34,000	57,500	2,000	50,000	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
1975: July 1	928,200	746,400	181,900	81,200	37,400	63,200	2,100	55,600	5,500
1976: July 1	955,800	766,100	189,700	82,800	39,300	67,600	2,000	59,800	5,800
DE FACTO DENSITY									
Per square mile, 1976 ...	148.7	1,286.0	32.5	20.5	63.5	57.6	14.4	82.1	22.2
Per square km., 1976	57.4	496.5	12.6	7.9	24.5	22.2	5.6	31.7	8.6

¹ Includes Kauai, Niihau, Lehua, and Kaula. The total resident population of Niihau was 237 on April 1, 1970, 240 on February 1, 1975 and 243 on March 15, 1976. Kaula and Lehua are uninhabited.

² Population data for county and Molokai include Kalawao County (Kalaupapa Settlement): 172 in 1970, 188 in 1975, and 179 in 1976. 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, 1976* (Statistical Report 119, April 2, 1977), tables 2 and 3, as revised.

Table 5.—RESIDENT POPULATION OF HAWAII, BY COUNTY AND DISTRICT: 1960, 1970 AND 1975

County and district ¹	April 1, 1960	April 1, 1970	July 1, 1975 ²	Percent change, 1970-1975
The State	632,772	769,913	864,900	12.3
Honolulu	500,409	630,528	704,500	11.7
Honolulu	294,194	324,871	344,000	5.9
Koolaupoko	60,238	92,219	104,200	13.0
Koolauloa	8,043	10,562	11,300	7.0
Waialua	8,221	9,171	9,500	3.6
Wahiawa	34,595	37,329	45,200	21.1
Waianae	16,452	24,077	27,500	14.2
Ewa	78,666	132,299	162,800	23.1
Hawaii	61,332	63,468	74,700	17.7
Puna	5,030	5,154	8,100	57.2
South Hilo	31,553	33,915	38,200	12.6
North Hilo	2,493	1,881	2,000	6.3
Hamakua	5,221	4,648	4,900	5.4
North Kohala	3,386	3,326	3,100	-6.8
South Kohala	1,538	2,310	3,000	29.9
North Kona	4,451	4,832	7,700	59.4
South Kona	4,292	4,004	4,000	0.0
Ka'u	3,368	3,398	3,700	8.9
Maui and Kalawao	42,855	46,156	53,900	16.8
Hana	1,073	969	1,100	13.5
Makawao	10,409	9,979	12,300	23.2
Wailuku	19,391	22,219	25,900	16.6
Lahaina	4,844	5,524	7,700	39.4
Lanai	2,115	2,204	2,000	-9.2
Molokai	4,744	5,089	4,900	-6.9
Kalawao	279	172		
Kauai	28,176	29,761	31,800	6.8
Waimea	7,057	7,569	7,400	-2.2
Koloa	7,012	6,851	7,400	8.0
Lihue	6,297	6,766	6,600	-2.4
Kawaihau	6,498	7,393	8,500	15.0
Hanalei	1,312	1,182	1,900	60.7

¹ For county and district boundaries, see map following Foreword.

² For revised State and county estimates, see table 4.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1970*, Final Report PC(1)-A13, table 10, as corrected; Hawaii State Census Statistical Areas Committee, *Estimated Population of Hawaii by Districts, 1975* (Report CTC-33, October 21, 1976), p. 3.

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

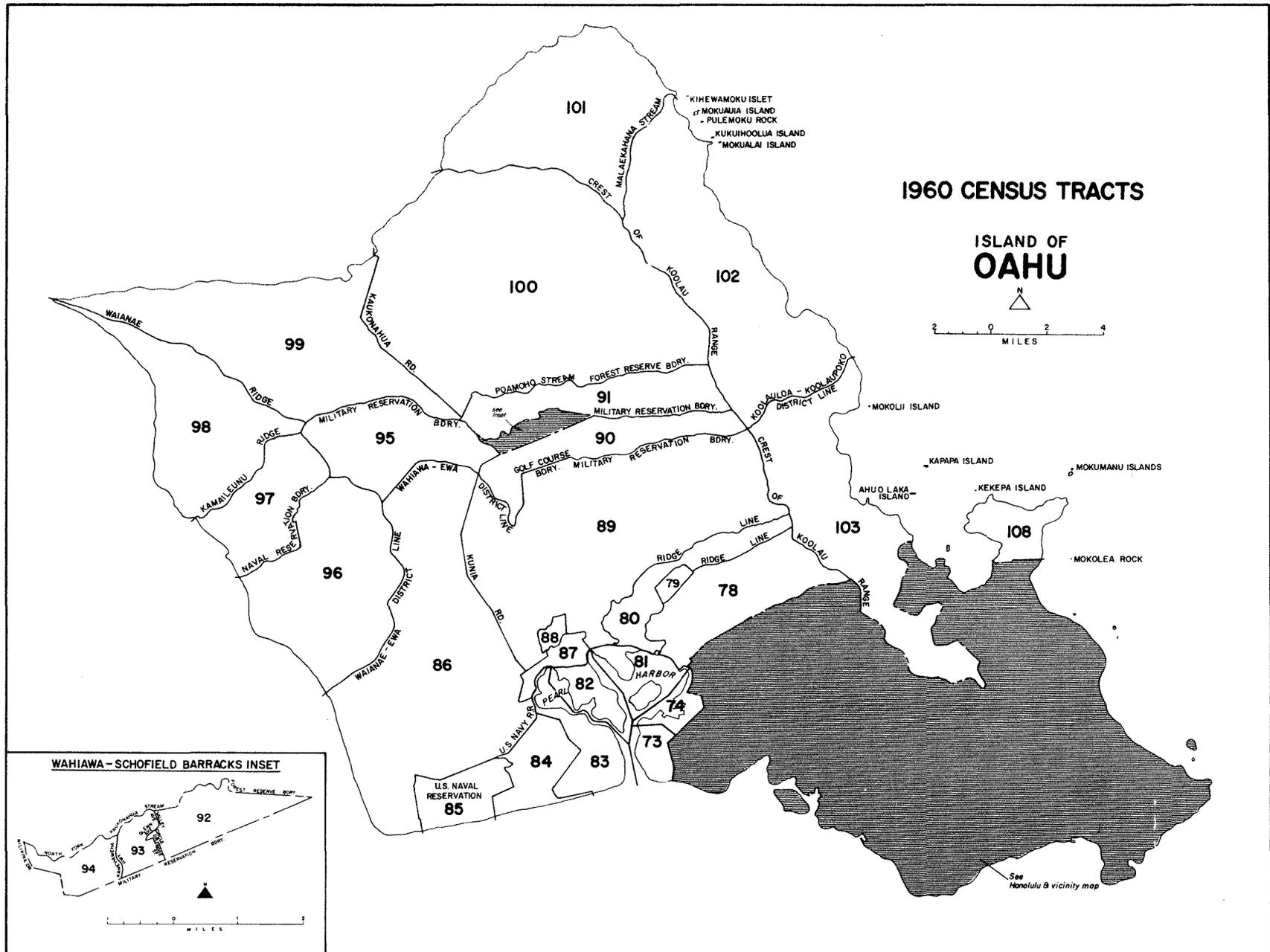
Island and urban place ¹	Land area (acres)	Resident population		Island and urban place ¹	Land area (acres)	Resident population	
		1970	1960 ²			1970	1960 ²
Oahu:							
Aiea	1,302	12,560	11,436	Oahu, con.:			
Barbers Pt. Hsg.	149	3,187	2,665	Waimalu	115	2,982	2,446
Ewa	627	2,906	3,257	Waimanalo Beach	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
Maili	477	4,397	2,954	Lihue	3,959	3,124	4,106
Makaha	723	4,644	2,735				
Makakilo City	850	3,499	0	Maui:			
Maunawili	2,325	5,303	2,128	Kahului	2,888	8,280	4,233
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.

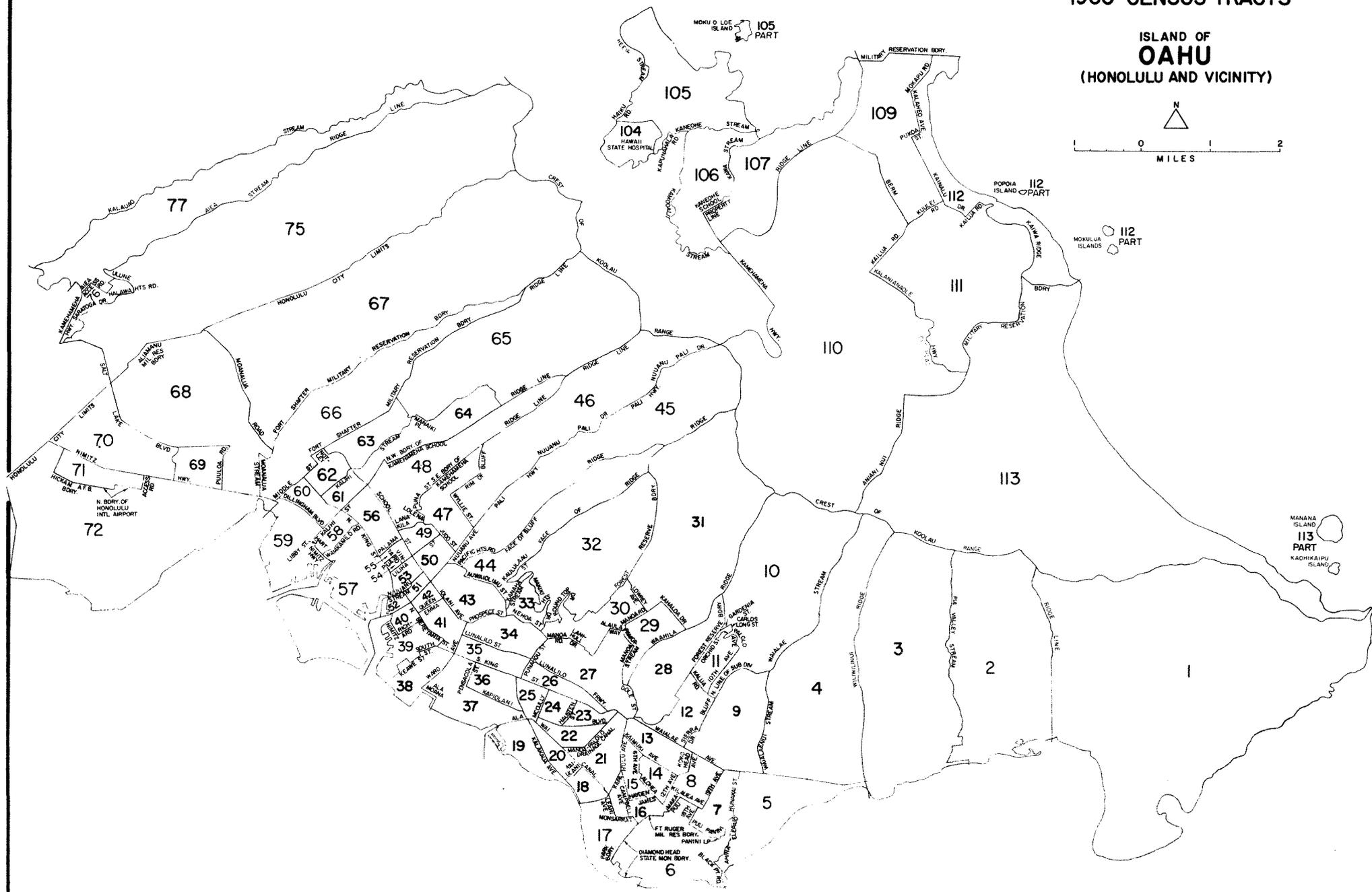
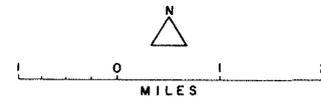
³ Includes Coconut Grove, Kalaheo Hillside, Keolu Hills, and Lanikai.

Source: Hawaii State Department of Planning and Economic Development, *Statistical Boundaries of Cities, Towns and Villages as Approved Through December 31, 1976* (Report SB-A12, January 21, 1977), table 1.



1960 CENSUS TRACTS

ISLAND OF OAHU (HONOLULU AND VICINITY)



**Table 7.—AREA, POPULATION, EMPLOYMENT, AND HOUSING UNITS, FOR OAHU,
BY CENSUS TRACTS: 1970 TO 1976**

Census tract	Land area ¹ (acres)	Resident population		Persons per acre, 1976 ²	Employment (by place of work), 1974 ³	Housing units	
		April 1, 1970	July 1, 1976 ²			April 1, 1970 ⁴	July 1, 1976
Oahu ⁵	383,345	630,528	718,428	1.9	276,237	174,742	212,615
Honolulu ⁵	56,590	324,871	355,972	6.2	178,102	103,189	121,607
1	7,458	12,572	22,524	3.0	1,492	3,498	6,175
2	2,210	5,123	6,644	3.0	360	1,356	1,913
3	2,842	6,485	6,297	2.2	772	1,710	1,735
4	2,366	4,469	6,131	2.6	257	1,190	1,692
5	708	5,253	5,568	7.9	1,338	1,835	1,858
6	812	2,025	1,817	2.2	412	575	543
7	240	3,794	3,798	15.8	463	994	1,036
8	223	4,599	4,230	19.0	720	1,237	1,260
9	688	10,679	10,636	15.5	720	3,239	3,305
10	1,951	3,650	3,406	1.7	—	894	899
11	190	4,586	4,421	23.3	206	1,023	1,063
12	280	7,888	7,514	26.8	720	2,148	2,177
13	231	5,146	4,856	21.0	1,132	1,589	1,586
14	122	2,990	2,935	24.1	51	848	860
15	139	4,345	4,596	33.1	412	1,261	1,400
16	151	4,783	4,889	32.4	566	1,392	1,525
17	331	2,559	2,961	8.9	926	1,523	1,574
18	102	4,060	4,988	48.9	4,014	2,379	2,570
19	377	4,479	6,433	17.1	11,218	2,770	3,641
20	123	4,585	6,638	54.0	7,153	2,991	3,852
21	300	3,347	4,066	13.6	926	1,211	1,513
22	152	3,796	6,493	42.7	618	1,493	2,752
23	89	4,195	5,134	57.7	463	1,654	2,256
24	107	5,878	6,530	61.0	978	2,143	2,425
25	107	4,242	4,216	39.4	875	1,630	1,637
26	164	5,163	5,729	34.9	2,882	1,815	2,234
27	625	8,714	7,546	12.1	5,609	2,491	2,851
28	624	4,316	3,828	6.1	412	1,161	1,166
29	259	1,591	1,663	6.4	206	394	415
30	410	4,966	4,938	12.0	618	1,561	1,634
31	2,275	8,433	8,374	3.7	515	2,179	2,277
32	1,468	1,218	1,150	0.8	103	360	375
33	148	1,145	1,000	6.8	206	285	296
34	274	14,913	18,309	66.8	720	7,331	8,927
35	185	4,308	6,321	34.2	6,072	1,925	2,911
36	180	5,570	6,516	36.2	7,153	2,628	3,074
37	408	1,349	2,362	5.8	15,644	746	1,230
38	254	837	490	1.9	10,446	279	275
39	292	397	135	0.5	8,542	119	85
40	71	100	92	1.3	14,975	53	66
41	163	4,097	4,997	30.7	5,764	1,903	2,377

**Table 7.—AREA, POPULATION, EMPLOYMENT, AND HOUSING UNITS, FOR OAHU,
BY CENSUS TRACTS: 1970 TO 1976 (continued)**

Census tract	Land area ¹ (acres)	Resident population		Persons per acre, 1976 ²	Employment (by place of work), 1974 ³	Housing units	
		April 1, 1970	July 1, 1976 ²			April 1, 1970 ⁴	July 1, 1976 ²
Honolulu con.:							
42	58	1,162	2,876	49.6	515	642	1,548
43	327	5,628	6,525	20.0	566	1,970	2,414
44	822	6,142	5,686	6.9	257	1,466	1,506
45	1,924	4,780	4,928	2.6	103	1,387	1,535
46	1,708	4,377	4,100	2.4	360	1,170	1,196
47	327	5,500	5,352	16.4	875	1,481	1,524
48	863	6,608	6,053	7.0	720	1,734	1,751
49	101	3,292	2,971	29.4	309	994	984
50	134	3,973	3,707	27.7	1,544	1,264	1,309
51	45	—	—	0	463	—	—
52	44	1,405	1,367	31.1	1,750	974	960
53	87	482	2,713	31.2	720	468	1,710
54	20	1,862	1,437	71.9	154	364	364
55	53	1,975	1,958	36.9	154	545	611
56	231	5,768	4,893	21.2	926	1,434	1,364
57	1,033	2,749	2,472	2.4	9,057	1,028	996
58	126	3,163	3,901	31.0	1,492	969	1,169
59	520	4,449	3,742	7.2	7,153	1,231	1,190
60	179	6,711	5,751	32.1	978	1,698	1,651
61	114	3,262	2,896	25.4	412	739	766
62	153	6,818	6,145	40.2	720	1,603	1,606
63	293	6,796	5,854	20.0	669	1,372	1,372
64	440	6,680	5,818	13.2	—	1,422	1,436
65	2,802	4,011	3,644	1.3	—	904	921
66	1,423	3,424	4,058	2.9	3,808	679	714
67	4,856	9,819	10,424	2.1	2,110	2,387	2,569
68	1,714	7,500	11,726	6.8	8,903	1,908	3,572
69	256	3,694	5,944	23.2	412	1,235	1,324
70	700	4,899	3,306	4.7	1,132	1,304	1,017
71	266	1,402	1,781	6.7	309	370	594
72	3,074	3,864	2,730	0.9	14,872	634	494
114 ⁵	1,798	31	43	0.02	—	—	—
Rest of Oahu	326,755	305,657	362,456	1.1	97,929	71,553	91,008
73	1,465	10,564	12,163	8.3	10,343	1,557	1,958
74	1,180	9,086	9,810	8.3	18,320	756	745
75	5,903	11,424	10,834	1.8	2,264	2,506	2,561
76	163	2,934	3,265	20.0	103	727	811
77	2,199	9,632	10,120	4.6	2,007	2,347	2,679
78	9,162	5,695	10,831	1.2	3,448	1,740	2,837
79	647	762	617	1.0	257	2	—
80	4,851	24,329	27,655	5.7	4,271	5,821	7,041
81	1,061	3,535	3,785	3.6	412	614	703
82	1,780	—	—	0	51	—	—

Table 7.—AREA, POPULATION, EMPLOYMENT, AND HOUSING UNITS, FOR OAHU, BY CENSUS TRACTS: 1970 TO 1976 (continued)

Census tract	Land area ¹ (acres)	Resident population		Persons per acre, 1976 ²	Employment (by place of work), 1974 ³	Housing units	
		April 1, 1970	July 1, 1976 ²			April 1, 1970 ⁴	July 1, 1976 ²
Rest of Oahu, con..							
83	3,172	4,759	10,629	3.4	1,595	1,200	2,687
84	4,211	7,801	7,663	1.8	978	1,932	2,002
85	3,671	3,187	3,910	1.1	3,962	574	854
86	32,063	8,340	10,529	0.3	2,882	2,016	2,805
87	962	12,705	13,224	13.7	3,036	3,080	3,587
88	688	3,429	3,684	5.4	978	806	950
89	32,783	14,117	28,611	0.9	4,168	3,778	7,943
90	7,705	2,783	3,283	0.4	1,698	498	692
91	8,276	3,410	2,938	0.4	1,389	614	731
92	754	6,637	6,452	8.6	669	1,736	1,794
93	304	4,875	4,920	16.2	2,007	1,469	1,589
94	414	6,048	6,671	16.1	412	1,778	2,054
95	8,039	13,576	17,598	2.2	10,189	2,547	3,083
96	16,965	13,654	12,607	0.7	1,853	2,856	3,162
97	7,667	6,020	8,894	1.2	1,647	1,565	2,610
98	13,877	4,403	5,756	0.4	1,081	1,212	1,618
99	32,415	7,346	8,107	0.3	1,595	2,045	2,366
100	47,119	1,825	1,862	0.04	51	515	541
101	19,379	3,497	4,599	0.2	1,081	1,117	1,429
102	24,014	7,065	8,302	0.3	566	1,769	2,241
103	17,225	10,909	14,690	0.9	515	2,809	3,994
104	277	618	281	1.0	257	7	—
105	1,450	12,494	14,123	9.7	1,544	3,065	3,721
106	790	8,332	8,151	10.3	566	2,005	2,124
107	1,488	6,086	6,692	4.5	206	1,682	2,041
108	2,718	7,860	9,839	3.6	3,499	1,212	1,881
109	1,115	14,622	14,287	12.8	1,647	3,773	3,913
110	7,345	3,957	4,290	0.6	772	953	1,079
111	2,479	13,355	15,604	6.3	3,654	3,281	4,007
112	864	7,209	7,569	8.8	978	2,101	2,193
113	7,115	6,777	7,611	1.1	978	1,488	1,982

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, 1970-1976* (Report CTC-36, 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 8.—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 Honoipu 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 man-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 9.—ILLUSTRATIVE PROJECTIONS OF TOTAL RESIDENT POPULATION: 1970 TO 2020
(Data include armed forces stationed in Hawaii but exclude visitors present.)

Series, ¹ age, and county	1970 ²	1980	1985	1990	1995	2000	2010	2020
TOTAL POPULATION								
D-2 ³	769,913	932,900	1,036,300	1,150,100	1,270,900	1,400,500	1,722,800	2,151,800
E-2 ⁴	769,913	930,000	1,027,600	1,131,700	1,238,700	1,349,200	1,606,100	1,927,400
E-1 ⁵	769,913	926,900	1,017,400	1,109,200	1,197,800	1,282,600	1,461,500	1,660,000
F-0 ⁶	769,913	845,600	882,900	913,700	935,000	946,900	960,000	967,300
AGE (E-2)⁴								
Under 5 years	70,951	85,300	96,900	104,400	107,600	111,500	133,000	159,200
5 to 9 years	80,008	76,200	89,000	101,400	109,800	114,000	128,500	157,000
10 to 14 years	79,971	76,000	79,500	92,600	106,000	115,200	126,300	151,600
15 to 19 years	71,993	84,400	78,900	82,900	96,500	110,500	126,100	144,300
20 to 24 years	81,732	108,300	111,900	107,500	112,700	127,500	154,200	170,200
25 to 34 years	107,314	155,800	184,100	200,200	201,600	204,600	259,500	310,800
35 to 44 years	95,727	105,500	128,000	155,700	184,600	201,800	209,200	267,000
45 to 54 years	84,418	90,000	87,300	101,100	123,500	151,100	197,300	207,200
55 to 64 years	53,816	77,700	85,800	83,800	81,700	94,600	141,000	184,100
65 to 74 years	29,543	46,600	56,400	66,300	72,500	70,300	79,000	117,200
75 years and over	14,440	24,300	29,900	36,000	42,300	48,100	52,100	58,800
COUNTIES (E-2)⁴								
City & Co. of Honolulu ...	630,528	749,500	818,700	891,000	965,000	1,039,400	1,221,200	1,436,000
County of Hawaii	63,468	83,800	97,700	113,400	130,000	146,900	185,700	240,700
County of Kauai	29,761	36,700	41,300	46,100	50,700	55,400	64,400	76,500
County of Maui	46,156	60,100	69,900	81,200	93,000	107,600	134,700	174,200

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

² Census count, as revised.

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

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

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

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

Source: Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1958-2025* (Statistical Report 114, May 5, 1976), pp. 24-26 and 35.

Table 10.—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 10.—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 11.—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.

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 12.—ETHNIC STOCK: 1853 TO 1970

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

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 13.—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 ¹
	Number	Percent			
All groups	827,399	100.0	33,846	73,239	720,314
CENSUS DEFINITION ²					
White	279,128	33.7	26,267	54,963	197,898
Hawaiian	98,177	11.9	745	2,441	94,991
Negro	9,416	1.1	2,247	4,084	3,085
Chinese	47,482	5.7	112	450	46,920
Filipino	109,127	13.2	2,233	5,366	101,528
Japanese	235,257	28.4	849	2,204	232,204
American Indian	1,893	0.2	266	281	1,346
Korean	13,048	1.6	65	754	12,229
Other and unknown	33,871	4.1	1,062	2,696	30,113
HEALTH SURVEY DEFINITION					
Unmixed	615,784	74.4	31,643	62,367	521,774
Caucasian	230,080	27.8	25,545	49,720	154,815
Japanese	219,823	26.6	716	1,727	217,380
Hawaiian	10,933	1.3	104	210	10,619
Filipino	83,790	10.1	2,052	4,400	77,338
Chinese	35,861	4.3	42	286	35,533
Korean	10,731	1.3	65	657	10,009
Samoaan	4,460	0.5	252	351	3,857
Negro	7,637	0.9	2,108	3,593	1,936
Puerto Rican	3,184	0.4	204	260	2,720
Other and unknown	9,285	1.1	555	1,163	7,567
Mixed	211,612	25.6	2,203	10,872	198,537
Part Hawaiian	135,287	16.4	842	3,424	131,021
Non Hawaiian	76,325	9.2	1,361	7,448	67,516

¹ Includes 45,504 persons for whom information on military status was not obtained.

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

Source: Hawaii State Department of Health, survey data cited in the Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1976* (Statistical Report 119, April 2, 1977), table 5.

Table 14.—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 15.—CITIZENSHIP: SPRING 1976

(Excludes persons in institutions or military barracks or on Niihau. Based on a sample survey of 38,810 persons.)

Island, age, and sex	All categories	U.S. citizens		U.S. nationals	Aliens	Status not reported
		Native born	Naturalized			
Total	827,399	724,695	38,670	2,692	60,809	532
Percent	100.0	87.6	4.7	0.3	7.3	0.1
ISLAND						
Hawaii	66,898	60,446	3,062	72	3,222	95
Maui	46,285	40,283	2,203	—	3,799	—
Lanai	1,566	1,080	180	—	306	—
Molokai	5,076	4,302	324	—	450	—
Oahu	674,226	589,384	31,353	2,620	50,431	437
Kauai	33,349	29,200	1,548	—	2,600	—
AGE						
Under 20 years	285,773	270,111	3,322	932	11,288	120
20 to 39 years	276,283	240,016	11,380	1,313	23,439	134
40 to 59 years	175,564	152,519	11,653	297	11,003	91
60 to 79 years	73,138	51,576	10,280	131	11,066	86
80 years and over	7,183	2,427	1,616	—	3,101	39
Age not reported	9,459	8,046	419	19	912	62
SEX						
Male	416,440	369,416	19,575	1,062	26,057	330
Female	410,636	355,024	19,096	1,630	34,684	202

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

Table 16.—ALIEN ADDRESS CARDS RECEIVED FROM PERSONS RESIDING IN HAWAII, BY NATIONALITY: 1967 TO 1977
(Includes aliens other than permanent residents.)

Year	Total	China and Taiwan	Japan ¹	Korea	Philippines	United Kingdom	Vietnam ²	All others ³
1967	46,998	1,499	16,975	914	21,315	1,192	69	5,034
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

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

² Includes Cambodia (19 in 1977) and Laos (539) as well as Vietnam (1,837).

³ Includes Canada (1,687 in 1977), Germany (667), Western Samoa (389), Thailand (532), and Tonga (428).

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

Table 17.—MOTHER TONGUE: 1970

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

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

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

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

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

Table 18.—HOUSEHOLD AND FAMILY CHARACTERISTICS: 1960 TO 1973

Subject	1960	1970 ¹	1973
RELATIONSHIP TO HEAD OF HOUSEHOLD			
All persons	632,772	768,561	(NA)
In households	592,807	730,095	806,117
Head of household	153,064	203,088	226,461
Wife of head	112,452	147,818	(NA)
Child under 18 of head	226,103	250,208	(NA)
Other child of head	87,858	56,122	(NA)
Other relative of head		53,837	(NA)
Not related to head	13,330	19,022	(NA)
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	3.56
FAMILY CHARACTERISTICS			
Families	130,871	170,358	196,473
Husband-wife families	113,164	147,818	(NA)
Families with female head	11,842	15,871	(NA)
Other families	5,865	6,669	(NA)
Unrelated individuals	67,996	83,093	(NA)
Persons per family	4.29	3.98	3.85
Married couples	120,192	154,678	177,043
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; Hawaii State Department of Health and Department of Planning and Economic Development, *Population Characteristics of Hawaii, 1973* (Population Report, No. 5, August 1976), pp. 7-8.

Table 19.—HOUSEHOLDS: 1960 TO 1975

Subject	Number
Total households:	
July 1, 1975 (provisional)	246,000
July 1, 1974	242,000
April 1, 1970 (census)	203,088
April 1, 1960 (census)	153,064
Change, 1970 to 1975	43,000
Percent	+21.2
Average annual percent of change: ¹	
1970 to 1975	+3.7
1960 to 1970	+2.8
Husband-wife households:	
July 1, 1975 (provisional)	168,000
July 1, 1974	168,000

¹Computed by the formula for continuous compounding.

Source: U.S. Bureau of the Census, "Estimates of the Number of Households for States: July 1, 1974 and 1975," *Current Population Reports, Population Estimates and Projections*, Series P-25, No. 623, April 1976.

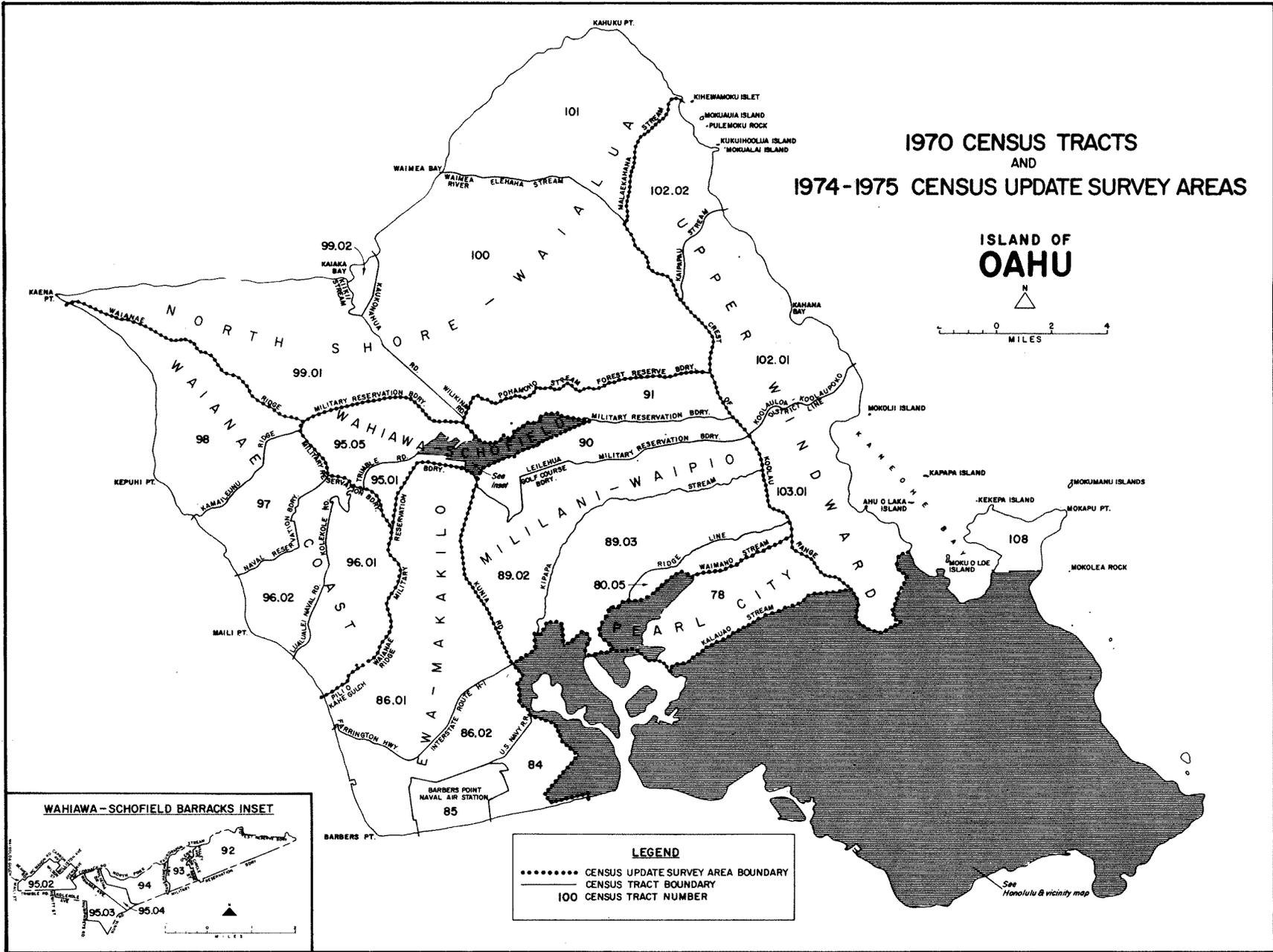
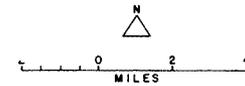
Table 20.—MARITAL STATUS, BY SEX: 1960 AND 1970

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

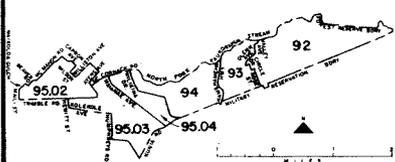
Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13B, table 18; *U.S. Census of Population: 1970*, Final Report PC(1)-B13, table 22.

1970 CENSUS TRACTS
AND
1974-1975 CENSUS UPDATE SURVEY AREAS

ISLAND OF
OAHU

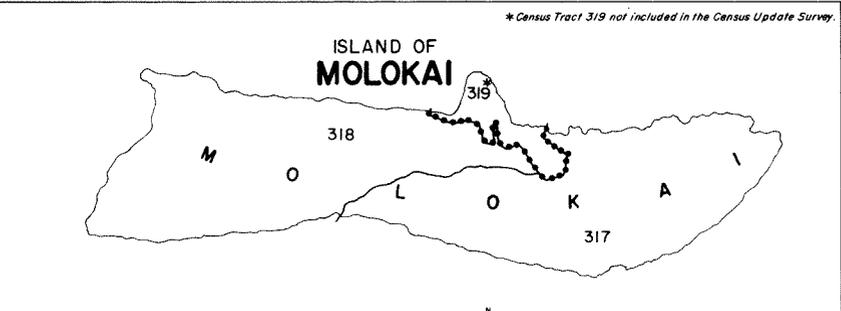
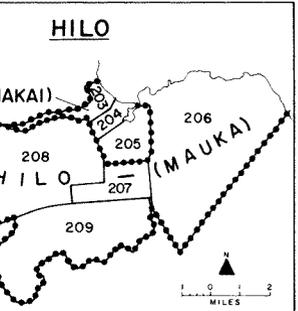
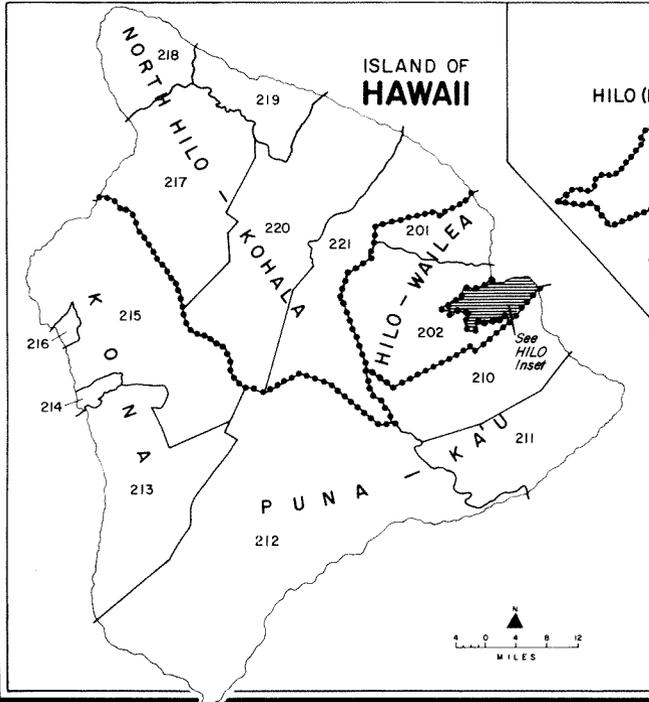
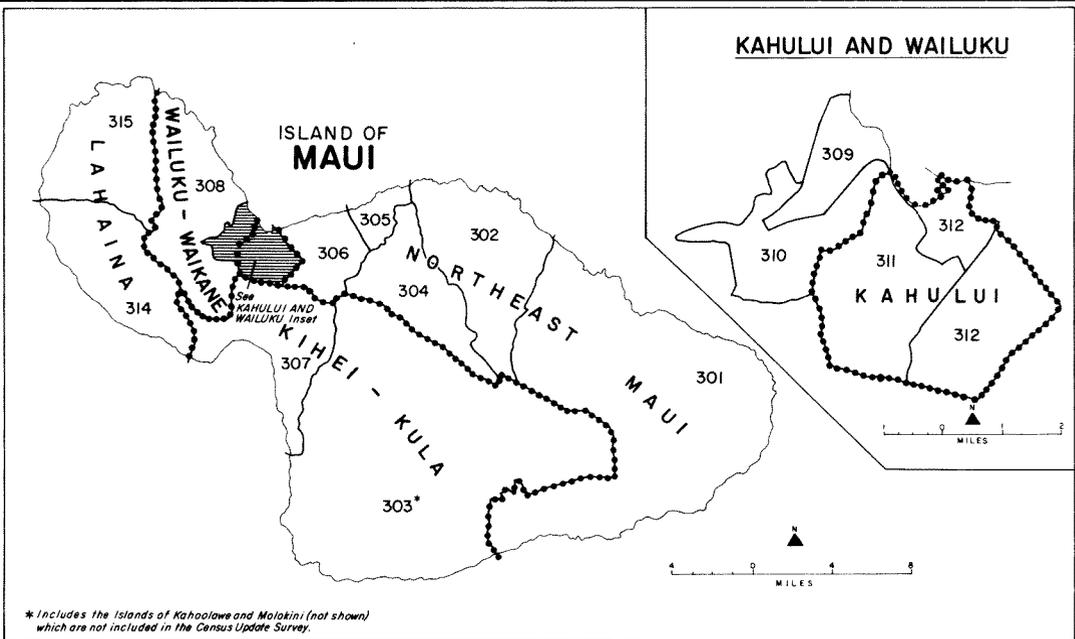
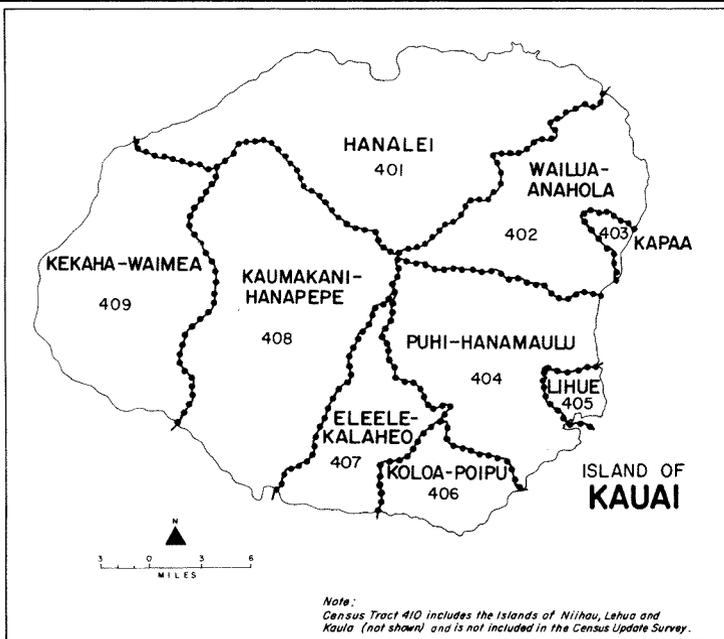


WAIUA - SCHOFIELD BARRACKS INSET



LEGEND

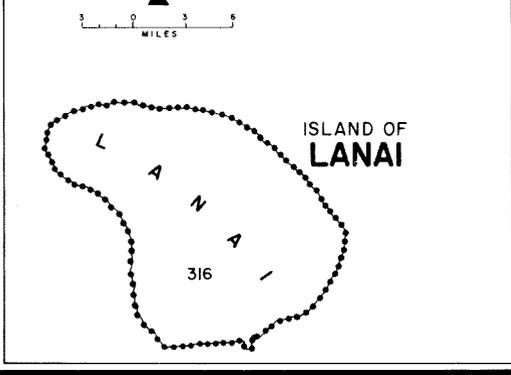
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- CENSUS TRACT BOUNDARY
- 100 CENSUS TRACT NUMBER



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

LEGEND

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



STATE OF HAWAII
DEPARTMENT OF PLANNING & ECONOMIC DEVELOPMENT
1977

Table 21. — 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-Waiialua	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 21. — 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 22.—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 23.—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
Samoan	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 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 24.—COMPONENTS OF CHANGE IN THE CIVILIAN POPULATION:
1960 TO 1970 AND 1970 TO 1976**

Subject	April 1, 1960 to March 31, 1970			April 1, 1970 to June 30, 1976		
	Civilian population	Military dependents	Not military dependents	Civilian population	Military dependents	Not military dependents
Net change	+133,937	+1,801	+132,136	+115,900	+5,100	+110,800
Natural increase	126,161	42,351	83,810	71,900	22,400	49,500
Percent	94.2	...	63.4	62.0	...	44.7
Births	163,762	43,908	119,854	97,700	23,400	74,400
Deaths	37,601	1,557	36,044	25,900	1,000	24,900
Military separations less inductions	-4,120	—	-4,120	+2,700	—	+2,700
Net migration ¹	+11,896	-40,550	+52,446	+41,200	-17,300	+58,500
Percent	8.9	...	39.7	35.6	...	52.9
In-migration ²	(NA)	(NA)	192,541	(NA)	(NA)	177,700
From U.S. mainland	(NA)	(NA)	156,025	(NA)	(NA)	133,100
Aliens	(NA)	(NA)	36,516	(NA)	(NA)	44,600
Out-migrants	(NA)	(NA)	140,095	(NA)	(NA)	119,200

NA Not available.

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

² Excludes persons moving to or from U.S. territories and possessions in the Pacific.

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, 1976* (Statistical Report 119, April 2, 1977), table 6, as revised.

**Table 25.—INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES:
1966 TO 1976**

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				
1966	32,031	9,655	5,640	16,736	1.43	67.3	23.8	34.3
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

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 26.—IMMIGRANTS ADMITTED AND PERSONS NATURALIZED: 1966 TO 1976

Years ended June 30	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 ¹	
1966	3,070	273	322	344	(²)	1,352	779	1,625
1967	3,825	135	327	382	(²)	2,147	834	1,902
1968 ³	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	7,083	110	631	556	1,515	3,222	1,049	3,130

¹ Includes nonrefugee Vietnamese (196 in 1975 and 341 in 1976) but excludes approximately 2,000 refugee Vietnamese who arrived in 1975 but were still in parole status as of June 30, 1976.

² Included with "other countries."

³ Data for Korea and Japan cover only the six-month period ended December 31, 1967.

Source: U.S. Immigration and Naturalization Service, *Annual Report for 1966-1975* and records.

Table 27.—RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: SPRING 1976

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

Based on a sample survey of 38,810 persons.)

Place of residence 1 year earlier	Total	Armed forces	Military dependents	Other civilians	Status not reported
Total	827,399	33,847	73,239	674,806	45,507
Same house	619,691	17,783	41,459	559,623	827
Different house, same island	97,022	7,498	11,109	78,140	276
Different island	4,979	23	38	4,918	—
Different state	39,666	7,542	16,016	16,086	23
U.S. terr. or possession	983	23	23	937	—
Different country	10,187	960	1,475	7,513	240
Previous residence not reported	44,571	19	38	373	44,141
Under 1 year old	10,299	—	3,082	7,216	—

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

Section 2

VITAL STATISTICS AND HEALTH

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

Vital indices 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; in no other state was life expectancy so great. The crude death rate in 1976 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 11.3 in 1976. Diseases of the heart have accounted for a third of all deaths in recent years; cancer, for one-fifth. The 1976 crude birth rate was 18.4, compared with 30.2 two decades earlier. Over 99 percent of all babies were born in hospitals in 1975, and a fourth were born to military couples. One out of eight births was illegitimate. There were 5,972 fetal deaths in 1975, including 4,316 elective abortions. Marriages numbered 9,740 in 1976, with about 15 percent accounted for by nonresidents. Divorces reached a 1976 total of 4,700. The State had 25 acute care civilian hospitals (with 2,321 beds) and 244 care homes (with 1,586 beds) when most recently surveyed. State licensing boards listed 2,721 physicians and surgeons, 779 dentists, 6,643 professional nurses, and 489 pharmacists in 1977. Acute conditions per 100 persons averaged 221 per year in 1972-1974, with upper respiratory conditions the most common complaint (at 98 cases per 100 persons). Among chronic conditions reported in the 1972-1974 survey data, the most frequently mentioned were high blood pressure without heart involvement (4.9 per 100 persons), hay fever (4.7), and asthma (3.7). The most common communicable disease reported to authorities in 1975 was scarlet fever, with 6,482 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. Section 2 of the *Statistical Abstract of the United States: 1976* contains similar data for the nation as a whole.

Table 28.—BIRTHS AND DEATHS: 1966 TO 1976
(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
1966	14,943	3,839	21.0	5.4	83.9	11.5	18.9
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	16,330	4,720	18.4	5.3	(NA)	(NA)	11.3

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 1973-1975, and records.

Table 29.—BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1975 AND 1976
(Place of occurrence basis)

Military status	De facto population		Live births		Deaths		Birth rate ¹		Death rate ¹	
	1975	1976 ²	1975	1976 ²	1975	1976 ²	1975	1976 ²	1975	1976 ²
Total population	928,244	955,761	15,766	16,330	4,572	4,720	17.0	17.1	4.9	4.9
Armed forces	58,762	55,986	—	—	83	66	0	0	1.4	1.2
Civilians	869,482	899,775	15,766	16,330	4,489	4,654	18.1	18.1	5.2	5.2
Military dependents ...	63,706	66,957	3,821	3,722	153	161	60.0	55.6	2.4	2.4
Other civilians	805,776	832,818	11,945	12,608	4,336	4,493	14.8	15.1	5.4	5.4
Armed forces and dependents	122,468	122,943	3,821	3,722	236	227	31.2	30.3	1.9	1.8

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

² Provisional.

Source: Population from the Hawaii State Department of Planning and Economic Development, *Statistical Report* 119. Births and deaths from Hawaii State Department of Health, records.

Table 30.—CHARACTERISTICS OF BIRTHS AND DEATHS: 1965 TO 1975
(Place of residence basis)

Subject	1965	1974	1975
LIVE BIRTHS			
Number	16,228	15,472	15,689
Percent on Oahu	85.4	80.8	80.8
Males per 100 females	104.7	105.9	106.2
Percent attended by M.D. in hospital ¹	99.3	99.0	99.1
Percent with prenatal visit in first 3 months ¹	50.6	69.3	67.9
Percent of mixed race ^{1,2}	39.8	43.2	43.2
Median age of mother (years) ¹	25.3	25.1	25.2
Percent first births to mother ¹	28.6	37.1	36.4
Median weight of single births (grams) ¹	3,175	3,210	3,256
Percent of births plural ¹	1.8	1.5	2.0
Percent of births premature (under 2,500 grams) ¹	8.9	7.1	7.8
Percent with one or more congenital malformations ¹	0.8	1.4	1.0
DEATHS			
Number	3,629	4,286	4,272
Percent on Oahu	73.5	74.6	73.1
Males per 100 females	161.3	157.0	160.8
Median age (years)	64.2	66.7	67.8
Disposition (percent): Burial ³	54.3	49.2	49.4
Cremation ³	37.9	37.6	38.4
Removal ³	7.5	12.4	11.5
Other ³	0.2	0.8	0.7
INFANT AND FETAL DEATHS¹			
Infant deaths, under 1 year	349	236	201
Infant deaths per 1,000 live births:			
Under 1 day	10.0	7.5	5.5
Under 1 week	15.0	10.3	8.1
Under 1 month	16.1	11.4	9.4
Under 1 year	21.5	15.3	12.8
Fetal deaths, total	1,070	5,764	5,792
Per 1,000 deliveries	62	271	270
Fetal deaths, 20 or more weeks gestation	234	299	292
Elective abortions	45	4,158	4,316
Per 1,000 live births	3	269	275

¹ Data for 1965 on place of occurrence basis.

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

³ Data for 1965 on place of occurrence basis, and limited to civilian deaths.

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

Table 31.—CAUSE OF DEATH: 1935, 1965 AND 1975
(Place of residence basis. Includes armed forces.)

Cause of death ¹	Number, 1975	Percent distribution			Rate per 100,000 population		
		1975	1965	1935	1975	1965	1935
All causes	4,272	100.0	100.0	100.0	493.9	510.4	848.6
Diseases of the heart	1,395	32.6	34.4	13.0	161.3	175.8	109.9
Malignant neoplasms	929	21.7	20.7	7.9	107.4	105.6	67.2
Cerebrovascular diseases	387	9.1	8.6	5.2	44.7	44.0	44.1
All accidents	247	5.8	7.0	7.6	28.6	35.7	64.4
Influenza and pneumonia	160	3.7	3.3	10.3	18.5	17.1	87.3
Diabetes mellitus	134	3.1	3.1	1.9	15.5	15.6	15.9
Certain causes in early infancy	106	2.5	6.3	6.9	12.3	32.3	58.5
Suicide	73	1.7	1.5	1.9	8.4	7.4	16.4
Cirrhosis of liver	67	1.6	1.3	1.2	7.8	6.8	9.8
Homicide	63	1.5	0.7	0.9	7.3	3.4	8.0
Congenital anomalies	51	1.2	2.2	1.7	5.9	10.9	14.6
Symptoms and ill-defined conditions	51	1.2	0.3	0.5	5.9	1.7	4.6
Other diseases of arteries	47	1.1	1.0	0.3	5.4	5.0	2.6
Bronchitis, emphysema and asthma	46	1.1	2.2	0.9	5.3	11.2	8.0
Other external causes	41	1.0	0.0	—	4.7	0.1	—
All other causes	475	11.1	7.4	39.8	54.9	37.8	337.3

¹ The leading causes of death in 1975, listed in order of deaths for that year.
Source: *Statistical Report, Department of Health, State of Hawaii, 1975*, p. 24.

Table 32.—ACCIDENTS AND NATURAL DISASTERS CAUSING FIVE OR MORE DEATHS: 1779 TO 1976

Category or year	All disasters		Worst disaster	
	Number	Deaths	Year or category	Deaths
All categories, 1779-1976	132	5,789	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	106	2,133	1830	250
Marine	54	1,531	1830	250
Air	44	557	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

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" (typescript filed in Hawaiian Historical Society Library, September 21, 1976), as updated to December 31, 1976.

**Table 33.—AVERAGE LIFETIME IN YEARS, BY SEX: 1959-1961
AND 1969-1971**

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

NA Not available.

¹Among 50 States and D.C.

²Data 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.

Table 34.—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 35.—HOSPITAL FACILITIES AND USE: 1974 AND 1975

Subject	Hospitals ¹		Care homes	
	1974	1975	1974	1975
Number of institutions	25	25	215	244
Beds	2,399	2,321	1,460	1,586
Bassinets	307	299	—	—
Percent occupancy	66.0	66.3	—	—
Average patient occupancy	1,583	1,539	—	—
Patient days	562,036	564,449	—	—
Patients admitted	96,576	95,459	—	—
Average stay (days)	5.8	5.9	—	—

¹ Limited to acute care civilian hospitals. Excludes Tripler Army Medical Center (588 operating beds, daily average of 457 occupied beds, and 21,206 annual admissions exclusive of newborns during the year ended June 30, 1975).

Source: *Statistical Report, Department of Health* for 1974 (p. 105) and 1975 (p. 118); Tripler Army Medical Center, records.

Table 36.—BEDS IN HOSPITALS AND CARE HOMES, BY TYPE AND ISLAND: 1975

Type of facility and bed	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
HOSPITALS¹							
All beds	2,321	270	153	8	25	1,735	130
General or acute	2,017	270	153	8	25	1,431	130
Matern-gyn	128	—	—	—	—	128	—
Pediatric	81	—	—	—	—	81	—
Orthopedic	40	—	—	—	—	40	—
Rehabilitation	55	—	—	—	—	55	—
CARE HOMES							
All types	1,586	92	36	—	42	1,323	93
Residential	741	58	—	—	34	619	30
Family	845	34	36	—	8	704	63

¹ Limited to acute care civilian hospitals. Excludes Tripler Army Medical Center (588 beds in 1975).

Source: Hawaii State Department of Health, *Statistical Report, 1975*, p. 118.

Table 37.—SELECTED LONG-TERM CONDITIONS: 1965 TO 1975

Subject	1965	1974	1975
Hawaii State Hospital:¹			
Total admissions	465	869	894
First admissions	264	402	404
Patients present:			
Annual average	886	251	269
June 30	765	297	290
Waimano Training School and Hospital:²			
First admissions	70	37	17
Inmates present:			
Annual average	852	694	660
June 30	836	696	638
Leprosy hospitals:³			
New admissions	10	3	—
Reactivated cases	2	—	—
Deaths	2	—	1
Active patients, Dec. 31	133	13	5
Hale Mohalu	74	5	4
Kalaupapa Settlement	59	8	1
Tuberculosis:³			
New cases reported	534	899	869
Active and probably active	280	364	338
Deaths	25	3	5
Active cases remaining on Tuberculosis			
Register, Dec. 31	365	365	326

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 38.—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
Oral hygiene index score ²	0.77	0.63	17	1.23	0.37
			18	1.17	0.53

¹ Based on scores of zero for no gum disease, one for mild gum inflammation 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 39.—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 40.—ACUTE AND CHRONIC CONDITIONS: 1972-1974

Condition ¹	Conditions per 100 persons ²						Percent		
	All ages	Under 20 years	20 to 39 years	40 to 59 years	60 to 79 years	80 years and over	Talked to doctor	Required hospitalization	Limited in activity ³
All acute conditions	221	284	220	152	132	106	63.0	3.2	...
Infective parasitic diseases	15	26	12	5	3	7	86.5	1.0	...
Upper respiratory condition	98	139	86	61	58	33	47.4	0.1	...
Other respiratory condition	58	66	64	46	32	24	63.3	1.4	...
Digestive system condition	5	4	5	4	5	4	85.8	12.5	...
Injuries	23	25	24	20	17	20	83.2	8.0	...
Other acute conditions	22	23	28	16	18	18	89.2	15.8	...
All chronic conditions .....	...	...	...	...	...	...	92.7	2.9	...
High blood pressure without heart involvement	4.9	0.1	2.0	10.8	19.7	16.4	99.8	1.6	5.0
Hay fever without asthma	4.7	0.1	6.2	4.7	2.0	0.5	84.3	0.1	1.0
Asthma with or without hay fever ..	3.7	5.5	3.0	2.3	2.2	2.1	98.3	3.2	8.6
Back or spine problems	2.8	0.3	3.9	5.0	4.4	5.0	92.3	2.7	19.4
Chronic sinusitis	2.5	1.0	4.5	3.1	1.5	0.2	84.7	0.8	0.7
Allergic skin condition	2.4	2.4	2.6	2.2	2.3	2.0	94.0	2.5	2.4
Arthritis and/or rheumatism	2.4	0.1	1.1	4.5	10.8	11.7	91.9	1.6	17.8
Diabetes	2.3	0.1	1.0	4.7	10.0	8.3	99.9	2.7	5.9
Hearing impairment	2.1	0.8	1.1	3.0	7.3	7.9	87.8	1.3	5.4
Hemorrhoids	1.8	0.1	3.0	3.2	1.6	1.0	84.5	4.5	1.2

¹Acute conditions listed by broad condition group; chronic conditions, by rank for the ten most common conditions reported by the survey.

²Rates for acute conditions are annual averages for the three-year period.

³Percent of persons having specified conditions who were unable to carry on major activity, limited in amount and type of major activity or limited but not in major activity; excludes those limited in activity but not by the specified condition.

Source: "Findings from the Hawaii Health Surveillance Program, 1969-1971 and 1972-1974," in *Statistical Report, Department of Health, 1975*, pp. 56-63.

Table 41.—SPECIFIED COMMUNICABLE DISEASES: 1965 TO 1975

Disease	Cases			Deaths		
	1965	1974	1975	1965	1974	1975
All reportable diseases	17,922	12,515	14,713	53	15	28
Chickenpox	2,371	769	2,113	1	1	1
Gonorrhea	569	2,923	3,126	—	—	—
Hepatitis, infect. & serum	90	221	322	1	5	4
Influenza	1,242	584	728	2	1	3
Leprosy	21	29	30	2	—	1
Measles (Rubeola)	4,050	68	64	1	—	—
Measles, German (Rubella)	3,345	19	22	1	—	—
Mumps	592	80	60	—	—	—
Salmonellosis	522	599	543	—	—	—
Scarlet fever, other strep.	4,25	6,309	6,482	—	—	—
Syphilis	139	75	134	6	—	—
Tuberculosis	263	364	591	24	4	12
All others	466	475	498	15	4	7

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

Table 42.—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 43.—PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED
IN HAWAII: 1973-1977**

Place of residence	Physicians: May 1976		Dentists: Dec. 1976		Registered nurses: March 1973 ¹	Pharmacists: March 1973 ¹		
	Total ²	Private	Total ³	Active				
Total licensed	2,340	1,527	553	472	4,021	321		
Resident	1,546	1,108	553	472	3,405	250		
Hawaii	89	70	50	41	230	14		
Maui	76	53	} 30	23	} 173	15		
Lanai	1	1				} 21	} 7	—
Molokai	4	3						} 19	} 106	2
Oahu	1,317	937	454	393	2,868	211		
Kauai	56	44	} 15	15	} —	8		
Niihau	—	—				616	71
Nonresident	794	419	...	...	616	71

¹ Most recent available tabulation by place of residence. As of March 31, 1977, there were 6,643 licensed registered nurses and 489 licensed pharmacists, including nonresidents.

² Includes private (1,527), retired (47), military (127), governmental, teaching, and other (284), and not reported (355).

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, *Statistical Report, 1975*, p. 8; 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 44.—MARRIAGES AND DIVORCES: 1966 TO 1976
(Place of occurrence basis)

Calendar year	Marriages	Divorces and annulments ¹	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces ¹	Resident grooms	Interracial
1966	5,792	897	8.2	1.3	92.5	37.7
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	9,740	4,700	11.0	5.3	(NA)	(NA)

NA Not available.

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 1966-1975; and records.

**Table 45.—MARRIAGES, TOTAL AND INTERRACIAL, BY RACE
OF GROOM AND BRIDE: 1975**

Race	All marriages		Interracial marriages		Percent interracial	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
All races	9,673	9,673	3,828	3,828	39.6	39.6
Caucasian	4,528	4,202	1,252	926	27.6	22.0
Hawaiian	81	60	68	47	83.9	78.3
Part Hawaiian	1,328	1,425	712	809	53.6	56.7
Chinese	377	423	238	284	63.1	67.1
Filipino	994	1,018	477	501	47.9	49.2
Japanese	1,563	1,736	561	734	35.8	42.2
Puerto Rican	118	115	92	89	77.9	77.3
Korean	84	234	56	206	66.6	88.0
Samoa	163	142	75	54	46.0	38.0
Negro	255	112	159	16	62.3	14.2
Other races	182	206	138	162	75.8	78.6
Unknown	—	—	—	—	—	—

Source: *Statistical Report, Department of Health, State of Hawaii, 1975, p. 50.*

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 1976-1977 totaled 210,841, about 0.6 percent less than in the preceding year and 5.3 percent more than the 1966-1967 total. There were 227 public schools with 7,914 classroom teachers and 174,943 students (about five-sixths of the total). There were also 126 private schools with 2,107 teachers and 35,898 pupils. Students graduating from public and private high schools in 1975-1976 numbered 13,275. Some 49,964 students attended colleges and universities in the State in 1976-1977, including 21,356 on the Manoa Campus of the University of Hawaii, 139 at West Oahu College, 1,037 at Hilo College, 21,380 at seven community colleges, and 5,252 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 \$1,503 in 1975-1976. Among adults, the illiteracy rate dropped from 8.4 percent in 1950 to 1.9 percent in 1970, and by 1976 almost 22 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 2.5 million books, film reels, phonorecords, and other collections in 1976, with an annual circulation of 4.4 million; the University of Hawaii libraries in the same year counted 1.7 million volumes.

Section 4 of the *Statistical Abstract of the United States: 1976* presents comparable data for the nation as a whole.

**Table 46.—PUBLIC AND PRIVATE SCHOOLS, TEACHERS, ENROLLMENT, AND GRADUATES:
1966 TO 1976**

School year	Schools ¹		Teachers ¹		Enrollment or membership ¹			High school graduates	
	Public	Private	Public	Private	Total	Public	Private	Public	Private
1966-67	210	112	6,394	1,492	200,242	166,375	33,867	9,540	2,175
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	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	227	126	7,914	2,107	210,841	174,943	35,898	(NA)	(NA)

NA Not available.

¹ September data for 1972-1973 forward; December data for other years.

Source: Hawaii State Department of Education, records.

**Table 47.—PUPIL MEMBERSHIP FOR PUBLIC AND PRIVATE SCHOOLS:
DECEMBER 1966 AND SEPTEMBER 1976**

Island, age, and grade	December 1966			September 1976		
	Total	Public	Private ¹	Total	Public	Private ¹
Total membership	200,701	166,834	33,867	210,841	174,943	35,898
By island:						
Hawaii	18,081	16,712	1,369	19,101	17,441	1,660
Maui	10,543	8,713	1,830	12,492	10,590	1,902
Lanai	611	611	0	604	604	0
Molokai	1,407	1,370	37	1,584	1,562	22
Oahu	161,940	132,358	29,582	168,707	137,227	31,480
Kauai	8,039	6,990	1,049	8,291	7,457	834
Niihau	80	80	0	62	62	0
By age:						
Under 6 years	18,833	14,369	4,464	18,530	13,402	5,128
6 years	16,120	13,530	2,590	16,458	13,850	2,608
7 years	16,335	13,776	2,559	15,457	12,976	2,481
8 years	15,950	13,494	2,456	14,605	12,338	2,267
9 years	16,220	13,752	2,468	14,816	12,518	2,298
10 years	16,000	13,642	2,358	15,250	12,967	2,283
11 years	15,578	13,346	2,232	15,679	13,327	2,352
12 years	15,540	13,011	2,529	16,209	13,357	2,852
13 years	14,728	12,222	2,506	17,166	14,354	2,812
14 years	14,553	11,991	2,562	17,292	14,516	2,776
15 years	13,457	11,077	2,380	16,989	14,167	2,822
16 years	12,867	10,484	2,383	16,255	13,690	2,565
17 years	11,847	9,843	2,004	13,971	11,808	2,163
18 years	1,875	1,664	211	1,734	1,469	265
19 years	435	398	37	216	181	35
20 years and over	363	235	128	214	23	191
By grade:						
Nursery	2,411	459	1,952	2,451	105	2,346
Kindergarten	16,500	14,066	2,434	15,487	12,946	2,541
1	16,937	14,243	2,694	16,353	13,695	2,658
2	16,538	13,948	2,590	15,275	12,788	2,487
3	16,010	13,569	2,441	14,170	11,905	2,265
4	16,016	13,569	2,447	14,038	11,770	2,268
5	15,781	13,462	2,319	14,486	12,253	2,233
6	15,330	13,035	2,295	15,088	12,702	2,386
7	15,235	12,723	2,512	15,822	12,915	2,907
8	14,539	12,136	2,403	16,402	13,549	2,853
9	14,261	11,785	2,476	16,890	14,105	2,785
10	13,435	11,026	2,409	16,670	13,926	2,744
11	12,405	10,142	2,263	15,508	12,953	2,555
12	11,987	9,793	2,194	14,374	12,027	2,347
Specials	3,316	2,878	438	7,827	7,304	523

¹ Private includes only those pre-schools licensed by DOE, DSSH licenses, others.
Source: Hawaii State Department of Education, records.

Table 48.—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 school and above.Source: U.S. Bureau of the Census, *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 45.**Table 49.—EXPENDITURES, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1959-1960 TO 1975-1976**

Fiscal year	Expenditures (dollars)		Cost per pupil ¹ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1959-1960	46,641,819	6,439,864	332.37	5,802	168
1964-1965	69,119,765	18,643,073	435.29	6,060	169
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

¹ Based on average daily membership.

Source: Hawaii State Department of Education, records.

Table 50.—ENROLLMENT AND DEGREES AND DIPLOMAS CONFERRED, FOR THE UNIVERSITY OF HAWAII AT MANOA, WEST OAHU COLLEGE, AND HILO COLLEGE: 1966-1967 TO 1976-1977

School year	Fall enrollment in regular credit program ¹					
	University of Hawaii at Manoa				West Oahu College ²	Hilo College ³
	Total	Under-graduate	Grad-uate	Unclass-ified ⁴		
1966-1967	14,772	10,784	2,221	1,767	—	571
1967-1968	16,564	12,228	2,597	1,739	—	618
1968-1969	17,082	12,536	2,689	1,857	—	679
1969-1970	18,474	13,625	2,993	1,856	—	864
1970-1971	21,090	15,810	3,441	1,839	—	1,184
1971-1972	22,061	16,589	3,913	1,559	—	1,297
1972-1973	22,371	17,161	4,069	1,141	—	1,446
1973-1974	22,272	16,905	4,110	1,257	—	1,702
1974-1975	21,526	16,215	4,059	1,252	—	1,860
1975-1976	21,260	15,671	4,111	1,478	—	2,087
1976-1977	21,356	15,370	4,284	1,702	139	1,837

School year	Degrees, diplomas, and certificates conferred						
	University of Hawaii at Manoa					West Oahu College ²	Hilo College: bachelor
	Associate	Bachelor	Master	Doctor	Other ⁵		
1966-1967	8	1,515	555	28	222	—	—
1967-1968	55	1,833	819	47	235	—	—
1968-1969	45	1,961	982	58	196	—	—
1969-1970	60	2,329	1,018	53	290	—	—
1970-1971	41	2,644	1,103	78	420	—	37
1971-1972	49	2,907	1,167	80	404	—	69
1972-1973	65	3,050	1,272	98	370	—	155
1973-1974	85	3,260	1,165	109	281	—	146
1974-1975	57	3,176	1,110	94	275	—	189
1975-1976	68	3,070	1,132	116	285	—	162
1976-1977	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹ Includes such special students as concurrent registrants and early admittees.

² Opened Spring 1976.

³ Includes College of Agriculture, opened Fall 1975, but excludes Hawaii Community College, which (like Hilo College and the College of Agriculture) is part of the University of Hawaii at Hilo.

⁴ Includes students with no data on student level.

⁵ Certificates in Dental Hygiene, professional diplomas, etc. Beginning with data for 1974-1975, includes first professional degrees, such as J.D. and M.D. (102 in 1975-1976).

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

**Table 51.—ENROLLMENT AND DIPLOMAS CONFERRED, FOR COMMUNITY COLLEGES:
1965-1966 TO 1976-1977**

School year	Classified and unclassified students in regular credit programs ¹								Diplomas conferred	
	Total	Hono- lulu	Kapio- lani	Lee- ward ²	Wind- ward ³	Hawaii ⁴	Kauai	Maui	Degrees ⁵	Certif- icates ⁶
1965-1966 ⁷	2,010	702	890	—	—	—	175	243	129	693
1966-1967	2,444	828	1,052	—	—	—	228	336	224	481
1967-1968	3,494	1,209	1,514	—	—	—	254	517	393	439
1968-1969	5,494	1,383	1,538	1,649	—	—	263	661	403	366
1969-1970	8,713	1,787	1,830	3,221	—	516	426	933	587	553
1970-1971	10,853	1,937	2,205	4,469	—	557	627	1,058	813	575
1971-1972	13,010	2,167	2,765	5,177	—	968	839	1,094	1,059	483
1972-1973	15,121	2,561	3,092	5,373	538	1,187	1,023	1,347	1,186	560
1973-1974	16,107	2,774	3,559	5,376	829	1,305	1,004	1,260	1,318	412
1974-1975	17,693	3,306	3,654	5,816	1,046	1,531	1,031	1,309	1,581	433
1975-1976	21,179	4,017	4,368	6,900	1,153	1,915	1,238	1,588	1,789	497
1976-1977	21,380	4,450	4,617	6,450	1,154	1,871	1,186	1,652	(NA)	(NA)

NA Not available.

¹ Fall semester enrollment. Includes early admittees and concurrent registrants.

² Opened for instruction in 1968.

³ Opened for instruction in 1972.

⁴ Hawaii Technical School transferred from the Department of Education and renamed Hawaii Community College in 1969. A college of the University of Hawaii at Hilo.

⁵ Associate in Arts and Associate in Science.

⁶ Includes certificates of achievement.

⁷ Community College system established; first year of administration of the former technical schools by the University of Hawaii.

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

**Table 52.—ENROLLMENT IN CREDIT COURSES AND EARNED DEGREES CONFERRED,
FOR PRIVATE COLLEGES: 1966-1967 TO 1976-1977**

School year	Total private college enrollment ¹	Brigham Young Univ.-Hawaii ²			Chaminade College of Honolulu		
		Fall enrollment	Degrees conferred		Fall enrollment	Degrees conferred	
			Associate	Bachelor		Associate	Bachelor
1966-1967	2,024	1,036	1	90	668	1	48
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	3,494	1,300	—	105	1,700	—	257
1972-1973	3,419	1,078	—	79	1,719	4	348
1973-1974	3,663	1,004	—	157	1,888	12	326
1974-1975	4,541	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	(NA)	(NA)	2,545	(NA)	(NA)

School year	Hawaii Loa College ³		Hawaii Pacific College		U.S.I.U.—Maunaolu Campus ⁴		
	Fall enrollment	Degrees conferred: bachelor	Fall enrollment	Degrees conferred: bachelor	Fall enrollment	Degrees conferred	
						Associate	Bachelor
1966-1967	—	—	142	2	178	(NA)	—
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	210	12	114	20	—
1972-1973	220	32	312	16	90	7	—
1973-1974	203	25	426	11	142	8	—
1974-1975	217	32	1,161	30	88	(NA)	—
1975-1976	208	25	1,012	53	—	—	—
1976-1977	229	(NA)	1,305	(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 Opened in temporary quarters in Honolulu in September 1967 and moved to permanent campus near Kaneohe in January 1971.

⁴ U.S. International University—Maunaolu Campus was called Mauna Olu College prior to July 1, 1971 and Maunaolu College until the late 1960's. 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 data for 1965-1966, 1966-1967, and 1968-1969 are spring totals. 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: 1966-1967 and 1968-1969, from *World Almanac* for 1968 and 1970; 1969-1970, 1970-1971, and 1971-1972, from *Honolulu Advertiser*, October 13, 1970 and October 27, 1972.

Table 53.—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 54.—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		Age			
		Male	Female	25 to 39 years	40 to 59 years	60 years and over	Age not rptd.
All levels	460,354	230,313	230,041	195,011	175,563	80,321	9,459
None	3,861	2,058	1,803	354	700	2,739	68
1 to 4	13,718	7,294	6,424	1,365	4,008	8,192	153
5 to 8	47,048	21,806	25,242	6,726	18,597	21,297	428
9 to 11	36,943	17,524	19,419	11,038	18,935	6,460	510
12 and equivalent	130,292	60,295	69,997	57,699	53,265	16,063	3,265
Vocational	127,983	67,888	60,095	61,570	48,808	14,745	2,860
13 to 15	20,677	10,550	10,127	12,355	5,419	2,527	376
16	45,088	23,952	21,136	25,667	13,978	4,392	1,051
17 or more	34,744	18,946	15,798	18,237	11,853	3,906	748

Source: Hawaii State Department of Health, unpublished tabulations from the Hawaii Health Surveillance Program survey.

**Table 55.—COLLECTIONS AND CIRCULATION FOR THE HAWAII STATE
AND UNIVERSITY OF HAWAII LIBRARY SYSTEMS: 1976**

System and branch or campus	Number of volumes: June 30, 1976	Other collections: June 30, 1976	Circulation: year ended June 30, 1976
Hawaii State system, total	1,665,098	843,855	4,424,434
State Library Branch ¹	306,532	355,680	487,888
Library for Handicapped	43,641	3,143	36,773
Oahu Public Library ²	796,637	244,217	2,577,318
Hawaii Public Library	231,249	68,572	651,300
Kauai Public Library	136,832	115,166	320,077
Maui Public Library	150,207	57,077	351,078
University of Hawaii system, total ..	1,683,965	...	601,010
UH at Manoa	1,434,970	...	430,689
West Oahu College	532	...	(NA)
UH at Hilo ³	85,835	...	36,104
Community colleges, total ⁴	162,628	...	134,217
Honolulu	28,764	...	26,420
Kapiolani	24,698	...	7,232
Leeward	46,331	...	47,527
Windward	14,719	...	10,153
Kauai	19,285	...	13,282
Maui	28,831	...	29,603

NA Not available.

¹ Main branch, 478 South King Street, Honolulu.

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

³ Includes Hilo College and Hawaii Community College.

⁴ Excludes Hawaii Community College.

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

Section 4

LAW ENFORCEMENT, COURTS, AND CORRECTIONS

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

Major offenses reported to the police in 1976 numbered 55,603, or twice as many as in 1967. The rate per 1,000 population has increased from 35 in 1966 to 63 in 1976. More than 81 percent of the 1976 total occurred on Oahu. For the State as a whole, major offenses known to police in 1976 included 55 murders, 134 cases of negligent manslaughter, 194 rapes, 1,152 robberies, 564 aggravated assaults, 16,463 burglaries, 32,232 cases of larceny, and 4,809 auto thefts. The value of property reported stolen on Oahu alone in 1976 exceeded \$14 million; only 9.5 percent was recovered. For the State as a whole, 27.5 percent of the major offenses and 73.1 percent of the minor offenses were cleared by arrest or otherwise in 1976. Fifty-six percent of the persons arrested for major crimes and 23 percent of those arrested for lesser offenses on Oahu in 1976 were less than eighteen years of age. More than one-third of the arrested juveniles were counseled and released, and only a small number were committed to the State Youth Correctional Facility. Inmates of the nine State and County correctional institutions averaged 549 during 1976; new commitments numbered about 2,500. The State Supreme Court, five circuit courts, and twenty-seven lower courts handled 623,000 cases in fiscal 1976, almost double the case load a decade earlier. Filings in the Federal District Court included 442 civil cases, 145 criminal cases, and 518 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: 1976*, Section 5.

**Table 56.—ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY:
1966 TO 1976**

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate ¹				
1966	24,865	3,501	22,689	816	506	854
1967	27,221	3,767	24,847	919	649	806
1968	34,295	4,669	31,044	1,297	730	1,224
1969	36,109	4,813	32,636	1,406	779	1,288
1970	41,201	5,322	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	6,271	45,307	3,918	2,172	4,206

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

Table 57.—ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1966 TO 1976

Year	Total Part I offenses	Murder; non-negligent manslaughter	Manslaughter (negligent)	Rape	Robbery	Aggravated assault	Burglary	Larceny					Auto theft
								Over \$200	\$100-\$200	\$50-\$100	\$5-\$50	Under \$5	
1966	22,689	18	15	30	151	46	7,440	1,518		11,230			2,241
1967	24,847	17	20	33	144	77	7,857	1,673		12,138			2,888
1968	31,044	19	11	52	167	130	9,776	2,214		14,863			3,812
1969	32,636	23	22	82	272	124	9,417	2,728		15,848			4,120
1970	36,779	25	3	85	473	219	10,252	3,568		17,913			4,241
1971	37,459	31	46	124	715	341	9,599	9,426		12,923			4,254
1972	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	356	13,509	4,943	7,034		9,861	3,955	4,264

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

Table 58.—PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1966 TO 1976

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	
1966	4,402	19	4,071	2,328	460	1,283
1967	3,917	16	4,363	2,497	631	1,235
1968	6,028	19	5,841	3,380	907	1,554
1969	6,393	20	6,217	3,340	1,030	1,847
1970	6,437	18	6,405	2,899	995	2,511
1971	8,325	22	6,730	2,770	979	2,981
1972	10,028	32	5,954	2,406	1,035	2,513
1973	8,721	25	6,558	2,623	1,005	2,930
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

¹ Major (Part I) offenses cleared by arrest or otherwise, including prior years offenses.
 Source: Honolulu Police Department, *Statistical Report* (annual).

Table 59.—ACTUAL OFFENSES KNOWN TO POLICE, BY TYPE OF OFFENSE, FOR COUNTIES: 1976

Classification of offense	State totals		City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
	Number	Rate ¹				
All offenses	117,617	12,306	94,489	8,056	4,417	10,655
Part I offenses	55,603	5,817	45,307	3,918	2,172	4,206
1A Murder; non-neg. mansl't'r	55	6	40	6	1	8
1B Negligent manslaughter	134	14	111	14	3	6
2 Rape	194	20	150	16	12	16
3 Robbery	1,152	121	1,084	35	14	19
4 Aggravated assault	564	59	356	84	72	52
5 Burglary	16,463	1,722	13,509	1,101	736	1,117
6 Larceny	32,232	3,372	25,793	2,493	1,245	2,701
Over \$200	(NA)	(NA)	4,943	(NA)	(NA)	558
\$50-\$200	(NA)	(NA)	7,034	(NA)	(NA)	} 2,143
\$5-\$50	(NA)	(NA)	9,861	(NA)	(NA)	
Under \$5	(NA)	(NA)	3,955	(NA)	(NA)	
7 Auto theft	4,809	503	4,264	169	89	287
Part II offenses ²	62,014	6,488	49,182	4,138	2,245	6,449
8 Other assaults	6,942	726	5,182	551	593	616
9 Arson	287	30	233	37	17	—
10 Forgery; counterfeit	470	49	347	44	20	59
11 Fraud	1,529	160	959	232	114	224
12 Embezzlement	75	8	17	4	—	54
13 Receiving stolen prop.	94	10	53	18	—	23
14 Vandalism	9,546	999	7,361	792	506	887
15 Weapons	659	69	516	92	17	34
16 Prostitution	380	40	377	3	—	—
17 Sex offenses	491	51	401	37	29	24
18 Narcotic drug laws	2,956	309	1,432	759	286	479
19 Gambling	482	50	455	7	13	7
20 Offenses against family	157	16	123	19	4	11
21 Driving intoxicated	2,234	234	1,680	262	69	223
22 Liquor laws	308	32	183	46	2	77
24 Disorderly conduct	3,246	340	2,750	244	45	207
26 All other offenses	32,158	3,365	27,113	991	530	3,524

NA Not available

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 60.—OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR COUNTIES: 1976
(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	60,627	51.5	50,562	3,481	1,336	5,248
Part I offenses	15,303	27.5	12,747	1,077	460	1,019
1A Murder; non-neg. mansl't'r	42	76.4	31	4	1	6
1B Negligent manslaughter	71	53.0	58	6	2	5
2 Rape	121	62.4	89	12	10	10
3 Robbery	467	40.5	435	19	5	8
4 Aggravated assault	369	65.4	215	65	42	47
5 Burglary	5,237	31.8	4,561	267	103	306
6 Larceny	7,834	24.3	6,389	642	247	556
Over \$200	(NA)	(NA)	961	(NA)	(NA)	59
\$50-\$200	(NA)	(NA)	913	(NA)	(NA)	} 497
\$5-\$50	(NA)	(NA)	2,738	(NA)	(NA)	
Under \$5	(NA)	(NA)	1,777	(NA)	(NA)	
7 Auto theft	1,162	24.2	969	62	50	81
Part II offenses ¹	45,324	73.1	37,815	2,404	876	4,229
8 Other assaults	4,992	71.9	3,743	440	268	541
9 Arson	47	16.4	38	4	5	—
10 Forgery; counterfeit	309	65.7	171	105	10	23
11 Fraud	1,004	65.7	601	136	75	192
12 Embezzlement	75	100.0	19	3	—	53
13 Receiving stolen prop.	84	89.4	51	10	—	23
14 Vandalism	1,490	15.6	1,081	163	58	188
15 Weapons	578	87.7	456	75	15	32
16 Prostitution	354	93.2	351	3	—	—
17 Sex offenses	227	46.2	178	18	12	19
18 Narcotic drug laws	1,920	65.0	1,126	369	59	366
19 Gambling	563	116.8	543	4	12	4
20 Offenses against family	128	81.5	100	13	4	11
21 Driving intoxicated	2,216	99.2	1,662	262	69	223
22 Liquor laws	298	96.8	179	44	2	73
24 Disorderly conduct	2,902	89.4	2,619	56	31	196
26 All other offenses	28,137	87.5	24,897	699	256	2,285

NA Not available.

¹ Excludes drunkenness, no longer a criminal offense, and all traffic offenses.

Source: County police departments, records.

**Table 61.—JUVENILES AND ADULTS ARRESTED, BY SEX AND DISPOSITION,
FOR OAHU: 1975 AND 1976**

Age group, sex, and disposition ¹	Part I offenses		Part II offenses	
	1975	1976	1975	1976
JUVENILES UNDER 18 YEARS				
Juveniles arrested	4,320	4,963	4,164	3,774
Male	3,186	3,647	2,838	2,506
Female	1,134	1,316	1,326	1,268
Released without charges	772	899	298	288
Counseled and released	1,709	2,163	1,027	880
Referred to social agency	—	1	105	112
Referred to Family Court	1,753	1,885	2,724	2,472
ADULTS, 18 YEARS AND OVER				
Adults arrested	3,376	3,952	12,419	12,737
Male	2,271	2,757	10,640	10,909
Female	1,105	1,195	1,779	1,828
Released	900	931	804	776
Charged	2,476	3,021	11,615	11,961
Disposition by court	2,414	1,965	8,713	7,222
Convicted	1,035	659	5,594	4,909
Fine	651	312	4,536	4,003
Jail	107	94	245	174
Probation, suspended sentence .	277	251	795	710
Other convictions	—	2	18	22
Bail forfeitures	147	128	601	468
Discharged	1,135	1,110	1,978	1,473
Stricken, nolle prosequi	97	68	540	372
Disposition not reported	62	1,056	2,902	4,739

¹ Data on disposition do not represent the actual specific disposition of each case, and should not be relied upon for accuracy.

Source: Honolulu Police Department, *Statistical Report* for 1975 and 1976.

Table 62.—VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED (EXCLUSIVE OF AUTOMOBILES), FOR THE CITY AND COUNTY OF HONOLULU: 1966 TO 1976

Year	Value of property reported stolen (\$1,000)	Value of stolen property recovered (\$1,000)	Percent recovered
1966	2,108.2	103.1	4.9
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

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

Table 63.—FEDERAL DISTRICT COURT CASES: 1966 TO 1976

Year ended June 30	Civil cases		Criminal cases		Bankruptcy				
	Filings	Terminations	Filings (incl. transfers)	Terminations	Commenced				Terminated
					Total	Voluntary		Involuntary	
						Business ¹	Nonbusiness		
1966	169	122	109	117	361	22	337	2	319
1967	155	105	83	79	420	32	384	4	347
1968	149	202	81	82	436	22	413	1	307
1969	161	177	114	103	319	14	301	4	460
1970	192	156	193	138	374	18	355	1	404
1971	139	175	161	177	384	20	362	2	402
1972	217	187	183	161	389	32	354	3	361
1973	264	238	195	168	371	46	321	4	376
1974	313	251	167	171	415	38	377	—	398
1975	382	261	160	160	549	56	490	3	472
1976	442	288	145	178	518	103	411	4	616

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

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

Table 64.—STATE JUDICIARY CASELOAD: 1971 TO 1976
(Terminations for years ended June 30)

Court and type of case	1971	1972	1973	1974	1975	1976
All courts, total	484,860	547,590	567,514	592,973	604,176	623,453
Supreme Court	375	315	347	383	405	520
Civil cases	91	72	91	88	69	97
Criminal cases	21	32	39	46	65	50
Other proceedings	263	211	217	249	271	373
Circuit Courts proper	9,211	8,553	9,323	7,686	9,334	8,094
Civil cases	3,312	3,229	3,029	2,575	3,870	3,462
Criminal cases	1,680	2,081	2,318	1,827	2,097	1,638
Felonies or Part I ¹	1,177	757	879	741	885	654
Misdemeanors or Part II ²	503	1,324	1,439	1,086	1,212	984
Other proceedings	4,219	3,243	3,976	3,284	3,367	2,994
Family Courts	21,137	17,215	17,716	16,310	17,015	17,256
Civil cases	6,913	5,787	6,476	7,074	6,624	7,396
Criminal cases	25	12	19	21	31	45
Other proceedings	14,199	11,416	11,221	9,215	10,360	9,815
District Courts	454,137	521,507	540,128	568,594	577,422	597,583
Civil cases .....	...	14,143	13,888	12,831	12,232	10,953
Traffic cases .....	...	480,286	499,389	520,964	524,345	545,340
Other violations .....	...	13,952	14,796	17,667	20,733	24,881
Criminal cases .....	...	13,126	12,055	17,132	20,112	16,409
Part I .....	...	2,576	2,246	3,005	3,781	2,515
Part II .....	...	10,550	9,809	14,127	16,331	13,894
Other proceedings .....	...	—	—	—	—	—

¹ Felonies for 1971 and Part I offenses thereafter.

² Misdemeanors for 1971 and Part II offenses thereafter.

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

Table 65.—STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1976
(Year ended June 30)

Court and type of action	Number	Court and type of action	Number
Supreme Court, total	640	District Courts, total	603,038
Primary cases	265	Civil	11,633
Appeals	253	Regular	10,245
Original proceedings	12	Small claims	1,388
Supplemental proceedings	375	Traffic	549,317
Circuit Court Proper, total	9,769	Moving—arrest and citation	145,819
Primary proceedings	9,051	Non-moving	48,612
Civil actions	4,204	Parking	354,886
Probate proceedings	1,714	Other violations	25,070
Guardianship proceedings	427	Criminal actions	17,018
Miscellaneous proceedings	718	Part I offenses	2,809
Criminal actions	1,988	Part II offenses	14,209
Part I offenses	864		
Part II offenses	1,124		
Supplemental proceedings	718		
Family Courts, total	18,329		
Primary proceedings, referrals	15,771		
Marital actions, proceedings	6,395		
Adoption proceedings	749		
Paternity or parental proceedings	256		
Miscellaneous proceedings	528		
Criminal actions	40		
Adults' referrals	661		
Children's referrals	7,142		
Supplemental proceedings	2,558		

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1975 to June 30, 1976*, pp. 50, 54, 59 and 64.

Table 66.—STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1976

(Year ended June 30)

Court and type of termination	Number	Court and type of termination	Number
Supreme Court, total	520	District Courts, total	597,583
Opinion filed	95	Felonies	738
Dismissal motion granted	14	Stricken or discharged	231
Withdrawn or discontinued	51	By commitment to Grand Jury	312
Other disposition	360	By commitment to Circuit Court	195
Circuit Court Proper, total	8,094	Misdemeanors	15,671
No service	512	By discharge or dismissal	3,500
No answer	600	By nolle prosequi	891
No statement of readiness	68	Stricken	1,125
Dismissal: Notice of	375	By bail forfeiture	1,097
Stip. for	950	By commitment to Circuit Court	392
By judge	502	By conviction	8,666
Nonjury: Trial	264	Civil cases	10,953
Trial not completed	9	By discontinuance or dismissal	3,188
Jury: Verdict	304	By default or confession	7,119
Trial not completed	33	By trial	646
No trial held	1,005	Traffic and other violations	570,221
Hearings: Contested	125	By discharge or dismissal	13,860
Uncontested	1,409	By nolle prosequi	4,913
Others	1,938	Stricken	50,281
Family Courts, total	17,256	By bail forfeiture	432,587
Nolle prosequi	26	By commitment to Circuit Court	15
Dismissal	9	By conviction	68,565
Nonjury: Trial	8		
Trial not completed	—		
Jury: Verdict	19		
Trial not completed	—		
No trial held	112		
Hearings: Contested	1,775		
Uncontested	8,762		
Counseling service	3,821		
Others	2,724		

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1975 to June 30, 1976*, pp. 50, 54, 59 and 64.

Table 67.—AVERAGE NUMBER OF INMATES IN CORRECTIONAL INSTITUTIONS: 1966 TO 1976

Year	State Prison System ¹	Youth Correctional Facility ²		Halawa Correctional Facility (Honolulu Jail) ³
		Boys	Girls	
1966	480	80	43	148
1967	437	74	37	148
1968	383	60	25	127
1969	320	51	21	97
1970	281	56	11	111
1971	257	61	12	127
1972	256	49	9	121
1973	300	63	19	111
1974	302	62	17	124
1975	312	60	16	144
1976	345	44	11	145

NA Not available.

¹ Years ended June 30. Excludes Halawa and Youth Correctional Facilities.² Years ended June 30.³ Calendar years through 1974 and years ended June 30 thereafter. The City and County Jail was transferred to State control January 1, 1975.Source: Hawaii State Department of Social Services and Housing, Corrections Division, records; Honolulu Police Department, *Statistical Report* (annual) and records.**Table 68.—CORRECTIONAL INSTITUTIONS: YEAR ENDED JUNE 30, 1976**

Facility	Capacity, June 30, 1976	Average inmate population during year			Commitments during year ¹		
		Felons	Misdemeanants & Pre-Sentence	Youths	Felons	Misdemeanants & Pre-Sentence	Youths
All facilities	730	332	162	55	214	(NA)	222
Hawaii State Prison ²	243	241	—	—	135	—	—
Kamehameha Conditional Release Center ...	15	11	—	—	—	—	—
Laumaka Conditional Release Center	15	13	—	—	—	—	—
Kulani Honor Camp	110	49	—	—	4	—	—
Halawa Correctional Facility	204	5	140	—	—	1,226	—
Hawaii Community Correctional Facility	23	6	11	—	50	552	—
Maui Community Correctional Facility	18	7	7	—	25	226	—
Kauai County Jail	14	—	4	—	—	(NA)	—
Hawaii Youth Correctional Facility	88	—	—	55	—	—	222
Boys	72	—	—	44	—	—	(NA)
Girls	16	—	—	11	—	—	(NA)

NA Not available.

¹ All commitments to Hawaii's correctional facilities. Excludes inmate transfers among Hawaii facilities. Includes technical parole violators.² Includes former Adult Diagnostic Center.

Source: Hawaii State Department of Social Services and Housing, Corrections Research and Statistics Bureau, records; Kauai Police Department, 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: 22 out of 26 major Oahu beaches were rated "A" in 1976 (coliform not exceeding 50 per 100 ml.), only four were rated "B" (51-500), and none was rated "C" (501 or more). Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range in downtown Honolulu, for example, is from 57° to 88°F. Normal precipitation, however, ranges from 5.7 inches near Kawaihae, 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 2,540 million 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: 1976*, Section 6.

Table 69.—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),		
Puuwai, Niihau	152	245	Australia	5,070	8,158
Nihoa	283	455	Tokyo, Japan	3,847	6,190
Necker Island	520	837	Wake Island	2,294	3,691
French Frigate Shoals	556	895	North and South America:		
Gardner Pinnacles	688	1,107	Anchorage, Alaska	2,781	4,475
Maro Reef	851	1,369	Cape Horn, Chile	7,457	11,998
Laysan Island	936	1,506	Chicago, Illinois	4,179	6,724
Lisianski Island	1,065	1,714	Cristobal, Canal Zone	5,214	8,389
Pearl and Hermes Atoll	1,208	1,944	Los Angeles, California ²	2,557	4,114
Midway Islands	1,309	2,106	Miami, Florida	4,856	7,813
Kure Atoll ¹	1,367	2,200	New York, New York	4,959	7,979
Trust Territory of the Pacific Isl.:			Portland, Oregon	2,595	4,175
Majuro, Marshall Islands	2,271	3,654	San Diego, California	2,610	4,199
Kwajalein, Marshall Islands	2,443	3,931	San Francisco, California ²	2,397	3,857
Kolonia, Ponape, E.C.I.	3,087	4,967	Seattle, Washington	2,679	4,311
Saipan, Mariana Islands	3,704	5,960	Vancouver, B.C.	2,709	4,359
Koror, Palau, W.C.I.	4,593	7,390	Victoria, B.C.	2,668	4,293
Other Pacific locations:			Tijuana, Mexico	2,616	4,209
Apra Harbor, Guam	3,806	6,124	Washington, D.C.	4,829	7,770
Auckland, New Zealand	4,393	7,068	London, England	7,226	11,627
Hong Kong	5,541	8,915	Bombay, India	8,010	12,888
			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 70.—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.

Table 71.—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	266	428	313	504
Maui	1,161.1	3,007	1,160.3	3,005	0.8	2	} 210	338	343	552
Kalawao	13.3	34	13.3	34	—	—		137	220	234	377
Honolulu	610.9	1,582	595.7	1,543	15.2	39	137	220	162	261
Kauai	627.1	1,624	619.1	1,603	8.0	21	137	220	162	261
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	—	—	...	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.

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 72.—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)	4,090	1,247	Koko Head	642	196
Kilauea (Halemaumau Rim) .	3,646	1,111			
Kahoolawe:			Kauai:		
Lua Makika	1,477	450	Kawaikini	5,243	1,598
			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
Lanai:			Necker Island	277	84
Lanaihale	3,370	1,027	La Perouse Pinnacle	135	41
			Gardner Pinnacles	190	58
Molokai:			Maro Reef	Awash	Awash
Kamakou	4,970	1,515	Laysan Island	35	11
Puu Nana	1,381	421	Lisianski Island	20	6
Oahu:			Pearl and Hermes Atoll	—	—
Kaala	4,020	1,225	Midway Islands ³	12±	4±
Konahuanui ²	3,150	960	Kure Atoll	20	6
			Kingman Reef ³	3	1
			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.

Table 73.—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-Waialala 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 74.—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 75.—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 Waiau 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 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 76.—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
	Waihiimalu .....	...	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

¹Includes 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.

²Average discharge shown for Moaula includes flow from Hipuapua.

³Sheer 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 77.—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	48.6
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 or more		Less than 10 percent	10 to 19 percent	20 percent or more
The State	20.8	50.9	3,130	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.

Table 78.—VOLCANIC ERUPTIONS: 1959 TO 1977

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

¹Listed 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, and March 25, 1977. Correct to March 25, 1977.

**Table 79.—EARTHQUAKES OF MAGNITUDE 5 OR GREATER:
1957 TO 1976**

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

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, 1976.

**Table 80.—TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:
1946 TO 1977
(Correct to June 16, 1977)**

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	7.9	26.0	2	1,500,000

Source: George Pararas-Carayannis, *Catalog of Tsunamis on 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.

Table 81.—WATER USE: 1960 TO 1975
(In millions of gallons per day, unless otherwise specified.)

Subject	1960	1965	1970	1975
Water withdrawn ¹	1,500	2,000	2,700	2,540
Ground water	600	820	920	890
Fresh	580	780	910	890
Saline	21	37	13	2
Surface water	860	1,200	1,700	1,650
Fresh	600	670	850	670
Saline	260	500	860	980
Reclaimed sewage	—	—	66	—
Withdrawn for irrigation	920	1,160	1,280	950
Conveyance losses	100	200	220	450
Used for hydroelectric power	(NA)	360	330	260
Fresh water consumed	410	580	810	600
Per capita use (gallons per day)	2,500	2,800	3,500	3,140

NA Not available

¹Excludes water used for hydroelectric power. Irrigation conveyance losses excluded in 1960 and included thereafter.

Source: U.S. Geological Survey, *Estimated Use of Water in the United States* for 1960 (Circular 456, 1961), 1965 (Circular 556, 1968), and 1970 (Circular 676, 1972), and unpublished 1975 data (1976).

Table 82.—AVERAGE DAILY WATER CONSUMPTION FROM COUNTY WATERWORKS: 1966 TO 1976
(In millions of gallons. For years ended June 30, except where otherwise stated.)

Year	Total	City of Honolulu	Rest of Oahu	Hawaii County	Kauai County ¹	Maui County
1966 ²	89.1	48.4	26.1	5.03	3.15	6.42
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	68.9	50.9	10.20	5.93	13.56

NA Not available.

¹Water sales.

²Calendar year figure for Hawaii County; January-June average for Maui County.

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 83.—WATER QUALITY AT OAHU BEACHES: 1975 AND 1976

Beach	Number of samples		Coliform density (geometric mean, MPN/100 ml)	
	1975	1976	1975	1976
Ala Moana Park (Ewa)	38	35	8.2	11.2
Ala Moana Park (Center)	32	14	3.9	8.3
Ala Moana Park (Diamond Head)	35	20	11.1	12.4
Bellows Air Force Beach	9	—	12.0	(NA)
Elks Club Beach	39	13	20.8	25.7
Ewa Beach	11	10	6.9	14.8
Fort DeRussy Beach	29	12	36.8	83
Gray's Beach	44	35	28.0	13.8
Haleiwa Park Beach	8	3	12.1	25
Hanauma Bay	11	9	4.8	4.7
Hauula Park Beach	10	8	6.4	23.4
Kaaawa Park Beach	10	8	17.6	18.2
Kahala Beach	9	—	46.2	(NA)
Kahala Hilton Beach	9	—	22.4	(NA)
Kahana Park Beach	10	8	228.6	160.5
Kahanamoku Beach	34	14	18.8	9.1
Kahanamoku Lagoon (Ewa)	24	—	288.7	(NA)
Kahanamoku Lagoon (Diamond Head)	36	29	148.4	35.4
Kailua Park Beach	8	8	26.3	20.8
Kalama Beach	8	8	51.3	19.1
Kawela Bay	6	—	12.8	(NA)
Kokokahi Pier	14	8	35.1	56.4
Kuhio Beach	41	14	41.7	45.5
Lanikai Beach	6	—	74.5	(NA)
Makaha Beach	11	11	3.1	3.4
Nanakuli Park Beach	11	12	2.9	5.9
Public Bath Beach	43	33	6.9	6.9
Punaluu Park Beach	10	8	85.3	82.6
Sandy Beach (East)	11	9	3.8	22.4
Sandy Beach (West)	9	—	3.2	(NA)
Tavern Beach	40	13	9.8	5.4
Waianae Park Beach	11	12	5.1	12.4
Waikiki Natatorium	29	—	4.9	(NA)
Waimanalo Park Beach	10	10	6.0	21.5
Waimanalo Surfer's Beach	8	—	9.7	(NA)

NA Not available.

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

**Table 84.—SUSPENDED PARTICULATE
MATTER, FOR HONOLULU:
1966 TO 1976**

(Sampling conducted from roof of Health Department Building. Annual mean levels over 80 ug/m³ may affect human health.)

Year	Mean micrograms per cubic meter
1966	35
1967	38
1968	45
1969	43
1970	37
1971	45
1972	41
1973	34
1974	35
1975	40
1976	34

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

Table 85.—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 86.—AEROMETRIC SURVEY DATA FOR SPECIFIED LOCATIONS: 1976
(Carbon monoxide in milligrams per cubic meter; other data in micrograms per cubic meter.)

Subject	DOH Bldg. ¹	Kalihi Kai	Pearl City ²	Barbers Point	Waimanalo	Ala Moana	Kahului, Maui ³	Kihei, Maui ⁴	Hilo, Hawaii	Lihue, Kauai
Minimum:										
Particulate matter	19	27	16	12	12	24	26	21	11	20
Sulfur dioxide	<5	<5	<5	<5	—	<5	<5	—	<5	<5
Nitrogen dioxide ⁵	12	16	11	<5	—	24	<5	—	9	<5
Carbon monoxide, 1 hr.	0.5	—	—	—	—	—	—	—	—	—
Photochemical oxidants	2	—	—	—	—	—	—	—	—	—
Maximum:										
Particulate matter	62	113	83	101	69	130	118	172	64	112
Sulfur dioxide	51	32	50	7	—	7	142	—	<5	<5
Nitrogen dioxide ⁵	63	67	44	29	—	61	39	—	29	17
Carbon monoxide, 1 hr.	24.2	—	—	—	—	—	—	—	—	—
Photochemical oxidants	265	—	—	—	—	—	—	—	—	—
Annual average:										
Particulate matter	34	52	41	40	25	65	64	60	30	37
Sulfur dioxide	23	<5	<5	<5	—	<5	24	—	<5	<5
Nitrogen dioxide ⁵	35	37	26	14	—	45	19	—	20	8

¹ Department of Health, Punchbowl and South Beretania Streets, Honolulu.

² Site moved from the Sewage Pumping Station to the Sewage Treatment Plant in January 1976.

³ Sampled for 8 months.

⁴ Site moved from the Fire Station to the Sewage Treatment Plant at the end of Welakahao Street on May 27, 1976.

⁵ Sampling discontinued at all sites in April 1976.

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

Table 87.—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
Nuuuanu	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 88.—NOISE COMPLAINTS RECEIVED BY THE HONOLULU POLICE
DEPARTMENT: 1973 TO 1976**

Type of noise	1973	1974	1975	1976 ¹
All noise complaints	9,009	8,741	15,536	19,006
Loud party, music, singing, TV, radio, etc.	4,809	4,081	3,255	...
Loud talking, yelling, crying, etc.	909	1,700	6,508	...
Loud vehicle	979	604	763	...
Loud equipment, construction noises	329	231	156	...
Noisy animals	998	788	623	...
Unspecified noises	985	1,337	4,231	...

¹ Not available by type of noise.

Source: Honolulu Police Department, records.

Table 89.—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 90.—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	85	53	2.46	13.68	0.48	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	91	67	0.76	3.08	T	2.35
Sept.	87.4	73.4	80.4	92	66	0.67	2.74	0.07	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	87	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 (%) ²		Wind (miles/hour)		Percent of possible sunshine	Mean sky cover, sunrise to sunset ³	Mean number of days		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest mile			Sunrise to sunset		
							Clear	Cloudy	
Jan.	80	63	9.9	67	63	5.5	9	10	10
Feb.	77	60	10.8	63	64	5.8	7	9	10
Mar.	74	60	11.4	59	68	6.0	7	10	9
Apr.	70	58	12.1	40	66	6.3	6	11	9
May	66	54	12.2	35	69	6.0	7	10	7
June	65	53	12.9	39	70	5.6	6	7	6
July	64	50	13.6	34	74	5.3	8	5	8
Aug.	66	53	13.5	52	75	5.3	8	6	7
Sept.	65	51	11.6	36	74	5.1	9	6	7
Oct.	67	54	10.9	40	67	5.6	8	8	9
Nov.	73	59	11.2	65	59	5.7	7	9	10
Dec.	76	60	11.0	59	59	5.5	8	10	10
Ann.	70	56	11.8	67	67	5.7	90	101	102

T Trace, an amount too small to measure.

¹ For periods October 1962 through December 1964 and September 1971 through December 1976. 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 1972-1976.

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, 1976.*

Table 91.—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 92.—TEMPERATURE AND RAINFALL, FOR SPECIFIED LOCATIONS: 1960 TO 1976

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

¹ December data not available for Honolulu Federal Building.

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

**Table 93.—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 1976*.

**Table 94.—TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION
OF THE CITY AND COUNTY OF HONOLULU: 1960 TO 1976**

Date	City and County streets and highways ¹		Trees in City and County parks
	Length in miles	Trees	
1960: April-June	784.0	19,472	(NA)
1965: June 30	815.54	22,475	(NA)
1970: June 30	933.58	46,290	63,500
1971: June 30	958.13	54,146	64,500
1972: June 30	974.30	61,023	65,000
1973: June 30	987.00	70,497	65,500
1974: June 30	999.80	82,635	65,800
1975: June 30	1,022.00	88,654	68,300
1976: June 30	1,035.69	96,658	92,800

NA Not available

¹ Excludes Federal, State, and private thoroughfares.

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

**Table 95.—HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA:
1958 TO 1976**

(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	Oahu 'Amakihi	171
1960	34	4,656	Hawaiian Stilt	157
1961	39	3,954	'Apapane	103
1962	39	2,969		
1963	35	7,963	Indigenous species:	
1964	34	10,139	Red-footed Booby	1,940
1965	46	11,820+	Great Frigatebird	723
1966	51	12,557		
1967	51	22,641	Introduced species:	
1968	49	11,024	Barred Dove	2,091
1969	53	13,236	Japanese White-eye	1,960
1970	51	10,454	Common Myna	1,929
1971	50	13,218	Spotted Dove	1,145
1972	52	14,559	House Sparrow	1,068
1973	48	9,574	Cattle Egret	1,032
1974	44	10,263		
1975	54	12,008	Migratory species:	
1976	55	16,393	Golden Plover	785
			Ruddy Turnstone	124

¹ Endemic birds numbering more than 50 individuals, indigenous birds more than 200, introduced birds more than 1,000, 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 1968-1977.

Table 96.—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	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.

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 149,200 acres as "urban," 1,977,000 as "conservation," 1,976,400 as "agricultural," and 8,900 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 2,255 lessees. Total land parcels number 329,695.

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 406,000. 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 7 and 23 of the *Statistical Abstract of the United States: 1976*.

Table 97.—LAND USE ACREAGES, BY ISLAND: 1968

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

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 98.—LAND USE, BY COUNTY AND ISLAND: 1971-1974

(In acres)

Land use	State total	Hawaii County (Dec. 1971)	Maui County (Spring 1972)			City and County of Honolulu (Dec. 1974)	Kauai County (May 1972)	
			Maui and Kahoolawe	Lanai	Molokai		Kauai	Niihau
All uses ¹	4,027,395	2,501,132	490,234	89,071	168,256	373,636	357,978	47,088
Residential	67,295	14,326	17,292	256	2,963	26,481	5,968	9
Manufacturing	3,701	538	774	—	754	1,455	177	3
Mfg. services ²	10,232	1,147	657	54	54	2,433	5,880	7
Commercial ³	2,149	387	233	13	38	1,365	113	—
Services ⁴	116,337	29,962	30,986	80	810	51,778	2,336	385
Social and cultural ⁵	6,535	935	1,302	15	93	3,824	361	5
Recreation ⁶	94,098	64,878	18,778	89	34	5,095	5,224	—
Agriculture	1,220,319	683,045	197,900	15,020	37,199	76,124	167,650	43,381
Transportation ⁷	16,360	12,332	776	165	24	1,790	1,273	—
Unused open spaces ⁸ ...	2,490,369	1,693,582	221,534	73,380	126,289	203,290	168,996	3,298

¹ Excludes public streets and highways. For total area by island, see *The State of Hawaii Data Book 1975*, table 65.

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, beaches, and undedicated streets.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii County Land Inventory Report: 1971 (1974)*, *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, December 1974, special tabulation.

Table 99.—LAND USE, FOR OAHU: 1964 TO 1974
(In acres)

Land use	1964	1969	1974
All uses ¹	381,310	381,935	373,636
Residential ²	16,550	22,676	26,481
Industrial	6,352	6,305	6,069
Commercial	1,450	1,645	1,809
Hotel	73	98	207
Public buildings	4,741	5,226	5,132
Public open spaces	7,861	7,795	7,230
Highways and streets ¹	7,405	8,495	1,874
Agriculture	94,474	88,740	76,124
Military	48,633	47,650	47,294
Unused open space ²	193,774	193,304	201,416

¹ Data for 1974 exclude area in public streets and highways (approximately 8,300 acres in 1974).

² Data for 1964 revised for comparability with figures for 1969 and 1974.

Source: State of Hawaii and City and County of Honolulu, *Oahu Transportation Study, 1967*, Vol. 1, *Economic, Population, and Land Use* (undated), p. IV-A-1; Hawaii State Department of Transportation, Advance Transportation Planning Office, 1969 land use files; City and County of Honolulu, Department of General Planning, Oahu Land Use Inventory, December 1974, special tabulation.

**Table 100.—LAND AND FLOOR AREA IN COMMERCIAL AND HOTEL USE,
FOR OAHU: 1964 AND 1969**

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

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

Table 101.—ACREAGE OF LAND USE CLASSES, BY COUNTIES: OCTOBER 1976
(Based on land use classifications used for real property assessment purposes.)

Land use class ¹	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All uses ²	4,066,102	373,442	2,543,628	399,075	749,957
Residential	83,482	61,823	11,439	4,052	6,168
Hotel-apartment	7,914	2,567	2,232	993	2,122
Commercial	4,505	2,600	1,060	347	498
Industrial	14,297	8,364	3,517	727	1,689
Agricultural	1,956,268	137,567	1,215,187	196,545	406,969
Conservation	1,966,260	148,886	1,297,315	193,025	327,034
Unimproved residential	33,376	11,635	12,878	3,386	5,477

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.

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 by 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; Hawaii, 2,584,320; Kauai, 401,344; Maui, 751,616.

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

Table 102.—ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1977

(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	4,111,500.0	149,197.5	1,976,995.7	1,976,392.6	8,914.2
ISLANDS: 1977					
Hawaii	2,573,400.0	33,628.5	1,310,573.0	1,228,586.5	612.0
Maui	465,800.0	15,376.4	193,678.7	253,194.6	3,553.3
Kahoolawe	28,800.0	—	28,800.0	—	—
Lanai	90,500.0	2,331.0	38,210.0	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	85,259.1	154,907.6	145,133.3	—
Kauai	353,900.0	9,309.4	198,758.7	144,695.0	1,136.9
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 watersheds 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 103.—LAND PARCELS, BY COUNTIES: 1965 TO 1977

Year ¹	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1965	208,339	97,794	19,106	81,638	9,801
1966	209,219	99,462	19,716	80,009	10,032
1967	216,504	106,214	20,040	80,391	9,859
1968	226,211	110,252	20,722	84,619	10,618
1969	235,937	115,713	22,172	87,457	10,595
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

¹As of January 1, 1965 to 1969 and 1977, and July 1, 1970 to 1976.

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

Table 104.—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 102, 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 105.—REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1965 TO 1975

Subject	June 30, 1965	June 30, 1970	June 30, 1974	June 30, 1975
OWNED				
Number of installations	102	160	242	249
Land area, total (acres)	363,795.3	396,900.7	417,824.1	405,529.8
Urban	23,004.6	57,202.3	52,228.2	50,862.3
Rural	340,790.7	339,698.4	365,595.9	354,667.5
Number of buildings	11,993	11,479	13,184	13,066
Cost, total (\$1,000) ¹	1,007,444	1,115,240	1,252,897	1,269,178
Land	23,938	40,083	47,992	43,773
Buildings	475,948	545,140	646,853	681,712
Structures and facilities	507,558	530,017	558,052	543,693
Predominant usage (acres):				
Agriculture and grazing	—	—	—	—
Forest and wildlife	—	1,767.4	3,041.0	3,064.4
Parks and historic sites	—	218,318.0	238,559.8	238,559.8
Power development and distribution	—	—	—	—
Reclamation and irrigation	—	—	—	—
Office building locations	—	28.9	33.0	50.1
Military, excluding airfields ²	—	175,223.9	115,719.3	116,205.1
Airfields .....	—				40,065.8	39,368.0
Harbor and port facilities	—	35.1	159.6	156.6
Flood control and navigation	—	625.7	1,482.1	1,482.1
Vacant	—	13.1	14.6	6.5
Institutional	—	1.5	359.5	359.5
Housing	—	81.4	82.5	82.5
Storage	—	34.0	529.8	529.8
Industrial	—	48.6	17,165.8	5,180.0
Research and development	—	5.2	11.0	11.0
Other land	—	624.3	600.3	474.4
LEASED				
Number of leases	218	288	258	240
Land area, total (acres)	44,058.4	48,593.9	48,885.4	48,123.0
Urban	26,459.9	31.8	35.9	33.4
Rural	17,598.5	48,562.1	48,849.5	48,089.6
Number of building locations	157	155	173	157
Floor area of buildings (square feet)	380,090	457,988	621,415	597,803
Annual rental (\$1,000)	983	1,879	3,258	3,061

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

² Figure for 1970 includes all Department of Defense land used for military functions.

Source: General Services Administration, *Inventory 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 106.—REAL PROPERTY OWNED BY THE FEDERAL GOVERNMENT, BY AGENCY:
JUNE 30, 1975**

Agency	No. of install-ations	Land (acres)	Buildings		Cost (\$1,000,000)			
			No.	Floor area (1,000 sq. ft.)	Total	Land	Build-ings	Structures, facilities
All agencies	249	405,529.8	13,066	62,064	1,269.2	43.8	681.7	543.7
Civil agencies	173	243,784.6	533	1,950	79.8	15.2	39.3	25.3
Amer. Battle Mon. Com.	1	0.0	—	—	1.7	—	—	1.7
Dept. of Commerce	9	188.2	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	10	15	0.4	—	0.3	0.1
Dept. of H., E., W.	1	1.5	1	20	1.0	0.1	0.9	—
Dept. of Interior	9	241,510.0	179	243	11.1	3.8	1.6	5.8
Fish & Wildlife	4	3,062.2	1	1	1.6	1.6	0.0	0.0
Geological Survey	1	0.0	6	7	0.1	—	0.1	—
National Park Ser.	4	238,447.8	172	234	9.4	2.2	1.5	5.8
Dept. of Transport.	131	1,866.7	281	806	33.6	2.5	16.6	14.4
FAA	67	251.7	74	121	9.5	0.6	3.9	5.0
Coast Guard	64	1,615.0	207	685	24.0	1.9	12.7	9.4
Fed. Communic. Comm.	1	47.7	2	3	0.1	0.0	0.0	0.0
GSA	7	25.1	5	347	5.9	3.4	2.5	0.0
NASA	1	0.0	12	22	3.1	—	1.0	2.1
Postal Service	6	30.3	6	396	14.9	0.0	14.9	—
VA	1	112.0	4	18	6.0	5.0	0.1	0.8
Defense	76	161,745.2	12,533	60,115	1,189.4	28.6	642.4	518.4
Army	35	105,963.0	3,034	17,636	293.6	16.1	174.5	102.9
Navy	23	49,430.5	7,629	32,565	698.6	9.7	351.8	337.1
Air Force	12	5,326.0	1,867	9,863	188.5	2.0	115.8	70.7
Corps of Engineers	6	25.7	3	51	8.8	0.8	0.3	7.6

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

Table 107.—ACREAGE, LESSEES, AND WAITING LIST FOR LAND UNDER THE JURISDICTION OF THE DEPARTMENT OF HAWAIIAN HOME LANDS, BY ISLAND: 1974 AND 1976

Island	Acres, 1976 ¹	Lessees		Application waiting list	
		June 30, 1974 ²	June 30, 1976	June 30, 1974	June 30, 1976
State total	189,875	2,197	2,255	3,826	5,120
Hawaii	110,970	437	462	341	777
Maui	29,075	89	89	185	290
Molokai	26,794	295	311	201	242
Oahu	5,069	1,291	1,305	2,988	3,517
Kauai	17,967	85	87	111	287

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 Homelands, *Annual Report for 1974 and 1976*.

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 3,220,000 visitors stayed overnight or longer in Hawaii during 1976, compared with 835,000 in 1966 and only 134,000 in 1956. The average number present at any given time during 1976 was 78,500, more than four times the 1966 average. Total visitor expenditures (exclusive of trans-Pacific fares) in 1976 amounted to \$1.45 billion, compared with \$280 million a decade earlier. The 1976 total included 2,220,000 visitors from other States, 250,000 from Canada, and 440,000 from Japan. When last surveyed (in 1974), expenditures per visitor day averaged \$46.20 for those from the Mainland and \$123 for the Japanese. Among westbound visitors destined for Hawaii, one-fourth were Californians, half were at least 44.8 years old, median family income before taxes was \$21,200, 39 percent were repeat visitors, four-fifths were on a pleasure trip, their average intended length of stay was close to 11 days, almost 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, 55 State parks, 572 County parks, 45 golf courses, 241 tennis courts, 1,853 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than 500,000 annual visitors include nine National or State parks, the U.S.S. Arizona Memorial, the National Memorial Cemetery of the Pacific, Honolulu Zoo, Polynesian Cultural Center and Sea Life Park. Total visits to 33 museums, state monuments, and similar attractions in 1976 numbered 8.8 million. Over 186,000 Hawaii residents traveled to the Mainland in 1976 and half of them were absent more than 14 days. Ten theatrical groups on Oahu reported 1,590 performances of 165 productions for the 1975-1976 season, with a combined audience of 464,000. During the same period, the Honolulu Symphony Orchestra gave 128 concerts, with a total attendance of 216,000. 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, 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 7 of *Statistical Abstract of the United States: 1976*.

Table 108.—MODE OF TRAVEL AND VISITOR STATUS OF PASSENGERS ARRIVING IN HAWAII: 1966 TO 1976

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		
1966	1,279,151	1,200,697	78,454	974,419	304,732	558,388	128,498	137,136	117,605	32,031
1967	1,562,414	1,482,884	79,530	1,215,974	346,440	754,910	138,193	147,136	130,995	44,117
1968	1,683,326	1,608,706	74,620	1,348,112	335,214	869,116	146,728	148,802	140,592	42,236
1969	1,941,638	1,876,821	64,817	1,566,013	375,625	1,008,802	172,227	190,710	152,404	41,162
1970	2,219,559	2,174,303	45,256	1,734,560	484,999	1,127,950	198,185	193,798	173,252	40,073
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

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, 1966-1976, Revised Visitor Statistics, 1964-1970* (July 1971), as corrected, and records.

Table 109.—VISITOR ARRIVALS, AVERAGE VISITOR CENSUS, AND VISITOR EXPENDITURES: 1958 TO 1976

Year	Visitors staying overnight or longer			Average number present		Visitor expenditures ¹ (millions of dollars)
	Total	West-bound ²	Other	Total	West-bound ²	
Unadjusted³:						
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	1,270
1976	3,220,151	2,551,601	668,550	78,540	71,233	1,450

¹ Excludes expenditures for trans-Pacific transportation. Preliminary estimate for 1976.

² Arriving from the Mainland United States or Canada.

³ For survey nonresponse.

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

**Table 110.—VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS, BY COUNTIES:
1964 TO 1976**

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

¹Because 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.

²For State totals, see preceding table.

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

⁴Includes Molokai and Lanai.

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

**Table 111. — RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII:
1960 TO 1976**

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	2,220,000	250,000	440,000	165,000	85,000	60,000

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

² Includes Europe (40,000 in 1976), 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 112.—CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1966 TO 1976

Year	California residents ¹ (percent)	Males per 1,000 females	Median age (years)	High status occupations ² (percent)	Persons per party	Arriving June 1-Aug. 31 (percent)	Arriving by sea (percent)	Repeat visitors ³ (percent)	Pleasure trip (percent)	Staying in hotel (percent)	Average intended stay ⁴ (days)	Intention to visit Neighbor Islands ⁵ (percent)
1966	39.7	798	45.3	59.9	1.58	30.9	4.1	32.1	71.6	87.1	12.7	64.1
1967	36.5	682	43.2	52.3	1.55	32.7	2.9	29.0	74.9	84.9	12.3	56.5
1968	34.2	631	41.7	48.3	1.52	31.9	2.1	28.5	76.8	84.6	12.1	54.9
1969	33.4	641	40.1	48.3	1.53	30.5	1.2	30.6	72.9	83.2	12.3	53.2
1970	33.4	663	40.7	49.6	1.55	33.1	0.4	32.8	74.8	84.0	10.9	54.8
1971	32.0	741	42.6	54.0	1.61	30.8	0.3	36.4	76.0	84.9	11.0	60.6
1972	27.7	801	44.7	58.9	1.71	29.2	0.4	35.1	77.4	89.0	10.9	61.5
1973	25.5	762	44.0	56.4	1.69	30.2	0.3	34.3	78.3	89.3	10.7	58.8
1974	24.4	788	44.1	59.3	1.72	28.6	0.1	37.3	78.2	91.4	10.7	62.0
1975	24.8	810	44.5	60.4	1.75	28.6	0.1	39.7	76.4	91.7	10.8	66.0
1976	24.0	787	44.8	58.4	1.75	28.3	0.1	38.7	79.0	93.4	10.7	65.6

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

² Party heads only. 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 those in the source because of different computation procedures.

⁵ Base includes surveyed passengers who did not answer this question.

Source: Hawaii Visitors Bureau, *Annual Research Report, 1966-1976, Revised Visitor Statistics, 1964-1970* (July 1971), and records.

Table 113.—FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF VISITORS TO HAWAII: 1973 TO 1976

Subject	1973	1974	1975	1976
Number of respondents in sample	6,042	6,014	5,960	5,482
Family income before taxes (percent)	100.0	100.0	100.0	100.0
Under \$5,000	2.5	1.7	1.5	1.5
\$5,000 to \$7,499	5.4	4.2	3.6	2.8
\$7,500 to \$9,999	8.5	6.9	6.1	4.6
\$10,000 to \$14,999	21.8	19.5	18.1	16.8
\$15,000 to \$24,999	33.3	35.0	33.3	35.5
\$25,000 and over	28.5	32.8	37.4	38.8
Median income (dollars)	18,600	20,100	21,200	21,800
Using travel agent (percent)	73.0	76.8	77.9	82.9
Use of prepaid package tour (percent)	100.0	100.0	100.0	100.0
Yes	43.0	40.1	41.3	40.2
Partly	17.8	22.0	22.6	27.0
No	39.2	37.9	36.1	32.8
Islands visited (percent):				
Oahu only	34.7	31.7	32.0	30.1
Hawaii	44.7	44.5	42.5	40.0
Maui	46.8	47.5	48.7	53.2
Kauai	42.9	41.6	39.0	39.3
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	38.6	38.3	40.2	38.6
Above average	50.4	50.9	49.7	51.0
Average	9.8	9.7	9.1	9.2
Below average	1.0	1.0	0.9	1.0
Quite inferior	0.2	0.1	0.2	0.2

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

Table 114.—VISITOR EXPENDITURES PER VISITOR DAY: 1974
(Excludes transpacific travel costs. In dollars.)

Subject	Visitors from Mainland United States ¹	Visitors from Japan ²
Total expenditure	46.20	123
By type of expenditure:		
Food and beverages ³	13.12	...
Entertainment	2.12	...
Transportation ⁴	5.16	...
Clothing	4.96	...
Gifts and souvenirs	4.46	41
Lodging	13.34	...
Other	2.22	...
Unclassified	0.82	...
By place of expenditure:		
Oahu	46.75	...
Other islands	45.16	...
By travel status:		
In organized tour groups	52.06	...
Individual visitors	42.91	...

¹ Based on data for 1,669 parties.

² Based on data for 190 parties. Detailed breakdowns of expenditure patterns not available.

³ Includes night clubs.

⁴ Interisland and ground.

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

**Table 115.—HAWAII VISITORS BUREAU EXPENDITURES AND STATE APPROPRIATIONS
FOR PROMOTION OF TOURISM: 1966 TO 1977**
(In dollars)

Year ended June 30	Hawaii Visitors Bureau expenditures				State appro- pria- tions ¹
	Total	Private funds	Public funds		
			Amount	Percent	
1966	1,534,656	334,656	1,200,000	78.2	1,240,000
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	(NA)	(NA)	(NA)	(NA)	1,883,000

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 or biennial).

Table 116.—PASSPORTS ISSUED AND RENEWED BY THE HONOLULU PASSPORT AGENCY: 1960 TO 1976

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

¹ Legislation effective August 26, 1968 eliminated passport renewals.

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

Table 117.—CHARACTERISTICS OF HAWAII RESIDENTS RETURNING FROM THE MAINLAND UNITED STATES: 1961 TO 1976

Subject	1960 - 1961	1967	1972	1976
Number returning	41,450	130,995	171,772	186,684
Oahu residents (percent) ¹	86.0	88.0	87.2	(NA)
Median age (years)	32.9	(NA)	(NA)	(NA)
Males per 100 females	125.9	(NA)	(NA)	(NA)
Persons per party	1.35	1.24	1.33	1.37
Armed forces (percent)	6.2	11.7	2.6	(NA)
Average number absent ²	5,200	14,800	11,900	(NA)
Days absent, median ²	23.7	18.4	13.8	(NA)
Days absent, average ²	49.6	45.9	25.3	(NA)
Returning from California (percent)	52.8	(NA)	(NA)	(NA)

NA Not available.

¹ Excludes armed forces in 1967 and 1972.

² Based on persons absent 1-365 days.

Source: Hawaii State Department of Planning and Economic Development, *Out-of-State Travel by Hawaii Residents During 1972* (Statistical Report 93, April 10, 1973), table 2; Hawaii Visitors Bureau, *1976 Annual Research Report* (1977), pp. 6 and 9.

Table 118.—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 119.—ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1976

Island and cultural attraction	Attendance	Island and cultural attraction	Attendance
All attractions	8,779,605	Hawaii	138,339
Oahu	8,479,047	Hulihee Palace	26,529
Bernice P. Bishop Museum ¹	311,658	Kamuela Museum	22,870
Exhibition halls	166,907	Lava Tree State Monument ¹	70,000
Planetarium	72,266	Lyman House Memorial Museum ...	18,940
Falls of Clyde Memorial Museum	36,506	Maui	48,782
Heritage Theatre	27,845	Baldwin Home Missionary Museum .	33,275
Other facilities	8,134	Hale Hoikeike	4,507
Foster Botanical Gardens	140,656	Halekii-Pihana State Monument ¹	11,000
Honolulu Academy of Arts	153,240	Hale Pa'i Printing Museum ⁵	—
Exhibition halls	139,220	Kauai	113,437
Alice Cooke Spalding House	14,020	Hanalei Museum ⁵	—
Honolulu Zoo	1,300,000	Kauai Museum ¹	22,364
Iolani Palace State Monument ¹	22,000	Kokee Natural History Museum	87,407
Kahuku Sugar Mill ²	192,233	Waioli Mission House ⁶	3,666
Mission Houses Museum	24,652		
Mormon Temple Grounds, Laie	347,625		
National Memorial Cemetery	2,395,027		
Pacific Submarine Museum	37,810		
Paradise Park	280,000		
Polynesian Cultural Center ³	900,000		
Queen Emma Summer Palace	13,767		
Royal Mausoleum State Mon. ¹	89,000		
Sea Life Park	522,519		
Tropic Lighting Museum ⁴	12,500		
Ulu Mau Village	24,348		
U.S.S. Arizona Memorial	1,155,275		
By civilian boats	569,322		
By Navy boats	585,953		
Wahiawa Botanic Park	30,103		
Waikiki Aquarium	240,890		
Waimea Falls Park	285,744		

¹ Year ended June 30, 1976.

² Opened March 15, 1976.

³ Year ended Sept. 30, 1976.

⁴ Data for 1974.

⁵ Closed all year.

⁶ Closed Jan. - May 1976.

Source: Data supplied to DPED by State park, museum, and other officials.

Table 120.—PARKS: 1958 TO 1976

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
1958	2	256,201	462	18	6,166	239	236	4,867
1963	3	256,201	621	23	6,410	666	370	5,638
1967	3	256,201	1,098	34	7,536	3,204	320	4,732
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

¹ Authorized but not necessarily acquired or established. The increase in areas (but not acreage) in 1963 reflects the formation of Haleakala and Hawaii Volcanoes National Parks from Hawaii National park in 1961. The decline in acreage in 1974 reflects the deletion of Oloa Forest Tract (9,654 acres), included in earlier years.

² Years ended June 30.

³ Except 1958 (July 1), 1963 (April 1), 1967 (July 1), and 1970 (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 121.—NATIONAL, STATE, AND COUNTY PARKS: 1975-1976

National park	Acreage (Dec. 31, 1976)		Total visits	
	Federal	Non-Federal	1975	1976
Hawaii Volcanoes National Park	210,462	9,883	1,672,008	1,852,654
Haleakala National Park	27,055	229	533,570	669,110
City of Refuge National Historical Park	181	—	339,596	356,860
Puukohola Heiau National Historic Site	34	66	14,255	17,216

County	State parks				County parks: Dec. 31, 1976		
	Number of areas: June 30, 1976	Acreage: June 30, 1976		Visits, years ended June 30 (in thousands)		Number of areas	Acreage
		Total	Developed	1975	1976		
Total	55	18,577.1	606.6	12,124	14,305	572	7,775
Hawaii	14	2,037.2	269.5	3,552	3,034	126	1,720
Maui	12	430.1	56.0	2,172	2,561	78	882
Honolulu	18	6,725.1	118.7	1,797	2,647	309	4,666
Kauai ¹	11	9,384.7	162.4	4,603	6,063	59	508

¹ County park data include Waiialua Golf Course but exclude 22 roadsides and cemeteries (51 acres) maintained by the beautification section.

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*, pp. 30-33; County park departments, records.

Table 122.—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 123.—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 122 and 123: Aotani & Hartwell Associates, Inc., *State Comprehensive Outdoor Recreation Plan Technical Report* (December 1975), pp. 36, 37, 44, and 54.

Table 124.—SELECTED RECREATIONAL ACTIVITIES: 1970 TO 1976

Year	Beach park acreage (Oahu) ¹	Camping permits (Oahu) ²	Licenses issued ³		Visitors to Mauna Kea ⁴	Public golf courses (Oahu) ⁵		Honolulu Zoo	
			Freshwater game fishing	Hunting		Holes	Rounds	Animal inventory	Attendance
1970	772.22	...	5,070	9,773	2,386	45	223,434	3,116	1,016,809
1971	961.84	...	5,551	10,302	3,809	63	272,352	1,955	1,107,193
1972	975.87	11,389	7,759	11,178	1,211	63	313,049	3,651	1,094,718
1973	975.95	11,551	6,902	12,764	2,046	63	343,534	1,711	1,329,000
1974	1,030.27	10,439	8,309	11,452	389	63	336,911	1,468	1,089,657
1975	1,068.897	10,976	7,277	12,500	2,000	63	345,597	1,635	1,200,000
1976	774.919	12,213	8,574	12,754	4,069	63	337,236	1,635	1,300,000

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

² Camping permits issued by the City and County of Honolulu Department of Recreation. Data not available for 1970 and 1971.

³ By the Division of Fish and Game, Hawaii State Department of Land and Natural Resources. Data are Statewide totals for years ended June 30.

⁴ 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.

⁵ 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 125.—ATTENDANCE AT BASEBALL, BASKETBALL, AND FOOTBALL HOME GAMES: 1961 TO 1977

Season	Baseball: Hawaii Islanders ¹		Univ. of Hawaii basketball team ²		Univ. of Hawaii football team ³	
	Home openings	Paid attendance	Home games	Total attendance	Home games	Total attendance
1961	77	165,786	...	...	...	...
1962	76	149,737	...	...	1	9,774
1963	79	236,848	...	...	2	8,645
1964	79	154,827	...	...	4	12,791
1965	73	174,699	...	...	3	4,533
1966	73	191,367	...	...	6	26,205
1967	73	219,005	11	24,874	7	68,018
1968	73	257,913	16	44,862	7	89,858
1969	73	280,477	20	63,806	7	113,776
1970	73	467,217	24	95,063	8	120,498
1971	73	375,000	22	150,949	9	145,437
1972	73	307,000	24	197,671	9	150,448
1973	72	238,390	22	161,753	9	184,694
1974	69	128,489	21	174,835	9	146,789
1975	71	235,822	23	168,088	9	224,291
1976	67	306,000	21	112,387	9	182,866
1977	69	368,044	...	...	...	...

¹ A double-header counts as a single opening. Data include playoffs. In 1975, there were 68 regular home openings with attendance of 213,432 and 3 playoff openings with attendance of 22,390. The Hawaii Islanders were organized and admitted to the Pacific Coast League in 1961.

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

³ Data refer to the school year beginning in the fall of the year indicated. Totals exclude home games played on fields other than Honolulu Stadium (1962-1974) and Aloha Stadium (1975 and later years). The University of Hawaii (then called the College of Hawaii) played its first football game in 1909, but many of its earlier opponents were non-collegiate, and systematic attendance records were not compiled until the 1962-1963 season.

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

**Table 126.—OUTDOOR RECREATION FACILITIES AND RESOURCES,
BY ISLAND: 1975-1977**

Facility	Six islands	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Golf courses: ¹							
9-hole	11	2	3	1	2	2	1
18-hole	25	6	4	—	—	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	1,048	26	41	21	2	913	45
Other facilities	802	229	115	—	29	386	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 1977. 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 December 1976.

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 1977); Hawaii State Department of Transportation, Harbors 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 127.—PERFORMING ARTS: 1975-1976 SEASON

Theater group	Number of productions	Number of performances	Total attendance	
Theater groups reporting	165	1,590	463,711	
Chaminade College of Honolulu ¹	4	36	3,000	
Hawaii Loa College	2	6	649	
Hawaii Performing Arts Company	11	439	100,162	
Hawaii Theatre Festival ²	5	142	55,800	
Honolulu Community Theatre	7	110	42,735	
Honolulu Theatre for Youth	7	257	131,390	
U.S. Army Recreation Services Theater Guild	7	59	11,676	
Univ. of Hawaii, University Theatre ³	24	197	43,549	
University of Hawaii, Leeward Community College ⁴	94	317	71,950	
Windward Theatre Guild	4	27	2,800	
Honolulu Dept. of Auditoriums ⁵	48	105	158,049	
Plays and dramas	—	—	—	
Concerts	31	67	103,785	
Ballets	1	2	2,973	
Operas	5	21	29,524	
Other dramatic and musical productions	11	15	21,767	

Music group	Ave. number of orchestra personnel	Number of performances ⁶	Total attendance ⁶	Operating expenses (dollars)
Ensemble Players Guild .....	...	52	23,000	54,728
Honolulu Chamber Music Series .....	...	6	1,350	8,950
Honolulu Symphony Orchestra	80	128	216,225	1,654,510

¹ 1974-1975 season.

² July 1975 - Aug. 1976.

³ Includes off-campus performances.

⁴ Includes on-campus productions by groups other than the College.

⁵ Includes performances in Dept. of Auditoriums facilities also reported elsewhere in this table under specific performing groups (such as the Honolulu Symphony Orchestra).

⁶ Excludes demonstration concerts by small symphony ensembles in schools.

Source: Data compiled from listed groups by the Hawaii State Department of Planning and Economic Development.

Table 128.—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 129.—LICENSED DOGS, BY COUNTY: 1970 TO 1976

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

¹ Excludes Kauai before 1972.

² Records for years before 1972 lost in fire.

³ Includes Maui (5,305 in 1976), Molokai (446), and Lanai (168).

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 1976 reached \$1,822 million, more than triple the level reported ten years earlier. The 1976 total included \$946 million in U.S. taxes, \$851 million in State taxes, and \$25 million in County licenses and fees. Individual income taxes accounted for 83 percent of Federal collections and 22 percent of State collections in Hawaii in 1976. State revenue receipts totaled \$1,215 million, chiefly from the General Excise and Use Tax (\$310 million) and Federal grants-in-aid (\$326 million). The largest expenditure item in the State accounts for 1976 was education, with \$377 million (out of \$1,283 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 1976. Public bonded debt outstanding at the end of 1976 exceeded \$1 2/3 billion. Average government employment reported for 1976 was 84,800, about 35 percent over the 1966 average. The 1976 total included 29,800 Federal workers, 41,400 persons employed by the State, and 13,600 persons on County payrolls. State civil service employees as of mid-1976 numbered 16,048.

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: 1976*, Sections 8 and 9.

Table 130.—FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1966 TO 1976

Fiscal years ended June 30	All levels of government		Federal ¹ (\$1,000)	State (\$1,000)	Counties (\$1,000)
	Amount (\$1,000)	Per capita ² (dollars)			
1966 ³	596,646	840	323,614	263,239	9,793
1967	652,681	903	342,842	297,410	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	1,821,934	2,055	945,899	850,639	25,396

¹ Internal revenue collections only.

² Based on total resident population, July 1 (from DPED, Statistical Report 119).

³ Previous calendar year for the Counties of Hawaii, Kauai and Maui.

Source: Tax Foundation of Hawaii, *A Compendium of Governmental Finances in Hawaii, 1949-1968*, pp. 30-33, and *Government in Hawaii* (annual).

**Table 131.—FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCE:
1966 TO 1976**

(In thousands of dollars. For fiscal years ended June 30.)

Source	1966	1971	1975	1976
Total, all levels	596,646	1,105,657	1,852,804	1,821,934
Federal collections	323,614	608,051	1,087,520	945,899
Indiv. income and employment ...	240,711	507,062	812,775	783,504
Corp. income and excess profits ..	63,323	74,022	244,506	130,719
Other sources	19,580	26,967	30,239	31,676
State collections	263,239	480,690	743,926	850,639
General excise and use	93,722	178,030	287,479	309,903
Fuel	18,455	27,260	31,639	41,547
Liquor	5,405	8,385	12,783	15,010
Public service companies	8,985	13,620	24,668	28,583
Corporate income	9,951	12,876	31,505	32,862
Indiv. income, net income	47,350	116,233	168,670	184,916
Real property	57,399	87,893	128,670	153,788
Unemployment compensation	10,873	14,018	30,137	48,967
Other sources	11,100	22,377	28,376	35,063
County collections	9,793	16,916	21,358	25,396
Motor vehicle weight	6,034	10,451	11,713	12,447
Other sources	3,759	6,465	9,645	12,949

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1977*, pp. 19 and 34.

**Table 132.—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 133.—STATE REVENUE RECEIPTS: 1975 AND 1976
(In thousands of dollars. Years ended June 30.)

Source of revenues	1975: all funds	1976		
		All funds	General fund	Special fund
Total	1,032,196	1,214,900	878,737	336,162
Tax revenues	604,794	686,151	606,161	79,990
General excise	287,488	309,885	309,885	—
Specific excises	77,957	100,975	70,077	30,898
Individual income	168,670	184,916	184,916	—
Corporate income	31,505	32,862	32,862	—
Unemployment compensation	30,082	48,936	—	48,936
Other taxes, licenses, permits	9,093	8,577	8,421	156
Fines, forfeits, and escheats	4,405	5,535	5,214	321
Federal grants-in-aid	256,370	326,327	216,825	109,502
Revenues from other agencies	4,015	2,614	2,410	204
Rents, royalties, land income	9,095	7,930	4,624	3,306
Sales of real property	818	1,183	—	1,183
Earnings: general departments	55,266	67,481	30,110	37,371
Earnings: public service enterp.	37,792	46,400	—	46,400
Repayment advances to other civil div.	18,875	32,715	—	32,715
Repayment debt costs: counties	2,089	1,856	1,856	—
Interest earned	22,383	18,571	8,657	9,914
Miscellaneous	16,295	18,136	2,881	15,256

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1977*, p. 17

**Table 134.—STATE OPERATING EXPENDITURES, BY FUNCTION:
1966 TO 1976**

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

Functions	1966	1971	1975	1976
Total	303,588	685,058	1,071,523	1,283,471
General government: Control	5,543	11,576	15,383	19,050
Staff	9,859	26,285	37,774	58,545
Public safety: Police and fire	73	141	247	184
Other protection	18,578	23,440	41,283	46,737
Highways	23,712	14,946	19,279	25,908
Natural resources	11,740	19,608	13,867	15,409
Health and sanitation	5,484	10,939	19,798	19,702
Hospitals and institutions	17,178	39,941	48,938	57,707
Public welfare	20,125	65,683	133,529	167,998
Education: Higher	38,576	90,723	126,528	147,613
Public schools	85,382	160,896	198,978	218,376
Libraries and other	2,287	7,982	8,621	11,475
Recreation	439	1,699	4,294	7,987
Utilities and other enterprises	7,621	26,112	45,379	51,605
Debt service	15,634	34,508	72,260	92,486
Retirement and pension	11,139	24,356	43,761	47,898
Employees' health and hospital insurance	1,941	6,804	8,927	7,672
Salary adjustments	2,514	2,518	—	—
Unemployment compensation	10,703	32,978	55,611	109,080
Grants-in-aid to counties	9,363	16,345	19,448	18,248
Urban redevelopment and housing	4,216	5,051	74,183	55,069
Miscellaneous	1,480	6,355	13,205	15,062
Cash capital improvements	—	56,174	70,230	89,661

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1977*, p. 41.

**Table 135.—OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES,
BY OBJECT, FOR COUNTIES: 1976**

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

Subject	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
OPERATING REVENUES				
Total	249,256	35,261	14,607	33,951
Real property taxes	117,249	18,781	5,983	11,896
Other taxes	22,335	2,713	1,325	2,332
Fees, licenses and permits	7,128	960	305	767
Departmental earnings	6,689	1,459	1,235	1,320
State grants	9,044	4,819	3,468	5,458
Federal grants	83,476	6,354	1,256	11,085
Other sources	3,335	174	136	1,093
OPERATING EXPENDITURES				
Total	250,648	36,488	14,994	25,620
General government	21,088	5,652	3,527	4,041
Police and fire	45,228	8,069	3,451	5,095
Other protection	7,988	1,781	343	727
Highways	11,086	2,993	1,060	2,170
Health and sanitation	17,985	1,032	321	641
Recreation	15,608	2,610	1,107	1,601
Interest	7,550	1,729	710	1,022
Bond redemption	14,199	2,028	639	1,399
Pension and retirement	11,047	2,764	864	1,838
Econ., urban development	31,542	—	—	—
Mass transit	18,115	1,223	—	—
Miscellaneous	9,850	1,414	1,928	2,447
Cash capital improvements	39,363	5,192	1,043	4,639

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1977*, pp. 30, 31, 42, and 43.

Table 136.—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	1966	1975	1976
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

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

Table 137.—REAL PROPERTY TAX VALUATIONS AND TAX RATES: 1966 AND 1976
(In thousands of dollars)

Subject	Jan. 1, 1966: State total	July 1, 1976, by county				
		State total	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation	5,036,156	15,519,576	12,448,969	1,194,926	1,334,089	541,592
Land	2,951,437	8,826,837	7,071,109	635,613	790,610	329,505
Improvement	2,084,719	6,692,739	5,377,860	559,313	543,479	212,087
Exemptions	1,946,381	5,563,792	4,749,329	269,889	415,604	128,970
Federal	664,633	1,114,641	1,096,086	2,318	11,157	5,080
State	415,211	1,426,038	1,191,564	54,091	156,363	24,020
County	278,374	515,806	456,527	29,806	18,903	10,570
Hawaiian Homes Commission	7,569	21,598	8,748	2,917	7,761	2,172
Homes, fee	258,778	1,334,412	954,943	136,279	170,081	73,109
Homes, leasehold	60,560	459,030	441,486	6,460	9,605	1,479
Public utilities	58,064	105,178	90,161	5,722	7,963	1,332
All other ¹	203,192	587,089	509,814	32,296	33,771	11,208
Assessor's net taxable valuation	3,089,775	9,955,784	7,699,640	925,037	918,485	412,622
Valuation for tax rate purposes ²	3,069,066	9,806,352	7,568,023	920,362	916,666	401,301
Amounts to be raised by taxation	57,714	150,052	116,321	11,504	16,408	5,819
Assessment ratio (percent)	70	60	60	60	60	60

¹ Religious, charitable, educational, hospital, etc.

² After allowance for appeals (2,132 in 1966 and 5,459 in 1976).

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

**Table 138.—ADJUSTED GROSS INCOME REPORTED ON
INDIVIDUAL FEDERAL INCOME TAX RETURNS:
1965 TO 1975**

Years	Number of returns	Adjusted gross income (less deficit)	
		Total (\$1,000)	Per return (dollars)
1965	257,466	1,589,418	6,173
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 (preliminary) ...	348,669	3,976,372	11,404
1975 (preliminary) ...	357,660	4,278,320	11,962

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

**Table 139.—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 ¹	1975 ¹
All returns	302,426	308,814	318,023	345,211	348,669	357,660
Under \$1,000	38,320	31,778	24,757	29,035	...	...
\$1,000 under \$2,000	13,252	24,397	23,160	24,020	...	...
\$2,000 under \$3,000	25,056	12,655	26,774	20,076	...	...
\$3,000 under \$4,000	18,429	19,351	17,354	16,419	...	...
\$4,000 under \$5,000	18,179	19,173	24,551	17,419	...	...
\$5,000 under \$6,000	18,495	15,968	} 28,854	{ 27,397	...	...
\$6,000 under \$7,000	20,993	4,810		{ 12,360	...	...
\$7,000 under \$8,000	13,083	24,220	12,791	15,077	...	...
\$8,000 under \$9,000	11,342	14,900	19,461	19,299	...	...
\$9,000 under \$10,000	12,552	22,016	13,742	19,219	...	...
\$10,000 under \$11,000	14,355	10,824	9,767	10,713	...	...
\$11,000 under \$12,000	10,405	12,983	8,244	17,679	...	...
\$12,000 under \$13,000	12,112	13,433	11,218	11,753	...	...
\$13,000 under \$14,000	11,138	9,194	12,299	10,428	...	...
\$14,000 under \$15,000	8,086	10,335	14,345	10,929	...	...
\$15,000 under \$20,000	31,559	32,635	34,624	37,966	...	...
\$20,000 under \$25,000	13,173	16,697	17,344	21,455	...	...
\$25,000 under \$30,000	4,698	6,747	9,888	10,878	...	...
\$30,000 under \$50,000	5,411	4,654	6,341	9,817	...	...
\$50,000 under \$100,000	1,480	1,691	2,076	2,717	...	...
\$100,000 under \$200,000	254	286	350	440	...	...
\$200,000 under \$500,000	50	55	73	95	...	...
\$500,000 under \$1,000,000	} 4	12	{ 5	15	...	...
\$1,000,000 or more			{ 5	5	...	...
Median income (dollars)	6,928	8,138	8,040	8,560	...	...

¹ Preliminary; distribution and median not available.

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

**Table 140.—STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1974.
BY ADJUSTED GROSS INCOME CLASS**

Adjusted gross income class	Number of returns ¹	Adjusted gross income ² (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
All returns	351,867	3,705,597	2,407,936	160,460
Taxable returns	280,693	3,555,330	2,366,895	158,059
\$500, under \$1,000	4,252	3,924	343	9
\$1,000 under \$2,000	23,935	35,631	13,399	340
\$2,000 under \$3,000	18,506	45,928	23,901	781
\$3,000 under \$4,000	15,051	52,599	31,448	1,265
\$4,000 under \$5,000	14,157	64,013	38,994	1,777
\$5,000 under \$6,000	14,755	81,013	49,690	2,449
\$6,000 under \$8,000	27,416	191,299	125,293	6,806
\$8,000 under \$10,000	22,903	206,190	136,097	7,905
\$10,000 under \$15,000	51,139	634,919	414,171	25,110
\$15,000 under \$20,000	37,103	642,424	421,065	27,033
\$20,000 under \$25,000	22,949	510,910	337,844	22,869
\$25,000 under \$30,000	12,402	337,268	231,590	16,541
\$30,000 under \$50,000	12,650	458,651	326,408	25,238
\$50,000 under \$75,000	2,190	130,272	95,397	8,267
\$75,000 under \$100,000	676	57,649	42,854	3,940
\$100,000 under \$150,000	381	45,517	34,965	3,357
\$150,000 and over	228	57,124	43,439	4,372
Nontaxable returns	51,451	69,960	—	—
Loss	1,208	-6,540	—	—
Under \$500	22,031	4,684	—	—
\$500 under \$1,000	13,392	9,289	—	—
\$1,000 under \$2,000	5,179	7,439	—	—
\$2,000 under \$3,000	3,493	8,534	—	—
\$3,000 under \$4,000	2,147	7,468	—	—
\$4,000 under \$5,000	1,297	5,763	—	—
\$5,000 and over	2,704	26,784	—	—
Nonresident returns	19,723	80,306	41,041	2,401

¹ The median adjusted gross income for taxable returns was \$9,945 (\$5,193 for single returns and \$16,667 for joint returns); for taxable and non-taxable returns combined, it was \$7,844 (\$3,774 for single returns and \$15,319 for joint returns).

² Totals and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns 1974, Individuals*.

Table 141.—FEDERAL OUTLAYS IN HAWAII: 1968 TO 1976
(In thousands of dollars. For fiscal years ended June 30.)

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

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

Table 142.—FEDERAL OUTLAYS IN HAWAII, BY AGENCY AND FUNCTION: FISCAL 1976

Agency and function	Outlay (\$1,000)
Total outlays	2,162,221
Agency:	
Dept. of Agriculture	52,751
Dept. of Commerce	8,237
Dept. of Defense	1,221,098
Dept. of Health, Education and Welfare	390,607
Dept. of Housing and Urban Development	1,531
Dept. of the Interior	6,196
Dept. of Justice	12,072
Dept. of Labor	50,925
Dept. of State	9,161
Dept. of Transportation	60,233
Treasury Dept.	75,137
Civil Service Commission	85,941
Environmental Protection Agency	49,160
Postal Service	34,520
Veterans Administration	75,650
Other agencies	29,004
Function:	
Dept. of Defense—military	1,221,098
Pollution control and abatement	49,160
Payment to the Postal Service	34,520
Air transportation	22,562
Water transportation	25,747
Elem., sec., and voc. education	25,965
Manpower training	33,381
Health care services	92,638
General retirement and disability insurance	204,009
Federal employee retirement and disability	72,391
Public assistance and other income supplements	91,314
Income security for veterans	25,595
Veterans education, trng., and rehab.	42,712
General revenue sharing	27,548
Interest on the public debt	36,378
Other functions	157,204

Source: U.S. Community Services Administration, *Federal Outlays in Hawaii, Fiscal Year 1976*, FIXS-76-12.

Table 143.—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 144.—PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS:
1958 TO 1976**

(In millions of dollars. As of December 31.)

Year	Total outstanding	Governmental unit and funds charged with debt service costs	Outstanding, 1976
1958	214.4	All units	1,667.2
1959	273.8		
1960	285.6	State	1,385.9
1961	306.8	General fund	782.5
1962	312.7	Highway fund	115.4
1963	386.5	Airport revenues	237.1
1964	423.6	Other funds	250.9
1965	454.1		
1966	412.3	Honolulu	211.0
1967	472.9	General fund (State issues)	1.5
1968	533.8	General fund (County issues)	120.2
1969	631.3	Other funds	89.3
1970	742.0		
1971	925.5	Maui	21.0
1972	1,080.4	General fund (State issues)	0.1
1973	1,219.4	General fund (County issues)	17.8
1974	1,274.4	Other funds	3.1
1975	1,435.9		
1976	1,667.2	Hawaii	36.9
		General fund (State issues)	1.0
		General fund (County issues)	35.6
		Other funds	0.4
		Kauai	12.4
		General fund (State issues)	0.0
		General fund (County issues)	11.7
		Other funds	0.7

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

Table 145.—STATE GENERAL OBLIGATION BOND DEBT: 1958 TO 1976
(In dollars. As of June 30.)

Year	G.O. bond debt	Cash reserve for serial bonds	Net debt
1958	94,357,000.00	2,349,346.80	92,007,653.20
1959	116,957,000.00	2,166,093.04	114,790,906.96
1960	111,690,000.00	2,498,407.51	109,191,592.49
1961	105,618,000.00	3,460,294.46	102,157,705.54
1962	118,081,000.00	3,460,294.46	114,620,705.54
1963	120,544,000.00	3,460,294.46	117,083,705.54
1964	169,935,000.00	3,458,114.64	166,476,885.36
1965	194,287,000.00	3,193,494.45	191,093,505.55
1966	209,063,400.00	3,633,138.16	205,430,261.84
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

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

**Table 146.—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	79,390	32,680	3,380	5,990	11,820	11,480	35,290	11,430	41,000
1973	78,030	31,640	3,300	6,050	11,250	11,050	35,250	11,140	44,600
1974	78,890	31,010	3,280	5,720	11,210	10,810	35,940	11,940	46,898
1975	81,980	30,530	3,300	5,290	11,080	10,860	38,700	12,750	45,989
1976	84,800	29,800	3,200	4,900	11,100	10,600	41,400	13,600	44,838
1977 ²	87,800	29,100	3,100	4,800	11,100	10,100	45,600	13,100	(NA)

NA Not available.

¹ Excludes Naval personnel aboard ships.

² April data.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates* (annual, 1967-1969), *State of Hawaii Labor Force Statistics* (annual, 1970-1974), and records; U.S. Department of Commerce, Bureau of Economic Analysis, unpublished data on armed forces ashore.

Table 147.—STATE CIVIL SERVICE: 1971 TO 1976
(Years ended June 30)

Subject	1971	1975	1976
Civil service employees	14,280	14,792	16,048
Department of Education	3,202	3,549	3,794
Department of Health	3,109	3,251	3,519
Department of Social Services and Housing	1,128	1,260	1,507
Department of Transportation	1,613	1,582	1,758
University of Hawaii	1,747	1,615	1,687
All others	3,481	3,535	3,783
Separations	1,846	1,337	1,439
Promotions	906	701	975
Transfers, demotions, and returns after promotions	1,008	614	947
Classification actions processed	(NA)	2,591	3,641
Applications received	23,587	18,449	31,021
Applicants examined	(NA)	11,900	15,141
Applicants placed on eligible list	12,587	8,951	11,656
Eligibles certified for vacancies	18,540	17,521	32,236
Vacancies filled through certification of eligibles or non-competitive actions	5,886	3,688	5,309

NA Not available.

Source: Hawaii State Department of Personnel Service, *Annual Report* for 1975 and 1976.

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 and temporary disability 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 \$168.4 million in fiscal 1976, compared with \$46.6 million in 1970 and \$9.3 million in 1960. About 60 percent of the 1976 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1976 was 67,594, or 7.8 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. Seven percent of all welfare cases early in 1977 were recent migrants to Hawaii. The average monthly payment per case for public assistance was \$295, or twice as much as in 1969. Participation in the food stamp program included 34,500 households and 97,300 persons. Among workers receiving unemployment compensation in 1975, weekly benefits averaged \$76.34. More than 91,700 Hawaii residents were receiving Social Security benefits as of the end of 1975, and about 57,500 were enrolled for Medicare. There were also 9,300 State and County government pensioners in 1976, with annual benefits in excess of \$53 million. The Aloha United Way spent \$6.2 million on Oahu during 1976.

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 10 of the *Statistical Abstract of the United States: 1976* presents comparable Mainland data.

Table 148. — SOCIAL WELFARE COSTS: 1966 TO 1976
(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 cost
1966	19,955	8,034	11,921	2,580	6,390	10,985	—
1967	23,704	10,869	12,835	2,642	7,396	13,666	—
1968	29,565	12,941	16,624	2,951	10,297	16,318	—
1969	35,706	15,167	20,539	3,272	12,948	19,486	—
1970	46,566	20,396	26,170	3,730	16,421	26,415	—
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

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

TABLE 149. — PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1966 TO 1976, MONTHLY AVERAGES

Year ended June 30	Major programs ¹		Service cases	Medical payments		Average payments ² (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1966	7,383	19,136	1,457	...	...	123.99	47.84
1967	8,581	22,350	1,311	...	...	132.71	50.96
1968	10,043	26,337	961	...	...	137.39	52.39
1969	11,013	28,845	926	2,492	2,700	147.86	56.45
1970	12,940	34,320	900	2,942	3,370	170.17	64.14
1971	16,467	44,897	743	4,073	4,496	198.20	72.69
1972	20,627	57,462	1,767	4,068	5,672	220.79	79.26
1973	24,400	66,535	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

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.

²Gross obligation basis.

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

Table 150. — PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1975 AND 1976
(Years ended June 30.)

Program	Total payments (\$1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1975	1976	1975	1976	1975	1976
All programs	83,036	102,185	29,236	32,944	237	258
Old age assistance ¹	7,042	7,498	4,972	5,489	118	114
Aid to the blind ¹	229	253	115	122	166	172
Aid to disabled ¹	6,989	7,873	3,369	3,840	173	171
Aid to families with dependent children ²	53,251	66,341	14,339	16,289	309	339
Child welfare foster care	915	1,141	581	583	131	163
General assistance	14,619	18,217	5,860	6,621	208	229

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

²Includes AFDC unemployed parent and AFDC foster care.

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

Table 151. — FOOD STAMPS: 1967 TO 1976
(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

¹Not receiving public assistance recipients (food stamp only).

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

³Amount paid for by recipients.

⁴Bonus or free coupons given to recipients.

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

Table 152. — MIGRATION STATUS OF PUBLIC WELFARE RECIPIENTS: FEBRUARY 1977

Place of birth or last previous residence	Number of welfare cases ¹			Amount of monthly financial assistance (\$1,000)	
	Receiving financial assistance		Food stamps only	All recipients	In Hawaii under 1 year
	Total	In Hawaii under 1 year			
Total	22,443	1,575	12,228	7,080	470
Born in Hawaii	12,766	...	5,392	4,056	...
Born elsewhere	7,520	1,575	6,362	2,272	470
Mainland	4,682	1,088	4,016	1,369	307
Samoa	1,081	195	221	411	68
Philippines	572	32	1,194	132	7
Orient ²	336	40	608	95	9
Southeast Asia ³	499	141	35	158	54
Other ⁴	350	79	288	106	25
Unknown	2,157	...	474	752	...
PERCENT					
Total	100.0	7.0	100.0	100.0	6.6
Born in Hawaii	56.9	...	44.1	57.3	...
Born elsewhere	33.5	7.0	52.0	32.1	6.6
Mainland	20.9	4.8	32.8	19.3	4.3
Samoa	4.8	0.9	1.8	5.8	1.0
Philippines	2.5	0.1	9.8	1.9	0.1
Orient ²	1.5	0.2	5.0	1.3	0.1
Southeast Asia ³	2.2	0.6	0.3	2.2	0.8
Other ⁴	1.6	0.4	2.4	1.5	0.4
Unknown	9.6	...	3.9	10.6	...

¹The number of individuals (rather than cases) was 66,036 receiving financial assistance and 35,320 enrolled in the food stamp only program. Data include Aid to Families with Dependent Children, Unemployed Parent, and General Assistance, but exclude Foster Care, non-needy caretaker cases, SSI and AABD supplements.

²China (122 cases receiving financial assistance), Japan (86), and Korea (128).

³Vietnam (397 cases receiving financial assistance), Cambodia (6), and Laos (96).

⁴Micronesia, Tonga, and other areas.

Source: Hawaii State Department of Social Services and Housing, *In-Migrants on Public Welfare, February 1977* (March 1977), tables 1, 14 and 16.

Table 153. — SOCIAL SECURITY RECIPIENTS AND BENEFITS: 1965 TO 1975

Year	Number of recipients at end of year	Monthly amount payable at end of year (\$1,000)	Total amount paid during year ¹ (\$1,000)
1965.....	46,861	3,254	38,751
1966.....	53,392	3,647	43,906
1967.....	57,254	4,584	48,368
1968.....	59,815	4,826	57,879
1969.....	62,824	5,182	63,893
1970.....	66,488	6,437	77,593
1971.....	70,912	7,666	92,440
1972.....	76,413	10,141	107,125
1973.....	82,224	11,202	134,198
1974.....	87,141	13,433	155,178
1975.....	91,731	15,629	181,775

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

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

Table 154. — MEDICARE ENROLLMENT AND REIMBURSEMENT: 1975

Coverage	Enrollment, July 1, 1975		Reimbursement, 1975 (\$1,000)	
	Age 65 and over	Disabled and renal disease	Age 65 and over	Disabled and renal disease
Hospital and/or medical.....	57,529	5,294	31,310	4,868
Hospital only.....	56,022	5,294	21,211	2,587
Medical only.....	55,770	4,824	10,099	2,281

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

Table 155. — UNEMPLOYMENT INSURANCE: 1970 TO 1977

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	52	131.87	20,655	79	58.15	15.0	21.3
1971.....	309,901	91	12,315	60	135.38	35,390	86	63.38	18.3	33.8
1972.....	321,751	92	14,485	59	141.92	37,865	90	65.57	19.9	41.7
1973.....	335,615	92	12,107	50	151.17	37,014	93	67.57	16.0	30.2
1974.....	342,615	92	13,900	51	162.25	45,208	98	71.86	16.2	35.3
1975.....	350,481	93	18,779	73	174.42	58,942	104	76.34	16.4	34.1
1976.....	(NA)	(NA)	21,480	(NA)	(NA)	71,574	112	83.84	18.9	48.4
1977.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	120	(NA)	(NA)	(NA)

NA Not available.

¹Regular benefits only. Extended benefits amounted to \$773,000 in 1971, \$7,387,000 in 1972, \$21,000 in 1973, \$170 in 1974, \$11,831,000 in 1975, and \$19,596,000 in 1976.

²Regular 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.

³Regular benefits only.

Source: Hawaii State Department of Labor and Industrial Relations, *Unemployment Insurance Fact Book* (July 1977), and records.

Table 156. — HAWAII STATE EMPLOYEES RETIREMENT SYSTEM: 1970 TO 1976

Year	Membership, March 31	Pensioners, March 31	Assets, June 30 (\$1,000)	Total benefits paid ¹ (\$1000)	Administration expenses ¹ (\$1000)
1970	38,912	5,641	388,561	22,822	337
1971	42,262	6,069	435,464	25,665	419
1972	43,736	6,667	489,437	31,359	479
1973	44,471	7,343	545,465	37,602	426
1974	43,371	7,971	611,676	41,130	488
1975	44,363	8,600	683,305	46,782	564
1976	45,256	9,263	773,878	53,626	632

¹Years ended June 30. Benefits data exclude Pensioners' Bonus and Social Security.

Source: Hawaii State Employees' Retirement System, *51st Annual Report, June 30, 1976* (Publication No. 48), p. 19.

Table 157. — ALOHA UNITED WAY REVENUE AND EXPENDITURES, FOR OAHU: 1967 TO 1976
(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

¹Before adjustment for uncollectible allowance.

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

Source: Aloha United Way, *Annual Report, 1967-1976*.

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 59,700 officers and enlisted men (including 13,300 aboard ships homeported in Hawaii) and almost 67,000 military dependents in the Islands as of July 1, 1976. 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 10,000 Hawaii residents were in the armed forces worldwide in 1976. The importance of national defense in Hawaii can be further measured by total expenditures (\$1,034,000,000), military prime contract awards (\$363 million), civilian employment (19,200), veterans in civil life (93,000), military personnel receiving retired or retainer pay (7,800 men, receiving \$63 million), federally-connected pupils in public schools (43,300), military housing (17,200 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-1975, for example, the number of armed forces in Hawaii was reported as 56,426 by DOD, 58,762 by the Bureau of the Census, 45,989 by the Bureau of Economic Analysis (which excludes ships crews), and 58,205 by the local commanding officers reporting to DPED. Section 11 of the *Statistical Abstract of the United States: 1976* presents data on national defense and veterans affairs for other States and the entire nation.

Table 158. — ARMED FORCES AND DEPENDENTS: 1970 TO 1976

(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

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

²Navy personnel afloat, identified with nearest port.

Source: Office of the Assistant Secretary of Defense, records.

Table 159. — MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1966 TO 1977

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

Year (as of July 1), island, and service	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families in Hawaii
		Total	Ashore	Aboard ship ¹		
1966.....	112,359	49,737	31,476	18,261	62,622	21,154
1967.....	112,303	51,002	38,904	12,098	61,301	20,854
1968.....	107,746	48,613	36,712	11,901	59,133	21,818
1969.....	115,979	56,282	38,601	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
ISLAND: 1976						
Oahu.....	125,983	59,394	46,138	13,256	66,589	26,249
French Frigate Shoals....	21	21	21	—	—	—
Kure Atoll.....	25	25	25	—	—	—
Hawaii.....	240	135	121	14	105	39
Kauai.....	340	137	137	—	203	86
Maui.....	80	21	7	14	59	20
Molokai.....	5	4	4	—	1	1
SERVICE: 1976						
Air Force.....	20,973	6,500	6,500	—	14,473	4,913
Army.....	38,164	19,200	19,200	—	18,964	7,812
Coast Guard.....	2,356	1,217	760	457	1,139	420
Marine Corps.....	15,853	8,479	8,479	—	7,374	3,163
Navy.....	49,348	24,341	11,514	12,827	25,007	10,087

¹Navy and Coast Guard personnel aboard ships homeported in Hawaii, regardless of location on date specified.Source: Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii* (semi-annual or annual report).**Table 160. — DEFENSE EXPENDITURES, BY CATEGORY AND SERVICE: 1976**

(In thousands of dollars. For earlier years, see table 181.)

Expenditure category	All services	Air Force	Army	Navy and Marines	Coast Guard
All categories.....	1,034,226	110,406	419,952	484,102	19,766
Military payroll.....	420,051	52,883	186,719	165,438	15,011
Civilian payroll.....	301,347	25,598	75,249	197,710	2,790
Supplies, equipment, services.....	312,828	31,925	157,984	120,954	1,965

Source: Quarterly reports of armed forces.

**Table 161. — MILITARY PRIME CONTRACT AWARDS OF \$10,000 OR MORE,
BY SERVICE: 1960 TO 1976**

(In thousands of dollars. For fiscal years ended June 30. Excludes material and component fabrication and other subcontract work done out of State.)

Year	Total	Army ¹	Navy	Air Force	Defense Supply Agency	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.....	72,215	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	...

¹Includes "other defense agencies" after 1965.

Source: U.S. Department of Defense, OASD (Comptroller), Directorate for Information Operations, *Prime Contract Awards by State* (c. 1977).

Table 162. — 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

¹Land 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 163. — MISCELLANEOUS STATISTICS ON THE ARMED FORCES: 1973 TO 1976

Subject	1973	1974	1975	1976
Hawaii residents on active duty, June 30	10,200	10,810	10,640	10,600
National Guard strength, June 30	4,822	4,859	5,062	5,090
Hawaii Air National Guard	1,539	1,493	1,554	1,626
Hawaii Army National Guard	3,283	3,366	3,508	3,464
Veterans in civil life, June 30	92,000	93,000	93,000	94,000
War Veterans	79,000	80,000	81,000	81,000
Vietnam era	29,000	31,000	31,000	32,000
Korean conflict	21,000	20,000	21,000	21,000
World War II	33,000	32,000	33,000	32,000
World War I	2,000	2,000	2,000	1,000
Service Feb. 1955-Aug. 1964 only	13,000	13,000	12,000	13,000
Military personnel receiving retired or retainer pay as of June 30, all services	6,403	6,895	7,205	7,780
Annual rate (\$1,000)	34,285	42,006	51,041	62,567
Civilian employment, annual average	20,590	20,200	19,700	19,200
Air Force	3,300	3,280	3,300	3,200
Army	6,050	5,720	5,300	4,900
Navy	11,250	11,210	11,100	11,100
Federally-connected pupils in public schools, Fall	45,144	42,933	45,488	43,323
Housing units operated by the armed forces, July 1	15,344	16,570	16,301	17,156
Owned by the armed forces	14,507	15,860	15,814	16,862
Leased from private owners	837	710	487	294

Source: Office of the Assistant Secretary of Defense, records; Hawaii State Department of Defense, *Annual Report* (annual); Administrator of Veterans Affairs, *Annual Report* (annual), and *Veteran Population* (semi-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).

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 non-agricultural workers (excluding armed forces) rose from 99,000 to 275,000. Civilian employment averaged 297,000 in 1970 and 361,000 six years later, an increase of 22 percent. The unemployment rate averaged 9.8 percent in 1976, with county levels ranging from 9.4 to 11.4 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 (84,800 in 1976, about 35 percent of them in federal jobs), services (73,900), retail trade (69,800), construction (23,500), and manufacturing (24,100). Wage and salary levels are high: the average annual earnings of private wage and salary workers under the Hawaii Employment Security Law reached \$9,070 in 1975 (twice the 1963 average), and in some categories exceeded \$15,000. Average weekly hours in 1975 ranged from 29.9 (for hotels) to 42.4 (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.

Principal sources for the data on labor force, employment, 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 12 of the *Statistical Abstract of the United States: 1976*.

Table 164. — EMPLOYMENT STATUS AND JOBS: ANNUAL AVERAGES, 1970 TO 1976, AND APRIL 1977

Year	Employment status (persons) ¹				Jobs ²	
	Civilian labor force	Civilian employment	Unemployment		Number	Per employed person
			Number	Percent		
1970	311,150	297,110	14,040	4.5	331,070	1.11
1971	325,330	304,680	20,640	6.3	338,940	1.11
1972	338,670	313,950	24,710	7.3	349,650	1.11
1973	351,670	327,590	24,080	6.8	364,870	1.11
1974	359,070	331,930	27,140	7.6	368,470	1.11
1975	356,440	330,760	25,680	7.2	375,700	1.14
1976 ³	364,250	333,180	31,070	8.5	378,700	1.14
1976 ⁴	400,000	361,000	39,000	9.8	378,700	1.05
1977: April	395,300	366,000	29,000	7.4	383,150	1.05

¹Estimates for 1970-1976 were initially derived from data on persons covered by the Hawaii Employment Security Law. Beginning in 1976, estimates have been based on the Current Population Survey. Although the 1970-1976 and 1976-forward series are based on similar definitions, the change in methodology has affected the comparability of data for the two periods. Prior to 1970, estimates of employment status related more to jobs than to persons, and a person with more than one job was usually counted once for each position he occupied; data for years prior to 1970 (reported in *The State of Hawaii Data Book 1976*, table 150, p. 148) are accordingly conceptually non-comparable to more recent estimates.

²Excludes vacant positions and those in labor disputes.

³Based on methodology used for 1970-1975 and not directly comparable to estimates for later dates.

⁴Benchmarked to the 1976 Current Population Survey and not directly comparable to earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Labor Force Statistics* for 1970-1974, *Labor Area Summary* for May 1977, and records.

Table 165. — 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
Aug. 1976	41,500	10.1

¹Based on civilian labor force.

²Data limited to city of Honolulu. Excludes persons on public emergency work; inclusion of this group would raise the unemployment rate to 12.4 percent.

³Data 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 Area Summary* (monthly, 1975-1977).

Table 166. — EMPLOYMENT STATUS, BY COUNTY AND ISLAND: ANNUAL AVERAGES, 1970 TO 1977

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County		
					County total	Maui	Molokai and Lanai
Civilian labor force:							
1970	311,150	250,570	27,400	13,200	19,980	16,660	3,320
1971	325,330	261,670	29,190	13,720	20,750	17,510	3,240
1972	338,670	272,840	29,920	14,040	21,870	18,660	3,210
1973	351,670	283,650	31,000	14,270	22,750	19,630	3,120
1974	359,070	290,030	31,870	14,230	22,940	20,040	2,900
1975	356,440	286,460	32,030	14,580	23,370	20,560	2,810
1976 ¹	400,000	320,300	36,500	16,400	26,900	23,700	3,200
1977: Apr. ¹	395,300	317,000	35,500	16,100	26,700	...	...
Civilian employment:							
1970	297,110	239,530	26,310	12,570	18,700	15,590	3,110
1971	304,680	245,300	27,350	12,930	19,100	16,230	2,870
1972	313,950	253,460	27,850	13,010	19,630	17,000	2,630
1973	327,590	265,130	28,590	13,230	20,640	18,070	2,570
1974	331,930	269,110	28,960	13,080	20,780	18,380	2,400
1975	330,760	266,900	29,280	13,390	21,190	18,910	2,280
1976 ¹	361,000	290,000	32,400	14,700	23,800	21,300	2,500
1977: Apr. ¹	366,000	294,500	32,100	14,900	24,500	...	...
Unemployment:							
1970	14,040	11,040	1,100	630	1,270	1,060	210
1971	20,640	16,370	1,840	790	1,640	1,280	360
1972	24,710	19,380	2,070	1,030	2,230	1,650	580
1973	24,080	18,520	2,410	1,040	2,110	1,550	560
1974	27,140	20,920	2,910	1,150	2,160	1,660	500
1975	25,680	19,560	2,750	1,190	2,180	1,650	530
1976 ¹	39,000	30,200	4,100	1,600	3,100	2,400	600
1977: Apr. ¹	29,300	22,500	3,400	1,200	2,200	...	...
Percent unemployed:							
1970	4.5	4.4	4.0	4.8	6.4	6.4	6.3
1971	6.3	6.3	6.3	5.7	7.9	7.3	11.0
1972	7.3	7.1	6.9	7.4	10.2	8.9	18.0
1973	6.8	6.5	7.8	7.3	9.3	7.9	17.8
1974	7.6	7.2	9.1	8.1	9.4	8.3	17.3
1975	7.2	6.8	8.6	8.2	9.3	8.0	18.7
1976 ¹	9.8	9.4	11.2	9.8	11.4	10.2	20.1
1977: Apr. ¹	7.4	7.1	9.5	7.4	8.1	...	...

¹The 1976 estimates have been benchmarked to 1976 annual averages from the Current Population Survey, and are not directly comparable to data for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Area Summary, May 1977*, and records.

Table 167. — 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 167. — 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 168. — 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 169. — EMPLOYMENT, BY CLASS OF WORKER AND INDUSTRY: ANNUAL AVERAGES,
1971 AND 1976**

(Data refer to jobs rather than persons—workers holding more than one job are counted more than once—and thus are not comparable to estimates in tables 164 and 166.)

Industry and class of worker	State totals		Counties or islands: 1976			
	1971	1976	Oahu	Hawaii County	Kauai County	Maui County
Nonagricultural, wage or salary	301,550	341,800	287,300	24,400	11,100	18,900
Construction	23,420	23,500	19,800	1,500	700	1,600
Manufacturing	25,090	24,100	17,500	3,100	1,300	2,100
Durable goods	4,700	4,700	4,100	300	(Z)	300
Food processing	13,140	11,300	6,200	2,300	1,200	1,600
Sugar	4,930	4,400	800	1,600	1,100	900
Pineapple	4,600	(D)	(D)	—	—	(D)
Other food proc.	3,610	(D)	(D)	700	100	(D)
Other nondurable goods	7,250	1,600	1,300	200	(Z)	(Z)
Transp., comm., utilities	24,000	25,800	21,700	1,600	1,200	1,300
Trades	71,360	85,900	73,300	5,900	2,500	4,200
Wholesale	15,910	16,100	14,000	1,300	200	500
Retail	55,450	69,800	59,300	4,600	2,200	3,700
Finance, insur., real estate	18,920	23,800	21,400	800	500	1,100
Services and miscell.	60,550	73,900	60,900	5,700	2,500	4,800
Hotels	15,550	19,600	12,400	3,300	1,200	2,800
Other services, misc.	45,000	54,300	48,500	2,500	1,300	2,100
Government	78,220	84,800	72,600	5,800	2,600	3,800
Federal	32,920	29,800	28,900	400	200	200
Air Force	3,430	3,200	3,100	(Z)	100	—
Army	6,020	4,900	4,900	(Z)	(Z)	(Z)
Navy	12,070	11,100	11,000	—	100	—
Other federal	11,400	10,600	9,900	400	100	200
State	34,920	41,400	33,700	3,700	1,500	2,500
Local	10,380	13,600	10,000	1,700	800	1,100
Agricultural, wage or salary	11,810	11,000	2,800	3,400	1,600	3,200
Sugar	5,760	5,000	800	1,600	1,300	1,300
Pineapple	3,340	(D)	(D)	—	—	(D)
Other agricultural	2,710	(D)	(D)	1,900	300	(D)
Self-employed and other ¹	25,580	25,900	17,700	4,600	1,300	2,400
Labor disputes	110	200	200	(Z)	(Z)	(Z)

(D) Figure withheld to avoid disclosure.

(Z) Less than 50.

¹Includes unpaid family workers and domestics.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Labor Force Statistics ... 1971*, and records.

Table 170. — NON-GOVERNMENTAL EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW: 1965 TO 1975

(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 (\$)
1965	160,715	796,161	4,954	148,057	736,969	4,978
1966	169,206	881,783	5,211	157,557	821,269	5,213
1967	175,202	948,425	5,413	163,041	885,410	5,431
1968	185,551	1,088,657	5,867	174,144	1,026,294	5,893
1969	205,053	1,311,655	6,397	193,817	1,246,449	6,431
1970	221,457	1,518,727	6,858	217,422	1,495,653	6,879
1971	225,562	1,588,451	7,042	221,646	1,565,091	7,061
1972	231,264	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

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

Table 171. — EMPLOYMENT AND PAYROLLS COVERED BY HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY AND COUNTY: 1975

County and industry	Number of employers, December	Average employment	Total wages (dollars)	Average annual wage (dollars)
All counties (excluding government)	16,552	267,805	2,439,226,095	9,108
City and County of Honolulu	13,097	217,879	2,017,699,654	9,261
Hawaii County	1,579	21,291	183,051,179	8,598
Kauai County	633	9,997	80,894,160	8,092
Maui County	1,243	18,639	157,581,102	8,454
All industries (including government)	16,558	349,887	3,417,570,294	9,767
Agriculture, forestry, fisheries ¹	511	11,085	103,280,112	9,317
Sugar	18	5,395	60,610,146	11,234
Pineapple	6	2,384	19,343,537	8,114
Other	487	3,306	23,326,429	7,056
Mining and contract construction	1,588	26,339	385,103,473	14,622
Manufacturing	720	23,798	239,301,253	10,056
Pineapple canning	3	3,278	21,678,927	6,613
Sugar mill	17	4,117	53,978,282	13,111
Other food processing	178	3,994	37,116,302	9,293
Other manufacturing	522	12,409	126,527,742	10,196
Transportation	605	17,441	201,875,413	11,574
Communications	67	6,376	83,787,833	13,141
Utilities	46	2,584	40,167,246	15,551
Wholesale trade	1,512	15,876	175,973,864	11,084
Retail trade	3,931	67,895	414,725,111	6,108
Finance, insurance, real estate	1,984	22,312	230,482,766	10,330
Services	5,545	73,994	563,776,701	7,619
Nonclassifiable establishments	43	105	752,323	7,165
Government	6	82,082	978,344,199	11,919
Federal	1	30,529	427,505,390	14,004
State	1	38,805	409,997,740	10,565
County	4	12,748	140,841,069	11,048

¹Includes workers insured under the self-financed program.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii, 1975* (October 1976), as corrected.

Table 172. — HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1966 TO 1976

Industry	Ave. weekly earnings (dollars)			Average weekly hours			Ave. hourly earnings (dollars)		
	1966	1975	1976	1966	1975	1976	1966	1975	1976
Contract construction	159.33	296.00	318.56	38.3	37.9	36.2	4.16	7.81	8.80
Manufacturing	98.58	181.10	(NA)	40.4	39.2	(NA)	2.44	4.62	(NA)
Food and kindred products	93.61	172.00	(NA)	40.7	40.0	(NA)	2.30	4.30	(NA)
Communication and utilities	145.77	262.88	288.58	43.0	42.4	42.5	3.39	6.20	6.79
Trade ¹	75.46	128.51	(NA)	34.3	32.7	(NA)	2.20	3.93	(NA)
Wholesale trade	96.77	176.01	(NA)	37.8	36.9	(NA)	2.56	4.77	(NA)
Retail trade	65.73	112.37	(NA)	32.7	31.3	(NA)	2.01	3.59	(NA)
Finance	90.27	148.13	164.10	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Hotels	72.87	104.65	128.61	34.7	29.9	31.6	2.10	3.50	4.07
Laundries	51.45	96.17	105.95	35.0	35.1	35.2	1.47	2.74	3.01

NA Not available.

¹Excludes eating and drinking establishments.

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

Table 173. — AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS: 1971 AND 1976

(In dollars)

Job classification	Total employment ¹		Private employment, by island: 1976				
	1971	1976	State average	Kauai	Oahu	Maui	Hawaii
MONTHLY RATES							
Junior typist	402	579	566	...	562	...	610
Clerk-stenographer	539	757	704	...	689	789	777
Secretary	587	846	772	838	767	813	791
Accountant (entry level)	681	928	934	...	938	...	...
Drafting technician	578	849	937	...	...	...	...
Civil engineer (entry level)	854	984	...	...	...	...	...
Hospital attendant	392	604	597	...	603	521	...
Staff nurse	720	1,037	994	...	995	921	...
HOURLY RATES							
Housekeeper .....	...	3.42	3.42	3.33	3.47	3.28	3.30
Cook, general	3.44	5.13	5.10	5.30	5.01	5.25	5.28
Waiter/waitress	1.80	2.42	2.41	2.44	2.41	2.37	2.40
Laborer (light)	2.56	3.79	3.87	4.07	3.83	3.83	3.97
Carpenter (maintenance)	4.15	6.39	5.86	5.87	6.01	5.63	5.44
Electrician (maintenance)	5.02	7.88	6.83	6.03	7.30	5.84	6.20
Automotive mechanic	4.25	6.21	6.11	5.79	6.42	5.73	5.90
Truck driver (1½-5 tons)	3.67	5.27	4.85	4.60	5.08	4.73	4.32

¹Statewide average for both private and government employment.

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

**Table 174. — LABOR TURNOVER RATES FOR MANUFACTURING
(EXCEPT PINEAPPLE CANNING): 1961 TO 1975**

Year	Annual accession rates ¹		Annual separation rates ²		
	Total	New hires	Total	Quits	Layoffs
1961	2.5	2.0	2.7	1.4	0.8
1962	2.9	1.6	3.3	1.1	1.4
1963	3.0	1.8	3.2	1.1	1.1
1964	3.5	2.2	3.3	1.3	0.8
1965	3.1	2.2	2.9	1.3	0.5
1966	2.8	2.0	2.9	1.5	0.4
1967	2.7	1.9	2.7	1.2	0.5
1968	3.4	2.4	3.0	1.5	0.4
1969	3.5	2.9	3.1	1.9	0.2
1970	2.8	2.1	3.2	1.6	0.7
1971	2.2	1.5	2.3	1.1	0.5
1972	2.2	1.8	2.4	1.2	0.3
1973	2.6	2.2	2.5	1.4	0.3
1974	2.3	1.8	2.3	1.2	0.5
1975	2.1	1.5	2.2	1.0	0.6

¹Number of additions per 100 employees.

²Number of terminations per 100 employees.

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

Table 175. — INTERSTATE MOVEMENT OF JOB-SEEKERS: 1970 TO 1976

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 ⁴	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

¹Interstate liable initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland.

²Interstate 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.

³Interstate agent initial claims as a percent of interstate liable initial claims. Ratios under 100 suggest a net out-migration of workers.

⁴Excludes 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 176. — CHILD LABOR CERTIFICATES ISSUED: 1976

Age	Both sexes	Male	Female
18 years old and under	14,345	8,097	6,248
13 years old and under	306	129	177
14 and 15 years old	2,090	1,367	723
16 to 18 years old	11,949	6,601	5,348

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

Table 177. — 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.

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

²Accidental deaths per 100,000 total resident population.

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

Table 178. — 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 179. — 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 & Co. of Honolulu	201,000	65,500	50,600	5,700	8,500	700	135,500
Hawaii County	22,000	10,020	4,100	100	5,800	20	12,000
Maui County	16,300	9,780	3,500	50	6,200	30	6,500
Kauai County	9,800	5,060	1,900	40	3,100	20	4,700

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

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

Table 180. — WORK STOPPAGES: 1960 TO 1975

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
ISLANDS: 1975				
Oahu	10	1,700	30,600	(NA)
Others	3	200	1,800	(NA)

NA Not available.

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

Source: U.S. Bureau of Labor Statistics data summarized in *Statistical Abstract of the United States* (annual); U.S. Bureau of Labor Statistics, *Work Stoppages* . . . (annual reports), and records.

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 1975 amounted to approximately \$6.7 billion, or about triple the 1963 total. The major sources of income to Hawaii in 1976 were defense expenditures (\$1.03 billion), pineapple production (\$120 million), sugar production (\$252 million), and visitor expenditures (\$1.45 billion). Personal income in 1976 was \$6.1 billion, compared with \$2.2 billion only ten years earlier, and per capita personal income was \$6,969, more than twice the 1966 level. The per capita figure for Hawaii exceeded the national average by 8 percent, and thus failed to compensate for the Islands' 21-27 percent higher cost of living. The median annual income of Oahu families, based on data for 1974, was \$10,319 for families headed by a member of the armed forces, \$16,250 for civilian families, and \$14,611 for all families combined. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in May 1977 at \$6,730. 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 1961, reported that the largest items in the family budget on Oahu were food and beverages (accounting for 28.3 percent of spending for current consumption) and housing (25.6 percent); an updated survey is scheduled for release in the near future.

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 Health, Hawaii State Department of Planning and Economic Development, Bank of Hawaii and First Hawaiian Bank. Comparable data for the country as a whole are given in *Statistical Abstract of the United States: 1976*, Section 13.

Table 181. — DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1966 TO 1976
(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		
1966.....	1,076	179.6	127.7	488.4	280
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.....	2,756	366.1	136.7	982.8	1,270
1976.....	2,856	252.0	120.0	1,034.2	1,450

¹Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews. Data for 1969-1973 are revisions.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian* (annual) and records; First Hawaiian Bank, Research and Planning Division, records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, *1976 Annual Research Report*, table 1.

Table 182. — GROSS STATE PRODUCT: 1958 TO 1975

Year	Charges against gross state product ¹ (millions of current dollars)	Charges against domestic state product ²			
		Total (in millions of dollars)		Per capita ³ (in dollars)	
		Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,411.4	1,433.0	2,265	2,367	3,741
1959	1,593.9	1,618.6	2,477	2,602	3,982
1960	1,824.4	1,835.2	2,715	2,861	4,232
1961	1,915.3	1,929.4	2,777	2,929	4,216
1962	2,007.1	2,024.7	2,918	2,964	4,261
1963	2,089.0	2,113.0	2,907	3,097	4,261
1964	2,288.0	2,315.9	3,179	3,309	4,542
1965	2,448.7	2,475.0	3,395	3,517	4,824
1966	2,713.1	2,746.8	3,567	3,867	5,022
1967	2,981.7	3,014.1	3,875	4,172	5,363
1968	3,317.3	3,352.8	3,976	4,565	5,413
1969	3,683.7	3,727.5	4,135	4,969	5,512
1970	4,137.9	4,187.7	4,452	5,409	5,750
1971	4,475.3	4,521.7	4,750	5,666	5,952
1972	4,937.8	4,962.0	4,966	6,045	6,049
1973	5,621.9	5,673.8	5,566	6,722	6,594
1974	6,019.8	6,074.9	5,527	7,113	6,471
1975 ⁴	6,620.5	6,678.6	5,688	7,691	6,550

¹Equivalent to gross domestic product in the national accounts.

²Equivalent to gross national product in the national accounts.

³Based on estimated total resident population.

⁴Preliminary.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii Income and Expenditure Accounts, 1958-1975* (forthcoming).

Table 183. — CHARGES AGAINST GROSS DOMESTIC PRODUCT: 1960 TO 1975

(In millions of current dollars)

Transactions	1960	1965	1970	1975
Labor income	1,112.3	1,548.0	2,734.1	4,191.0
Employer's contributions for social insurance:				
State and local unemployment	5.0	10.7	14.1	30.1
Federal unemployment .....	.9	1.5	2.8	5.2
OASDHI	31.1	53.0	126.5	237.0
Income of unincorporated enterprises	143.1	163.2	201.5	286.6
Rental income; dividends and net interest	187.0	266.1	472.9	796.0
Undistributed profits of domestic corporations	100.7	49.8	-4.0	69.2
Corporate tax:				
State	5.7	8.6	13.7	31.5
Federal	40.0	54.7	66.5	144.4
Indirect business tax less subsidies:				
State and local	11.5	138.8	250.9	398.6
Federal	3.6	6.6	16.2	28.3
Business transfer payments	8.2	11.4	11.4	18.5
Capital consumption allowance	75.3	138.3	231.3	384.7
Charges against gross state product	1,824.4	2,448.7	4,137.9	6,620.5
Net factor payments to abroad and net corporate profits remitted abroad	10.8	26.3	43.8	58.1
Charges against gross domestic product	1,835.2	2,475.0	4,181.7	6,678.6

Source: Hawaii State Department of Planning and Economic Development, *Hawaii Income and Expenditure Accounts, 1958-1975* (forthcoming).

Table 184. — EXPENDITURES ON GROSS DOMESTIC PRODUCT: 1960 TO 1975

(In millions of current dollars. Data are preliminary and subject to revision.)

Transaction	1960	1965	1970	1975
Personal consumption expenditures	1,133.6	1,443.2	2,506.9	3,917.3
Government purchase of goods and services:				
State and counties	220.6	371.9	758.9	1,241.9
Federal	430.6	535.0	818.9	1,287.1
Construction, plant and equipment	297.8	394.1	877.1	1,409.7
Change of inventories	14.1	57.7	33.0	83.2
Export of goods and services	513.8	730.9	1,237.8	2,663.0
Expenditure on gross domestic output, including imports	2,610.5	3,532.8	6,232.6	10,602.2
Less: Imports of goods and services	775.3	1,057.8	2,050.9	3,923.6
Expenditures on gross domestic product	1,835.2	2,475.0	4,181.7	6,678.6

Source: Hawaii State Department of Planning and Economic Development, *Hawaii Income and Expenditure Accounts, 1958-1975* (forthcoming).

Table 185. — ESTIMATED HOUSEHOLD EXPENDITURES: 1960 TO 1975

(In millions of current dollars. Data are preliminary and subject to revision.)

Transactions	1960	1965	1970	1975
Total ¹	1,167.0	1,696.3	3,033.4	4,928.0
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	53.7	87.1	166.8	316.3
Personal business	47.6	79.4	143.8	236.8
Transportation	149.3	187.0	354.1	534.2
Recreation	67.3	107.0	235.8	412.3
Private education and research	10.7	15.8	24.9	42.4
Religious and welfare activities	15.2	20.5	36.8	56.7
Out-of-state travel by Hawaii residents	60.2	96.0	206.4	291.1

¹Includes personal expenditures in Hawaii by non-residents.Source: Hawaii State Department of Planning and Economic Development, *Hawaii Income and Expenditure Accounts, 1958-1975* (forthcoming).**Table 186. — PERSONAL INCOME, TOTAL AND PER CAPITA: 1966 TO 1976**

Year	Total personal income (millions of dollars)	Disposable personal income ¹ (millions of dollars)	Per capita personal income (dollars)	
			Total	Disposable
1966.....	2,225	1,902	3,192	2,729
1967.....	2,440	2,080	3,447	2,938
1968.....	2,729	2,292	3,796	3,188
1969.....	3,087	2,543	4,155	3,423
1970.....	3,523	2,912	4,623	3,822
1971.....	3,773	3,165	4,818	4,042
1972.....	4,124	3,393	5,123	4,215
1973.....	4,617	3,817	5,570	4,612
1974.....	5,177	4,185	6,138	4,962
1975.....	5,706	4,768	6,669	5,595
1976.....	6,198	5,089	7,080	5,813

NA Not available.

¹Personal income less personal tax and nontax payments to all governments.Source: U.S. Department of Commerce, tables supplied Sept. 1975; *Survey of Current Business*, August 1964, p. 17 April 1976, pp. 33 and 35, August 1976, pp. 16-17, and April 1977, pp. 20 and 22; and Release BEA 77-67 (Sept. 13, 1977).

Table 187. — PERSONAL INCOME BY MAJOR SOURCES: 1973 TO 1975
(in millions of dollars)

Item	1973	1974	1975
Income by place of work			
Total labor and proprietors income	3,770	4,046	4,477
By type			
Wage and salary disbursements	3,356	3,633	3,997
Other labor income	149	168	194
Proprietors income	266	244	286
Farm	40	33	60
Nonfarm	227	212	226
By industry			
Farm	126	118	155
Nonfarm	3,644	3,928	4,322
Private	2,396	2,601	2,843
Manufacturing	223	247	269
Contract construction	389	416	434
Wholesale and retail trade	578	625	684
Finance, insurance, and real estate	219	244	270
Transportation, communications, public utilities	316	342	375
Services	653	708	785
Other industries	17	18	26
Government	1,248	1,327	1,480
Federal, civilian	378	404	459
Federal, military	449	479	514
State and local	421	444	507
Income by place of residence			
Net labor and proprietors income	3,574	3,825	4,240
Dividends, interest, and rent	618	737	796
Transfer payments	425	507	637
Total personal income	4,617	5,069	5,674

Source: U.S. Department of Commerce, *Survey of Current Business*, August 1976, p. 27.

Table 188. — PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1965 TO 1975

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Total:¹					
1965.....	2,028.4	1,698.3	151.6	72.5	105.9
1966.....	2,224.7	1,862.1	167.1	80.1	115.4
1967.....	2,440.4	2,050.6	178.9	87.3	123.7
1968.....	2,729.3	2,311.2	190.2	93.0	134.8
1969.....	3,087.0	2,629.2	206.2	101.1	150.5
1970.....	3,522.5	3,003.5	236.2	110.9	172.0
1971.....	3,772.8	3,195.2	266.4	123.2	187.9
1972.....	4,123.6	3,504.8	284.9	130.3	203.6
1973.....	4,592.1	3,903.5	310.8	146.7	231.1
1974.....	5,069.	4,305.	333.	159.	272.
1975.....	5,674.	4,764.	398.	184.	328.
Per capita:²					
1965.....	2,906	3,016	2,459	2,513	2,388
1966.....	3,192	3,303	2,756	2,815	2,618
1967.....	3,447	3,570	2,960	3,050	2,779
1968.....	3,796	3,956	3,113	3,190	3,034
1969.....	4,155	4,357	3,268	3,365	3,242
1970.....	4,624	4,835	3,679	3,705	3,701
1971.....	4,819	5,025	3,925	3,985	3,894
1972.....	5,125	5,358	4,152	4,151	4,028
1973.....	5,548	5,807	4,341	4,569	4,461
1974.....	6,010	6,267	4,616	4,968	5,194
1975.....	6,658	6,886	5,327	5,774	6,093

¹In millions of dollars.

²In dollars.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, computer printouts and *Survey of Current Business*, April 1977, p. 34.

Table 189. — INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1950 TO 1970
 (Data refer to income before taxes in calendar year preceding the census)

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

NA Not available.

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

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

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

**Table 190. — INCOME OF FAMILIES OR HOUSEHOLDS IN PREVIOUS YEAR,
FOR COUNTIES: 1974-1975**

Income	Oahu families, 1975 ¹			Hawaii families, 1975	Maui households, 1975 ²	Kauai households, 1974 ³
	Total	Military	Civilian			
Percent, total	100.0	100.0	100.0	100.0	100.0	100.0
Under \$2,000	2.1	0.7	2.4	2.1	2.9	3.8
\$2,000 to \$2,999	2.6	0.4	3.1	4.3	3.7	6.6
\$3,000 to \$3,999	2.4	0.9	2.7	3.9	3.3	
\$4,000 to \$4,999	2.7	2.7	2.7	3.9	2.4	4.8
\$5,000 to \$5,999	3.3	6.4	2.6	4.3	4.6	4.8
\$6,000 to \$6,999	4.5	10.9	3.0	4.3	3.6	6.6
\$7,000 to \$7,999	4.3	10.0	3.0	4.2	3.2	7.2
\$8,000 to \$8,999	4.0	9.2	2.7	3.6	3.7	7.7
\$9,000 to \$9,999	4.1	6.9	3.5	3.9	3.8	3.8
\$10,000 to \$11,999	8.6	11.9	7.9	7.8	6.7	8.7
\$12,000 to \$14,999 ⁴	13.1	16.4	12.3	10.4	12.6	9.3
\$15,000 to \$19,999 ⁵	15.7	12.6	16.4	13.1	14.4	20.1
\$20,000 to \$24,999	12.6	5.7	14.2	8.9	9.1	8.1
\$25,000 to \$29,999	7.9	3.3	9.0	4.5	13.3	8.6
\$30,000 to \$34,999	4.4	1.0	5.2	1.8		
\$35,000 to \$39,999	2.8	0.7	3.3	1.3		
\$40,000 or more	4.9	0.3	6.0	2.5		
Insufficient information .....	...	...	...	15.2	12.8	...
Mean income (dollars)	16,756	12,059	17,842	14,096	14,450	(NA)
Median income (dollars)	14,611	10,319	16,250	12,028	13,370	10,750
Number of families or households	172,050	28,216	143,834	19,514	17,732	8,550

NA Not available.

¹Percent distributions based on number reporting.

²Includes Lanai and Molokai.

³Excludes Niihau.

⁴Kauai figure is for household incomes \$12,000 to \$13,999.

⁵Kauai figure is for household incomes \$14,000 to \$19,999.

Source: Survey and Marketing Services, Inc., *OEO 1975 Census Update Survey for Oahu* (p. 103), *Hawaii* (p. 67), and *Maui* (p. 55); University of Hawaii, Center for Nonmetropolitan Planning and Development, *Kauai Socioeconomic Profile*, pp. 36-37.

Table 191. — FAMILY INCOME POVERTY GUIDELINES: MAY 25, 1977

(In dollars. These family income levels are poverty thresholds used by the Community Services Administration, effective May 25, 1977, to determine eligibility for Federal programs for the poor.)

Family Size	Nonfarm family	Farm family
1.....	3,430	2,940
2.....	4,530	3,870
3.....	5,630	4,800
4 ¹	6,730	5,730
5.....	7,830	6,660
6 ²	8,930	7,590

¹Corresponding levels for four-person families were \$5,850 and \$4,980 on the Mainland and \$7,320 and \$6,230 in Alaska.

²For larger families, add \$1,100 for each additional member in a nonfarm family and \$930 for each additional member in a farm family.

Source: Community Services Administration, "CSA Income Poverty Guidelines (Revised)," CSA Instruction 6004-1j, in *Federal Register*, Vol. 42, No. 79 (April 25, 1977), pp. 21108-21109.

Table 192. — 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 193. — AVERAGE EXPENDITURES, INCOME AND SAVINGS OF URBAN FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1961

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

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

Table 194. — 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.

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.

In June 1977, the Honolulu all-items consumer price index stood at 170.5, with the 1967 level equal to 100. The index had increased 5.1 percent in the preceding 12 months, 39.5 percent since June 1972, and 71.0 percent since June 1967. Prices have risen most rapidly since 1967 for restaurant meals (up 103.4 percent), gas and electricity (100.3 percent), and medical care (100.7 percent) and least for public transportation (up 25.1 percent).

A "moderate" or "intermediate" budget for a four-person family living on Oahu was estimated at \$19,633 as of the Autumn of 1976. This family budget was 21 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 \$7,339 in the Autumn of 1975, 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 wage earner and clerical families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the *Monthly Labor Review* and *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 date.

Comparisons of family budgets between Honolulu and various Mainland communities have most recently been made for the Fall of 1975. These data were 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 1955-1976, and a 40-area comparison for various dates since Autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, and annually since 1969.

In addition to these data, the Bureau of Labor Statistics publishes monthly and annual data on average prices for a wide variety of foods, and periodic data on a number of non-food items (most recently in *Average Retail Prices of Selected Commodities and Services, Fall 1971*, issued in 1973). Still another useful source is *Prices Paid by Hawaii Farmers: 1970-1974*, issued by the Hawaii State Department of Agriculture in November 1975.

Section 13 (continued)

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: 1976*, Section 14.

**Table 195. — CONSUMER PRICE INDEX (ALL ITEMS COMBINED), FOR HONOLULU:
 QUARTERLY, 1966 to 1977**
 (1967 average = 100)

Year	Annual average	March	June	September	December
1966.....	97.3	96.6	96.8	97.9	98.8
1967.....	100.0	98.9	99.7	100.6	101.8
1968.....	103.8	102.8	103.4	104.6	105.7
1969.....	108.5	107.2	108.2	109.6	111.0
1970.....	114.2	113.2	114.4	114.9	115.7
1971.....	118.9	116.7	118.5	121.2	121.1
1972.....	122.8	122.4	122.2	123.1	124.4
1973.....	128.3	126.0	127.5	129.6	132.8
1974.....	141.9	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.....	...	168.3	170.5	...	...

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly) and *Consumer Price Index—Pacific Cities and U.S. Average* (monthly).

Table 196. — CONSUMER PRICE INDEX, FOR HONOLULU: 1972 TO 1977
(1967 = 100)

Group	Annual averages					June 1977
	1972	1973	1974	1975	1976	
All items	122.8	128.3	141.9	155.0	162.8	170.5
Food	123.2	135.2	158.7	176.7	183.0	192.4
Food at home	120.5	133.8	159.2	175.8	179.5	188.6
Cereals and bakery products	106.1	117.9	175.5	190.0	176.4	166.6
Meats, poultry, and fish	124.7	146.5	159.0	174.8	182.9	187.4
Dairy products	118.3	127.8	150.6	166.3	179.8	189.1
Fruits and vegetables	130.6	134.7	153.4	168.0	177.3	187.0
Other foods at home	117.3	127.1	157.6	179.9	178.5	211.3
Food away from home	130.8	139.0	156.6	178.7	193.1	203.4
Housing	124.3	128.8	139.0	149.3	156.4	162.2
Shelter ¹	129.6	135.1	142.4	148.5	155.7	159.8
Rent	127.7	133.1	142.9	150.4	156.8	163.6
Homeownership ²	130.9	136.5	142.2	147.3	154.9	157.3
Fuel and utilities ³	110.9	115.1	130.0	157.0	158.8	172.3
Gas and electricity	106.3	112.1	140.0	188.1	187.6	200.3
Household furnishings and operation ..	114.5	117.3	132.1	147.0	156.8	163.8
Apparel and upkeep ⁴	120.5	124.1	133.3	141.2	146.7	151.4
Men's and boys	113.9	116.7	127.5	135.5	144.0	147.5
Women's and girls	124.3	126.2	130.7	132.9	135.7	140.7
Footwear	115.3	120.8	132.1	139.2	144.4	149.9
Transportation	123.0	123.9	135.1	146.8	153.7	160.9
Private	124.8	125.5	137.8	150.9	159.1	167.5
Public	112.9	114.9	120.3	123.9	124.0	125.1
Health and recreation	121.2	124.1	134.3	148.8	160.4	170.3
Medical care	127.5	133.3	147.0	164.8	182.1	200.7
Personal care	120.4	122.7	137.2	156.6	167.6	175.2
Reading and recreation	121.8	122.7	134.3	149.0	158.2	164.2
Other goods and services ⁵	113.9	116.5	118.5	126.6	135.4	141.7

¹Also includes hotel and motel rates not shown separately.

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

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

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

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

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly) and *Consumer Price Index—Pacific Cities and U.S. Average—June 1977*.

Table 197. — AVERAGE RETAIL PRICES OF FOOD IN HONOLULU: 1970 TO 1977

(In cents. Data are annual averages unless otherwise indicated.)

Food and unit	1970	1971	1972	1973	1974	1975	1976	1977: June
Cereals and bakery products:								
Flour, white, all purpose 5 lb.	74.9	75.5	78.5	90.4	126.8	123.7	109.2	98.0
Rice, short grain 10 lb.	144.7	142.4	146.9	176.8	351.0	341.0	265.5	236.7
Bread, white lb.	29.7	29.3	30.2	33.8	47.2	52.5	50.2	41.8
Meats, poultry and fish:								
Steak, round, U.S. Choice lb.	128.5	135.2	143.8	171.0	193.1	210.1	199.4	202.8
Rib roast, U.S. Choice lb.	143.6	151.5	164.7	171.7	196.8	208.7	224.9	236.8
Chuck roast, U.S. Choice lb.	79.8	80.5	90.2	110.4	120.5	123.4	119.8	119.8
Hamburger lb.	86.5	85.7	79.6	108.5	125.7	122.4	122.2	114.6
Beef liver lb.	86.9	89.5	91.3	101.2	116.1	120.7	117.0	122.4
Veal cutlets lb.	...	...	180.8	208.5	...	...	484.0	...
Pork chops lb.	152.9	147.0	147.7	173.7	184.4	211.0	221.7	217.6
Ham, whole, smoked lb.	85.4	77.1	79.2	105.8	124.4	152.9	169.0	142.4
Bacon lb.	108.9	93.8	100.6	135.9	148.2	195.8	210.9	180.8
Frying chicken, whole or cut-up lb.	68.4	70.0	72.1	90.4	91.2	95.6	95.8	96.6
Mahimahi, fresh or frozen lb.	89.4	115.6	158.1	138.8	127.9	205.0	...	160.5
Dairy products:								
Milk, fresh, vit. D, grocery ½ gal.	67.0	70.9	74.7	82.1	94.5	104.1	108.2	114.3
Milk, evaporated 14½-oz. can	21.9	22.6	23.3	25.4	32.0	34.6	38.1	40.9
Butter lb.	95.5	97.3	96.5	97.5	101.0	112.3	141.4	139.7
Fruits and vegetables:								
Apples, all purpose lb.	37.6	38.8	37.4	40.1	45.2	52.4	55.3	57.2
Bananas lb.	26.3	27.6	29.7	29.8	32.1	35.5	38.6	40.7
Papayas lb.	21.8	29.7	34.6	33.4	35.3	37.6	42.1	46.4
Potatoes 10 lb.	193.0	189.1	195.0	215.4	295.2	291.4	293.9	261.0
Onions, yellow lb.	19.4	20.4	22.3	26.8	26.6	32.2	29.4	40.2
Cabbage lb.	12.0	17.7	17.9	18.4	22.2	23.2	23.3	24.3
Tomatoes lb.	47.3	53.5	56.6	56.9	62.5	70.0	71.3	78.8
Peas, green #303 can	32.9	34.4	36.2	37.2	41.3	50.1	49.4	48.7
Tomatoes #2½ can	40.1	41.2	41.7	42.6	50.7	64.0	70.0	84.0
Dried beans lb.	26.4	30.4	35.9	42.4	97.8	63.4	57.9	63.2
Other foods at home:								
Eggs, grade A, large dozen	76.2	65.9	72.5	94.1	97.0	95.7	98.2	104.8
Margarine lb.	38.1	40.9	43.1	43.9	67.7	76.6	66.2	74.5
Sugar, white 5 lb.	68.3	72.2	76.1	82.0	184.7	205.0	128.8	124.2
Coffee 1-lb. can	103.7	111.1	112.5	121.1	144.6	159.0	204.7	468.6
Chicken soup 10½-oz. can	21.1	21.0	21.0	21.0	24.7	26.3	26.3	27.9

Source: U.S. Bureau of Labor Statistics, *Estimated Retail Food Prices by City* (annual, 1970-1976) and *Estimated Average Retail Food Prices—Pacific Region* (monthly, 1977).

Table 198. — COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1966 TO 1976

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
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

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).

RESEARCH AND STATISTICS

Table 199. — ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1976

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	12,711	19,633	30,086	127	121	127
Total consumption.....	9,875	14,375	20,201	121	116	118
Food.....	3,692	4,627	5,931	123	120	122
At home.....	3,278	3,961	4,748	127	122	123
Away from home.....	414	666	1,183	100	107	118
Housing ²	2,772	4,774	7,465	141	124	128
Shelter ³	2,198	3,832	5,581	150	128	138
Renter costs ⁴	2,198	2,767	4,046	150	146	135
Homeowner costs ⁵.....	...	4,187	5,852	...	125	138
Housefurnishings & operations	574	942	1,688	116	111	105
Transportation ⁶	789	1,492	1,986	103	106	109
Automobile owners.....	1,129	1,492	1,986	110	101	109
Clothing.....	839	1,159	1,633	105	102	98
Personal care.....	310	408	578	117	115	115
Medical care ⁷	955	960	1,001	107	107	107
Other family consumption ⁸	518	955	1,607	111	110	112
Other items ⁹	502	801	1,392	111	110	113
Social security & disability payments.....	743	895	895	123	100	98
Personal income taxes.....	1,591	3,562	7,598	193	159	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, house furnishings 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 1976 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, USDL: 77-369, April 27, 1977).

**Table 200. — ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU:
AUTUMN 1976**

(For a retired husband and wife, 65 years old or over. Excludes personal income taxes.)

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Inter-mediate budget	Higher budget	Lower budget	Inter-mediate budget	Higher budget
Total budget ¹	5,397	7,691	11,318	115	114	113
Total consumption.....	5,165	7,228	10,462	115	114	113
Food.....	1,799	2,340	3,010	125	122	125
At home.....	1,685	2,095	2,520	127	123	124
Away from home.....	114	245	490	103	117	132
Housing ²	1,723	2,570	4,030	107	110	110
Shelter ³	1,232	1,578	2,318	102	106	109
Renter costs ⁴	1,651	2,283	3,123	146	154	139
Homeowner costs ⁵	952	1,199	1,973	76	80	95
Housefurnishings & operations.....	491	992	1,618	120	118	113
Transportation ⁶	479	792	1,233	149	126	106
Clothing.....	206	342	496	100	99	93
Personal care.....	153	224	328	111	111	111
Medical care.....	579	584	590	101	102	102
Other family consumption ⁷	226	376	775	113	113	118
Other items ⁸	232	463	856	115	114	112

¹Among 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.

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

³The average costs of shelter were weighted by the following proportions: lower budget, 40 percent living in rented dwellings; intermediate budget, 35 percent in rented dwellings; higher budget, 30 percent renters.

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

⁵Includes 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.

⁶Based on 45 percent of the lower budget families, 60 percent of the intermediate, and all the higher budget families owning automobiles.

⁷Includes reading, recreation, tobacco products, alcoholic beverages, and miscellaneous expenditures.

⁸Includes gifts and contributions, and, at the higher level, life insurance.

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Three Budgets for a Retired Couple, Autumn 1976* (Release USDL 77-690, August 4, 1977).

Table 201. — COST OF LIVING FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: MARCH 1976

Cost of living allowance category ¹	Index (Washington, D.C. = 100), by islands				
	Oahu	Hawaii	Kauai	Maui and Lanai	Molokai
Local retail, private housing	118.1	113.4	111.3	108.0	105.2
Local retail, federal housing	100.9	103.6	108.8	100.3	102.3
Commissary, PX, private housing	104.2	...	110.8	...	...
Commissary, PX, federal housing	87.4	...	108.2	...	...
Commissary, PX, military housing	72.5	88.0	88.4	82.1	88.2

¹Based 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 and Post Differential Rates," FPM Letter No. 591-16 (November 15, 1976), attachment pages 1, 2 and 3.

ELECTIONS

This section presents data on the number and characteristics of registered voters, votes cast, elected officials, and legislative bills.

More than 363,000 persons were registered to vote in the general election of November 1976, and more than 309,000 actually voted. The number voting amounted to 49 percent of the 600,000 Hawaii residents of voting age at that time. The latter figure included 53,000 aliens, 1,000 inmates of mental and penal institutions, and 83,000 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. 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.

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.

In its 1976 session, the State Legislature considered 3,517 bills; 251 were passed and 242 became law. The Legislature also considered 1,425 resolutions, of which 811 were approved.

Official election results are published by the Office of the Lieutenant Governor. Additional information is often available from the various County Clerks. An analysis of voting trends in Hawaii, *Voter Participation in Hawaii, 1970*, was published jointly by the Hawaii State Department of Planning and Economic Development and Office of the Lieutenant Governor in 1971. Characteristics of individual precincts are described in *1972 Voting Behavior*, compiled by Daniel W. Tuttle, Jr., and published in two volumes by the Center for Government Development, University of Hawaii, in 1973. National statistics appear in the *Statistical Abstract of the United States: 1976*, Section 15.

Table 202. — REGISTERED VOTERS AND VOTES CAST, FOR PRIMARY AND GENERAL ELECTIONS: 1966 TO 1976

Year	Primary election			General election		
	Registered voters	Votes cast	Percent of pop. voting ¹	Registered voters	Votes cast	Percent of pop. voting ¹
1966.....	245,307	175,049	26.7	253,242	220,137	33.5
1968.....	265,253	166,271	24.5	274,199	239,765	35.4
1970.....	282,472	202,401	28.1	291,681	247,740	34.4
1972.....	326,906	203,160	26.4	337,837	286,593	37.3
1974.....	333,527	235,982	29.6	343,404	272,545	34.2
1976.....	353,249	251,457	30.3	363,045	² 309,025	37.2
COUNTIES: 1976						
Hawaii	38,625	28,782	37.6	39,760	34,532	45.1
Maui	28,793	19,653	34.2	29,743	24,601	42.8
Honolulu.....	268,110	189,267	28.6	275,479	234,088	35.3
Kauai	17,721	13,755	40.5	18,063	15,804	46.5

¹Based on estimated resident civilian population (including military dependents) as of July 1, from the Hawaii State Department of Planning and Economic Development, *The Population of Hawaii* (annual report).

²Excludes 64 unregistered votes cast (overseas and nonresident).

Source: Office of the Lieutenant Governor, *Voter Registration Program 1970* (Dec. 28, 1970), pp. 34-35, and *Result of Votes Cast* for primary and general elections of 1972 and later years.

Table 203. — SEX AND PARTY OF REGISTERED VOTERS, 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

Source: Office of the Lieutenant Governor, *Result of Votes Cast, General Election, Tuesday, November 2, 1976, State of Hawaii*, p. 134.

Table 204. — 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 205. — POPULATION OF VOTING AGE AND PERCENT VOTING: NOVEMBER 1960 TO 1976

(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, 1976:	
1962.....	390,000	...	49.9	18 to 24 years.....	142,000
1964.....	404,000	51.3	56.9	25 to 44 years.....	230,000
1966.....	417,000	...	49.9	45 to 64 years.....	168,000
1968.....	439,000	53.8	55.3	65 years and over ...	61,000
1970.....	473,000	...	44.0		
1972.....	536,000	50.4	51.3	Status, 1976:	
1974.....	574,000	...	45.2	Aliens.....	53,000
1976.....	600,000	48.6	49.0	Citizens.....	547,000
				Military and dependents.....	83,000
				Institutionalized ¹ ..	1,000
				Non-inst. civilian ² ..	463,000

¹Voting-age inmates of Hawaii State Hospital, Waimano Training School and Hospital, and the Hawaii State Prison System.

²Excludes military dependents.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States: November 1976," *Current Population Reports*, Series P-25, No. 626, May 1976, tables 1, 2, 4 and 5; Hawaii State Department of Health, *Statistical Report, 1974*, pp. 121 and 135; Hawaii State Department of Social Services and Housing, Corrections Division, records; Hawaii State Department of Planning and Economic Development, Statistical Report 109 (August 22, 1975), p. 3; Office of the Lt. Gov., *Result of Votes Cast, General Election, Tuesday, November 2, 1976*, p. 2.

Table 206. — PARTY MEMBERSHIP OF 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 207. — 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	—

¹Forty 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 208. — 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... Mink	140,110 140,880	Carroll	67,281 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... Mink	161,954 149,207	Blaisdell	78,733 39,233	Olsen ³	2,432 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... Mink	84,845 90,628	Cockey	31,534 None	None .....	...
November 7, 1972:						
President	McGovern....	101,409	Nixon	168,865	None .....	...
U.S. Representative, Dist. 1 ...	Matsunaga... Mink	73,826 79,856	Rohlfing	61,138 60,043	None .....	...
November 5, 1974:						
Governor	Ariyoshi	136,262	Crossley	113,388	None .....	...
U.S. Senator	Inouye, D....	207,454	.....	...	Kimmel ⁴ ..	42,767
U.S. Representative, Dist. 1 ...	Matsunaga... Mink	71,552 86,916	Paul.....	49,065 51,894	None .....	...
November 2, 1976:						
President	Carter	147,375	Ford	140,003	MacBride ⁵ .	3,923
U.S. Senator	Matsunaga... Heftel	162,305 60,050	Quinn	122,724 53,745	Others ⁶ ...	17,063 23,807
U.S. Representative, Dist. 1 ...	Akaka.....	124,116	Inouye, H. ...	23,917	Others ⁸ ...	8,066

¹Two elected at large.

²American Independent.

³Peace and Freedom.

⁴People's.

⁵Libertarian.

⁶Hodges (People's), 14,226; Kimmel (Nonpartisan), 1,433; Johnson (Libertarian), 1,404.

⁷Independents for Godly Government.

⁸Penarozza (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 209. — LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1975 TO 1977

Action	1975	1976	1977	
			Regular	Special
House bills:				
Carried over from previous year	—	1,854	—	—
Introduced	1,990	1,468	1,765	16
Passed	137	143	149	16
Vetoed	5	7	4	—
Became law	132	136	145	16
Senate bills:				
Carried over from previous year	—	1,663	—	—
Introduced	1,733	1,285	1,532	5
Passed	70	108	78	5
Vetoed	2	2	11	—
Became law	68	106	67	5
House resolutions:				
Introduced	831	709	767	—
Approved	377	455	538	—
House concurrent resolutions:				
Introduced	149	124	140	—
Approved	35	38	39	—
Senate resolutions:				
Introduced	455	469	523	—
Approved	237	259	308	—
Senate concurrent resolutions:				
Introduced	152	123	175	—
Approved	31	59	47	—

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 168 branches, 11 savings and loan associations with 107 branches, three trust companies, and 245 industrial loan or small loan licenses in Hawaii as of June 30, 1976. Deposits in Island banks reached \$2.9 billion in 1976, compared with \$1.56 billion in 1970 and \$673 million in 1960. Assets of savings and loan associations stood at \$1.9 billion in 1976, double their 1970 level and nine times as great as in 1960. Eight-four percent of the households on Oahu had savings accounts in 1972 and 78 percent had checking accounts. There were 162 credit unions with shares of \$443 million at the end of 1976.

The market value of stocks and bonds traded on the Honolulu Stock Exchange in 1976 amounted to \$383,000, the lowest total on record. 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 1975 amounted to \$12.7 billion, triple the figure reported ten years earlier. For all 537 insurance companies doing business in the Islands, Hawaii premiums amounted to \$380 million in 1975 and losses, claims, and benefits paid came to only \$171 million. Oahu fire losses amounted to \$7.4 million in fiscal 1976. Persons covered by the two major prepaid health insurance plans as of December 31, 1976, numbered 589,000, with membership dues of \$120 million.

By mid-1976, almost 25,700 corporations and partnerships were registered to do business in Hawaii: 16,281 local ("domestic") corporations, 2,985 out-of-State ("foreign") corporations, and 6,425 partnerships. Business units with one or more employees in 1974 numbered 16,959, including 326 with 10 or more employees. During fiscal 1976, 1,929 new local corporations were formed and 1,860 existing local corporations were dissolved or merged. Business receipts of corporations exceeded \$6.8 billion in 1973; business receipts of proprietorships amounted to \$696 million. Hawaii's largest corporation, Amfac, Inc., reported 1976 sales of \$1.25 billion.

Sources for statistics on these subject 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 16 and 17 of *Statistical Abstract of the United States: 1976*.

Table 210.—BANKS: 1966 TO 1976

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		
1966	7	126	1,201,515	1,052,845	347,336	411,797	293,713	12,166,585	7,585,787
1967	7	128	1,263,917	1,110,733	403,658	480,318	226,757	13,198,363	7,700,654
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

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 211.—SAVINGS AND LOAN ASSOCIATIONS, TRUST COMPANIES, AND LOAN COMPANIES: 1966 TO 1976

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								
1966	17	38	490,130	387,152	5	30,309	173	180,067	48	1,771
1967	15	39	514,407	424,005	4	25,077	180	182,914	52	1,740
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

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 212.—ASSETS AND LIABILITIES OF BANKS AND SAVINGS AND LOAN ASSOCIATIONS:
DECEMBER 31, 1960 TO 1976**
(In thousands of dollars)

Subject	1960	1965	1970	1975	1976
BANKS					
Total assets	813,618	1,155,117	1,917,915	3,013,876	3,349,162
Loans and discounts	400,109	667,133	1,163,467	1,829,952	1,897,273
U.S. Government and other securities	248,905	282,558	449,642	699,366	936,461
Cash and due from banks	143,400	144,138	215,527	348,482	348,702
Fixed assets	12,105	27,476	43,846	63,443	81,836
Other assets	9,099	33,812	45,433	72,632	84,890
Total liabilities and capital	813,618	1,155,117	1,917,915	3,013,876	3,349,162
Demand deposits	275,452	373,402	608,810	919,780	1,006,999
Time and other deposit	467,844	632,113	1,088,352	1,760,953	1,989,415
Other liabilities	12,275	62,838	84,695	98,200	108,352
Capital	58,047	86,734	136,057	234,942	244,395
SAVINGS AND LOAN ASSOCIATIONS					
Total assets	210,993	482,067	778,909	1,787,124	2,141,259
Mortgage loans	185,034	423,603	678,688	1,547,871	1,841,239
Other loans	4,713	8,750	14,212	39,417	44,047
U.S. Government and other securities	10,082	17,418	46,471	140,230	176,934
Fixed assets	2,693	8,361	16,282	29,131	35,870
Cash on hand and in banks	7,940	19,687	12,134	3,728	13,594
Other assets	531	4,248	11,122	26,747	29,574
Total liabilities	210,993	482,067	778,909	1,787,124	2,141,259
Withdrawal shares	175,040	364,036	576,044	1,370,804	1,683,972
Withdrawable deposits, invest. certif.	277	14,034	49,868	53,688	72,721
Reserve	15,728	27,898	37,346	53,549	65,044
Surplus and undivided profits	977	5,718	22,061	61,796	65,264
Other liabilities	18,971	70,381	93,590	247,286	254,258

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

Table 213.—CREDIT UNIONS IN HAWAII: 1970 TO 1976
(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

Source: Hawaii Credit Union League, records.

**Table 214.—MARKET VALUE OF STOCKS AND BONDS
TRADED ON THE HONOLULU STOCK EXCHANGE:
1970 TO 1976**

Year	Value (\$1,000)
1970	8,590
1971	5,533
1972	3,986
1973	1,896
1974	1,175
1975	523
1976	383

Source: Honolulu Stock Exchange, records.

**Table 215.—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 216.—INSURANCE BUSINESS TRANACTED IN HAWAII: 1965 TO 1975

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)
1965	391	137,331	56,283	164	829,700	4,212,206	69,315	26,185
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

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).

Table 217.—INSURANCE: 1975

Class of insurance	Premiums (\$1,000)	Losses, claims, and benefits paid (\$1,000)	Subject	Amount (\$1,000)
Total	380,480	170,561	Life Insurance	
Life, excluding annuities	138,156	53,269	Written or transferred	2,046,479
Fraternal	440	22	In force, Dec. 31	12,650,488
Fire, marine, casualty & misc.			Premiums received	138,597
Accident and health	35,564	21,203	Claims and benefits paid	53,291
Fire	13,031	2,953		
Allied lines	6,698	895	Insurance other than life	
Homeowners multiple peril	15,938	6,212	Direct premiums written	241,883
Priv. pass. auto no-fault	14,533	6,392	Direct premiums earned	226,453
Other priv. pass. auto liability	35,714	20,916	Direct losses paid	117,270
Commercial auto no-fault	2,263	646	Direct losses incurred	131,110
Other comm. auto liability	11,061	5,417		
Priv. pass. auto physical damage ..	16,874	14,431		
Commercial auto physical damage	3,295	2,014		
Workers' compensation	38,488	19,640		
Other liability	18,346	5,222		
Medical malpractice	4,719	463		
Glass	319	160		
Burglary and theft	1,225	345		
Boiler and machinery	1,435	76		
Fidelity and surety	6,391	5,273		
Ocean marine	3,309	1,403		
Inland marine	5,551	2,770		
Earthquake	39	—		
All other	3,933	691		
Surplus lines	3,159	149		

Subject	Insurance companies authorized in Hawaii (\$1,000) ¹			
	All companies	Domestic	Foreign	Alien
Assets	318,895,551	197,940	313,954,425	4,743,185
Liabilities exc. capital and surplus	288,936,249	142,984	284,618,965	4,174,300
Policyholder's surplus inc. capital	29,959,302	54,956	29,335,461	568,885
Capital	2,105,600	11,893	2,075,937	17,770
Investments in Hawaii, total	1,634,549	69,580	1,531,175	33,794
Mortgage loans (principal indebtedness) ...	881,800	35,430	829,814	16,556
Collateral loans (amount loaned)	1,447	627	820	—
State and county bonds ²	164,643	6,372	157,848	422
Utilities, stocks and bonds ²	162,183	9,892	137,569	14,722
Industrials, etc., stocks and bonds ²	389,896	14,771	373,308	1,817
Real estate ³	34,580	2,487	31,817	277
Balances in Hawaii banks	13,003	9,368	3,634	—

Footnotes on next page.

Footnotes to table 217

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

² Market value of stocks and bonds.

³ Market value less encumbrances.

Source: *Report of the Insurance Commissioner of Hawaii 1976*, pp. 7, 16, 20, 36, and underlying data.

Table 218.—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 219.—PREPAID HEALTH PLANS: 1970 TO 1976

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)

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 220.—FIRES, BY COUNTY: 1966 TO 1976

Year	State total ¹	City and County of Honolulu	Hawaii County	Kauai County	Maui County ²
1966	3,464	2,995	267	202	(NA)
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

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 221.—FIRE LOSSES RECORDED
BY THE HONOLULU FIRE DEPARTMENT:
1966 TO 1976**

Year ended June 30	Loss (\$1,000)
1966	1,809
1967	4,016
1968	3,771
1969	3,677
1970	4,531
1971	5,032
1972	3,527
1973	12,962
1974	6,392
1975	7,303
1976	7,370

Source: Honolulu Fire Department, *Annual Report* for 1966-1975 and records.

Table 222.—REGISTERED CORPORATIONS AND PARTNERSHIPS: 1967 TO 1977
(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 can- celled ¹	On record, end of period ¹
1967	813	383	7,996	178	99	1,131	376	547	2,132
1968	984	624	8,356	199	82	1,248	389	325	2,196
1969	1,177	498	9,035	297	53	1,492	524	512	2,492
1970	1,392	672	9,755	303	61	1,734	228	254	2,750
1971	1,411	563	10,603	266	61	1,939	717	307	3,160
1972	1,602	647	11,558	283	68	2,154	881	305	3,736
1973	1,989	259	13,288	300	70	2,384	879	352	4,263
1974	2,016	259	14,666	276	56	2,604	1,072	344	5,679
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	310	18,175	310	540	2,755	1,377	2,096	5,706

¹ Annual fluctuations include effect of sporadic purging of defunct firms from registration files, particularly evident after 1975.

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

**Table 223.—CHARACTERISTICS OF BUSINESS UNITS, BY INDUSTRY GROUP:
1974 AND 1973**

(Excludes government and self-employed workers.)

SIC code	Major industry group	1974				1973 ¹			
		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	16,959	249,915	481,402	2,095,598	16,298	236,606	444,491	1,885,174
—	Agricultural services, forestry, fisheries	160	1,364	2,156	9,734	156	1,401	2,029	9,570
07	Agricultural services	116	(G)	(D)	(D)	115	(G)	(D)	(D)
09	Fishing, hunting, and trapping ..	42	215	293	1,621	41	212	212	2,034
—	Mining	19	374	1,127	5,620	15	194	591	2,606
13	Oil and gas extraction	7	(C)	(D)	(D)	6	(A)	(D)	(D)
14	Nonmetallic minerals, except fuels	12	(C)	(D)	(D)	9	(C)	(D)	(D)
—	Contract construction	1,455	26,353	75,527	341,146	1,414	25,465	71,871	320,670
15	General contractors and operative builders	537	10,966	30,416	138,298	540	10,385	27,811	122,513
16	Heavy construction contractors ..	67	2,827	7,368	35,805	63	2,680	8,637	36,463
17	Special trade contractors	845	12,271	36,098	161,163	805	12,072	33,863	155,910
—	Administrative and auxiliary	6	289	1,646	5,879	6	328	1,560	5,784
—	Manufacturing	768	24,491	53,669	239,692	772	25,829	55,432	240,820
20	Food and kindred products	204	11,255	24,671	117,146	208	12,209	26,177	117,900
22	Textile mill products	1	(B)	(D)	(D)	1	(B)	(D)	(D)
23	Apparel and other textile products	128	3,721	4,614	19,774	130	3,720	4,344	18,602
24	Lumber and wood products	34	663	1,511	6,079	35	860	1,985	8,451
25	Furniture and fixtures	29	644	1,414	5,991	30	691	1,447	6,063
26	Paper and allied products	10	224	481	1,936	10	215	469	1,923
27	Printing and publishing	115	2,517	6,573	26,980	113	2,830	6,784	26,998
28	Chemicals and allied products ..	20	278	916	3,860	21	255	748	3,198
29	Petroleum and coal products	4	400	1,368	5,933	5	344	1,039	4,535
30	Rubber and misc. plastics products	13	217	333	1,415	12	194	287	1,328
31	Leather and leather products	9	95	105	454	8	90	104	409
32	Stone, clay, and glass products ..	46	1,355	4,219	18,105	46	1,229	3,685	15,817
33	Primary metal industries	4	(C)	(D)	(D)	2	(C)	(D)	(D)
34	Fabricated metal products	26	589	1,378	6,113	31	665	1,799	6,383
35	Machinery, except electrical	28	277	735	2,244	29	375	943	3,586
37	Transportation equipment	11	340	620	4,995	10	347	1,033	5,104
39	Miscellaneous manufacturing industries	55	947	1,306	4,743	51	811	1,106	4,619
—	Administrative and auxiliary	19	615	2,720	10,335	21	696	2,821	13,130
—	Transportation and other public utilities	640	22,997	63,653	261,256	608	21,173	55,607	234,521
41	Local and interurban passenger transit	92	3,170	5,431	23,568	89	2,362	3,737	16,071
42	Trucking and warehousing	153	2,771	5,945	27,096	147	2,695	5,776	25,231

**Table 223.—CHARACTERISTICS OF BUSINESS UNITS, BY INDUSTRY GROUP:
1974 AND 1973 (Cont.)**

(Excludes government and self-employed workers.)

SIC code	Major industry group	1974				1973 ¹			
		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
44	Water transportation	30	1,530	4,681	20,216	30	1,533	4,809	20,777
45	Transportation by air	56	3,957	12,826	52,352	54	3,445	10,367	45,440
47	Transportation services	227	2,548	3,934	17,512	210	2,282	3,888	17,399
48	Communication	43	5,596	18,940	76,073	42	5,515	16,049	61,705
49	Electric, gas, and sanitary services	21	(G)	(D)	(D)	19	(G)	(D)	(D)
—	Administrative and auxiliary	18	(G)	(D)	(D)	17	(G)	(D)	(D)
—	Wholesale trade	1,324	15,211	37,206	155,591	1,273	14,829	34,944	142,999
50	Wholesale trade—durable goods .	670	7,768	19,943	84,111	627	7,697	19,192	78,690
51	Wholesale trade—nondurable goods	631	6,828	14,390	60,245	626	6,739	14,039	58,481
—	Administrative and auxiliary	23	615	2,874	11,235	20	393	1,713	5,828
—	Retail trade	4,582	65,376	83,671	357,570	4,434	62,290	78,706	326,965
52	Building materials & garden supplies	91	1,050	2,053	7,958	87	1,034	1,959	7,436
53	General merchandise stores	192	10,348	12,668	53,044	196	9,517	12,235	48,378
54	Food stores	564	7,540	10,444	45,003	548	7,431	9,379	40,479
55	Automotive dealers & service stations	595	6,548	13,023	54,233	580	6,416	12,806	50,981
56	Apparel and accessory stores	525	4,684	5,494	24,033	503	4,867	6,232	25,476
57	Furniture and home furnishings stores	262	2,202	3,845	16,625	259	2,160	3,514	15,156
58	Eating and drinking places	1,239	23,930	22,195	96,575	1,189	22,633	20,539	87,268
59	Miscellaneous retail	1,046	7,710	10,759	45,313	1,000	6,987	9,503	40,421
—	Administrative and auxiliary	68	1,364	3,190	14,786	72	1,245	2,539	11,370
—	Finance, insurance, and real estate ..	2,205	20,098	42,803	187,676	2,046	19,404	39,973	164,355
60	Banking	176	5,398	10,656	45,583	132	6,140	11,787	49,880
61	Credit agencies other than banks .	386	2,557	5,261	23,136	370	2,458	5,012	21,600
62	Security, commodity brokers & services	42	455	1,278	5,558	38	311	1,174	3,780
63	Insurance carriers	84	1,980	4,784	19,764	71	1,741	3,918	17,348
64	Insurance agents, brokers & service	209	1,331	2,838	14,481	190	1,310	2,126	11,953
65	Real estate	1,244	7,607	15,984	70,552	1,178	6,773	13,537	52,354
67	Holding and other investment offices	49	586	1,482	6,034	50	526	1,433	5,451
—	Administrative and auxiliary	5	145	399	1,978	4	118	335	1,569
—	Services	4,720	69,483	115,839	502,466	4,609	63,354	101,476	419,777
70	Hotels and other lodging places ..	191	16,690	23,724	108,743	197	15,701	22,299	90,677
72	Personal services	634	4,377	4,996	20,788	653	4,350	4,769	19,598
73	Business services	620	9,437	13,072	55,409	595	8,175	12,016	48,468
75	Auto repair, services, and garages	367	3,363	5,360	22,268	350	3,117	4,680	19,521
76	Miscellaneous repair services	167	998	1,988	8,516	168	886	1,620	6,540
78	Motion pictures	67	744	754	3,554	66	705	667	2,851

**Table 223.—CHARACTERISTICS OF BUSINESS UNITS, BY INDUSTRY GROUP:
1974 AND 1973 (Cont.)**

(Excludes government and self-employed workers.)

SIC code	Major industry group	1974				1973 ¹			
		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
79	Amusement & recreation services	283	4,659	5,780	25,027	281	4,289	4,886	22,231
80	Health services	914	11,039	24,484	104,185	852	10,376	19,649	81,229
81	Legal services	227	1,076	2,375	10,256	230	1,031	2,128	9,240
82	Educational services	159	3,253	5,965	25,337	145	2,742	5,520	21,914
83	Social services	147	2,670	3,402	13,095	151	2,163	2,581	11,012
84	Museums, botanical, zoological gardens	5	(C)	(D)	(D)	6	(C)	(D)	(D)
86	Membership organizations	512	3,957	5,534	23,791	487	3,359	4,681	19,352
89	Miscellaneous services	404	6,578	16,889	71,884	392	5,788	14,692	61,815
—	Administrative and auxiliary	23	(F)	(D)	(D)	36	(F)	(D)	(D)
—	Nonclassifiable establishments	1,086	4,168	5,750	34,846	971	2,667	3,862	22,891

D withheld to avoid disclosure of operations of individual establishments.

A:0-19; B:20-99; C:100-249; E:250-499; F:500-999; G:1,000-2,499; H:2,500-4,999; I:5,000-9,999; J:10,000-24,999; K:25,000-49,999; L:50,000-99,999; M:100,000 or more.

¹Revised from data in *The State of Hawaii Data Book 1976*, tables 203 and 204, which were based on "reporting units" rather than "establishments" and thus were not directly comparable to the present table.

Source: U.S. Bureau of the Census, *County Business Patterns, 1974, Hawaii*, CBP-74-13 (January 1977), pp. 1-2.

Table 224.—CHARACTERISTICS OF BUSINESS UNITS, BY COUNTIES: 1974 AND 1973

(Excludes government employees and self-employed persons)

County	1974				1973 ¹			
	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	16,959	249,915	481,402	2,095,598	16,298	236,606	444,491	1,885,174
Hawaii	1,678	18,512	31,251	139,208	1,642	17,883	31,149	127,179
Honolulu	13,233	206,994	409,576	1,777,674	12,711	195,274	377,364	1,601,709
Kauai	704	8,316	13,767	61,732	691	8,049	12,274	51,554
Maui	1,289	15,812	26,466	114,093	1,252	15,308	23,601	104,355
Statewide	55	281	342	2,892	2	92	103	377

¹Revised from data in *The State of Hawaii Data Book 1976*, tables 203 and 204. The data in the 1976 edition were based on "reporting units" rather than "establishments" and thus were not directly comparable to the present table.

Source: U.S. Bureau of the Census, *County Business Patterns, 1974, Hawaii*, CBP-74-13 (January 1977), p. 43.

Table 225.—CHARACTERISTICS OF BUSINESS UNITS, BY EMPLOYMENT-SIZE CLASS: 1974
(Excludes government employees and self-employed persons.)

Subject	Employment-size class									
	Total	1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more
Number of establishments	16,959	9,045	3,249	2,230	1,558	553	234	53	32	7
Number of employees	249,915	17,535	23,030	31,943	48,693	39,563	35,311	18,950	22,596	12,618
Payroll, first quarter (\$1,000)	481,402	31,913	38,168	52,452	89,192	79,175	72,794	35,107	47,298	35,674
Payroll, annual (\$1,000)	2,095,598	194,375	160,944	218,915	377,136	330,334	307,164	156,699	205,761	145,515

Source: U.S. Bureau of the Census, *County Business Patterns, 1974, Hawaii*, CBP-74-13 (January 1977), p. 3

Table 226.—CORPORATIONS: 1964 TO 1974

Fiscal years ended in —	Number of corporations			Business receipts ¹ (\$1,000,000)			Taxable income, excluding net losses ² (\$1,000,000)
	Total	Taxable	Nontaxable	All corporations	Taxable corporations	Nontaxable corporations	
1964	5,331	2,654	2,677	...	...	...	164.7
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

¹ Comparable data not available before 1967.

² Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns - Corporations* (annual report).

Table 227.—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 228.—SALES AND NET INCOME OF MAJOR HAWAII CORPORATIONS: 1975 AND 1976

Corporation	Sales			Net income ¹		
	1976 (\$1,000)	1975 (\$1,000)	Percent change ¹	1976 (\$1,000)	1975 (\$1,000)	Percent change
Amfac Inc.	1,251,088	1,133,817	+10.3	19,139	20,089	-4.7
Castle & Cooke	850,322	775,189	+9.7	37,929	38,160	-0.6
Dillingham Corp.	845,597	913,161	-7.4	21,595	21,130	+2.2
Alexander & Baldwin	322,386	308,033	+4.7	17,168	22,158	-22.5
Pacific Resources	291,773	247,255	+18.0	13,713	2,277	+502.2
C. Brewer & Co.	238,537	259,038	-7.9	-8,672	7,251	...
Hawaiian Electric	223,218	204,424	+9.2	15,928	15,074	+5.7
Hawaiian Telephone ²	179,612	157,214	+14.2	26,025	20,860	+24.8
Amelco Corp. ³	85,335	132,226	-35.5	-67	3,158	...
Hawaiian Airlines	67,547	56,763	+19.0	782	-444	...
Aloha Airlines	45,360	37,658	+20.5	1,536	921	+66.8
Maui Land & Pine	44,364	39,674	+11.8	3,125	2,729	+14.5

¹ Minus sign (-) signifies net loss or decline.

² Wholly owned by General Telephone & Electronics.

³ For fiscal year ended September 30, 1976.

Source: Kit Smith, " '76 a good year for all but sugar," *Honolulu Advertiser*, May 3, 1977, p. C-4.

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 1976 it had 76 post offices handling 242 million pieces of mail and accounting for postal receipts in excess of \$37 million. There were 597,000 telephones in service (double the number ten years earlier), 263,000 telephone homes, 1.5 billion local calls originated, 6.1 million completed interisland calls, and 13.6 million incoming and outgoing transpacific calls. Telegraph messages to and from Hawaii totaled 347,000. The thirty-three commercial and educational radio stations in the Islands early in 1977 included 25 on the regular broadcast band and eight FM stations. The State also had 12 television stations (10 commercial and two educational), including satellites but excluding translators. Ten cable TV companies served 71,500 subscribers. Island publishers printed even daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the three English-language dailies averaged 209,000 in 1976, compared with 188,000 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 quarterly issues of *Hawaii Media*. Data on communications for other States and for the nation as a whole are carried in *Statistical Abstract of the United States: 1976*, Section 18.

Table 229.—POSTAL SERVICE: 1966 TO 1976

Year	Number of post offices ¹	Gross postal receipts ² (\$1,000)	Pieces of mail handled ² (millions)
1966	80	14,984	147
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

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 1966-1970; *Statistical Abstract of the United States* for 1966-1971; U.S. Postal Service, Honolulu, records.

Table 230.—TELEPHONE SERVICE: 1966 TO 1976

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
1966	302,506	251,505	51,001	539,632	1,129,492	1,153,375	1,687,105	957,163
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

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 231.—TELEPHONE SERVICE, BY ISLAND: 1976

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu, except DATS ¹	DATS ¹	Kauai
Telephones in service ²	596,952	52,746	38,088	830	2,278	453,340	27,597	22,073
Residence main stations ²	262,982	23,080	16,807	589	1,341	211,211	—	9,954
Business main stations ²	66,357	5,717	4,210	98	322	39,192	14,292	2,526
Local calls:								
Originating ³	1,517,335,816	...	...	...	...	...	...	...
Completed ³	1,138,002,612	...	...	...	...	...	...	...
Interisland calls:								
Completed ⁴	6,139,528	1,325,274	1,206,827	...	...	2,967,648	...	639,779
Paid ³	5,850,827	...	...	...	...	...	...	...
Transpacific paid calls:								
Hawaii originating	7,448,194	430,307	559,383	...	...	6,241,566	...	216,938
Incoming and outgoing ³	13,621,200	...	...	...	...	...	...	...

¹ Defense Agency Telephone Service, all on Oahu.

² As of December 31.

³ Not available by island.

⁴ Molokai and Lanai combined with Oahu.

Source: Hawaiian Telephone Company, records.

Table 232.—TELEGRAPH MESSAGES: 1970 TO 1976

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

Source: Federal Communications Commission, Common Carrier Bureau, records.

**Table 233.—PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS:
1966 TO 1976**

Year	Honolulu Advertiser ¹	Honolulu Star-Bulletin ¹	Sunday Star-Bulletin and Advertiser ²	Hawaii Tribune-Herald ³	
				Daily	Sunday
1966	66,499	109,865	156,123	11,447	11,600
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	16,386	17,361

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 234.—PERIODICALS PUBLISHED IN HAWAII: MARCH 1977

Frequency	Newspapers ¹		Magazines and other periodicals	Directories
	English	Foreign language		
Daily or 6 times weekly	3	4	—	—
2 or 3 times weekly	2	—	3	—
Weekly	5	—	13	1
Semi-monthly or biweekly	4	—	8	—
Monthly	1	—	27	1
2 to 10 times annually	—	—	16	3
Annually	—	—	6	15
Irregular or unspecified	—	—	1	—

¹The 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: *Hawaii Media*, Vol. 3, No. 3, March 1977, as corrected.

Table 235.—BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY PRESS OF HAWAII: 1972 TO 1976

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

NA Not available.

¹As of June 30.

²Year ended June 30.

³The University Press of Hawaii was established July 2, 1971, by combining the former University of Hawaii Press and East-West Center Press.

Source: The University Press of Hawaii, *Annual Report* (annual).

Table 236.—COMMERCIAL AND EDUCATIONAL RADIO AND TELEVISION BROADCAST STATIONS ON THE AIR: 1967 TO 1977

Year (as of January 1) *	Commercial			Educational	
	AM	FM	TV ¹	FM	TV ¹
1967	25	2	10	—	2
1968	25	3	10	—	2
1969	25	4	10	—	2
1970	25	4	10	1	2
1971	25	4	10	1	2
1972	25	5	10	1	2
1973	24	5	10	1	2
1974	25	7	10	1	2
1975	26	5	10	1	2
1976	26	6	10	1	2
1977	25	7	10	1	2

¹ Includes satellites but excludes translators.

Source: Federal Communications Commission, records; FCC data cited in *Statistical Abstract of the United States, 1967-1970*.

Table 237.—TELEPHONE AVAILABILITY AND TELEVISION SETS IN OCCUPIED HOUSING UNITS, BY COUNTY: 1970

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All occupied units	203,088	164,763	17,260	8,282	12,783
Telephone:					
Available	185,265	152,198	14,907	7,064	11,096
None	17,823	12,565	2,353	1,218	1,687
Number of television sets:					
1	143,288	114,351	13,101	6,376	9,460
2 or more	46,373	41,254	2,286	864	1,969
None	13,427	9,158	1,873	1,042	1,354

Source: U.S. Bureau of the Census, *U.S. Census of Housing: 1970*, Final Report HC(1)-B13, tables 32, 37, 62, and 63.

Table 238.—CABLE TELEVISION COMPANIES, 1961 TO 1976, AND SUBSCRIBERS, 1970 TO 1976
(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
Subscribers:					
1970 ²	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

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 Earliest year available.

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

**Table 239.—POSTAGE, TELEPHONE, AND TELEGRAPH RATES, AND NEWSPAPER PRICES:
1970 TO 1977**
(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

¹Street sales, *Honolulu Advertiser* and *Honolulu Star-Bulletin*.

²Station-to-station operator-handled daytime weekday calls, first three minutes.

³For an individual residential line.

⁴Daytime 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 5.6 billion kilowatt-hours in 1976, or 7,500 per residential customer. The total has doubled since 1967. Manufactured gas sales reached 35.6 million therms in 1976, 69 percent above the figure ten years earlier. Residential rates in 1976 averaged 4.8 cents per kilowatt-hour and 83 cents per therm, both well above the corresponding rates several years earlier.

The liquid fuel tax base for 1976 was approximately 850 million gallons, compared with 883 million in 1973 and 481 million in 1966. The 1976 total included 296 million gallons of gasoline, 457 million of aviation fuel, and 93 million of diesel oil.

Total energy consumption in 1973 (the most recent available year) amounted to 192 trillion British thermal units, compared with 93 trillion BTU a decade earlier. Transportation accounted for 60 percent of the 1973 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. Sixty-one patents were granted to Hawaii residents in 1975, the largest number on record.

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 Department of Planning and Economic Development in 1974. *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: 1976*, Sections 19 and 20.

Table 240.—ELECTRIC UTILITIES: 1966 TO 1976

Year	Customers, Dec. 31		1,000 KWH sold			Average annual use (KWH) ¹		Ave. rate (dollars/KWH)		Installed capacity (KW)
	Residential	Other	Total	Residential	Other	Residential	Other	Residential	Other	
1966	160,784	29,492	2,639,866	912,616	1,727,250	5,676	58,567	.027290	.019949	830,644
1967	166,256	30,161	2,832,468	989,785	1,842,684	5,953	61,109	.027039	.020037	829,157
1968	171,346	30,821	3,109,256	1,083,233	2,026,023	6,322	65,735	.026803	.020022	894,532
1969	178,569	31,761	3,426,052	1,174,502	2,251,550	6,577	70,890	.026548	.019647	896,271
1970	186,282	32,721	3,758,094	1,270,732	2,487,362	6,822	76,017	.026810	.020113	1,007,021
1971	193,043	33,471	4,167,127	1,375,308	2,791,819	7,124	83,410	.028229	.021493	1,016,350
1972	201,903	34,406	4,562,568	1,493,840	3,068,728	7,399	89,192	.02849	.02172	1,135,055
1973	210,740	35,515	4,867,850	1,581,855	3,285,995	7,506	92,524	.03077	.02367	1,266,600
1974	219,633	36,268	5,113,906	1,635,978	3,477,928	7,449	95,895	.03493	.02704	1,419,892
1975	226,836	36,980	5,334,755	1,676,438	3,658,317	7,391	98,927	.04586	.03794	1,454,359
1976	232,070	37,965	5,615,209	1,750,618	3,864,592	7,543	101,794	.04796	.03934	1,454,359

¹ Based on number of customers at end of year.

Source: Hawaii State Public Utilities Division, *Historical Data, Gas and Electric Utilities, State of Hawaii, 1959 to 1968* (unpagged), and records.

Table 241.—SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1970 TO 1976

Year	Number of customers, December 31		Net input ¹ (1,000 KWH)	Power sold (1,000 KWH)	Average annual residential use ² (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	5,038,487	4,761,592	8,082	0.04385	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 242.—ELECTRIC UTILITIES, BY ISLANDS: 1976

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (KW)	Power sold (1,000 KWH)		
	Total	Residential	Other		Total	Residential	Other
State total	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
Oahu	201,974	175,581	26,393	1,209,400	4,761,592	1,419,044	3,342,548
Hawaii	29,794	24,533	5,261	124,300	362,608	146,748	215,860
Kauai	13,559	11,414	2,145	39,900	155,834	56,722	99,112
Maui County	24,708	20,542	4,166	80,759	335,175	128,103	207,072
Lanai	854	682	172	—	5,814	3,616	2,198
Maui	21,969	18,412	3,557	72,890	310,439	114,664	195,776
Molokai	1,885	1,448	437	7,869	18,921	9,823	9,098

County or island	Average annual use ¹ (KWH)		Average rate (dollars per KWH)		Revenue (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	7,543	101,794	0.04796	0.03934	235,999	83,957	152,042
Oahu	8,082	126,645	0.04385	0.03524	180,013	62,224	117,789
Hawaii	5,982	41,030	0.06641	0.06312	23,370	9,746	13,624
Kauai	4,969	46,206	0.07333	0.07513	11,606	4,159	7,446
Maui County	6,236	49,705	0.06111	0.06366	21,010	7,828	13,182
Lanai	5,303	12,778	0.06698	0.07889	416	242	173
Maui	6,228	55,040	0.06037	0.06215	19,090	6,993	12,167
Molokai	6,784	20,820	0.06750	0.09247	1,504	663	841

¹Based on number of customers at end of year.

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

Table 243.—GAS UTILITIES: 1966 TO 1976

[Data limited to Honolulu Gas Co., Ltd., and its successor organization, Gasco, Inc. Excludes bottled gas.]

Year	Customers		Gas sold (1,000 therms)			Ave. ann. use (therms)		Average rate (dollars per therm)	
	Residential	Other	Total	Residential	Other	Residential	Other	Residential	Other
1966	34,956	1,355	21,019	11,171	9,848	320	7,268	0.3626	0.2185
1967	35,000	1,382	22,547	11,348	11,198	324	8,103	0.3618	0.2179
1968	34,955	1,300	23,570	11,331	12,240	324	9,415	0.3618	0.2169
1969	34,829	1,305	25,649	11,848	13,801	340	10,576	0.3588	0.2156
1970	32,163	3,979	27,831	10,891	16,940	339	4,257	0.3619	0.2227
1971	32,072	4,081	30,445	9,279	21,167	289	5,187	0.3699	0.2308
1972	31,806	4,277	33,322	9,321	24,000	293	5,612	0.36843	0.22681
1973	31,142	4,639	34,540	8,931	25,609	287	5,520	0.37518	0.23121
1974	30,620	4,608	34,363	8,096	26,267	264	5,700	0.68361	0.52267
1975	30,236	4,449	35,594	8,230	27,364	272	6,151	0.81723	0.63583
1976	29,873	4,391	35,568	8,121	27,447	272	6,251	0.82767	0.63369

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, *Historical Data, Gas and Electric Utilities, State of Hawaii, 1959 to 1968* (unpaged), and records.

Table 244.—GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1966 TO 1976

Calendar year	Customers ¹		Gas sold (1,000 therms) ²		Average annual residential usage (therms) ²
	Total	Residential	Total	Residential	
1966	34,168	32,819	20,297	10,544	321
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

¹ As of December 31. Data for residential customers, 1966-1970, may include a few commercial accounts.

² Includes liquefied petroleum gas.

Source: Gasco, Inc., records.

Table 245.—GAS UTILITIES, BY ISLANDS: 1976
 [Excludes bottled gas.]

Island	Customer, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	34,264	29,873	4,391	35,568,366	8,121,265	27,447,101
Oahu	31,443	27,434	4,009	32,648,549	7,493,748	25,154,801
Hawaii	2,192	1,868	324	2,335,709	471,235	1,864,474
Kauai	230	230	—	67,215	67,215	—
Maui	399	341	58	516,893	89,067	427,826

Island	Average annual use (therms) ¹		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	272	6,251	0.82767	0.63369	24,115	6,722	17,393
Oahu	273	6,275	0.83788	0.64035	22,387	6,279	16,108
Hawaii	252	5,755	0.71182	0.55523	1,371	335	1,035
Kauai	292	—	0.72463	—	49	49	—
Maui	261	7,376	0.65937	0.58417	309	59	250

¹ Based on number of customers at end of year.

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

Table 246.—TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLAND: JANUARY 1977

Utility and usage	Oahu	Hawaii ¹	Kauai	Maui	Molokai	Lanai
Water:						
5/8-inch meter, 5,000 gallons ..	5.20	5.90	4.50	3.55	3.55	2.95
5/8-inch meter, 10,000 gallons ..	6.55	8.55	7.00	5.60	5.60	4.65
1-inch meter, 20,000 gallons ..	11.50	16.85	15.00	11.70	11.70	9.30
1½ inch meter, 50,000 gallons	23.10	37.50	35.00	26.25	26.25	22.00
Electricity:						
100 kilowatt-hours	8.03	13.08	10.77	10.75	12.25	10.94
250 kilowatt-hours	15.26	23.24	21.74	20.28	21.84	20.76
500 kilowatt-hours	25.10	36.58	37.84	33.36	35.84	34.32
Gas:						
10 therms	6.81	8.01	7.91	6.19	...	...
25 therms	17.24	16.39	16.97	14.35	...	...
50 therms	34.58	29.61	31.79	27.67	...	...
100 therms	69.68	56.36	61.64	54.52	...	...
Telephone:²						
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.

²Plus 5 percent Federal excise tax.

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

Table 247.—BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1976

Island	Power boilers	Heating boilers	Pressure vessels ¹
State total	663	2,347	3,968
Hawaii	95	233	627
Maui	61	158	500
Lanai	3	2	26
Molokai	6	22	23
Oahu	452	1,817	2,574
Kauai	46	115	218

¹ Five cubic feet or more.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, records.

Table 248.—LIQUID FUEL TAX BASE: 1966 TO 1976
(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
1966	481,361	177,627	40,039	5,506	414	122	256,175	238	1,241
1967	572,354	188,717	39,569	5,511	457	139	336,359	250	1,351
1968	619,803	197,663	41,213	6,566	781	253	371,686	227	1,415
1969	743,255	223,088	49,147	7,703	674	242	460,753	226	1,424
1970	754,632	235,178	58,129	8,029	814	274	450,474	214	1,519
1971	809,628	250,191	57,405	8,852	1,044	579	489,767	231	1,559
1972	827,825	261,452	65,163	9,523	1,231	702	487,743	264	1,747
1973	882,932	281,122	74,608	11,159	1,909	453	511,502	280	1,899
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

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 249.—DOMESTIC DEMAND FOR PETROLEUM PRODUCTS: 1967 TO 1975
(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

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) and "Crude Petroleum, Petroleum Products, and Natural Gas Liquids in P.A.D. District V," *Mineral Industry Surveys* (for 1970 and later years).

Table 250.—DOMESTIC DEMAND FOR PETROLEUM PRODUCTS: 1974 AND 1975
(Barrels daily)

Item	Total		Military ¹		All other	
	1974	1975	1974	1975	1974	1975
Total petroleum	89,860	87,970	5,164	3,121	84,696	84,849
Liquified gases	789	1,134	—	—	789	1,134
Fuel uses	789	1,134	—	—	789	1,134
Other	—	—	—	—	—	—
Gasoline	19,661	17,858	1,482	154	18,179	17,704
Motor	19,477	17,644	1,482	154	17,995	17,490
Aviation	184	214	—	—	184	214
Special naphthas and solvents .	118	121	—	—	118	121
Jet fuel	30,241	30,605	2,638	2,759	27,603	27,846
Naphtha-type	3,690	2,759	2,638	2,759	1,052	—
Kerosine-type	26,551	27,846	—	—	26,551	27,846
Kerosine	55	38	—	3	55	35
Distillate fuel oil	6,534	5,871	1,044	205	5,490	5,666
Lubricating oils and greases .	268	244	—	—	268	244
Residual fuel oil	30,704	30,532	—	—	30,704	30,532
Asphalt and road oil	1,019	1,099	—	—	1,019	1,099
All other finished and unfinished oils	—	—	—	—	—	—
Still gas	471	468	—	—	471	468

¹Excludes imports and direct shipments.

Source: U.S. Bureau of Mines, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids in P.A.D. District V, Year 1975," *Mineral Industry Surveys*, March 8, 1977, pp. 3-4.

Table 251.—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

¹No consumption of anthracite, bituminous coal and lignite, natural gas, or nuclear power was recorded in this period.

²Highway use of distillate fuel oil included in "miscellaneous" in 1967.

Source follows next table.

Table 252.—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
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 251 and 252: 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 253.—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 254.—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 255.—PATENTS GRANTED TO HAWAII
RESIDENTS: 1970 TO 1976**

Year	Patents
1970	50
1971	37
1972	26
1973	50
1974 ¹	55
1975 ¹	61
1976	43

¹ Fiscal year ended June 30. Includes reissues.

Source: *Annual Report of the Commissioner of Patents*;
U.S. Department of Commerce, news release PAT 77-3
(March 17, 1977).

Section 18

TRANSPORTATION

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

Most local travel in Hawaii is by private automobile. Motor vehicle registration increased from 324,000 in 1966 to 425,000 in 1971 and 537,000 in 1976. Vehicle miles rose during the same period from 2.57 billion to 4.31 billion. Hawaii residents purchased 39,700 new passenger cars in 1976 and scrapped or shipped out approximately 10,000. By the end of 1976, 540,700 licensed drivers had access to 3,797 miles of streets and highways throughout the State. There was a corresponding rise in the use of local bus service: revenue passengers of the Honolulu Mass Transit Lines increased from 19.4 million in 1971 to 64.6 million in 1976. Registered bicycles numbered 52,000 in 1971 and 89,000 in 1976.

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, but in 1975 hydrofoil service was initiated between Honolulu and other Island ports. In 1976, the two scheduled airlines and a number of air taxis reported 5.9 million interisland passengers, more than three times their 1966 total, while hydrofoil passengers numbered 196,000. The State has 12 commercial airports, 46 general aviation, military, or private airports, 2,902 active pilots, and 358 active civil aircraft.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 6,000 in 1976, air passengers increased during the same 17-year span from 224,000 to 3.5 million. Between 1936 and 1977, sharp declines occurred in both scheduled flight time between California and Hawaii (from 20 to 5 hours) and minimum roundtrip fare (from \$712 to \$244). Overseas cargo received in the State in 1975 amounted to 68,000 tons by air and 8.6 million tons by ship.

Undocumented State-registered vessels as of December 31, 1976, numbered 13,130, compared with 8,803 in 1971. Median length was 17 feet, and four-fifths were stored on land. There were also 802 documented vessels in the State in 1976, more than double 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: 1976*, Sections 21 and 22.

**Table 256.—MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1966 TO 1976**

Year (December 31)	Total	Paved	Unpaved
1966	3,372.96	3,193.96	179.00
1967	3,401.52	3,222.62	178.90
1968	3,442.43	3,258.53	183.90
1969	3,511.60	3,325.60	186.00
1970 ¹	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
ISLANDS: 1976			
Hawaii	1,433.01	1,236.51	196.50
Maui	575.75	499.70	76.05
Lanai	45.76	31.76	14.00
Molokai	124.73	110.15	14.58
Oahu	1,291.57	1,255.10	36.47
Kauai	326.42	303.31	23.11
Niihau	—	—	—

¹ Includes 284.00 miles reclassified from "paved" to "unpaved."

Source: Hawaii State Department of Transportation, Division of Land Transportation Facilities, records.

**Table 257.—FREEWAY MILEAGE AND HIGHWAY TUNNEL LENGTH, BY ISLANDS:
1955 TO 1975**

Island	Freeway mileage in use, Dec. 31 ¹			Highway tunnel length (feet) in use, Dec. 31 ²		
	1955	1965	1975	1955	1965	1975
State total	1.5	6.5	28.6	317	11,220	11,220
Oahu	1.5	6.5	28.6	—	10,903	10,903
Maui	—	—	—	317	317	317

¹ Includes only highways built to freeway standards; excludes highways built to lower standards but functionally classed as expressways or freeways. The first freeway in Hawaii was Lunalilo Freeway, between Alexander Street and South King Street, Honolulu, opened in 1954.

² Each bore counted separately. The first highway tunnel in Hawaii was one of 317 feet on Honoapiilani Highway, near Olowalu, Maui, opened in 1951.

Source: Hawaii State Department of Transportation, Highways Division, December 1976.

Table 258.—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 259.—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
Kauai	Wilhelmina Rise	19.0
	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 260.—SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS:
DECEMBER 31, 1976**

Type of facility and control	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections	509	22	12	—	—	470	5
Under State control ¹	208	1	12	—	—	195	—
Under County control	301	21	—	—	—	275	5
Metered on-street parking spaces	4,109	595	26	—	—	3,463	25
Under State control	627	56	26	—	—	520	25
Dept. of Acctg. & General Services	410	56	26	—	—	303	25
Dept. of Transportation	217	—	—	—	—	217	—
Under County control	3,482	539	—	—	—	2,943	—
Metered off-street parking spaces	3,524	370	—	—	18	3,089	47
Under State control ¹	836	80	—	—	18	691	47
Under County control	2,688	290	—	—	—	2,398	—

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 261.—MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES:
1966 TO 1976**

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
1966	323,843	286,836	37,007	183,255	566	2,565.6	7,922
1967	335,326	297,766	37,560	194,368	580	2,721.1	8,114
1968	353,888	315,024	38,864	209,597	592	2,934.4	8,292
1969	373,541	332,213	41,328	225,917	605	3,162.8	8,467
1970	404,463	358,255	46,208	243,482	602	3,408.9	8,428
1971	425,210	375,205	50,005	261,476	615	3,660.7	8,609
1972	446,355	392,179	54,176	268,407	601	3,757.7	8,414
1973	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

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 262.—VEHICLE REGISTRATION AND USE AND DRIVERS LICENSES IN FORCE,
BY COUNTIES: 1975**
(Revised)

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered, total ¹	501,783	383,115	53,001	23,901	41,766
Passenger cars	434,088	339,647	41,615	19,194	33,632
Ambulances and hearses	98	63	14	5	16
Buses	2,275	1,706	250	158	161
Trucks	63,389	40,512	10,693	4,432	7,752
Tractor-trucks	1,878	1,132	429	112	205
Other motor vehicles	55	55	—	—	—
Other vehicles registered: ¹					
Trailers and semi-trailers	16,062	9,849	2,964	1,679	1,570
Motorcycles and motor scooters	8,569	7,103	569	203	694
Highway fuel consumption (1,000 gal.)	296,160	226,427	33,129	12,927	23,677
Per motor vehicle (gallons)	590	591	625	541	567
Vehicle miles (millions)	4,146.2	3,169.9	463.8	181.0	331.5
Per vehicle (miles)	8,263	8,274	8,751	7,572	7,937
Drivers licenses in force, Dec. 31	531,375	425,370	46,891	22,153	36,961

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 263.—VEHICLE REGISTRATION AND USE AND DRIVERS LICENSES IN FORCE,
BY COUNTIES: 1976**

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered, total ¹	536,514	408,445	56,845	25,366	45,858
Passenger cars	462,685	361,447	44,258	20,163	36,817
Ambulances and hearses	83	54	12	4	13
Buses	2,548	1,872	246	175	255
Trucks	69,288	43,912	11,920	4,905	8,551
Tractor-trucks	1,856	1,106	409	119	222
Other motor vehicles	54	54	—	—	—
Other vehicles registered: ¹					
Trailers and semi-trailers	16,290	9,803	3,064	1,816	1,607
Motorcycles and motor scooters	9,230	7,649	653	217	711
Highway fuel consumption (1,000 gal.)	308,151	232,171	35,734	13,954	26,292
Per motor vehicle (gallons)	574	568	629	550	573
Vehicle miles (millions)	4,314.1	3,250.4	500.3	195.4	368.1
Per vehicle (miles)	8,041	7,958	8,801	7,702	8,027
Drivers licenses in force, Dec. 31	540,720	429,216	49,150	22,636	39,718

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 264.—TAXIS, BY COUNTY: 1970 TO 1976

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

Source: County departments of finance, records.

Table 265.—REGISTERED BICYCLES, BY COUNTIES: 1970 TO 1976

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

¹ Excludes Kauai before 1971.

² Records before 1971 lost in fire.

³ Includes Maui (3,719 in 1976), Molokai (219), and Lanai (189).

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

Table 266.—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 267.—COMPONENTS OF CHANGE IN PASSENGER MOTOR VEHICLE REGISTRATION:
1963 TO 1976**

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	(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, records; new registrations from R.L. Polk & Co. data in the Federal Reserve Bank of San Francisco, *Western Economic Indicators* (monthly), and Motor Vehicle Manufacturers Association, *Motor Vehicle Facts & Figures '77* (1977), p. 22. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual); vehicles scrapped or shipped out computed as residual.

Table 268.—NEW MOTOR VEHICLE REGISTRATIONS, BY KIND OF VEHICLE AND COUNTIES: 1976

Kind, origin, and make of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Passenger cars	39,731	31,175	3,914	1,441	3,201
Domestic	23,553	17,869	2,537	983	2,164
Buick	1,359	1,227	36	13	83
Chevrolet	4,949	3,760	521	237	431
Dodge	3,300	1,979	633	273	415
Ford	5,967	4,844	489	161	473
Mercury	1,004	860	94	21	29
Oldsmobile	1,403	1,233	79	11	80
Plymouth	2,578	1,759	336	168	315
Pontiac	1,128	1,051	45	8	24
Other makes	1,865	1,156	304	91	314
Foreign	16,178	13,306	1,377	458	1,037
Datsun	3,473	2,641	179	173	480
Subaru	1,143	1,083	24	2	34
Toyota	5,992	4,849	868	112	163
Volkswagen	2,678	2,237	125	114	202
Other makes	2,892	2,496	181	57	158
Trucks	5,893	3,830	1,056	403	604
Domestic	4,240	2,742	763	280	455
Foreign	1,653	1,088	293	123	149

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

**Table 269.—MOTOR VEHICLE DEATHS AND TRAFFIC DEATHS, INJURIES, AND MAJOR ACCIDENTS:
1966 TO 1976**

Year	Motor vehicle deaths ¹	Traffic deaths	Traffic injuries	Major traffic accidents ²
1966	130	116	8,051	10,225
1967	150	138	8,707	11,529
1968	166	147	10,082	13,989
1969	148	133	10,603	16,174
1970	163	153	11,743	18,172
1971	170	154	10,934	18,048
1972	164	146	11,141	18,259
1973	146	136	11,860	19,544
1974	123	129	10,022	14,855
1975	138	146	10,554	13,895
1976	(NA)	149	11,667	14,860

NA Not available.

¹ Traffic and non-traffic deaths combined, on a place of occurrence basis (except 1974 and 1975, which are on a place of residence basis). Non-traffic motor vehicle deaths includes those occurring on military bases and private property.

² Traffic accidents with damage of \$300 or more (\$100 or more before July 1, 1974) or causing injury or death.

Source: Motor vehicle deaths from U.S. Department of Health, Education, and Welfare, *Vital Statistics of the United States* (annual, 1966 to 1973) and Hawaii State Department of Health, *Statistical Report, 1974*, p. 25, and records. Traffic deaths, injuries, and accidents from the Hawaii State Department of Transportation, Highways Division, *Major Traffic Accidents* (annual), and records.

Table 270.—BUS SERVICE, FOR OAHU: 1970 TO 1976
(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

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 271.—STEAM RAILROAD MILEAGE AND PASSENGERS:
1970 TO 1976**

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

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 272.—INTERISLAND AND TRANSPACIFIC REVENUE PASSENGERS, BY MODE OF TRAVEL:
1966 TO 1976**

Year	Interisland passengers		Transpacific passengers				
	Surface arrivals ¹	Air arrivals ²	Surface ³		Air ⁴		
			Arrivals	Departures	Arrivals	Departures	Through
1966	—	1,754,970	29,612	24,899	1,000,687	973,158	151,634
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

¹ Scheduled interisland passenger service was discontinued in 1949 and resumed in June 1975.

² Includes air taxis in all years and nonrevenue passengers beginning in 1970.

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 273.—AIRPORTS AND HELIPORTS, BY CONTROL: JUNE 30, 1977

Type	All facilities ¹	State		Military	Private ¹
		Commercial	General aviation		
Airports	56	11	3	6	36
Heliports	18	8	—	(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 274.—PILOTS, CIVIL AIRCRAFT, AND AIRCRAFT OPERATIONS: 1960 TO 1976

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	(NA)	(NA)	(NA)	320,565	52,679	90,455

NA Not available.

¹ Data for 1971 and 1973-1975 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). Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

Table 275.—AIRCRAFT OPERATIONS, BY TYPE, FOR SPECIFIED AIRPORTS: 1976

Airport	All operations	Air carrier	Air taxi	General aviation	Military
Honolulu Int. Airport	320,565	108,404	60,614	113,952	37,595
Gen. Lyman Field	52,679	19,613	2,842	19,325	10,899
Kahului Airport	90,455	37,568	23,036	19,098	10,753
Lihue Airport	58,865	24,346	20,094	10,692	3,733
Ke-ahole Airport	58,425	13,937	14,090	17,867	12,531

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

**Table 276.—CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES:
1965 TO 1975**

Subject	1965	1974	1975
Number of airlines ¹	2	2	2
Aircraft revenue departures ² (1,000)	58.4	74.5	75.0
Aircraft revenue miles ² (1,000)	6,661	9,192	9,154
Average airborne speed ² (miles per hour)	194	327	325
Average available seats per aircraft ²	52.1	114.4	115.8
Revenue passengers: ²			
Enplanements ³ (1,000)	1,286	4,675	4,767
Load factor (percent)	61.0	65.4	65.3
Revenue ton-miles (1,000):			
Freight plus express	2,432	5,687	5,874
Mail	335	1,182	1,234
Number of employees	1,452	2,209	2,299
Operating revenues (\$1,000)	20,439	87,496	93,888
Operating profit (\$1,000)	1,911	6,967	1,506
Average passenger revenues per revenue passenger-mile ²	8.8	12.2	13.1
Average freight revenues per revenue ton-mile ²	0.57	0.72	0.85

¹Aloha Airlines, Inc., and Hawaiian Airlines, Inc.

²Scheduled service only.

³Originations for 1965.

Source: Civil Aeronautics Board, *Handbook of Airline Statistics 1973*, and records.

Table 277.—AIR CARGO AND AIRMAIL: 1970 TO 1976
(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	15,665	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

¹ Cargo totals include air freight and air express.

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 278.—PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1976

Airport	Passengers ¹		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	3,496,645	3,432,908	136,017	118,478	39,407	
Honolulu	3,390,023	3,288,657	129,507	94,568	(NA)	(NA)
Hilo (Lyman)	101,351	140,854	6,510	23,910	(NA)	(NA)
Kahului	5,271	3,397	—	—	(NA)	(NA)
Other airports	—	—	—	—	(NA)	(NA)
INTERISLAND						
Total	5,873,138	5,873,138	86,818	86,818	19,024	19,024
Honolulu	2,333,640	2,353,284	29,458	50,591	3,992	14,622
Hilo (Lyman)	568,601	518,842	12,300	22,007	4,942	1,355
Upolu	1,279	1,142	—	6	—	—
Waimea	24,507	19,545	816	990	16	81
Ke-ahole	489,763	504,793	5,567	3,762	1,512	459
Kahului	1,261,818	1,277,190	21,313	5,690	4,851	1,530
Hana	9,402	9,957	5	1	—	—
Kaanapali	40,825	41,439	789	57	—	—
Molokai	80,413	79,181	1,273	809	3,243	79
Kalaupapa	3,826	3,779	268	29	22	7
Lanai	22,386	22,181	1,237	130	154	36
Lihue	1,036,678	1,041,763	13,784	2,742	3,181	855
Other	192	42	6,645	—	—	—

NA Not available.

¹ Revenue and non-revenue, including Military Airlift Command (MAC). Excludes overseas passengers in transit (816,915 through Honolulu International Airport; not reported for General Lyman Field).

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

**Table 279.—AIR FARES AND FLIGHT TIME FOR SPECIFIED INTERISLAND AND TRANSPACIFIC FLIGHTS:
1967 TO 1977**

Subject	Jan. 1, 1967	Jan. 1, 1976	Jan. 1, 1977	Subject	Jan. 1, 1967	Jan. 1, 1976	Jan. 1, 1977
HAWAIIAN AIR LINES				PAN AMERICAN WORLD AIRWAYS—Con.			
Honolulu-Hilo:				Economy fare (weekends)¹			
Fare ¹	20.10	28.38	30.00	Economy fare (weekends) ¹	110.03	142.39	145.06
Fare	19.14	25.93	27.78	Fare	110.00	139.00	142.00
Tax	0.96	2.07	2.22	Tax	0.03	3.00	3.06
Security charge	—	0.38	—	Security charge	—	0.39	—
Aircraft	DC-9-30	DC-9-50	DC-9-50	Economy fare (weekdays)¹	110.03	126.39	129.05
Flight time ²	0:40	0:40	0:40	Fare	110.00	123.00	126.00
Honolulu-Maui/Kauai:				Tax	0.03	3.00	3.05
Fare ¹	13.20	21.38	23.00	Security charge	—	0.39	—
Fare	12.57	19.44	21.30	Thrift fare (weekends)¹ ..	100.03	134.39	137.05
Tax	0.63	1.56	1.70	Fare	100.00	131.00	134.00
Security charge	—	0.38	—	Tax	0.03	3.00	3.05
PAN AMERICAN WORLD AIRWAYS (HONOLULU-SAN FRANCISCO)				Security charge	—	0.39	—
First Class fare¹	150.05	204.42	208.08	Thrift fare (weekdays)¹ ..	100.03	119.38	122.04
Fare	150.00	201.00	205.00	Fare	100.00	116.00	119.00
Tax	0.05	3.00	3.08	Tax	0.03	3.00	3.04
Security charge	—	0.42	—	Security charge	—	0.38	—
				Aircraft	B-707	B-747	B-747
				Flight time ²	4:55	4:58	4:58

¹ Total 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 Air Lines, printed schedules; Pan American World Airways, printed schedules.

Table 280.—STATE COMMERCIAL HARBORS: 1977

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	2,027	3,585
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 May 1977.

TABLE 281.—DOCUMENTED AND NUMBERED REGISTERED VESSELS: 1970 TO 1976

Year	Documented vessels ¹	Numbered vessels ²
1970	553	8,042
1971	597	8,803
1972	621	10,250
1973	692	12,049
1974	707	11,843
1975	797	12,956
1976	802	13,130

¹Vessels 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. Data are as of June 30, 1970 to 1973, August 22, 1974, September 1, 1975 and December 1976.

²Non-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. Data are as of December 31, years.

Source: U.S. Coast Guard, records; Hawaii State Department of Transportation, *Report of Undocumented Vessel Registration* (annual).

Table 282.—UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1976

Subject	Number	Subject	Number
Certificates outstanding	13,130	Type of vessel: ¹	
Length:		Cabin motorboat	1,404
Under 16 feet	6,082	Open motorboat	5,168
16 to less than 26 feet	5,868	Runabout	3,175
26 to less than 40 feet	980	Sail/inboard	413
40 to 65 feet	154	Sail/outboard	649
Over 65 feet	8	Sail only	1,697
Dealers or manufacturers	38	Motor vessel over 65 feet	8
		Other	578
Hull materials: ¹		Uses:	
Wood	3,359	Pleasure	11,893
Steel	29	Commercial fishing	760
Aluminum	416	Charter fishing	11
Plastic	8,937	Commercial passenger	26
Other	351	Other commercial	35
Propulsion: ¹		Livery	55
Inboard	793	Dealers or manufacturers	38
Outboard	7,935	Youth group	22
Inboard/outboard	1,378	Government	224
Sail/inboard	429	Other	66
Sail/outboard	590	Island kept: ¹	
Sail only	1,736	Hawaii	1,382
Other	231	Kauai	973
Type of storage: ¹		Lanai	57
On water	2,547	Maui	696
On land	10,545	Molokai	219
		Oahu	9,765

¹ Excludes dealers and manufacturers registrations (38).

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

Table 283.—SHIP ARRIVALS AT THE PORT OF HONOLULU: 1966 TO 1976

Year ended June 30	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1966	1,941	14,654,173	2,877	1,219,665
1967	1,684	13,820,896	2,652	1,422,467
1968	1,774	15,277,355	2,474	1,413,915
1969	1,903	15,954,257	2,961	2,458,333
1970 ¹	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

¹ Tonnage estimated.

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, records.

Table 284.—VESSELS ARRIVING AT SPECIFIED HARBORS: 1975

(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 ...	20,703	11,402	255	5,381	3,472	193	(NA)	(NA)
Hilo	663	127	24	277	221	14	569	94
Kawaihae	299	12	5	161	121	—	283	16
Kahului	859	192	16	348	268	35	758	101
Kaunakakai	1,122	—	—	591	528	3	1,086	36
Barbers Point	870	—	103	700	10	57	766	104
Honolulu	8,237	4,108	97	2,403	1,559	70	7,435	802
Nawiliwili	507	132	4	203	159	9	484	23
Kalaupapa	3	—	—	1	2	—	3	—
Port Allen	175	16	—	106	53	—	(NA)	(NA)
Kaunalapau	540	—	—	266	274	—	540	—
Pearl Harbor	4,524	4,376	6	120	17	5	(NA)	(NA)
Other ports	2,904	2,439	—	205	260	—	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1975, Part 4 (1976)*, pp. 103-104.

Table 285.—FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1975

Year	Passengers ¹			Freight (1,000 short tons) ²			
	Hilo Harbor	Honolulu Harbor ³	Kahului Harbor	Barbers Point Harbor	Hilo Harbor	Honolulu Harbor	Kahului Harbor
1970	4,457	690,906	—	2,561.6	1,141.2	8,078.1	1,083.4
1971	2,148	518,603	—	2,677.5	1,064.4	7,390.0	1,067.9
1972	658	796,694	—	3,420.4	1,108.1	7,960.4	1,297.8
1973	—	989,100	—	3,944.9	1,041.6	8,188.5	1,042.8
1974	9,600	987,475	9,600	4,360.2	928.6	7,556.9	982.1
1975	13,613	1,073,125	11,296	5,185.7	1,053.9	7,935.2	1,109.5

¹Total arrivals and departures for transpacific, interisland, and local travel.

²Excludes cargo carried by Army and Navy vessels and cargo in transit.

³Most of the increase in passenger traffic appears to be a result of excursion travel between Honolulu Harbor or Kewalo Basin and Pearl Harbor. For separate statistics on this category, see the next page.

Source: U.S. Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual).

Table 286.—PASSENGER ARRIVALS AND DEPARTURES FOR HONOLULU HARBOR: 1969 TO 1975

Year	All passengers	To or from foreign countries		To or from other states		Interisland and local travel ¹	
		Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
1969	604,482	23,500	21,258	14,028	13,746	265,204	266,746
1970	690,906	21,189	19,745	4,825	7,046	319,094	319,007
1971	518,603	25,165	20,520	6,749	6,773	229,730	229,666
1972	796,694	24,996	15,907	6,353	5,087	372,176	372,175
1973	989,100	21,544	14,863	4	68	476,311	476,310
1974	987,475	12,831	11,078	—	—	481,783	481,783
1975	1,073,125	11,414	9,270	2,587	2,698	521,191	525,965

¹Mostly between Kewalo Basin and Pearl Harbor.

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

Table 287.—OVERSEAS AND INTERISLAND SHIPPING: 1965 TO 1975

(In revenue tons of 2,000 lb.)

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1965	5,785,111	3,408,059	2,377,052	3,213,134	1,512,810	1,700,324
1966	6,850,718	4,050,678	2,800,040	3,380,431	1,686,898	1,693,533
1967	7,136,017	4,334,536	2,801,481	3,536,997	1,767,764	1,769,233
1968	9,185,880	6,498,986	2,686,894	3,689,409	1,844,704	1,844,705
1969	9,440,891	7,185,809	2,255,082	3,941,074	1,969,987	1,971,087
1970	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
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

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 288.—FREIGHT TRAFFIC FOR SPECIFIED HARBORS: 1975
(Short tons)

Harbor and commodity ¹	Total	Foreign		Domestic			
		Imports	Exports	Coastwise ²		Internal receipts	Local
				Receipts	Shipments		
Hilo	1,053,879	29,605	45,542	621,063	357,390	279	—
Sugar	219,210	—	45,542	48	173,620	—	—
Kawaihae	279,687	—	16,980	60,094	202,582	31	—
Kahului	1,109,485	16,355	31	582,049	510,943	107	—
Sugar	243,193	—	—	34	243,159	—	—
Kaunakakai	371,340	—	—	45,722	325,608	10	—
Sand, gravel, crushed rock	213,682	—	—	—	213,682	—	—
Barbers Point	5,185,659	3,090,514	18,203	671,792	1,405,150	—	—
Crude petroleum	2,203,048	2,106,010	—	97,038	—	—	—
Gasoline	235,528	78,307	181	9,138	147,902	—	—
Distillate fuel oil	430,061	174,079	17,940	18,475	219,567	—	—
Residual fuel oil	1,934,654	584,621	—	546,240	803,793	—	—
Honolulu	7,935,183	1,584,356	61,812	4,119,554	2,157,583	165	11,713
Fresh fruits and tree nuts	366,327	1,058	203	325,839	39,227	—	—
Crude petroleum	217,773	217,773	—	—	—	—	—
Sand, gravel, crushed rock	251,774	42,208	—	201,904	7,662	—	—
Prep. fruit and veg. n.e.c.	490,571	1,280	3,243	75,143	410,905	—	—
Molasses	393,264	—	—	162,111	223,433	—	7,720
Groceries	240,913	—	—	118,094	122,819	—	—
Gasoline	353,164	17,374	9,359	282,425	44,006	—	—
Kerosene	952,283	810,634	1,551	140,098	—	—	—
Distillate fuel oil	208,896	78,176	5,538	120,815	4,367	—	—
Residual fuel oil	562,748	176,956	—	260,135	122,927	—	2,730
Fabricated metal products	239,939	11,726	345	89,872	137,996	—	—
Nawiliwili	532,978	8,493	—	189,727	334,732	26	—
Sugar	251,176	—	—	14	251,162	—	—
Other ports ³	1,060,011	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹Commodities under 200,000 tons not shown separately.

²Includes both interisland and interstate traffic.

³Includes Hana (3 tons), Kalaupapa (591 tons), Port Allen (109,110 tons), Kaunapapa (261,095 tons, including 208,346 for fresh fruits and tree nuts), Pearl Harbor (276,319 tons), and other ports (412,893 tons, including 405,522 for sand, gravel, and crushed rock).

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1975, Part 4* (1976), pp. 29-37.

Table 289.—BOATING ACCIDENTS: 1970 TO 1976

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

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics* (annual).

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 4,300 farms in Hawaii as of 1976, with a total area of 2,300,000 acres. Both figures have declined during the past decade. The value of crop sales in 1976 was \$260 million, or 64 percent higher than the total for 1966. Livestock sales amounted to \$62 million, or 67 percent more than the 1966 level. Combined crop and livestock sales ranged from \$37 million in Kauai County to \$101 million on the Big Island. Major crops in 1976 were sugar (\$161 million in sales, up 53 percent over the decade), pineapple (\$53 million, or 42 percent over the 1966 total), and vegetables and melons (\$12 million). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from \$16 million in 1966 to \$46 million in 1976, or approximately 183 percent. About 500 farms sold \$12 million of flowers and nursery products in 1976, chiefly anthuriums, and orchids, ornamentals and trees. Important products of livestock farms as of 1976 included cattle (\$19 million in sales), milk (\$22 million), and eggs (\$12 million). Coffee sales have fluctuated sharply during the past decade, but macadamia nuts and horticultural specialties have increased rapidly. In 1976, Hawaii produced 41 percent of the fresh market vegetables consumed locally, 28 percent of the fresh market fruits, none of the rice, butter, and oleomargarine, all of the milk, and 93 percent of the eggs.

Statistics on Hawaiian agriculture exclude *pakalolo* (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 quinquennial *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 23 of the *Statistical Abstract of the United States: 1976*.

Table 290.—AGRICULTURAL SUMMARY: 1900 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
1900	2,273	1,209	656	230	178	2,610	2,568	(NA)	724.6
1910	4,320	3,787		533		2,591	(NA)	(NA)	(NA)
1920	5,284	2,734	1,959	374	217	2,702	(NA)	(NA)	(NA)
1930	5,955	3,407	2,051	322	175	2,815	2,727	(NA)	(NA)
1940	4,995	2,870	1,691	263	171	2,486	2,411	184.6	132.7
1950	5,750	3,558	1,669	339	184	2,432	2,350	159.5	117.4
1959	6,242	3,569	1,988	432	253	2,461	2,364	176.4	141.2
1964	4,864	2,603	1,594	416	251	2,354	2,266	167.5	143.9
1969	3,896	2,024	1,281	389	202	2,058	1,982	178.7	145.6
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
1900	(NA)	58.2	1.5	(NA)	26.4	23	(NA)	(NA)	(NA)
1910	(NA)	71.9	(NA)	(NA)	19.2	32	(NA)	(NA)	(NA)
1920	(NA)	70.8	(NA)	(NA)	24.4	48	(NA)	(NA)	(NA)
1930	(NA)	72.5	21.7	(NA)	18.8	40	(NA)	(NA)	(NA)
1940	49.9	70.6	4.6	(NA)	22.6	45	(NA)	(NA)	(NA)
1950	47.8	57.5	1.7	21,597	34.0	80	164,554	28.6	(NA)
1959	49.5	38.7	1.6	14,403	(NA)	(NA)	152,334	24.4	(NA)
1964	51.0	41.1	2.6	12,375	98.9	205	187,505	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)
1900	103	8	102	32	2,239	(NA)	33,442	(NA)	(NA)
1910	145	20	77	64	4,240	(NA)	41,828	9,834	(NA)
1920	137	24	43	65	4,863	150	29,572	19,884	(NA)
1930	138	31	32	271	7,471	355	7,582	19,950	5
1940	139	32	26	273	8,535	614	1,902	8,547	181
1950	156	65	14	472	7,889	655	658	4,648	704
1959	205	78	12	806	9,391	1,010	287	10,005	2,015
1964	218	68	12	1,045	10,741	924	—	9,679	7,015
1969	233	52	(D)	1,072	11,258	946	—	2,755	10,323
1974	227	51	12	1,305	8,986	693	—	1,819	17,08

Footnotes on next page.

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 291.—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	214,816	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		1,397
Kauai	18.4	1.8	} 97 }	15,969		77	1,229		2,036
Maui	42.7	9.2		33,833		(D)	782		527	2,069

D Data withheld to avoid disclosure information for individual farms.

¹ Working 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 292.—NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES:
1966 TO 1976**

Year and county	Number of farms	Area in farms ¹ (1,000 acres)	Value of sales (\$1,000)				
			Crops and livestock	Sugar (un-processed cane)	Pineapples (fresh equivalent)	Other crops	Livestock
1966	4,900	2,400	196,107	105,200	37,400	16,105	37,402
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	4,300	2,300	265,771	141,900	39,600	29,002	55,269
1974	4,300	2,300	575,477	442,300	40,300	34,968	57,909
1975	4,300	2,300	377,552	237,000	41,600	40,688	58,264
1976	4,300	2,300	322,323	161,400	53,000	45,608	62,315
COUNTIES:							
1976							
Hawaii	2,550	1,340	101,224	59,500	—	23,424	18,300
Kauai	350	282	37,212	33,200	—	2,310	1,702
Maui	500	526	86,021	40,600	30,300	7,886	7,235
Honolulu	900	152	97,866	28,100	22,700	11,988	35,078

¹ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.
Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 293.—ACREAGE IN CROP AND PASTURE, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY COUNTY: 1966 AND 1976

Subject	State total		Counties, 1976			
	1966	1976	Hawaii	Kauai	Maui	Honolulu
Acres (1,000 acres):						
Sugarcane	237.5	221.6	94.4	46.0	46.9	34.3
Pineapples (land used for pineapple)	64.5	48.0	—	—	32.0	16.0
Vegetables and melons	3.8	3.6	1.1	0.1	1.1	1.3
Fruits (excluding pineapples)	3.1	5.0	3.5	0.3	0.5	0.7
Coffee	4.6	2.4	2.4	—	—	—
Macadamia nuts	6.7	10.3	10.2	(D)	(D)	(D)
Miscellaneous crops	1.0	5.1	1.0	0.5	0.8	2.8
Number of crop farms:						
Sugar	788	520	509	5	3	3
Pineapples	71	16	—	—	14	2
Vegetables and melons	640	527	176	48	81	222
Fruits (excluding pineapples)	560	628	394	70	33	131
Coffee	840	780	780	—	—	—
Macadamia nuts	240	439	434	3	1	1
Taro	150	124	43	48	31	2
Flower and nursery	520	500	255	20	65	160
Volume of crop marketings:						
Sugar (unprocessed cane; 1,000 tons)	10,970	9,172	3,916	1,833	1,990	1,433
Pineapple (fresh equivalent; 1,000 tons)	1,006	680	—	—	457	223
Vegetables and melons (1,000 lb.)	56,707	63,410	22,520	2,450	23,390	15,020
Fruits (excluding pineapples; 1,000 lb.)	36,087	65,670	46,170	3,770	8,670	7,060
Coffee (parchment; 1,000 lb.)	8,040	2,020	2,020	—	—	—
Macadamia nuts (in shell; 1,000 lb.)	8,726	18,880	18,800	(D)	(D)	(D)
Taro (1,000 lb.)	8,990	7,350	1,845	4,420	1,085	
Value of crop sales (\$1,000):						
Sugar (unprocessed cane)	105,200	161,400	59,500	33,200	40,600	28,100
Pineapples (fresh equivalent)	37,400	53,000	—	—	30,300	22,700
Vegetables and melons	6,158	12,217	3,831	608	3,873	3,905
Fruits (excluding pineapples)	2,541	7,979	5,678	578	614	1,109
Coffee (parchment)	2,058	2,283	2,283	—	—	—
Macadamia nuts (in shell)	1,832	6,307	6,279	(D)	(D)	(D)
Taro	561	889	264	491	134	
Field crops (not estimated separately)	141	3,975	66	505	1,910	1,494
Horticultural specialties	2,700	11,828	4,919	93	1,345	5,471
Forest products	114	150	104	7	10	9

D Withheld to avoid disclosure of individual operations.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 294.—VEGETABLES, MELONS, FRUITS, COFFEE, NUTS, AND TARO: 1976

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	130	8.5	1,100	45.5	501
Chinese cabbage	260	24.9	6,465	10.8	698
Head cabbage	410	30.0	12,300	9.9	1,218
Celery	49	43.3	2,120	16.4	348
Cucumbers	260	18.5	4,800	17.8	854
Daikon	145	22.1	3,200	10.9	349
Eggplant	35	32.0	1,120	29.8	334
Ginger root	18	36.1	650	61.8	402
Lettuce (head, semi-head)	520	16.5	8,600	19.1	1,643
Dry onions	215	13.4	2,875	24.9	716
Green onions	90	10.4	940	50.1	471
Tomatoes	200	23.5	4,700	26.4	1,241
Watercress	36	48.8	1,755	23.9	420
Fruits:					
Bananas	550	9.1	5,030	15.5	780
Papayas ³	1,930	25.9	50,037	(⁴)	6,134
Coffee	2.0	1.0	2,020	113.0	2,283
Macadamia nuts	6,300	3.0	18,880	33.4	6,307
Taro	460	...	7,350	12.1	889

¹ Data shown for crops with sales in excess of \$300,000.

² Acreage bearing for macadamia nuts; acreage in crop for taro.

³ Fresh weight basis.

⁴ Fresh market, 13.5; processed, 3.8.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture, 1976*.

**Table 295.—NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY COUNTY: 1966 AND 1976**

Subject	State total		Counties, 1976			
	1966	1976	Hawaii	Kauai	Maui	Honolulu
Number of livestock farms:						
Cattle (incl. beef and dairy)	1,400	900	380	150	250	120
Hogs	890	640	90	80	130	340
Milk	190	80	30	5	20	25
Eggs	530	70	28	7	9	26
Broilers	36	11	—	2	—	9
Honey	38	22	3	4	4	11
Volume of livestock marketings:						
Beef (1,000 lb. dressed weight)	29,228	32,320	20,600	2,278	7,675	1,767
Pork (1,000 lb. dressed weight)	8,874	7,772	1,158	338	1,826	4,450
Milk (million lb.)	148.6	145.8	(D)	(D)	(D)	120.1
Eggs (million)	187	218	21.2	15.6		181.2
Broilers and chickens (1,000 lb. ¹)	4,958	6,121	(D)	(D)	(D)	5,667
Honey (1,000 lb.)	348	714	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):						
Cattle ²	10,861	18,511	11,599	1,372	4,592	948
Hogs ²	3,976	6,663	957	308	1,630	3,768
Milk	12,338	21,943	(D)	(D)	(D)	18,075
Eggs	8,088	11,808	1,328	959		9,521
Broilers and chickens	2,011	2,977	(D)	(D)	(D)	2,745
Others	128	413	316	22	54	21

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 296.—FLOWERS AND NURSERY PRODUCTS, BY ISLAND: 1976

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:								
1974	465	877	577	8,074	131	547	8,211	4,359
1975	502	1,005	682	8,280	156	643	9,767	5,392
1976	500	1,137	830	10,155	172	713	11,828	6,730
Islands, 1976:								
Hawaii	255	668	520	7,450	135	350	4,919	(NA)
Kauai	20	12	15	60	2	8	93	(NA)
Maui	65	94	90	95	10	80	1,345	(NA)
Oahu	160	363	205	2,550	25	275	5,471	(NA)

NA Not available.

Source: Hawaii Agricultural Reporting Service, *Hawaii Flowers and Nursery Products, Annual Summary* (June 3, 1977).

Table 297.—FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1976

Kind of flower	Number of farms	Number of flowers sold		Wholesale value (\$1,000)
		Unit	Number	
Cut flowers:				
Anthuriums	140	1,000 dozens	1,425	2,500
Birds of paradise	25	Do.	25	32
Carnations	4	Do.	30	43
Chrysanthemums, pompon	13	1,000 bunches	395	235
Chrysanthemums, other	5	1,000 dozens	15	45
Gingers	19	Do.	(NA)	75
Proteas, sunburst cordifolium	6	1,000 stems	53	35
Proteas, other	6	Do.	10	7
Roses	3	1,000 dozens	350	495
Others	26	Do.	(NA)	177
Cut orchids:				
Cattleyas	22	1,000 flowers	74	55
Cymbidiums	16	Do.	485	136
Dendrobiums, sprays	30	1,000 dozens	50	195
Others	35	1,000 flowers	(NA)	47
Lei flowers:				
Carnations	16	Million flowers	31.9	748
Vanda Miss Joaquin	22	Do.	39.0	475
Plumerias	12	Do.	45.8	360
Tuberoses	4	Do.	12.5	223
Pikake	8	1,000 strands	110	107
Cut foliage:				
Ti leaves	28	Million leaves	10.3	212
Other greens	21	Do.	18.1	136
Potted plants:				
Chrysanthemums	12	1,000 pots	145	368
Orchids	54	Do.	204	530
Potted foliage	31	Do.	(NA)	1,550
Other potted plants	50	Do.	(NA)	627
Ornamentals and trees	85	Do.	(NA)	1,544
Other nursery products	20	...	(NA)	871

NA Not available.

Source: Hawaii Agricultural Reporting Service, *Hawaii flowers and Nursery Products, Annual Summary* (June 3, 1977).

Table 298.—MARKET SUPPLY OF SPECIFIED FOODS: 1966 TO 1976

Commodity and year	Total market supply ¹			Per capita market supply ²	Percent from Hawaii
	Total	Inshipments	Hawaii		
Fresh market vegetables:					
1966	99,569	51,422	48,147	137.4	48.4
1975	132,641	73,803	58,838	142.9	44.4
1976	144,918	85,173	59,745	151.6	41.2
Fresh market melons:					
1966	7,527	3,102	4,425	10.4	58.8
1975	9,025	6,615	2,410	9.7	26.7
1976	10,751	9,221	1,530	11.2	14.2
Fresh market fruits:					
1966	46,564	24,887	21,677	64.3	46.6
1975	63,518	43,251	20,267	68.4	31.9
1976	69,533	49,779	19,754	72.7	28.4
Eggs:					
1966	16,422	839	15,583	22.7	94.9
1975	18,897	1,497	17,400	20.4	92.1
1976	19,596	1,396	18,200	20.5	92.9

¹ Eggs in 1,000 dozens; other commodities in 1,000 pounds.

² Eggs in dozens; other commodities in pounds. Based on estimated de facto population (see table 3).

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 299.—LAND USE PRODUCTIVITY RATINGS FOR MAJOR ISLANDS: 1968

Island and land use	Agricultural productivity rating (acres)					
	Total ¹	A (very good)	B (good)	C (moderate)	D (poor)	E (very poor)
Six islands	4,050,176	68,037	128,833	312,558	783,817	2,668,515
Island:						
Kauai	354,112	10,038	30,276	28,458	30,525	249,276
Oahu	388,928	24,584	32,286	21,986	19,728	228,218
Molokai	167,104	702	—	4,519	40,405	120,309
Lanai	89,280	—	—	4,849	20,219	63,777
Maui	466,432	32,713	20,067	38,467	99,806	268,726
Hawaii	2,584,320	—	46,204	214,279	573,134	1,738,209
Land use:						
Pineapple	69,276	—	16,204	22,131	29,038	1,903
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					
Water	8,063					
Urban: military	17,658					
Urban: civilian	61,233					

¹ Includes quarry, water, and urban, which were not rated for productivity.

Source: Arthur Y. Ching, and Tamotsu Sahara, *Land Use and Productivity Rating, State of Hawaii, 1968*, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21.

Section 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 938,000 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 1976. Primary forest products harvested in 1969 (the most recent year available) had a value of \$331,000. Sixty-four forest and brushland fires burned 6,881 acres in 1976. According to a 1974 compilation, the tallest tree in the State is a 203-foot eucalyptus saligna.

The commercial fish catch in fiscal 1976 was 11.9 million pounds and had a value of \$7.5 million. *Aku* (Skipjack) accounted for 39 percent of the total value. Other important species were *ahi*, *akule*, *opelu*, and *opakapaka*. Commercial fishermen numbered 1,992; they operated 1,163 fishing vessels, serving 28 fishery wholesaling and processing establishments.

The value of mineral production reached \$42.6 million in 1976, 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 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: 1976*, Sections 24, 25, and 26.

**Table 300.—FOREST RESERVE, TREES PLANTED, AND FOREST FIRES:
1966 TO 1976**

Year	Forest reserve ¹ (1,000 acres)	Acres planted in trees ²	Forest and brushland fires ³	
			Number	Acres burned
1966	1,196	2,553	37	2,120
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

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.

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

**Table 301.—AREA OF FOREST LAND, 1970, AND PLANTED FOREST, 1976, BY ISLAND
(In acres)**

Island	Forest land, 1970		Area of planted forest, to 1976 ³
	Total ¹	Commercial ²	
State total	1,986,400	938,300	49,289
Niihau	31,100	—	—
Kauai	219,900	145,300	5,280
Oahu	205,300	124,400	7,198
Molokai	78,100	33,500	2,847
Lanai	43,900	4,500	512
Kahoolawe	15,800	—	—
Maui	239,800	63,400	10,670
Hawaii	1,152,500	567,200	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).

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 302.—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 303.—LARGEST REPORTED TREES OF SPECIFIED NATIVE AND EXOTIC SPECIES: 1974

Species	Circum. at 4½ ft. (ft., in.)	Height (feet)	Spread (feet)	Location
NATIVE				
Acacia koa (koa) ¹	37-4	140	128	Keauhou, Ka'u
Aleurites moluccana (kukui)	10-7	67	59	Pahala, Ka'u
Calophyllum inophyllum (kamani)	18-6	59	81	Malama-ki, Puna
Metrosideros collina ('ohi'a-lehua)	17-10	84	78	Waipunalei, Hilo
Pandanus tectorius (hala)	4-6	35	40	Keaau, Hilo
Santalum pilgeri ('ili'-ahi, or sandalwood)	7-8	65	48	Honomolino, S. Kona
Sapindus saponaria (wingleaf soapberry)	10-1	106	84	Hawaii Vol. Nat. Park
Sophora chrysophylla (mamani)	12-2	39	42	Mauna Kea For. Res.
EXOTIC				
Araucaria hetrophylla (Norfolk I. pine) .	16-6	140	75	Lanai City, Lanai
Carica papaya (papaya)	4-10	60	12	Kailua, N. Kona
Cassia grandis (pinkshower)	10-11	55	40	Reed's Island, Hilo
Casuarina cunninghamiana (river-oak iron wood)	6-9	80	42	Kohala Forest Res.
Cocos nucifera (coconut)	4-8	94	28	Arboretum, Hilo
Delonix regia (royal poinciana)	13-6	48	62	Maunawili, Koolaupoko
Eucalyptus deanei	11-0	157	60	Honaunau For. Res.
Eucalyptus saligna	12-11	203	70	Kailua, N. Kona
Ficus benghalensis (Indian banyan)	44-2	80	231	Lahaina
Ficus retusa (Chinese banyan)	90-1	104	195	Keaau, Puna
Macadamia tetraphylla	2-9	50	36	Kainaliu, N. Kona
Mangifera indica (mango)	24-8	71	70	Rainbow Falls, Hilo
Plumeria rubra (frangipani)	4-10	35	38	Arboretum, Hilo
Prosopis pallida (kiawe)	13-5	91	81	Puako, S. Kohala
Roystonea regia (royalpalm)	7-0	70	30	Honokea, Hawaii

¹ Circumference measured above bulge.

Source: L.W. Bryan, "Champion Trees of Hawaii," *American Forests*, May 1974.

Table 304.—FISHERY OPERATING UNITS AND LANDINGS: 1958 TO 1975

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		28	10,991	6,029
1975	2,197	...	...	109	...	1,278		28	9,208	6,312

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 through 1972 include all fishery wholesaling and processing establishments in the State. Data for later years include only processing plants. 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, 1968-1973), and records.

Table 305.—COMMERCIAL FISHING: 1966 TO 1976

Years ended June 30	Fishing boats	Fisher- men	Commercial fish landings	
			Pounds	Value (dollars)
1966	365	715	15,987,978	3,319,917
1967	397	801	12,354,658	3,147,566
1968	387	760	12,829,326	3,253,622
1969	509	1,028	11,096,116	3,378,553
1970	670	1,264	9,786,726	3,584,936
1971	738	1,373	15,176,525	4,633,877
1972	(NA)	1,544	15,577,302	5,536,385
1973	(NA)	1,857	14,029,491	5,676,780
1974	(NA)	2,051	13,997,435	6,234,933
1975	(NA)	1,931	10,801,380	6,242,572
1976	(NA)	2,183	11,891,275	7,503,964

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, *Commercial Fish Landings* (semi-annual and annual report), and records.

**Table 306.—COMMERCIAL FISH LANDINGS, BY SPECIES AND ISLAND:
YEAR ENDED JUNE 30, 1976**

Island and species	Pounds caught	Value (dollars)
Total landings	11,891,275	7,503,964
ISLAND		
Hawaii	2,361,850	1,754,979
Maui	750,414	277,209
Lanai	6,990	3,178
Molokai	35,761	27,175
Oahu	8,388,893	5,255,543
Kauai	347,367	185,880
SPECIES ¹		
Sea catch, total ²	11,871,076	7,486,272
Aku (Skipjack)	6,891,039	2,911,061
Ahi (Yellowfin)	1,723,128	1,463,376
Akule	746,857	442,211
Ahi (Bigeye)	425,537	845,188
Opelu	291,337	231,236
Striped Marlin	230,412	113,243
Opakapaka	147,505	165,195
Ono	132,105	90,448
Mahimahi	119,332	145,010
Ahipalaha (Albacore)	104,942	93,311
Ulua	93,771	74,542
Ulaula Koa (Onaga)	80,543	162,219
Pacific Blue Marlin	73,582	22,108
Uku	69,832	68,321
Kawakawa	66,669	18,215
Limu	62,211	36,873
Hapuupuu	57,478	66,920
Kahala	40,434	21,822
Weke	37,086	21,673
Ulaula (Ehu)	34,310	58,411
Crab (Kona)	26,577	55,900
Pond catch, total	20,199	17,692

¹ Shown separately for all species over 35,000 pounds or \$50,000.

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, 1975 through June, 1976* (October 1976).

Table 307.—COMMERCIAL LIMU HARVEST: 1970 TO 1976

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 308.—MINERAL OPERATIONS: 1963 TO 1972

Kind of operation and year	Establishments		All employees		Production, development, 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 309.—MINERAL PRODUCTION: 1970 TO 1976

(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	501	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976 ²	339	6,965	42,630	15,919	22,807	3,904

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).

CONSTRUCTION AND HOUSING

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

There were 22,785 building permits issued in 1976, with an estimated value of \$562 million. The 1976 total included \$259 million for private residential construction and \$196 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 reached an all-time peak of \$2.1 billion in 1974 but fell to \$1.3 billion in 1975 and \$915 million in 1976. Mortgage loans outstanding amounted to \$3.6 billion. The June 1977 construction cost index for Honolulu was 217.0 for single-family residences and 222.1 for high-rise buildings, with the 1967 average equal to 100. By the end of 1976, 2,768 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 274,000 in 1977. Owner occupied units numbered 56,000 in 1960 and 122,000 in 1976; the latter total included 88,000 on land owned in fee and 34,000 on leased land. Military and public housing accounted for 24,000 units as of 1977. Housing was in short supply throughout most of the past decade: on Oahu, the 1976 vacancy rate was only 3.0 percent, although 20 percent of all units turned over at least once during the year. The average selling price of single family homes on Oahu in the last half of 1976, based on Multiple Listing Service data, was \$85,600. Median monthly rent for the State rose from \$64 in 1960 to \$120 in 1970 and \$172 in 1974. 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, an annual report on *FHA Homes, Data for States and Selected Areas*, 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 27 of *Statistical Abstract of the United States: 1976*.

Table 310. — NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTY: 1966 TO 1976

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
1966	19,700	15,210	2,419	339	1,732	294,172	255,176	17,965	5,612	15,419
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	739,349	495,871	72,575	53,205	117,698
1976	22,785	15,937	3,535	986	2,327	562,358	411,497	58,137	17,929	74,795

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 311. — VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1970 TO 1976

[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
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

Source: First Hawaiian Bank, as revised from local construction reports submitted to F. W. Dodge Division, McGraw-Hill Information Systems Company.

Table 312. — PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMIT, BY COUNTY: 1970 TO 1976

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
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
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
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

¹Hawaii and Maui Counties estimated.

Source: Compiled from County building departments by Dept. of Planning and Economic Development.

Table 313. — 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 314. — MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY COUNTIES: JULY 1-DEC. 31, 1976

County and type of unit	Units listed	Units sold		Selling price	
		Number	Percent	Amount (\$1,000)	Per unit (\$1,000)
State total	7,082	2,820	39.8	191,904	68.0
Single-family residential	2,642	1,435	54.3	118,527	82.6
1 and 2 bedrooms	260	106	40.8	9,481	89.4
3 bedrooms	1,581	891	56.4	66,764	74.9
4 or more bedrooms	801	438	54.7	42,282	96.5
Condominiums	2,611	974	37.3	59,580	61.2
Income, vacant, or co-op.	1,829	411	22.5	13,797	33.6
City & County of Honolulu	4,562	2,112	46.3	160,962	76.2
Single-family residential	2,088	1,235	59.1	105,731	85.6
1 and 2 bedrooms	162	80	49.4	7,816	97.7
3 bedrooms	1,243	760	61.1	59,129	77.8
4 or more bedrooms	683	395	57.8	38,784	98.2
Condominium	2,186	814	37.2	48,696	59.8
Income, vacant or co-op.	288	63	21.9	6,535	103.7
Hawaii County	1,625	394	24.2	10,013	25.4
Single-family residential	343	123	35.9	6,445	52.4
1 and 2 bedrooms	56	15	26.8	528	35.2
3 bedrooms	216	83	38.4	4,298	51.8
4 or more bedrooms	71	25	35.2	1,618	64.7
Condominium	45	6	13.3	191	31.8
Income, vacant, or co-op.	1,237	265	21.4	3,377	12.7
Kauai County	160	38	23.8	2,434	64.0
Single-family residential	39	15	38.5	992	66.1
1 and 2 bedrooms	10	2	20.0	144	72.0
3 bedrooms	20	12	60.0	757	63.1
4 or more bedrooms	9	1	11.1	92	92.0
Condominium	35	6	8.6	300	50.0
Income, vacant, or co-op.	86	17	19.8	1,141	13.3
Maui County	711	310	43.6	20,670	66.7
Single-family residential	168	77	45.8	6,350	82.5
1 and 2 bedrooms	31	11	35.5	1,137	103.4
3 bedrooms	100	48	48.0	3,334	69.4
4 or more bedrooms	37	18	48.6	1,879	104.4
Condominium	344	153	44.5	10,653	69.6
Income, vacant, or co-op.	199	80	40.2	3,666	45.8

Source: Data Communication Incorporated, *State of Hawaii Multiple Listing Service, Statistical Review* (semi-annual).

Table 315. — GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1966 TO 1976

(In thousands of dollars)

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 316. — HONOLULU CONSTRUCTION COST INDEXES: 1965 TO 1977

(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, June	217.0	196.0	243.5	222.1	189.0	250.8

¹Annual average unless otherwise specified.

²Wages and benefits.

Source: First Hawaiian Bank, records.

Table 317. — 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 318. — NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1966 TO 1976

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) ¹
1966	12,799	133,301,000
1967	11,643	218,966,000
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

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 319. — REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1970 TO 1976

(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	(NA)	827,689	1,841,239	2,219	284,856	(NA)

NA Not available.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division and Insurance Division.

Table 320. — 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 321. — 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 322. — 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 323. — TENURE AND CONTROL OF HOUSING: 1967 TO 1977

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
1967	199,016	59,403	14,988	104,083	14,958	5,584
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	273,831	89,980	34,549	125,065	17,493	6,744
COUNTIES: 1976						
Honolulu	211,819	60,864	32,285	96,316	17,120	5,234
Hawaii	24,522	12,906	833	10,141	23	619
Kauai	10,780	4,941	116	5,441	62	220
Maui	21,266	9,573	496	10,728	20	449
COUNTIES: 1977						
Honolulu	214,956	61,693	33,007	97,534	17,387	5,335
Hawaii	25,323	13,311	860	10,385	24	743
Kauai	11,082	5,063	139	5,582	62	236
Maui	22,470	9,913	543	11,564	20	430

¹As of April 1.

²As 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 1967, 1968, and 1977 refer to January 1; data for 1969-1976, to July 1.

³Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

⁴Calculated 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. 35-37 (July 1975 - July 1977); Hawaii State Dept. of Taxation, *Real Property Home Exemptions for the Fiscal Year 1977-78* (table).

Table 324. — POSTAL VACANCY SURVEYS OF OAHU: 1965 TO 1976

Survey date	All possible deliveries	Vacant units				Under construction
		Used and new		Used	New	
		Number	Percent			
1965: Sept. 14-30	130,234	3,106	2.4	2,044	1,062	4,902
1967: Feb. 27-Mar. 2	145,032	2,713	1.9	1,915	798	3,631
1969: Feb. 12-16	156,175	1,812	1.2	1,188	624	5,873
1970: Feb. 9-18	162,835	2,715	1.7	1,700	1,015	6,704
1971: Apr. 23-May 4	175,359	3,956	2.3	2,038	1,918	3,727
1972: Feb. 24-28	192,848	3,289	1.7	1,490	1,799	6,361
1973: Feb. 15-22	189,209	2,805	1.5	1,163	1,642	9,217
1974: Mar. 12-14	200,924	4,013	2.0	1,862	2,151	5,313
1975: Feb. 11-26	207,812	4,765	2.3	2,367	2,398	7,438
1976: Feb. 4-18	197,899	5,930	3.0	2,698	3,232	5,474

Source: U.S. Department of Housing and Urban Development, Federal Housing Administration, releases.

Table 325. — POSTAL VACANCY SURVEYS OF THE NEIGHBOR ISLANDS: 1967 TO 1976

Place and date	All possible deliveries	Vacant units				Under construction
		Used and new		Used	New	
		Number	Percent			
Hilo:						
1967: Feb. 27-Mar. 1	7,937	195	2.5	138	57	98
1970: Feb. 12	7,303	51	0.7	31	20	131
1971: May 11	7,957	121	1.5	73	48	294
1972: Feb. 28	8,174	139	1.7	50	89	500
1973: Feb. 22	9,055	296	3.3	130	166	475
1974: Mar. 18	9,812	355	3.6	160	195	263
1975: Feb. 13	11,323	362	3.2	235	127	79
1976: Feb. 18	10,317	166	1.6	131	35	155
Kauai:¹						
1967: Feb. 27-Mar. 1	1,896	64	3.4	37	27	48
1969: June 18-24	2,518	24	1.0	22	2	104
1970: Feb. 10	2,263	42	1.9	33	9	44
1971: July 31	2,212	12	0.5	6	6	54
1973: Feb. 20-21	2,722	13	0.5	12	1	56
1974: Apr. 8	2,849	8	0.3	3	5	95
1975: Mar. 12-25	3,039	23	0.8	5	18	143
1976: Feb. 6-20	3,314	20	0.6	12	8	66
Maui:						
1967: Feb. 27-Mar. 1 ²	4,774	39	0.8	27	12	80
1970: Feb. 10-12 ³	6,531	36	0.6	29	7	325
1971: July 31 ²	6,225	34	0.5	30	4	126
1973: Feb. 27 ³	9,304	79	0.8	67	12	83
1974: Mar. 14-20 ³	8,353	126	1.5	88	38	881
1975: Feb. 11-21 ²	6,973	172	2.5	21	151	277
1976: Feb. 3-4 ²	6,789	180	2.7	43	137	62

¹Kapaa and Lihue only.

²Kahului and Wailuku only.

³Kahului, Lahaina, and Wailuku only.

Source: U.S. Department of Housing and Urban Development, Federal Housing Administration, releases.

Table 326. — 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 327. — 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 328. — 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).

RESEARCH AND STATISTICS

Table 329. — HAWAII HOUSING AUTHORITY OPERATIONS: 1970 TO 1976

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	93.64	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

¹As of June 30.

²Year ended June 30.

Source: Hawaii Housing Authority, records.

Table 330. — TALLEST STRUCTURES ON OAHU: JUNE 1977

Category and name of structure	Address	Year built	Height	
			Stories	Feet
Apartment houses:				
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
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

¹VLF Antenna of the Radio Transmitting Facility, Lualualei, of the Naval Communications Station, Honolulu. Two towers, each 1,503 feet, completed in August 1972.

Source: Honolulu Department of Housing and Community Development, *Housing and Community Development Research*, No. 37, July 1977.

Table 331. — CHANGES IN THE NUMBER OF ELEVATORS: 1965 TO 1976

Year	Added	Removed	In operation, December 31
1965 .....	...	...	912
1966	120	13	1,019
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

* Reflects deletion of 40 workmen's hoists (not used as elevators) from coverage.
Source follows next table.

Table 332. — ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1971 AND 1976

Facility	State totals		Geographic location: 1976						
	1971	1976	Oahu	Hawaii Co.		Maui Co.			Kauai Co.
				Hilo	Kona	Maui	Molokai	Lanai	
Total ¹	1,796	2,768	2,393	94	55	184	1	1	40
Elevators	1,508	2,359	2,027	72	53	171	—	1	35
Under 9 stories	845	1,286	1,005	63	53	137	—	1	27
Hydro	210	385	287	23	13	53	—	1	8
Roped	635	901	718	40	40	84	—	—	19
9 to 18 stories	472	716	670	9	—	29	—	—	8
19 to 28 stories	139	238	233	—	—	5	—	—	—
29 to 38 stories	52	97	97	—	—	—	—	—	—
39 stories or more	—	22	22	—	—	—	—	—	—
Escalators and moving walks	118	172	166	6	—	—	—	—	—
Inclined lifts	—	2	2	—	—	—	—	—	—
Man lifts	11	11	11	—	—	—	—	—	—
Dumbwaiters	157	222	186	16	2	12	1	—	5
Workmen's hoists ¹	44	5	5	—	—	—	—	—	—
Other facilities	2	2	1	—	—	1	—	—	—
Buildings with facilities ¹	(NA)	1,299	1,129	51	21	77	1	1	19

NA Not available.

¹Workmen's hoists not included in totals.

Source: Hawaii State Department of Labor and Industrial Relations.

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 \$908 million in 1974. About 46 percent of all manufacturing activity in the State was on Oahu in 1974. Food processing—mostly sugar and pineapple—accounted for more than three-fourths 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 17 sugar mills in Hawaii in mid-1976. The production of canned pineapple fruit and juices in 1975-1976 dropped to 18.3 million actual cases, well below the levels of earlier years, but fresh pineapple sales remained high. Sugar production in 1976 amounted to 1.05 million short tons, about the same level as in other recent years. The value of production (including raw sugar and commercial molasses) was \$252 million, well below the record set in 1974 but still the third best year in Island history.

Sources for data on this subject include the United States Census of Manufactures, most recently taken as of 1972, the Annual Survey of Manufactures, and publications of the Hawaii State Department of 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 28 of the *Statistical Abstract of the United States: 1976*.

Table 333. — MANUFACTURING: 1964 TO 1974

Year ¹	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)
	Total	With 20 employees or more	Number	Payroll (million dollars)	Number	Man-hours (millions)	Wages (million dollars)				
1964....	(NA)	(NA)	25,000	113.7	18,300	33.1	69.4	268.8	372.0	638.4	17.7
1965....	(NA)	(NA)	25,400	118.1	18,700	34.0	73.5	292.1	365.9	655.5	17.2
1966....	(NA)	(NA)	24,800	123.8	18,700	34.3	78.2	310.8	371.5	680.9	24.1
1967....	697	215	25,400	139.6	19,000	35.9	86.9	326.2	399.6	723.4	26.0
1968....	(NA)	(NA)	23,200	134.0	17,400	32.2	83.3	353.9	381.9	737.1	15.6
1969....	(NA)	(NA)	23,900	145.3	17,900	33.2	90.8	351.0	408.3	758.1	19.8
1970....	(NA)	(NA)	24,800	168.7	18,100	35.3	102.8	408.6	451.1	856.9	40.5
1971....	(NA)	(NA)	24,400	176.6	17,500	34.3	105.7	435.0	465.9	899.9	28.0
1972....	773	238	24,800	191.1	17,700	33.1	113.7	410.0	548.3	955.6	46.7
1973....	(NA)	(NA)	24,300	195.5	17,500	31.9	117.9	496.1	592.9	1,086.4	36.6
1974....	(NA)	(NA)	21,400	202.0	15,000	28.0	113.5	908.0	947.8	1,831.7	50.2

NA Not available.

¹Data for 1967 and 1972 are from the Census of Manufactures for those years. Data for other years are from the Annual Survey of Manufactures and are subject to considerable sampling variation. Because of changes in definitions over time, data are not entirely comparable from year to year; see sources for discussion.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1967*, MC67(3)-12, table 2; *Census of Manufactures, 1972*, MC72(3)-12, table 2; *Annual Survey of Manufactures, 1973*, M73(AS)-6, p. 205; and records.

Table 334. — 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											
COUNTIES											
Honolulu.....	612	193	19.6	148.9	13.9	25.4	85.9	321.2	412.4	731.8	33.1
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 335.

Table 335. — 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 334 and 335: U.S. Bureau of the Census, *Census of Manufactures, 1972, Hawaii*, MC72(3)-12.

Table 336. — MANUFACTURING, BY INDUSTRY GROUP AND ISLAND: 1973

Island and industry group	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
State total	24.3	195.5	17.5	31.9	117.9	496.1	592.9	1,086.4	36.6	116.4
Island:										
Oahu	19.0	153.3	13.4	24.2	89.1	370.5	456.1	822.2	17.1	92.6
Other islands	5.3	42.2	4.1	7.7	28.8	125.6	136.8	264.2	19.5	23.8
Industry group: ¹										
Food and kindred products ²	10.7	84.4	8.2	15.0	54.3	260.2	316.3	575.8	26.2	44.4
Canned fruits and vegetables ³	4.0	23.3	3.6	5.9	17.7	78.4	71.9	150.1	(D)	22.2
Raw cane sugar	3.2	29.8	2.3	4.8	20.1	102.8	107.2	210.0	20.3	6.2
Lumber and wood products .....	.8	6.9	.6	1.2	5.2	10.0	11.2	21.6	.1	4.5
Furniture and fixtures .....	.8	5.5	.5	.9	2.5	8.7	11.4	19.3	.0	4.8
Printing and publishing	2.5	24.9	1.2	2.2	12.0	55.8	17.8	73.7	2.8	3.6
Stone, clay, glass products	1.2	13.4	.8	1.7	8.7	35.7	27.8	63.1	3.1	6.0
Machinery, exc. electrical .....	.4	3.8	.3	.5	2.9	4.1	3.7	9.0	.1	1.2
Transportation equipment .....	.3	3.5	.2	.4	2.8	6.2	3.9	10.0	.0	2.4

(D) Withheld to avoid disclosing figures for individual companies.

¹Reported separately only for major groups, and hence does not add to indicated State total.

²Total value of shipments for this group includes extensive duplication arising from shipments between establishments in the same industry classification.

³Establishments 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: 1973*, M73(AS)-6, pp. 208 and 218.

Table 337. — MANUFACTURING, BY INDUSTRY GROUP AND ISLAND: 1974

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	21.4	202.0	15.0	28.0	113.5	908.0	947.8	1,831.7	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	4.9	46.0	3.6	7.1	29.9	487.4	184.5	670.8	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	19.4	2.7	4.6	15.1	87.2	50.9	138.1	0.5	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
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

¹Reported separately only for major groups, and hence does not add to indicate State total.
Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1974* (forthcoming).

**Table 338. — PINEAPPLE CANNERIES AND SUGAR MILLS:
1966 TO 1976**

Year	Pineapple canneries ¹	Sugar ²	
		Companies	Mills
1966.....	6	25	27
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
ISLANDS: 1976			
Hawaii	—	5	7
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 339. — GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING,
AND MANUFACTURING: 1966 TO 1976**
(In thousands of dollars)

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

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.

²Excludes sugar processing and pineapple canning.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 340. — HAWAIIAN PINEAPPLE PRODUCTION: 1965 TO 1976
(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
1965-1966	17,833	12,595	11,881	9,200	1,019	932
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	8,380	6,173	4,800	471	430

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 341. — EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY:
1970 TO 1975**

(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

Source: Hawaii Employers Council, unpublished estimates.

Table 342. — SUGAR PRODUCTION: 1966 TO 1976

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)
	Total area	Harvested area	Total	Per acre	Converted to 96° raw value	Equivalent refined			
1966.....	237,499	111,005	10,969,925	98.82	1,234,121	1,153,409	6.99	19.76	10.50
1967.....	239,813	111,837	11,045,949	98.74	1,191,042	1,113,148	7.28	21.35	10.64
1968.....	242,476	113,525	11,279,920	99.36	1,232,182	1,151,597	7.52	21.62	9.98
1969.....	242,216	113,232	10,839,272	95.73	1,182,414	1,105,060	7.75	23.26	9.44
1970.....	238,997	113,816	10,457,377	91.88	1,162,071	1,086,000	8.08	24.24	9.50
1971.....	232,278	115,810	10,685,019	92.26	1,229,976	1,149,510	8.52	26.08	9.04
1972.....	229,611	108,456	9,929,068	91.55	1,118,883	1,045,708	9.10	29.09	9.22
1973.....	226,580	108,189	9,645,452	89.15	1,128,529	1,054,723	10.30	30.86	9.20
1974.....	224,227	95,826	9,082,684	94.76	1,040,742	972,677	29.43	34.41	9.32
1975.....	221,426	105,125	9,485,299	90.23	1,107,199	1,034,788	22.49	37.34	(NA)
1976.....	(NA)	(NA)	(NA)	(NA)	1,050,457	(NA)	13.32	(NA)	(NA)

NA Not available.

¹Cash wage only, excluding the value of employees benefits.

Source: Hawaiian Sugar Planters' Association, *HSPA Manual 1976*, pp. 8-11, and records.

Table 343. — VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1966 TO 1976

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	
1966.....	124.5	3.2	170,957	8,558	10,831
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.....	105.5	14.5	240,500	11,500	—

¹Value of canned fruit and juices and byproducts shipped out-of-state and sold within State, as estimated by Bank of Hawaii.

²Value FAS shipping point for outshipments, delivered wholesalers local sales.

³Beginning 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 24 department stores on Oahu reported sales of \$350 million in 1976, double their 1970 volume. The wholesale value of liquor and tobacco sold in 1976 exceeded \$101 million. In addition to civilian retail outlets, there are 58 commissaries, exchanges, and clubs maintained by the armed forces; these facilities had sales of \$223 million in 1976.

Growth has been especially rapid for hotels. The number of units in the State rose from 5,500 in 1958 to 18,200 in 1967 and 45,000 in February 1977. There were 335 hotels, motels and apartment-hotels in the State on the latter date, including 206 on the Neighbor Islands. Occupancy rates averaged 82.6 percent in Waikiki and 68.4 percent on the Neighbor Islands during 1976. The average daily room rate was \$29.75 in 1975. The hotel payroll in 1975 totaled \$129 million, compared with \$23 million ten years earlier.

The major source for these data is the United States Census of Business, most recently conducted in 1972. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. 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: 1976*, Section 29, presents similar data for other states and the nation as a whole.

Table 344. — RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1958 TO 1972
(Coverage varies somewhat 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)
1958	4,760	521,877	793	618,155	3,070	101,142
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	294,828
1972	6,392	1,864,985	1,336	1,538,429	6,348	683,201
ESTABLISHMENTS WITH PAYROLL						
1963	3,354	725,977	974	735,205	1,837	153,272
1967	3,537	1,041,540	1,030	1,013,813	1,947	278,556
1972	4,491	1,819,883	1,336	1,538,429	3,031	648,164

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

Source: U.S. Bureau of the Census, *U.S. Census of Business: 1958*, Bulletin 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 345. — GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES:
1966 TO 1976**

(In thousands of dollars)

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

¹Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

²Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

³Wholesaling figure revised.

⁴Retailing figure revised.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 346. — 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*, PC72-A-12, and special tabulation of data by island for Maui County.

Table 347. — 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 348. — DEPARTMENT STORES, FOR OAHU:
1967 TO 1976**

Source and year	Number of department stores, end of year	Annual sales ¹ (\$1,000)
Census data:		
1967.....	15	131,843
1972.....	15	205,619
Survey data:		
1967.....	(NA)	100,795
1968.....	(NA)	117,200
1969.....	(NA)	133,057
1970.....	(NA)	172,644
1971 ²	19	223,361
1972.....	22	248,986
1973.....	22	281,790
1974.....	23	304,721
1975.....	23	328,992
1976.....	24	349,612

NA Not available.

¹Survey data for 1967-1969 are not directly comparable to survey data for later years.

²Number of stores as of February 1972.

Source: U.S. Bureau of the Census, *U.S. Census of Business: 1967*, BC67-RA13; *U.S. Census of Retail Trade: 1972*, RC72-A-12; *Current Business Reports, Monthly Retail Trade, Sales and Accounts Receivable* (monthly); and records.

Table 349. — SHOPPING CENTERS: 1970 TO 1976

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 ¹	2,054	1,467	587	8,400	6,711	1,689

¹Preliminary.

Source: Bank of Hawaii, Department of Business Research, *Hawaii '77* (July 1977), p. 30.

Table 350. — 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 351. — 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 352. — CHARACTERISTICS OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES: 1976

Type of facility and branch of service	Number of establishments, Dec. 31	Annual sales (dollars)	Civilian employees, Dec. 31
All reported facilities	58	222,986,559	3,860
Commissaries	8	67,182,895	476
Air Force ¹	1	17,426,692	121
Army ²	1	19,870,452	142
Marine Corps ³	1	6,276,062	59
Navy ⁴	5	23,609,689	154
Exchanges	17	129,341,103	1,920
Air Force and Army ⁵	11	55,437,983	1,091
Coast Guard ⁶	1	892,000	35
Marine Corps ³	1	18,010,000	338
Navy ⁷	4	55,001,120	456
Clubs	30	21,084,621	1,290
Air Force ¹	3	5,464,702	557
Army ²	16	7,904,700	387
Coast Guard ⁶	1	83,000	22
Marine Corps ³	7	3,704,162	139
Navy ⁷	3	3,928,057	185
Food service	3	5,377,940	174
Navy ⁴	3	5,377,940	174

¹15th Air Base Wing (PACAF).

²Hdq., U.S. Army Support Command, Hawaii.

³Hdq., Marine Corps Bases, Pacific, Camp H. M. Smith.

⁴Hdq. U.S. Naval Base, Pearl Harbor. Commissary data include Region Office and Midway.

⁵Hdq., Army and Air Force Exchange Service, Pacific.

⁶U.S. Coast Guard Base, Honolulu.

⁷Naval Air Station, Barbers Point, and Hdq., U.S. Naval Base, Pearl Harbor.

Source: Data supplied to DPED by agencies listed in footnotes.

Table 353. — WHOLESALE TRADE, BY TYPE OF OPERATION, KIND OF BUSINESS, AND GEOGRAPHIC AREA: 1972

Geographic area, type of operation, and kind of business	Number of establishments	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 354. — 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 355. — HOTEL UNITS, OCCUPANCY RATES, EMPLOYMENT, AND PAYROLL:
1967 TO 1977**

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	(NA)	(NA)
1977.....	44,986	27,363	17,623	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹December, 1967; November, 1968; October, 1969 to 1976; February, 1977.

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 356. — HOTELS AND RELATED FACILITIES, BY GEOGRAPHIC
AREA: 1970 TO 1977**

Geographic area	Visitor plants ¹			Units		
	Feb. 1970	Feb. 1976	Feb. 1977	Feb. 1970	Feb. 1976	Feb. 1977 ²
State total	275	314	335	26,923	42,648	44,986
Oahu	152	126	129	18,449	25,851	27,363
Waikiki ³	124	100	102	16,590	22,117	23,627
Hotels	55	64	66	13,825	20,294	21,776
Apt.-hotels	63	33	33	2,488	1,655	1,683
Other ⁴	6	3	3	277	168	168
Rest of Oahu	28	26	27	1,859	3,734	3,736
Other islands	123	188	206	8,474	16,797	17,623
Hawaii	41	52	55	3,166	6,045	5,929
Kauai	31	40	43	2,565	3,520	3,657
Maui	48	92	104	2,643	7,007	7,898
Molokai	2	3	3	89	214	128
Lanai	1	1	1	11	11	11

¹Hotels, apartment-hotels, motels, cottages, etc.

²Includes 5,085 condominium units in rental pools: 512 on Oahu, 330 on Hawaii, 590 on Kauai, 3,613 on Maui, and 40 on Molokai.

³Includes Diamond Head and Kahala.

⁴Motels, cottages, etc.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory* for months specified.

Table 357. — HOTEL UNITS, 1976 AND 1977, AND OCCUPANCY RATES, 1975 AND 1976, BY GEOGRAPHIC AREA

Geographic area	Number of units			Percent occupied ¹	
	Feb. 1976 (existing)	February 1977		1975	1976
		Existing	Planned ²		
State total	42,648	44,986	13,942	(NA)	(NA)
Oahu	25,851	27,363	5,078	(NA)	(NA)
Waikiki and Kahala ³	22,117	23,627	4,928	78.3	82.6
Ala Moana	1,681	1,676	—	}	(NA)
Central Honolulu	129	129	—		
Airport	702	702	—		
Leeward Oahu	620	618	—		
Windward Oahu	602	611	150		
Hawaii	6,045	5,929	3,857	59.9	57.6
Hilo and Honokaa	2,167	2,130	—	57.3	51.4
Volcano	38	38	—	}	74.3
Ka'u	13	21	—		
North and South Kohala	404	409	3,200		
North and South Kona	3,423	3,331	657	59.3	58.5
Maui	7,007	7,898	1,950	72.3	74.8
Wailuku and Kahului	370	428	—	78.7	79.7
Lahaina to Napili	4,631	4,938	1,197	74.9	79.0
Kihei and Maalaea	1,900	2,425	663	}	58.4
Kula, Makawao, and Paia	19	19	90		
Hana	87	88	—		
Kauai	3,520	3,657	2,615	77.2	76.8
Kapaa and Wailua	1,554	1,711	1,027	}	79.0
Lihue	712	789	—		
Poipu and Kukuiula	730	679	648	74.0	73.3
Kalaheo	20	20	—	}	55.5
Kokee	12	12	—		
Hanalei	492	446	940		
Molokai	214	128	442	(NA)	(NA)
Lanai	11	11	—	(NA)	(NA)

NA Not available.

¹Annual averages.

²Under construction or announced for future construction. Includes 1,037 to be completed in 1977, 3,535 in 1978, 1,550 in 1979, and 7,820 indefinite.

³Occupancy data limited to Waikiki and Diamond Head.

Source: Hawaii Visitors Bureau, *1975 Annual Research Report*, pp. 25-28; *Visitor Plant Inventory, February 1977*; and records.

Table 358. — OPERATIONS OF SELECTED RESORT HOTELS: 1967 TO 1975

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	(NA)	29.3

NA Not available.

Source: Harris, Kerr, Forster & Company, *Trends in the Hotel-Motel Business* (annual), and records.

Table 359. — 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 Industries, 1972, Hotels, Motels, Trailing Parks, and Camps* (SC72-S-2, December 1975), tables 1 and 2.

Table 360.—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 361. — MOTION PICTURE THEATERS: 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	5,543	...
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.

¹Based on admission charge per person, unless otherwise specified.

²For drive-in motion picture theaters, refers to cars; for other motion picture theaters, refers to seats.

³Data include all theaters, whether or not showing motion pictures.

⁴994,000 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 362. — FEATURE-LENGTH MOTION PICTURES FILMED PARTLY OR WHOLLY IN HAWAII: 1945 TO 1976

Year released	Total	Locally produced	Produced by mainland companies	Produced by foreign companies
1945 to 1949	1	—	1	—
1950 to 1954	12	1	9	2
1955 to 1959	16	—	16	—
1960 to 1964	14	—	9	5
1965 to 1969	10	—	7	3
1970 to 1974	3	—	3	—
1975	2	—	2	—
1976	1	—	1	—

Source: Hawaii State Department of Planning and Economic Development, "Here's List of Movies Filmed in the Islands," *Hawai'i*, Spring-Summer 1976, pp. 4-6 and 8, as corrected and updated.

Table 363. — NUMBER, 1941 TO 1976, AND GROSS SALES, 1970 TO 1976, OF LIQUOR LICENSEES, FOR OAHU

Year	All types ¹	Club	Manufacturer	Dispenser	Cabaret	Retail	Wholesale	Vessel
LICENSES IN EFFECT²								
1941	477	11	5	207	—	216	34	—
1945	379	12	6	152	—	185	21	—
1950	547	14	5	214	—	283	27	—
1955	600	14	5	252	6	301	20	—
1960	629	15	8	269	14	305	18	—
1965	704	14	7	313	20	330	20	—
1970	797	14	6	415	19	321	17	5
1975	966	12	5	508	41	366	19	15
1976	998	12	5	529	38	378	21	15
GROSS SALES (\$1,000)³								
1970	132,764	1,038	11,611	48,598	6,385	25,754	39,327	51
1975	210,935	1,519	4,719	78,072	13,092	47,890	65,154	490
1976	220,725	1,670	6,270	85,510	13,460	43,025	70,390	404

¹Includes agent (4 in 1941, 3 in 1945, 4 in 1950, 2 in 1955, and none thereafter).

²December 7, 1941; December 31, 1945 to 1960; June 30, 1965 and thereafter.

³Years ended June 30.

Source: *Forty-fourth Annual Report of the Liquor Commission of the City and County of Honolulu, State of Hawaii, Fiscal Year Ending June 30, 1976*, p. 8, and underlying data.

Table 364. — LIQUOR AND TOBACCO TAX BASES: 1970 TO 1976
 (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

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).

Section 24

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 \$105 million in 1966 to \$876 million in 1976. Exports to foreign countries amounted to only \$40 million in 1966, but by 1976 exceeded \$66 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 \$615 million in 1965 to \$1.8 billion in 1975, the most recent year available. Merchandise exported to the Mainland rose from \$297 million in 1965 to \$522 million in 1975.

Among the foreign nations, Hawaii's leading trading partners in 1975 were Indonesia for imports and Japan for exports. Imports from Indonesia amounted to \$208 million, or 27 percent of the total, while exports to Japan reached \$32 million, or 34 percent of all foreign exports. The Indonesian imports consisted mostly of crude oil.

Hawaii's Foreign-Trade Zone No. 9 received merchandise valued at \$12 million in 1976. 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), 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 30 of *Statistical Abstract of the United States: 1976*.

Table 365.—IMPORTS AND EXPORTS: 1964 TO 1976
(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
1964.....	652.9	567.1	85.8	324.4	283.4	41.0
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.....	1,868.4	1,563.5	304.9	454.6	381.8	72.8
1974.....	2,471.7	1,866.2	605.5	932.2	817.0	115.2
1975.....	2,531.5	1,773.9	757.6	618.1	522.4	95.7
1976.....	(NA)	(NA)	876.5	(NA)	(NA)	66.2

NA Not available.

¹Merchandise imports for consumption. 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.

²Merchandise 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, *Foreign Commerce and Navigation of the United States, 1946-1965* and *Extracts from FT990, Dollar Value of U.S. Exports and Imports Through Customs District of Hawaii, Calendar Years 1966-1974*, and records; Bank of Hawaii, *Hawaii '68* (p. 45), *Hawaii '75* (p. 45), and *Hawaii '77* (p. 45).

Table 366.—IMPORTS AND EXPORTS, BY CONTINENT AND COUNTRY, 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, which includes Honolulu and Pearl Harbor, Honolulu International Airport, Hilo, Kahului, and Nawiliwili-Port Allen. These data include all trade through the Honolulu District, and thus may include imports intended for consumption on the Mainland or exports originated on the Mainland.)

Continent and country	Exports of domestic merchandise		Imports for consumption	
	1974	1975	1974	1975
Total	113,056,122	94,044,196	581,672,420	757,603,313
North America:				
Canada	1,275,609	1,212,050	12,786,796	10,782,796
Mexico	677,500	—	65,432	76,714
Guatemala	—	—	12,776	828
El Salvador	—	158,748	—	—
Honduras	1,241	—	—	21,826
Nicaragua	—	—	1,352	—
Costa Rica	25,173	17,171	3,951	—
Panama	—	69,543	8,865	697,471
Bermuda	—	2,361	—	—
Bahamas (British)	4,100	—	6,950,939	21,000,482
Jamaica	—	—	23,832	100,800
Haiti	—	—	17,103	1,702
Dominican Republic	17,396	23,306	—	—
Trinidad and Tobago	—	—	6,876,664	3,034,941
Netherlands Antilles	20,266	8,527	1,709,916	8,880,025
South America:				
Colombia	—	—	4,874	106,372
Venezuela	365	—	3,744,018	14,869,964
Guyana	—	—	1,572	—
Peru	—	—	—	960
Bolivia	232,248	—	—	—
Chile	—	—	558	—
Brazil	—	—	118,376	158,956
Paraguay	—	—	—	12,428
Argentina	—	—	164,044	7,739
Europe:				
Iceland	2,549	—	—	954
Sweden	24,362	—	529,730	195,590
Norway	—	—	46,256	73,026
Finland	688	20,380	177,330	83,502
Denmark	—	30,406	902,331	711,361
United Kingdom	318,988	165,879	1,826,827	2,951,550
Ireland	—	—	6,968	3,601
Netherlands (Holland)	11,250	72,546	630,315	445,593
Belgium and Luxembourg	21,658	42,927	518,108	910,595
France	413,008	434,728	1,450,901	1,178,931
West Germany	587,573	1,026,466	11,928,785	13,042,342
East Germany	—	—	—	392

Table 366. — IMPORTS AND EXPORTS, BY CONTINENT AND COUNTRY, FOR THE HONOLULU CUSTOMS DISTRICT: 1974 AND 1975 (Continued)

Continent and country	Exports of domestic merchandise		Imports for consumption	
	1974	1975	1974	1975
Europe (continued):				
Austria	19,595	—	15,423	17,330
Czechoslovakia	—	—	—	251
Hungary	—	15,830	289	—
Switzerland	34,117	—	128,621	845,434
Latvia	439,090	197,056	—	—
Poland	—	—	519	44,031
U.S.S.R.	—	—	1,474	—
Spain	—	17,730	61,981	61,637
Portugal	—	—	142,377	80,267
Italy	1,588	68,832	581,561	878,934
Yugoslavia	—	—	5,670	8,387
Greece	—	—	2,105,464	5,782
Turkey	—	—	670	—
Asia:				
Lebanon	—	1,723	5,142	32,152
Iraq	—	68,461	—	—
Iran	13,518	7,248	17,181,407	2,668,419
Israel	—	—	16,515	105,566
Jordan	5,603	—	—	—
Kuwait	—	23,250	—	—
Saudi Arabia	43,411	79,250	46,037,565	17,644,822
United Arab Emirates	11,205	47,852	—	—
Yemen Arab Emirates	—	—	7,367	—
Oman	—	164,760	7,137,371	46,462,602
Bahrain	—	—	11,620,861	19,415,665
Afghanistan	832	—	1,701	1,078
India	77,861	364,435	132,913	169,683
Pakistan	600	213,365	3,085	33,345
Nepal	—	111,761	5,365	907
Bangladesh	179,479	644,131	—	—
Ceylon	—	9,425	23,737	14,416
Burma	—	66,092	12,269	78,101
Thailand	1,092,347	2,815,917	847,615	1,275,350
South Vietnam	593,828	143,333	222,234	38,603
Laos	—	2,234	593	5,258
Cambodia (Khmer Republic)	6,184	80,000	8,212	3,724
Malasia	5,399,744	2,653,094	66,112,110	32,443,827
Singapore	2,342,126	2,970,018	30,826,085	63,323,493
Indonesia	216,271	4,199,303	146,808,186	207,749,486
Philippines	2,555,012	5,293,159	5,114,444	10,655,960
Macao	—	—	236,710	474,069
Southern & Southeast Asia	—	1,200	7,759,535	70,445,298
People's Republic of China	—	2,678	748,374	669,647

Table 366. — IMPORTS AND EXPORTS, BY CONTINENT AND COUNTRY, FOR THE HONOLULU CUSTOMS DISTRICT: 1974 AND 1975 (Continued)

Continent and country	Exports of domestic merchandise		Imports for consumption	
	1974	1975	1974	1975
Asia (continued):				
Republic of Korea	1,046,165	530,459	4,008,071	1,856,578
Hong Kong	4,345,474	5,043,427	13,600,760	12,283,274
Republic of China	783,035	729,248	17,409,903	33,465,959
Japan	61,123,985	31,801,277	107,863,318	110,200,396
Australia and Oceania:				
Australia	21,365,729	14,372,906	8,008,481	10,035,260
Papua New Guinea	11,634	1,336,501	6,450	1,640
New Zealand	2,763,556	5,271,981	9,277,787	7,786,650
Western Samoa	21,028	61,616	710	3,815
British Pacific Islands	146,878	60,759	5,322,250	1,352,409
French Pacific Islands	2,042,698	2,563,592	45,877	1,027,853
Trust Territory (Pac. Is.)	2,167,460	7,447,403	1,588,662	216,859
Other Pacific Islands	570,621	1,243,696	1,990,773	443,261
Africa:				
Morocco	—	—	24,203	36,149
Algeria	—	—	66,400	—
Nigeria	—	5,138	17,484,084	10,150,594
Angola	—	—	—	10,135,761
Liberia	—	28,500	—	16,863
Burundi	—	—	470,611	3,455,016
Kenya	—	—	1,712	1,053
Tanzania	—	—	4,445	—
Malagasy Republic	—	—	40,759	20,970
Republic of So. Africa	1,474	518	35,100	107,988

Source: Data from U.S. Bureau of the Census, cited in the Hawaii International Services Agency, *Hawaii's Foreign Trade, 1974-1975* (in preparation).

**Table 367.—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: Data from U.S. Bureau of the Census, cited in the Hawaii International Services Agency, *Hawaii's Foreign Trade, 1974-1975* (in preparation).

**Table 368.—OPERATIONS OF FOREIGN-TRADE ZONE NO. 9, HONOLULU:
1974 TO 1976**
(Years ended June 30)

Subject	1974	1975	1976
Area of primary zone in square feet, June 30	235,766	235,766	235,766
Firms using zone during year	139	148	179
Continuously	21	82	86
Merchandise received: Value (\$1,000)	12,598	15,553	12,348
Weight (short tons)	6,001	7,092	4,608
Merchandise forwarded: Value (\$1,000)	12,796	14,275	12,048
Weight (short tons)	6,112	6,288	5,251
Occupancy (annual average, percent)	73	78	78
Total income (\$1,000)	411	536	575
Total expenses (\$1,000)	381	489	523
Net income (\$1,000)	30	48	52
Assets (\$1,000)	1,345	1,474	1,552

Source: *Annual Report, Foreign-Trade Zone No. 9, Honolulu, Hawaii* for 1974, 1975 and 1976.

Table 369.—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 370.—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 371.—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 372.—BALANCE OF PAYMENTS, EXCLUDING CAPITAL MOVEMENTS: 1970 TO 1975
(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.....	3,217	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

Source: Bank of Hawaii, *Hawaii '77, 27th Annual Economic Review* (July 1977), p. 45.

BIBLIOGRAPHY

This volume is the eleventh 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, 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.

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 1977 edition, with statistics through 1976; 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, 1977 Edition, is the fifth 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 '77*, published by the Bank of Hawaii in July 1977, and *Hawaii in 1976*, issued by the First Hawaiian Bank as a supplement to its monthly *Economic Indicators* for April 1977.

The County of Hawaii, Department of Research and Development, has published its own *Data Book 1976*, presenting 121 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.

Information on the historical development of statistics in the Islands is given in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, scheduled for publication by the University Press of Hawaii in late 1977 or early 1978, will contain more than 650 pages of narrative and tables covering periods from 1778 to the present.

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 97th, dated 1976; copies are available for \$10.50 (cloth) or \$8.00 (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 1972, is sold by the same agency for \$18.65. Both volumes are on the shelves of most libraries.

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