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**MAUI  
COUNTY  
DATA BOOK  
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COUNTY OF MAUI  
OFFICE OF ECONOMIC DEVELOPMENT

HAWAII SMALL BUSINESS DEVELOPMENT CENTER NETWORK  
BUSINESS RESEARCH LIBRARY

A Partnership Program between the University of Hawaii at Hilo  
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Copies of this book are available from the Business Research Library, Suite 136, 590 Lipoa Parkway, Kihei, Maui, Hawaii 96753. The price per copy is \$10.00 when picked up in person, and \$15.00 by first-class mail. An online version is available in Adobe Acrobat format (only) at <http://www.brl-sbdc.org/mcdb.htm>. The BRL's **Small BizWeek** newsletter is also available at the site. For further information, call (808) 875-2400, or (800) 509-3100 (in-state only).

The **State of Hawaii Data Book** is available on-line through the State of Hawaii Department of Business, Economic Development and Tourism. The tables are available on the World Wide Web from <http://www.hawaii.gov/dbedt/stats.html>.

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## ABOUT THIS BOOK

We hope you find the 2000 edition of the **Maui County Data Book** useful and valuable. This publication provides economic, demographic and other statistical information about the County of Maui available in June 2000.

This eighth edition of the **Data Book** is produced by the Hawai'i SBDC Network Business Research Library (BRL) under a grant from the County of Maui, administered by the Maui County Office of Economic Development. In addition to the print version, the **Data Book** is also available on diskette and online via the Internet <<http://www.hawaii-sbdc.org/brl-main.htm>>. A CD-ROM version is anticipated. The Internet version of the **Data Book** is updated as later statistics become available. In addition to compiling and updating the **Data Book**, the Business Research Library provides a wide range of business research services to individuals and businesses residing or operating in Hawai'i or investigating business opportunities in Hawai'i. The **Data Book** and its source material are some of the key elements in the BRL collection which includes a wide range of print and electronic resources selected to inform business decision-making.

Several other publications complement the **Maui County Data Book** for individuals needing more data about Hawai'i. The State of Hawai'i publishes The **State of Hawaii Data Book** <<http://www.hawaii.gov/dbedt/db98/index.html>> annually through the Hawaii State Department of Business, Economic Development and Tourism. The Hawaii County Department of Research and Development publishes statistical data books annually. The Hawaii State Office of Hawaiian Affairs publishes the **Native Hawaiian Data Book** <<http://oha.org/databook/index98.html>>.

Numerous agencies of the federal, state and county governments, as well as many private organizations in Maui County, in Hawai'i and on the mainland assisted the BRL in preparing the Maui County Data Book. To them we extend our deepest appreciation for their support and cooperation.

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## Section 1

### GENERAL STATISTICS

“CDP” means Census Designated Place, a “densely settled concentration of population that is identifiable by name.” “CCD” means Census Community Division, which is based on a “well-known local name that identifies its location.” CCDs may contain one or more CDPs.

This section covers the statistics on population, population distribution, income, cost of living and other general aspects of Maui County.

The totals for population have been broken down by factors such as residence, population, de facto population (the number of people actually in the county), district, density, age, race and sex.

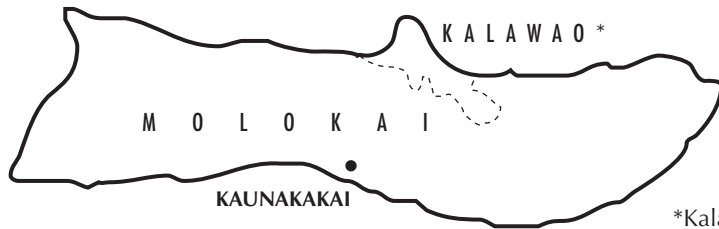
Population statistics are based on the April 1, 1990 census figures modified by provisional estimates supplied by the Federal-State Cooperative Program for Population Estimates.

Several of the tables address the cost of living and personal income which have been shown to be of great interest of users of this book. The primary measuring tool for cost of living increases is the consumer price index for urban dwellers (CPI-U). The Honolulu consumer price index has been compiled by the U.S. Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban households. Prices are expressed as a percent of the average levels reported in 1982–1984, the base date. Statistics for Maui County are not available, therefore the index for the City and County of Honolulu is provided.

The sources for this data are the U.S. Bureau of the Census, estimates developed by the Hawaii State Department of Business, Economic Development and Tourism, U.S. Department of Commerce, Hawaii State Department of Health, and the U.S. Bureau of Labor Statistics CPI Reports.

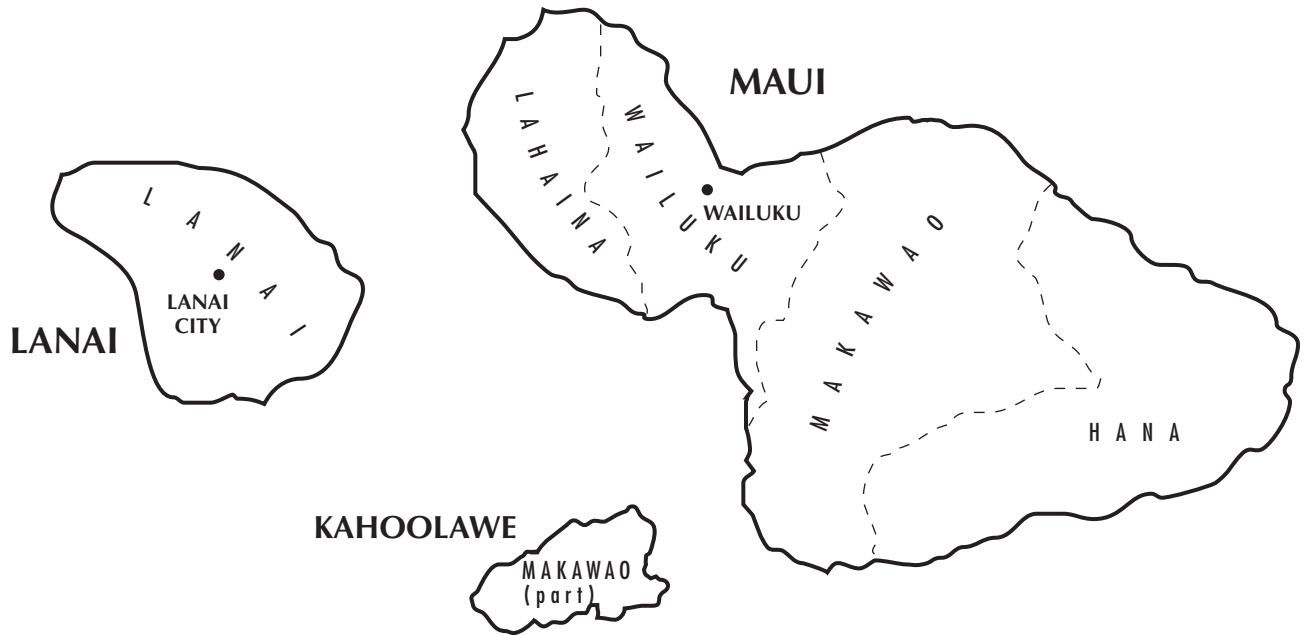
1.1.1

MAUI COUNTY AND DISTRICTS



MOLOKAI

\*Kalawao is officially designated as a separate county but is usually treated as a district of Maui for statistical purposes.



SOURCE: Hawaii State Department of Business, Economic Development and Tourism, 1991.

## 1.2.1

## MAUI COUNTY STATISTICS

	Unit	Period	1995	1996	1997	1998	1999	2000	% Change Annual 99/00	% Change Annual 95/00
Resident Population <sup>1p</sup>	Number	July 1	115,305	117,570	119,129	120,691	121,997	128,241	6.8	2.6
Civilian Labor Force <sup>r</sup>	Number	Mo. Avg.	65,800	68,050	69,250	69,950 r	71,400p	72,400p	1.4	1.2
Employment <sup>r</sup>	Number	Mo. Avg.	61,000	63,050	64,050	65,200 r	67,300p	69,350p	3.0	1.8
Unemployment <sup>r</sup>	Number	Mo. Avg.	4,800	4,950	5,200	4,750 r	4,050p	3,050p	-24.7	-7.3
Unemployment rate <sup>r</sup>	Percent	Mo. Avg.	7.3	7.3	7.5	6.8 r	5.7p	4.2p	-1.5*	-3.1*
Total Job Count <sup>2r</sup>	Number	Mo. Avg.	53,950	54,250	55,450	56,700 r	58,150p	60,450p	4.0	2.0
Gross Business Receipts	Mil. \$	Total	2,804.0	2,525.5 <sup>3</sup>	1,984.0 <sup>3</sup>	2,107.9 <sup>3</sup>	3,429.5 <sup>3</sup>	3,821.2 <sup>3</sup>	11.4	11.2
State Tax Collections <sup>4</sup>	Thous. \$	Total	167,476	194,659 <sup>3</sup>	193,662 <sup>3</sup>	212,588 <sup>3</sup>	234,878 <sup>3</sup>	3	-100.0	-16.7
County Tax Collections <sup>5</sup>	Thous. \$	Total	82,985	82,088	84,932	86,226	85,723		-100.0	-20.2
Estimated Domestic Visitors	Thous.	Total	1,762.7	1,732.0	1,788.4	1,776.2	1,866.5	1,917.7p	2.7	0.6
Estimated International Visitors	Thous.	Total	564.1	586.6	542.0	528.0	480.5	461.2p	-4.0	0.2
Hotel Inventory	Number	Feb.	NA	17,824	18,552	18,650	18,609	18,270	-1.8	0.6
Hotel Occupancy	Percent	Mo. Avg.	73.5	73.4	71.6	72.8	77.3	81.9	4.6*	1.5*
Private Permits	Thous. \$	Total	215,073	155,955	152,773	163,638	229,162	355,361	55.1	22.1
Residential Permits	Thous. \$	Total	81,231	94,922	86,855	91,291	123,633	196,309	58.8	11.3
Non-Residential Permits	Thous. \$	Total	133,842	61,033	28,437	37,668	60,488	75,157	24.3	30.4
Additions and Alterations	Thous. \$	Total	29,441	33,658	37,482	34,680	45,042	83,894	86.3	16.4
Real Estate Resales										
Single Family	Number	Total	309	445	505	638	965 r	951p	-1.5	14.5
Average Price	Dollars	Avg.	354,902	367,247	352,772	372,084	344,848 r	430,337p	24.8	3.6
Condominium	Number	Total	472	572	809	996	1,347 r	1,456p	8.1	19.0
Average Price	Dollars	Avg.	236,486	243,362	211,609	230,184	305,672 r	389,037p	27.3	10.5
Sugar Production, Raw Sugar 96°	Thous. Ton	Total	229	232	224	237	255	NA	NA	NA
Pineapple Sales, Fresh Equivalent	Thous. \$	Total	24,775	27,144	28,295	NA	NA	NA	NA	NA
Diversified Crops/Livestock	Thous. \$	Total	40,482	42,243	45,413	NA	NA	NA	NA	NA
Diversified Crops	Thous. \$	Total	29,889	32,100	34,258	NA	NA	NA	NA	NA
Livestock	Thous. \$	Total	10,593	10,143	11,155	NA	NA	NA	NA	NA

1. Preliminary estimates by the U.S. Bureau of the Census. 2. Refers to number of jobs rather than number of persons employed. Persons with more than one job are counted more than once.

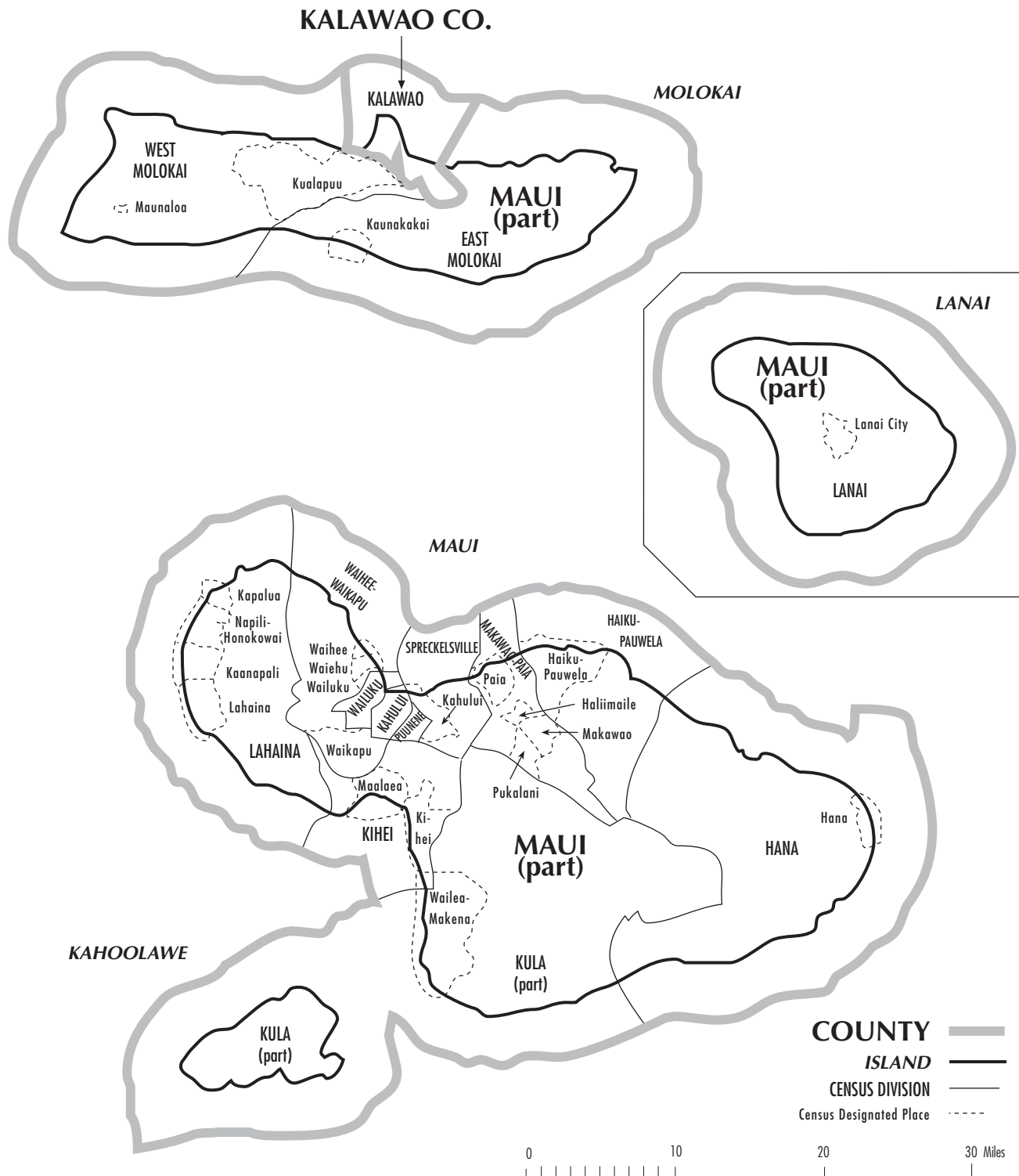
3. 1996-1997 figures are not comparable to other years due to low allocation to counties of electronically filed tax data. 4. Totals do not include real property taxes. 5. Fiscal year ending June 30.

NA: Not available \* : Incremental change p : Preliminary r : Revised

SOURCE: County of Maui, *Maui County Data Book 2001*, after First Hawaiian Bank, *Supplement to Economic Indicators*, September/October 1997.

1.3.1

MAUI COUNTY SUBDIVISIONS AND PLACES



SOURCE: U.S. Department of Commerce, Bureau of the Census, 1991.



### 1.3.2

## RESIDENT POPULATION BY COUNTIES

*Estimates based on place of usual residence; includes armed forces stationed or homeported in Hawaii and residents temporarily absent, excludes visitors present*

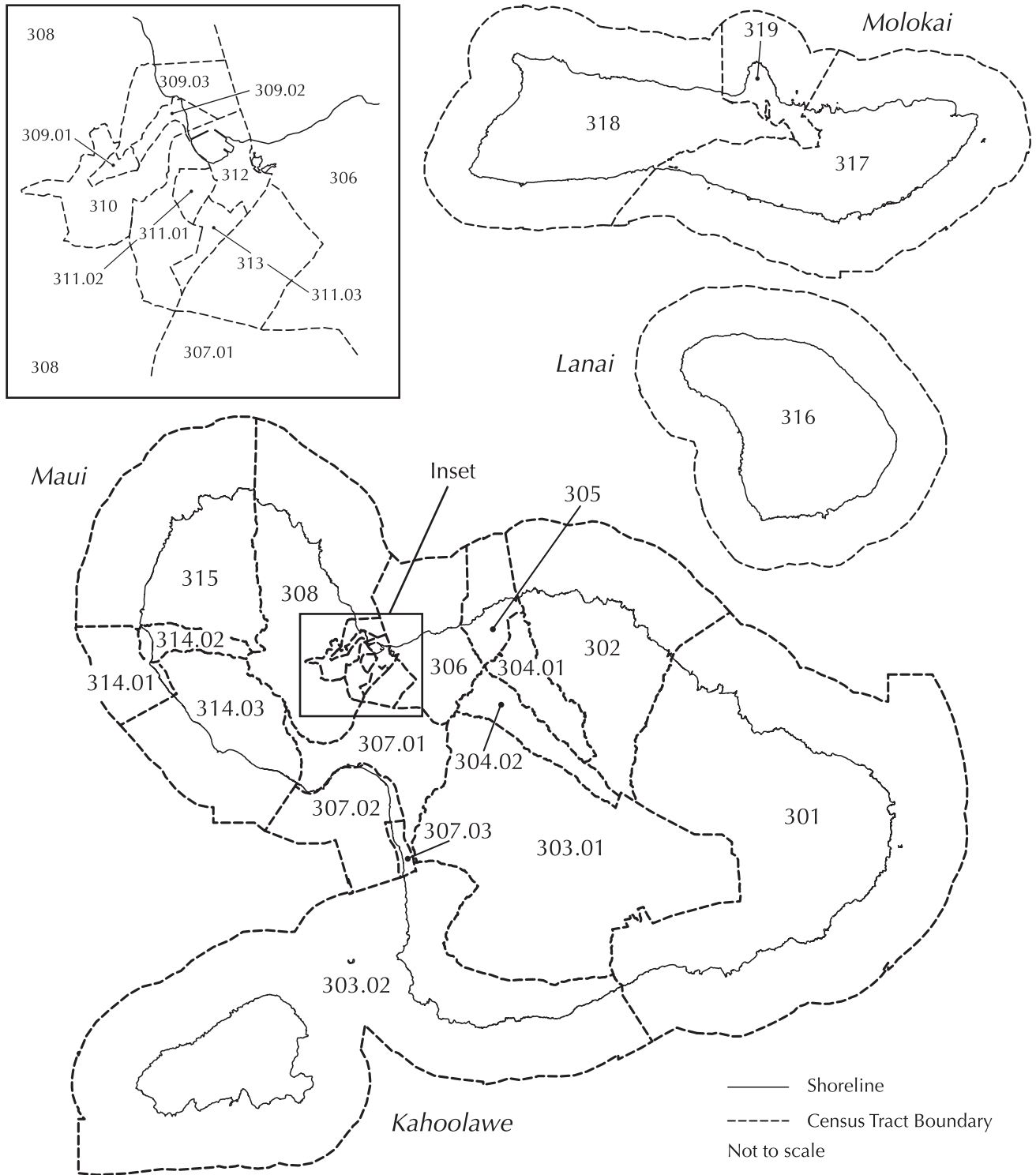
Date	Maui County <sup>1</sup>	Hawaii County	Kauai County	City & County of Honolulu	State Total
July 1, 1980	71,600	92,900	39,400	764,600	968,500
July 1, 1981	74,000	96,100	40,500	767,600	978,200
July 1, 1982	77,100	98,800	41,800	776,100	993,800
July 1, 1983	80,100	100,800	42,800	789,100	1,012,700
July 1, 1984	83,000	103,500	43,600	797,800	1,027,900
July 1, 1985	85,100	105,900	44,400	804,300	1,039,700
July 1, 1986	87,400	108,400	45,600	810,400	1,051,800
July 1, 1987	90,500	111,700	47,200	818,400	1,067,900
July 1, 1988	93,800	113,400	48,500	824,100	1,079,800
July 1, 1989	96,800	116,600	49,800	831,300	1,094,600
July 1, 1990	101,588	121,458	51,625	838,032	1,112,703
July 1, 1991	105,013	126,684	53,121	846,594	1,131,412
July 1, 1992	107,543	130,524	53,975	857,884	1,149,926
July 1, 1993	110,424	133,428	54,789	862,867	1,161,508
July 1, 1994	112,711	135,547	55,686	869,959	1,173,903
July 1, 1995	115,305	137,761	56,055	871,369	1,180,490
July 1, 1996	117,570	138,792	56,463	871,609	1,184,434
July 1, 1997	119,129	140,824	56,254	873,115	1,189,322
July 1, 1998	120,691	141,805	56,208	871,768	1,190,472
July 1, 1999	121,997	142,390	56,539	864,571	1,185,497
April 1, 2000	128,241	148,677	58,463	876,156	1,211,537

<sup>1</sup>Including Kalawao County (Kalaupapa Settlement).

SOURCES: U.S. Bureau of the Census, *Census 2000 Redistricting Data Summary: Hawaii*; Population Estimates Program, Population Division, U.S. Bureau of the Census, "County Population Estimates and Demographic Components of Population Change: Annual Time Series, July 1, 1990 to July 1, 1999 (includes revised April 1, 1990 Population Estimates Base)," CO-99-8; and records.

1.3.3

MAUI COUNTY CENSUS TRACTS



SOURCE: U.S. Bureau of the Census, Redistricting Census 2000 TIGER/Line files, processed by the Hawaii SBDC Network Business Research Library.

### 1.3.4

## DE FACTO POPULATION, BY COUNTIES

*Includes all persons physically present in area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent. Both calculated as averages for 12-month periods centered on estimate date.*

Date	Maui County <sup>1</sup>	Hawaii County	Kauai County	City & County of Honolulu	State Total
July 1, 1980	86,400	99,300	46,400	823,400	1,055,400
July 1, 1981	89,000	101,700	47,300	824,700	1,062,600
July 1, 1982	94,200	104,300	48,400	837,600	1,084,600
July 1, 1983	104,000	108,500	50,500	846,300	1,109,200
July 1, 1984	114,400	109,600	54,100	852,300	1,130,500
July 1, 1985	115,400	112,500	55,200	854,800	1,137,800
July 1, 1986	120,100	116,600	59,700	871,000	1,167,500
July 1, 1987	123,100	120,400	62,100	881,000	1,186,500
July 1, 1988	125,700	122,200	64,200	888,200	1,200,400
July 1, 1989	139,200	132,300	68,100	905,900	1,245,600
July 1, 1990	139,400	136,500	69,000	912,000	1,256,900
July 1, 1991	143,700	144,100	71,400	913,900	1,273,100
July 1, 1992	146,300	146,400	65,700	909,300	1,267,700
July 1, 1993	148,100	147,600	60,800	907,000	1,263,500
July 1, 1994	151,000	149,800	66,700	917,600	1,285,100
July 1, 1995	153,400	151,300	68,000	918,800	1,291,600
July 1, 1996	155,200	152,800	69,600	919,600	1,297,200
July 1, 1997	158,900	159,100	71,000	925,500	1,314,400
July 1, 1998	162,300	163,100	72,400	923,400	1,321,100
July 1, 1999	161,636	160,046	72,735	913,222	1,307,639

<sup>1</sup>Including Kalawao County (Kalaupapa Settlement). The 1999 de facto population estimate of Kalawao was 58.

SOURCE: Federal-State Cooperative Program for Population Estimates; Hawaii Visitors & Convention Bureau, Basic Data Survey; calculations by the Hawaii State Department of Business, Economic Development and Tourism.

## 1.3.5

## RESIDENT POPULATION BY COUNTIES AND DISTRICTS

County and District	April 1, 1980	April 1, 1990	April 1, 2000	Percent Change	
				1980 to 1990	1990 to 2000
<b>State Total</b>	<b>964,691</b>	<b>1,108,229</b>	<b>1,211,537</b>	<b>14.9</b>	<b>9.3</b>
<b>Maui County<sup>1</sup></b>	<b>70,991</b>	<b>100,504</b>	<b>128,241</b>	<b>41.6</b>	<b>27.6</b>
Hana	1,423	1,895	1,855	33.2	-2.1
Makawao	19,005	29,207	36,476	53.7	24.9
Wailuku	32,111	45,685	61,346	42.3	34.3
Lahaina	10,284	14,574	17,967	41.7	23.3
Lanai	2,119	2,426	3,193	14.5	31.6
Molokai	5,905	6,587	7,257	11.5	10.2
Kalawao	144	130	147	-9.7	13.1
<b>City &amp; Co. of Honolulu</b>	<b>762,565</b>	<b>836,231</b>	<b>876,156</b>	<b>9.7</b>	<b>4.8</b>
Honolulu	365,048	377,059	372,279	3.3	-1.3
Koolaupoko	109,373	117,694	117,994	7.6	0.3
Koolauloa	14,195	18,443	18,899	29.9	2.5
Waialua	9,849	11,549	14,027	17.3	21.5
Wahiawa	41,562	43,886	38,370	5.6	-12.6
Waianae	31,487	37,411	42,259	18.8	13.0
Ewa	191,051	230,189	272,328	20.5	18.3
<b>Hawaii County</b>	<b>92,053</b>	<b>120,317</b>	<b>148,677</b>	<b>30.7</b>	<b>23.6</b>
Puna	11,751	20,781	31,335	76.8	50.8
South Hilo	42,278	44,639	47,386	5.6	6.2
North Hilo	1,679	1,541	1,720	-8.2	11.6
Hamakua	5,128	5,545	6,108	8.1	10.2
North Kohala	3,249	4,291	6,038	32.1	40.7
South Kohala	4,607	9,140	13,131	98.4	43.7
North Kona	13,748	22,284	28,543	62.1	28.1
South Kona	5,914	7,658	8,589	29.5	12.2
Ka'u	3,699	4,438	5,827	20.0	31.3
<b>Kauai County</b>	<b>39,082</b>	<b>51,177</b>	<b>58,463</b>	<b>30.9</b>	<b>14.2</b>
Hanalei	2,668	4,631	6,348	73.6	37.1
Kawaihau	10,497	15,627	18,525	48.9	18.5
Lihue	8,590	10,663	12,022	24.1	12.7
Koloa	8,734	11,368	12,845	30.2	13.0
Waimea	8,593	8,888	8,723	3.4	-1.9

<sup>1</sup> Including Kalawao County.

SOURCE: U.S. Department of Commerce, Bureau of the Census, 2000 Census of Population and Housing, *Census 2000 Redistricting Data Summary: Hawaii* (March 2001); and *1990 Census of Population and Housing, Population and Housing Unit Counts, Hawaii*, 1990 CPH-2-13 (March 1993), table 8.

## 1.3.6

## POPULATION DENSITY, MAUI COUNTY

Area	All Persons	Land Area (sq. miles)	Persons Per Square Mile
<b>Maui + Kalawao Counties</b>	<b>128,241</b>	<b>1,172.4</b>	<b>109.4</b>
<b>Maui Island</b>	<b>117,644</b>	<b>771.9</b>	<b>152.4</b>
Haiku-Pauwela CCD	8,377	59.9	139.8
Hana CCD	1,855	180.5	10.3
Kahului CCD	20,134	5.8	3,501.4
Kihei CCD	19,843	38.8	511.5
Kula CCD	9,729	263.4	36.9
Lahaina CCD	17,967	95.9	187.4
Makawao-Paia CCD	18,370	43.3	424.1
Puunene CCD	12	4.6	2.6
Spreckelsville CCD	337	19.8	17.0
Waihee-Waikapu CCD	3,397	54.6	62.2
Wailuku CCD	17,623	5.3	3,324.4
Haiku-Pauwela CDP	6,578	15.8	417.5
Haliimaile CDP	895	1.7	534.0
Hana CDP	709	2.2	326.0
Kaanapali CDP	1,375	4.9	282.8
Kahului CDP	20,146	15.2	1,328.7
Kapalua CDP	467	1.7	272.9
Kihei CDP	16,749	10.2	1,648.6
Lahaina CDP	9,118	5.8	1,584.7
Maalaea CDP	454	4.8	95.3
Makawao CDP	6,327	4.7	1,353.8
Napili-Honokowai CDP	6,788	5.9	1,153.9
Paia CDP	2,499	6.1	410.8
Pukalani CDP	7,380	4.4	1,671.1
Waihee-Waiehu CDP	7,310	4.3	1,718.5
Waikapu CDP	1,115	11.0	101.6
Wailea-Makena CDP	5,671	22.6	250.6
Wailuku CDP	12,296	5.1	2,427.4
<b>Molokai</b>	<b>7,404</b>	<b>260.0</b>	<b>28.5</b>
Kalawao County (Kalaupapa)	147	13.2	11.1
East Molokai CCD	4,688	119.4	39.3
West Molokai CCD	2,569	127.4	20.2
Kaunakakai CDP	2,726	2.0	1,342.7
Kualapuu CDP	1,936	30.5	63.5
Maunaloa CDP	230	0.2	1,374.6
<b>Lanai</b>	<b>3,193</b>	<b>140.5</b>	<b>22.7</b>
Lanai City CDP	3,164	3.6	885.5

NOTE: See chapter introduction for definitions of CDP and CCD.

SOURCE: U.S. Bureau of the Census, *Census 2000 Redistricting Data Summary: Hawaii* (March 2001).

1.3.7

**RESIDENT POPULATION AND HOUSEHOLDS,  
MAUI COUNTY BY DISTRICT AND CENSUS TRACT**

District and Census Tract	Population	Households
<b>Maui + Kalawao Counties</b>	<b>128,241</b>	Data not released as of June 15, 2001. Check our website for updates. <a href="http://www.brl-sbdc.org/brlprod.htm">http://www.brl-sbdc.org/brlprod.htm</a>
<b>Hana</b>	<b>1,855</b>	
301	1,855	
<b>Makawao</b>	<b>36,476</b>	
302	8,377	
303.01	6,659	
303.02	3,070	
304.01	8,147	
304.02	7,708	
305	2,515	
<b>Wailuku</b>	<b>61,346</b>	
306	337	
307.01	3,579	
307.02	8,057	
307.03	8,207	
308	3,397	
309.01	2,437	
309.02	2,661	
309.03	6,682	
310	5,843	
311.01	6,908	
311.02	4,730	
311.03	4,720	
312	3,776	
313	12	
<b>Lahaina</b>	<b>17,967</b>	
314.01	2,492	
314.02	2,433	
314.03	4,276	
315	8,766	
<b>Molokai</b>	<b>7,257</b>	
317	4,688	
318	2,569	
<b>Kalawao (Kalaupapa)</b>	<b>147</b>	
319	147	
<b>Lanai</b>	<b>3,193</b>	
316	3,193	

SOURCE: U.S. Bureau of the Census, *Census 2000 Redistricting Data Summary: Hawaii* (March 2001).

1.3.8

**SUMMARY CHARACTERISTICS OF PERSONS FOR MAUI COUNTY AND CENSUS DESIGNATED PLACES, BY RACE AND SEX**

	Total Population	SEX		RACE (ALONE OR IN COMBINATION)							Hispanic or Latino (any race)
		Male	Female	White	Black or African American	American Indian and Alaska Native	Asian	Native Hawaiian and Other Pacific Islander	Some other race		
<b>Maui County</b>	<b>128,094</b>	<b>64,329</b>	<b>63,765</b>	<b>62,688</b>	<b>1,272</b>	<b>2,738</b>	<b>61,148</b>	<b>33,019</b>	<b>5,874</b>	<b>10,050</b>	
<b>Kalawao County (Kalaupapa)</b>	<b>147</b>	<b>73</b>	<b>74</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>74</b>	<b>10</b>	<b>6</b>	
<b>Maui Island</b>											
Haiku-Pauwela CDP	6,578	3,361	3,217	4,889	94	200	1,811	1,514	259	544	
Haliimaile CDP	895	459	436	281	2	26	542	309	30	56	
Hana CDP	709	334	375	248	2	13	255	543	8	45	
Kaanapali CDP	1,375	725	650	1,183	18	6	153	58	67	145	
Kahului CDP	20,146	9,936	10,210	5,026	172	399	14,681	5,378	1,336	1,763	
Kapalua CDP	467	224	243	327	3	0	103	116	16	16	
Kihei CDP	16,749	8,502	8,247	10,026	273	333	6,176	2,985	678	1,259	
Lahaina CDP	9,118	4,738	4,380	3,442	72	177	5,169	1,997	416	644	
Maalaea CDP	454	240	214	405	2	5	46	18	9	20	
Makawao CDP	6,327	3,156	3,171	4,095	55	225	2,548	1,853	362	755	
Napili-Honokowai CDP	6,788	3,502	3,286	4,294	91	145	1,895	1,075	478	728	
Paia CDP	2,499	1,275	1,224	1,279	17	57	1,242	708	165	273	
Pukalani CDP	7,380	3,655	3,725	4,132	59	138	3,661	1,937	379	681	
Waiehe-Waiehu CDP	7,310	3,664	3,646	2,227	47	124	4,822	2,415	243	570	
Waikapu CDP	1,115	560	555	365	12	13	753	298	32	68	
Wailea-Makena CDP	5,671	2,879	2,792	4,739	81	104	937	370	135	284	
Wailuku CDP	12,296	6,131	6,165	4,329	81	216	7,781	3,723	540	953	

1.3.8

CONTINUED

	Total Population	SEX		RACE (ALONE OR IN COMBINATION)									
		Male	Female	White	Black or African American	American Indian and Alaska Native	Asian	Native Hawaiian and Other Pacific Islander	Some other race	Hispanic or Latino (any race)			
<b>Molokai</b>													
Kalawao County (Kalaupapa)	147	73	74	46	0	0	27	74	10	6			
Kaunakakai CDP	2,726	1,305	1,421	705	24	60	1,481	1,551	53	152			
Kualapuu CDP	1,936	973	963	478	24	45	781	1,352	59	92			
Maunaloa CDP	230	120	110	72	1	12	90	142	4	12			
<b>Lanai</b>													
Lanai City CDP	3,164	1,593	1,571	777	18	61	2,410	651	130	245			

NOTE: See appendix for selected subject definitions.

SOURCE: U.S. Bureau of the Census, *Census 2000 Profiles of General Demographic Characteristics: Hawaii* (May 2001).



1.3.9

**POPULATION BY AGE GROUP,  
MAUI COUNTY AND CENSUS DESIGNATED PLACES**

	Total Population	Under 5	5 to 9 yrs	10 to 14 yrs	15 to 19 yrs	20 to 24 yrs	25 to 34 yrs	35 to 44 yrs	45 to 54 yrs	55 to 59 yrs	60 to 64 yrs	65 to 74 yrs	75 to 84 yrs	85 yrs & over	Median age
<b>Maui County</b>	<b>128,094</b>	<b>8,579</b>	<b>9,079</b>	<b>9,336</b>	<b>8,658</b>	<b>6,970</b>	<b>17,723</b>	<b>21,891</b>	<b>19,823</b>	<b>6,599</b>	<b>4,807</b>	<b>7,715</b>	<b>5,272</b>	<b>1,642</b>	<b>36.8</b>
<b>Kalawao County (Kalaupapa)</b>	<b>147</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>9</b>	<b>18</b>	<b>31</b>	<b>19</b>	<b>18</b>	<b>35</b>	<b>12</b>	<b>0</b>	<b>58.6</b>
<b>Maui Island</b>															
Haiuku-Pauwela CDP	6,578	458	506	482	407	346	956	1,303	1,182	322	167	253	145	51	36.1
Haliimaile CDP	895	43	48	60	84	71	135	123	119	25	34	71	52	30	35.9
Hana CDP	709	62	60	63	60	57	89	72	110	39	28	41	25	3	30.7
Kaanapali CDP	1,375	69	76	51	45	30	188	233	261	108	96	132	82	4	44.8
Kahului CDP	20,146	1,438	1,456	1,390	1,415	1,347	2,797	2,773	2,310	992	861	1,623	1,275	469	35.9
Kapalua CDP	467	39	17	21	23	12	59	91	58	27	42	46	26	6	41.7
Kihei CDP	16,749	1,145	1,253	1,126	1,044	996	2,716	3,344	2,630	784	534	668	411	98	35.3
Lahaina CDP	9,118	555	522	616	590	592	1,515	1,526	1,272	499	347	539	410	135	36.0
Maalaea CDP	454	12	7	4	11	6	41	67	95	58	49	57	41	6	52.9
Makawao CDP	6,327	469	490	560	529	321	838	1,184	1,026	278	174	259	155	44	34.6
Napili-Honokowai CDP	6,788	541	441	370	308	423	1,349	1,404	1,028	307	194	259	138	26	34.8
Paia CDP	2,499	180	182	193	197	182	352	452	349	113	87	106	80	26	33.9
Pukalani CDP	7,380	478	581	614	570	333	891	1,303	1,257	378	246	439	227	63	36.9
Waihee-Waiehu CDP	7,310	537	676	756	632	416	852	1,327	1,002	308	220	344	197	43	32.9
Waikapu CDP	1,115	79	81	80	90	48	137	190	195	51	35	54	61	14	37.3
Wailea-Makena CDP	5,671	262	281	262	226	187	757	979	1,165	455	314	483	254	46	43.9
Wailuku CDP	12,296	790	786	794	798	614	1,694	2,029	1,894	590	455	935	694	223	38.5

### 1.3.9

CONTINUED

	Total Population	Under 5	5 to 9 yrs	10 to 14 yrs	15 to 19 yrs	20 to 24 yrs	25 to 34 yrs	35 to 44 yrs	45 to 54 yrs	55 to 59 yrs	60 to 64 yrs	65 to 74 yrs	75 to 84 yrs	85 yrs & over	Median age
<b>Molokai</b>															
Kalawao County (Kalaupapa)	147	0	0	3	0	2	9	18	31	19	18	35	12	0	58.6
Kaunakakai CDP	2,726	193	214	312	244	142	243	373	344	128	118	231	128	56	35.5
Kualapuu CDP	1,936	141	196	194	175	81	226	260	230	104	80	127	105	17	33.6
Maunaloa CDP	230	24	30	29	23	13	24	34	21	7	5	14	4	2	21.8
<b>Lanai</b>															
Lanai City CDP	3,164	220	269	251	205	191	425	469	358	159	160	213	176	68	35.4

SOURCE: U.S. Bureau of the Census, *Census 2000 Profiles of General Demographic Characteristics: Hawaii* (May 2001).

1.3.10

**ETHNIC STOCK, MAUI COUNTY**

*Excludes persons in institutions or military barracks, on Niihau, or in Kalawao  
Based on a sample survey of 12,667 persons*

<b>Ethnic Stock, 1999<sup>1</sup></b>	<b>State Total</b>	<b>Maui County</b>
<b>All Groups</b>	<b>1,151,990</b>	<b>119,689</b>
<b>Unmixed (except Hawaiian)</b>	<b>696,517</b>	<b>67,614</b>
Caucasian	250,742	33,187
Black	10,455	176
Japanese	219,855	15,914
Chinese	44,787	1,040
Filipino	145,248	16,606
Korean	11,737	249
Samoan/Tongan	13,693	442
<b>Mixed (except Hawaiian)<sup>2</sup></b>	<b>232,281</b>	<b>25,725</b>
<b>Hawaiian/part Hawaiian</b>	<b>223,193</b>	<b>26,349</b>

<sup>1</sup>Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 and 1990 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

<sup>2</sup>Includes miscellaneous races and not reported (53,603 in 1999).

### 1.3.11

## COMPONENTS OF CHANGE IN THE RESIDENT POPULATION OF MAUI COUNTY

Change	Births	Deaths	Net International Migration	Federal Citizen Movement	Net Domestic Migration	Residual
7/95-7/96	1,891	720	861	0	280	-47
7/96-7/97	1,790	747	894	2	-355	-25
7/97-7/98	1,779	751	531	1	37	-35
7/98-7/99	1,755	734	662	0	-337	-40
4/90-7/99 Total	16,911	6,438	6,214	22	5,135	-351

NOTES: **Net International Migration** consists of (1) legal immigration to the United States as reported by the Immigration and Naturalization Service, (2) an estimate of net undocumented immigration from abroad, (3) an estimate of emigration from the United States, and (4) net movement between Puerto Rico and the (balance of) the United States. **Federal Citizen Movement** is the net difference between the movement of federal employees (both military and civilian) and their dependents into and out of the United States (excluding Puerto Rico) during the period. **Net Domestic Migration** is the difference between domestic immigration to an area and domestic outmigration from it during the period. Domestic immigration and outmigration consist of moves where both the origins and destinations are within the United States (excluding Puerto Rico). **Residual**: The subnational population estimates must sum to an independently derived estimate of the national population. The residual is the difference between an area's population as estimated by the subnational population estimation procedure before and after imposing this constraint. The residual is not a demographic component of population change; rather, it is a statistical artifact of the procedures employed in producing the estimates.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Population Estimates Program, Population Division, "County Population Estimates and Demographic Components of Population Change: Annual Time Series, July 1, 1990 to July 1, 1999," CO-99-8.

### 1.3.12

## LIVE BIRTHS, MAUI COUNTY BY ZIP CODES

Calendar year and place of mother's residence basis

Zip Code	Location	1995	1996	1997	1998	1999	2000
<b>Maui Island</b>							
96708	Haiku	130	136	97	115	117	107
96713	Hana	24	31	31	11	38	18
96732	Kahului	270	265	283	267	284	305
96753	Kihei	372	325	347	327	331	334
96761	Lahaina	285	314	289	272	266	274
96768	Makawao/Pukalani	232	244	227	213	196	204
96779	Paia	36	44	41	45	34	48
96784	Puunene		1	4	1	1	
96790	Kula	64	61	62	45	70	77
96793	Wailuku	324	289	311	327	331	332
<b>Lanai</b>							
96763	Lanai City	45	32	45	33	45	46
<b>Molokai</b>							
96729	Hoolehua	16	13	10	25	16	22
96748	Kaunakakai	69	76	67	62	62	70
96757	Kualapuu	7	11	7	9	8	8
96770	Maunaloa	7	8	12	12	9	19
<b>Total</b>		<b>1881</b>	<b>1850</b>	<b>1833</b>	<b>1764</b>	<b>1808</b>	<b>1865</b>

SOURCE: Hawaii State Department of Health, Office of Health Status Monitoring, records.

1.3.13

**POPULATION AND ECONOMIC PROJECTIONS,  
MAUI COUNTY: 1998 TO 2025**

Forecast Variables	Historical	Projected					
	1998	2000	2005	2010	2015	2020	2025
<b>Population (1,000)</b>	<b>122.1</b>	<b>122.6</b>	<b>128.6</b>	<b>136.4</b>	<b>144.0</b>	<b>151.2</b>	<b>158.7</b>
<b>Real Personal Income (\$million 1992)</b>	<b>2,523.4</b>	<b>2,593.5</b>	<b>2,891.7</b>	<b>3,242.9</b>	<b>3,600.1</b>	<b>3,975.3</b>	<b>4,375.0</b>
Real Per Capita Income (\$ 1992)	20,674	21,148	22,478	23,772	25,002	26,286	27,562
<b>Total Civilian Jobs (1,000)</b>	<b>73.7</b>	<b>75.9</b>	<b>83.3</b>	<b>91.4</b>	<b>99.1</b>	<b>106.9</b>	<b>114.9</b>
Self-Employed Workers	15.7	16.4	18.1	19.7	21.2	22.6	23.9
Wage and Salary Employment	58.0	59.4	65.2	71.7	78.0	84.3	91.0
Agriculture	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Manufacturing	1.8	1.7	1.7	1.9	2.0	2.1	2.3
Construction and Mining	2.1	2.3	2.5	2.7	3.0	3.2	3.4
Transportation and Utilities	4.0	4.0	4.3	4.6	4.8	5.0	5.2
Eating and Drinking Places	6.1	6.2	7.0	8.2	8.9	9.7	10.5
Trade (except eating places)	9.0	9.4	10.0	11.1	12.0	13.1	14.2
Finance, Insurance and Real Estate	3.1	3.0	3.3	3.5	3.8	4.1	4.5
Hotels	10.8	11.1	12.7	14.4	16.0	17.7	19.2
Services (except hotels)	11.6	12.2	13.4	14.7	16.1	17.6	19.1
State and Local Government	7.0	7.0	7.6	8.1	8.7	9.3	9.9
Federal Government	0.5	0.5	0.6	0.6	0.6	0.7	0.7
<b>Average Daily Visitor Census (1,000)</b>	<b>44.8</b>	<b>47.4</b>	<b>55.3</b>	<b>62.6</b>	<b>69.0</b>	<b>76.0</b>	<b>83.8</b>
Percent Annual Growth in							
Average Daily Visitor Census	1.4	2.9	3.1	2.5	2.0	2.0	2.0
Percent Share of Total State Average							
Daily Visitor Census	28.0	28.2	28.4	28.5	28.6	28.7	28.8
<b>Number of Occupied Visitor Rooms</b>	<b>13,577</b>	<b>14,378</b>	<b>16,744</b>	<b>18,405</b>	<b>20,289</b>	<b>22,365</b>	<b>24,653</b>
Ratio of Average Daily Census to							
Occupied Visitor Rooms	3.3	3.3	3.3	3.4	3.4	3.4	3.4
Percent Share of Total Occupied							
Visitor Rooms in the State	26.3	26.5	26.7	26.9	27.0	27.1	27.2
Minimum Hotel Occupancy Rate When							
New Hotels Are Needed (percent)	72.8	77.1	82.0	82.5	82.5	83.0	83.0
Number of Visitor Rooms Demanded	18,650	18,650	20,419	22,309	24,593	26,946	29,702
Percent Annual Growth in							
Number of Visitor Rooms	0.6	0.0	1.8	1.8	2.0	1.8	2.0

NOTE: "The projections ... are neither targets nor goals. Rather, they are DBEDT's best estimates for important population and economic variables based on the currently available information." (from the Introduction)

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *Population and Economic Projections for the State of Hawaii to 2025 (DBEDT 2025 series)*, February 2000.

### 1.4.1

## PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES

*All figures revised*

Year	Maui + Kalawao Counties	Hawaii County	Kauai County	City and County of Honolulu	State Total
<b>Total (x \$1,000)</b>					
1987	1,376,539	1,437,316	637,378	15,122,501	18,573,734
1988	1,554,205	1,574,265	757,991	16,512,442	20,398,903
1989	1,767,767	1,784,847	868,318	18,062,115	22,483,047
1990	2,009,658	2,018,498	964,951	19,921,724	24,914,831
1991	2,096,556	2,168,470	1,038,674	20,894,000	26,197,700
1992	2,311,961	2,308,281	682,259	22,556,662	27,859,163
1993	2,432,823	2,416,054	1,132,068	23,087,005	29,067,950
1994	2,537,364	2,495,152	1,182,254	23,525,480	29,740,250
1995	2,612,203	2,551,455	1,225,063	23,812,910	30,201,631
1996	2,644,551	2,615,139	1,219,701	23,913,790	30,393,181
1997	2,710,816	2,671,475	1,231,927	24,604,056	31,218,274
1998	2,808,892	2,795,228	1,252,148	24,967,445	31,823,713
1999	2,965,933	2,896,240	1,303,838	25,474,559	32,640,570
2000p	NA	NA	NA	NA	34,191,078
<b>Per Capita (\$)</b>					
1987	15,205	12,864	13,503	18,477	17,392
1988	16,575	13,878	15,613	20,038	18,891
1989	18,258	15,309	17,420	21,727	20,540
1990	19,782	16,619	18,692	23,772	22,391
1991	19,965	17,117	19,553	24,680	23,155
1992	21,498	17,685	12,640	26,293	24,227
1993	22,032	18,108	20,662	26,756	25,026
1994	22,512	18,408	21,231	27,042	25,335
1995	22,655	18,521	21,855	27,328	25,584
1996	22,493	18,842	21,602	27,436	25,661
1997	22,755	18,970	21,899	28,180	26,299
1998	23,273	19,712	22,277	28,640	26,759
1999	24,312	20,340	23,061	29,465	27,533
2000p	NA	NA	NA	NA	28,221

NA: Not available.

NOTES: 1991-1999 per capita income figures have not yet been revised to reflect intercensal population estimates consistent with decennial census counts, although the 2000 figure was calculated using the 2000 census count. The Bureau of Economic Analysis revised all county personal income figures from 1969 onward in 2001.

SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis. State personal income: 1986-1996 total personal income and 1986-1999 per capita personal income, *State Personal Income 1929-99*, CD-ROM (November 2000); 1997-2000 total personal income and 2000 per capita personal income, *Survey of Current Business* (May 2001), p. 29. County personal income: 1986-1996 total and per capita personal income, *Regional Economic Information System 1969-1998*, CD-ROM (June 2000); 1997-1999 total and per capita personal income, *Survey of Current Business* (May 2001), p. 62.

## 1.4.2

### EARNINGS BY DETAILED INDUSTRY, MAUI COUNTY

Earnings by Industry	1995	1996	1997	1998	1999
<b>Personal income</b>	<b>2,612,203</b>	<b>2,644,551</b>	<b>2,710,816</b>	<b>2,808,892</b>	<b>2,965,933</b>
- Transfer payments	358,929	380,427	380,123	393,803	409,489
- Dividends, interest, and rent <sup>1</sup>	455,695	460,779	506,326	542,241	556,847
=Net earnings by place of residence	1,797,579	1,803,345	1,824,367	1,872,848	1,999,597
- Adjustment for residence <sup>2</sup>	-8,078	-9,468	-8,509	-9,016	-11,958
+Personal contrb. for social insurance <sup>3</sup>	115,576	115,367	117,801	120,751	130,975
=Earnings by place of work	1,921,233	1,928,180	1,950,677	2,002,615	2,142,530
<b>Farm earnings</b>	<b>50,811</b>	<b>48,553</b>	<b>45,505</b>	<b>49,556</b>	<b>57,718</b>
<b>Nonfarm private earnings</b>	<b>1,576,656</b>	<b>1,575,243</b>	<b>1,581,779</b>	<b>1,627,559</b>	<b>1,739,232</b>
<b>Ag. services, forestry, fishing, &amp; other<sup>4</sup></b>	<b>D</b>	<b>D</b>	<b>13,617</b>	<b>D</b>	<b>D</b>
Forestry, fishing, and other <sup>4</sup>	552	635	D	1,073	1,137
Fishing	554	671	1,090	1,056	1,118
<b>Mining</b>	<b>D</b>	<b>D</b>	<b>1,038</b>	<b>D</b>	<b>D</b>
<b>Construction</b>	<b>139,343</b>	<b>133,797</b>	<b>112,819</b>	<b>117,735</b>	<b>138,548</b>
General building contractors	43,369	45,329	35,480	39,062	43,766
Heavy construction contractors	19,603	16,634	15,277	15,331	20,479
Special trade contractors	76,371	71,834	62,062	63,342	74,303
<b>Manufacturing</b>	<b>67,149</b>	<b>71,827</b>	<b>70,257</b>	<b>64,617</b>	<b>68,724</b>
Durable goods	15,346	15,702	13,808	14,196	19,380
Lumber and wood products	1,520	1,726	1,719	D	2,110
Stone, clay, and glass products	10,693	10,610	8,891	D	11,940
Fabricated metal products	2,336	2,537	2,296	2,168	2,463
Miscellaneous manufacturing industries	481	658	774	D	D
Nondurable goods	51,803	56,125	56,449	50,421	49,344
Food and kindred products	35,071	37,470	40,171	35,042	34,481
Apparel and other textile products	D	470	629	D	969
Printing and publishing	14,993	16,830	14,220	13,098	12,140
Chemicals and allied products	1,209	1,295	1,328	D	D
<b>Transportation and public utilities</b>	<b>126,502</b>	<b>133,573</b>	<b>136,627</b>	<b>143,732</b>	<b>159,766</b>
Trucking and warehousing	D	D	D	D	D
Water transportation	14,837	16,484	17,417	18,916	18,157
Other transportation	46,819	51,110	53,144	54,950	64,430
Local and interurban passenger transit	14,411	15,953	15,430	14,445	15,052
Transportation by air	21,675	22,318	23,673	26,288	28,590
Transportation services	10,733	12,839	14,041	14,217	20,788
Communications	25,621	25,367	25,735	26,486	27,164
Electric, gas, and sanitary services	D	D	D	D	D
<b>Wholesale trade</b>	<b>52,532</b>	<b>50,124</b>	<b>48,009</b>	<b>47,559</b>	<b>51,785</b>
<b>Retail trade</b>	<b>306,342</b>	<b>297,729</b>	<b>305,156</b>	<b>311,722</b>	<b>334,175</b>
Building materials and garden equipment	8,592	8,393	10,749	10,088	9,991
General merchandise stores	24,264	23,228	23,020	21,660	21,761
Food stores	43,963	43,129	42,763	43,278	44,937

## 1.4.2

### C O N T I N U E D

Earnings by Industry	1995	1996	1997	1998	1999
<b>Retail (con't)</b>					
Automotive dealers and service stations	31,986	31,919	32,116	32,315	34,669
Apparel and accessory stores	19,466	19,258	17,878	17,665	19,949
Home furniture and furnishings stores	8,445	8,303	7,152	7,684	9,500
Eating and drinking places	96,735	97,695	101,548	108,545	119,388
Miscellaneous retail	72,891	65,804	69,930	70,487	73,980
<b>Finance, insurance, and real estate</b>	<b>157,123</b>	<b>162,659</b>	<b>155,824</b>	<b>163,132</b>	<b>171,787</b>
Depository and nondepository institutions	19,699	19,823	19,830	20,574	20,025
Other finance, insurance, and real estate	137,424	142,836	135,994	142,558	151,762
Security and commodity brokers	D	3,119	3,266	4,492	5,558
Insurance carriers	2,581	2,808	3,038	D	D
Insurance agents, brokers, and services	10,226	9,422	7,847	7,918	8,782
Real estate	115,992	122,275	116,735	122,462	130,171
Holding and other investment offices	D	5,212	5,108	D	D
<b>Services</b>	<b>713,500</b>	<b>712,928</b>	<b>738,432</b>	<b>764,191</b>	<b>797,834</b>
Hotels and other lodging places	341,236	341,844	342,363	353,417	369,078
Personal services	15,674	16,187	18,093	20,091	21,059
Private households	4,760	4,784	4,761	D	D
Business services	51,985	51,365	61,573	63,122	67,772
Auto repair, services, and parking	24,250	22,336	22,903	25,862	26,338
Miscellaneous repair services	7,173	6,121	6,283	6,784	6,504
Amusement and recreation services	69,649	66,594	65,935	67,371	67,289
Motion pictures	3,329	3,616	2,863	2,876	2,707
Health services	102,069	106,798	115,656	113,359	118,082
Legal services	10,883	11,927	13,129	13,045	13,400
Educational services	8,618	8,842	9,548	11,158	12,457
Social services	24,095	22,183	25,321	29,135	30,147
Museums, botanical, zoological gardens	682	857	1,298	3,217	3,422
Membership organizations	13,575	14,299	14,504	14,984	16,223
Engineering and management services	31,088	29,945	30,453	30,535	34,892
Miscellaneous services	4,434	5,230	3,749	D	D
<b>Government and government enterprises</b>	<b>293,766</b>	<b>304,384</b>	<b>323,393</b>	<b>325,500</b>	<b>345,580</b>
Federal, civilian	24,509	25,710	26,742	26,805	29,251
Military	11,743	13,264	13,497	15,365	15,792
State	182,023	183,445	195,475	195,684	209,150
Local	75,491	81,965	87,679	87,646	91,387

<sup>1</sup>Rental income of persons includes the capital consumption adjustment.

<sup>2</sup>The adjustment for residence is the net inflow of the earnings of interarea commuters.

<sup>3</sup>Personal contributions for social insurance are included in earnings by type and industry but they are excluded from personal income.

<sup>4</sup>"Other" consists of wage and salary disbursements to U.S. residents employed by international organizations and foreign embassies and consulates in the United States.

SOURCE: U.S. Bureau of Economic Analysis, *Regional Economic Information System*, May 2001.



### 1.4.3

## ESTIMATED COSTS OF LIVING BY CATEGORY, COUNTIES OF HAWAII RELATIVE TO WASHINGTON, DC

*Dollar estimates for Federal Employees' expenditures*

	Income Levels	Consumption Goods & Services	Housing Costs		Transportation (new car)	Miscellaneous	Estimated Total Expenditures for	
			Owners	Renters			Renters	Owners
Washington, DC consumer expenditures	Lower	8,870	6,156	6,156	4,483	3,791	23,300	23,300
	Middle	13,230	8,825	8,825	6,749	6,495	35,300	35,300
	Upper	19,478	12,500	12,500	10,018	10,709	52,700	52,700
Maui County, HI	Lower	11,037	10,058	6,810	5,992	4,095	27,934	31,182
	Middle	16,343	13,072	8,515	9,125	6,931	40,914	45,471
	Upper	23,892	14,906	9,905	13,686	11,323	58,806	63,807
Honolulu, HI	Lower	10,500	11,203	7,252	6,021	4,003	27,776	31,727
	Middle	15,574	14,926	9,442	9,143	6,833	40,992	46,476
	Upper	22,809	21,393	12,695	13,678	11,235	60,417	69,115
Hawaii County, HI	Lower	10,204	7,243	5,461	6,145	3,904	25,714	27,496
	Middle	15,086	9,567	7,233	9,362	6,689	38,370	40,704
	Upper	22,026	11,141	8,260	14,049	11,023	55,358	58,239
Kauai County, HI	Lower	11,031	8,959	6,225	6,208	3,896	27,360	30,094
	Middle	16,269	11,677	7,529	9,457	6,685	39,940	44,088
	Upper	23,705	13,529	8,778	14,188	11,029	57,700	62,451

**Warning:** These estimates are very rough. They are based on aggregate ratios of the costs of selected consumer goods and services in Hawaii to the same items in Washington DC, then multiplied by the proportion of total consumer spending by income level in each category as determined from the nationally based Consumer Expenditure Survey. The ratios are based on after-tax spending patterns, but the amounts in this table are calculated by applying these ratios to total income (*not* after-tax income). Actual expenditures will be lower because income taxes and social security/medicare contributions were not deducted from income before the ratios were applied.

NOTE: Base income levels are: Lower = \$23,300/yr, middle = \$35,300/yr, and upper = \$52,700/yr. The proportion of spending in each category to the total is deemed constant between locations. Proportions are based on the U.S. Department of Commerce, Bureau of Labor Statistics, Consumer Expenditure Survey, and vary according to income level.

CONSUMPTION GOODS AND SERVICES: Consists of food at home and away from home, tobacco, alcohol, furnishings and household operations, clothing, domestic service, professional services, personal care and recreation. HOUSING COSTS: Includes taxes, maintenance, and utilities as well as mortgage or rent. TRANSPORTATION: Costs of buying and maintaining vehicles, including insurance, plus air travel and public transportation. MISCELLANEOUS: Medical care, private education, contributions, personal insurance and retirement.

SOURCE: U.S. Office of Personnel Management, "Report on 1998 Surveys Used to Determine Cost-of-Living Allowances in Nonforeign Areas," *Federal Register* vol. 65, no. 137, July 17, 2000, pp. 44103-44173.

#### 1.4.4

### COST OF LIVING COMPARISON

*Homeowning family of 4 with an annual income of \$80,000*

Standard City, USA	Austin, TX	Kihei, HI	Seattle, WA	Boston, MA	San Jose, CA
100.0	94.2	108.9	116.2	116.3	115.5

NOTE: The indices reflect the total expenses of housing, transportation, goods and services, and taxes. Standard City, USA represents the national average cost.

SOURCE: Runzheimer International, 1999 cost of living comparison commissioned by the Maui Economic Development Board.

#### 1.4.5

### CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER: HONOLULU

*1982–1984 average = 100*

Year	URBAN WAGE EARNERS AND ALL URBAN CONSUMERS (CPI-U)			CLERICAL WORKERS (CPI-W)		
	First Half	Second Half	Annual Average	First Half	Second Half	Annual Average
1986	108.9	109.9	109.4	109.9	110.7	110.3
1987	113.3	116.5	114.9	114.3	117.6	115.9
1988	120.1	123.4	121.7	121.1	124.5	122.8
1989	126.4	131.1	128.7	127.4	132.0	129.7
1990	135.5	140.8	138.1	136.3	141.6	138.9
1991	146.8	149.1	148.0	147.7	150.1	148.9
1992	153.9	156.4	155.1	154.6	157.2	155.9
1993	158.6	161.6	160.1	159.4	162.0	160.7
1994	163.4	165.7	164.5	163.5	165.8	164.7
1995	166.9	169.4	168.1	167.2	169.7	168.4
1996	170.5	171.0	170.7	170.8	171.2	171.0
1997	172.1	171.8	171.9	172.4	172.0	172.2
1998	172.0	171.0	171.5	172.3	171.0	171.6
1999	172.7	173.8	173.3	173.0	173.9	173.4
2000	175.9	176.7	176.3	176.0	176.9	176.5

NOTE: See section introduction (General Statistics) for CPI-U and CPI-W definitions.

SOURCE: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly), BLS tapes tabulated by Hawaii State Data Center, and BLS World Wide Web site (<http://www.bls.gov>).

## 1.4.6

### DETAILED CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U): HONOLULU

*1982–1984 average = 100 unless otherwise noted*

Group	1996	1997	1998	1999	2000
<b>ALL ITEMS</b>	<b>170.7</b>	<b>171.9</b>	<b>171.5</b>	<b>173.3</b>	<b>176.3</b>
<b>Food and beverages</b>	<b>156.6</b>	<b>159.2</b>	<b>159.1</b>	<b>162.9</b>	<b>164.8</b>
Food	156.6	159.5	159.1	163.0	164.8
Food at home	159.5	164.2	162.6	166.2	166.9
Food away from home	150.8	152.6	153.3	158.3	160.0
Alcoholic beverages	156.2	155.2	158.8	161.9	163.9
<b>Housing</b>	<b>176.8</b>	<b>177.1</b>	<b>176.0</b>	<b>175.8</b>	<b>177.9</b>
Shelter	193.5	192.4	192.3	191.7	191.9
Rent of primary residence	187.3	185.7	183.5	181.7	180.3
Owners' equivalent rent <sup>1</sup>	200.4	199.0	198.3	197.0	196.3
Fuels and utilities	133.8	137.1	131.0	133.4	147.4
Fuels	115.9	119.8	112.2	114.3	130.8
Gas (piped) and electricity	115.2	119.1	111.8	113.7	129.8
Electricity	114.5	118.6	111.4	113.4	129.1
Utility (piped) gas	114.7	116.1	107.5	109.2	126.8
Household furnishings and operation	146.4	150.0	145.8	146.4	152.4
<b>Apparel</b>	<b>118.5</b>	<b>117.3</b>	<b>112.2</b>	<b>105.4</b>	<b>103.5</b>
<b>Transportation</b>	<b>167.0</b>	<b>166.2</b>	<b>162.5</b>	<b>162.2</b>	<b>169.6</b>
Private transportation	168.2	167.2	161.7	160.4	166.9
Motor fuel	131.9	132.0	129.3	119.9	141.8
Gasoline, all types	134.9	135.1	132.4	122.6	144.8
Gasoline, unleaded regular	141.4	141.9	138.8	128.8	151.7
Gasoline, unleaded midgrade <sup>2</sup>	105.9	105.3	103.6	95.5	114.5
Gasoline, unleaded premium	123.8	123.8	121.9	112.4	132.7
<b>Medical care</b>	<b>215.0</b>	<b>217.3</b>	<b>226.1</b>	<b>231.3</b>	<b>239.8</b>
<b>Recreation<sup>3</sup></b>	<b>No Data</b>	<b>No Data</b>	<b>100.8</b>	<b>101.9</b>	<b>102.8</b>
<b>Education and communication<sup>3</sup></b>	<b>No Data</b>	<b>No Data</b>	<b>99.1</b>	<b>104.5</b>	<b>106.9</b>
<b>Other goods and services</b>	<b>226.5</b>	<b>239.0</b>	<b>256.1</b>	<b>275.6</b>	<b>279.7</b>

**1.4.6**  
**C O N T I N U E D**

Group	1996	1997	1998	1999	2000
<b>Special aggregate indexes</b>					
All items less shelter	161.8	164.0	163.4	183.0	170.5
All items less medical care	168.3	169.4	168.6	166.2	173.0
All items less energy	175.5	176.7	176.6	170.2	180.7
All items less food and energy	180.5	181.4	181.3	178.7	185.1
Commodities	146.3	148.3	147.5	148.2	150.3
Commodities less food	138.9	140.3	139.1	137.7	140.1
Commodities less food and beverages	138.1	139.6	138.2	136.6	138.9
Durables	131.8	134.2	131.0	129.7	128.5
Nondurables	150.1	152.0	151.9	153.3	156.5
Nondurables less food	143.0	143.9	143.9	142.4	147.3
Nondurables less food and beverages	142.2	143.2	142.9	141.0	146.1
Energy	124.4	126.3	121.0	117.9	137.0
Services	192.1	192.8	192.6	195.3	199.1
Services less rent of shelter <sup>1</sup>	192.9	195.4	195.3	202.0	210.4
Services less medical care	189.7	190.3	189.7	192.2	195.5

NOTE: See Section 1: General Statistics for CPI-U definition. The level of CPI item detail has changed due to revisions in the Consumer Price Index done by the Bureau of Labor Statistics in 1998.

<sup>1</sup>December 1982 = 100.

<sup>2</sup>December 1993 = 100.

<sup>3</sup>December 1997 = 100.

SOURCE: U.S. Bureau of Labor Statistics, World Wide Web site (<http://www.bls.gov/>).

1.5.1

**CAPACITIES OF HOSPITALS, CARE HOMES AND HOME HEALTH AGENCIES, MAUI COUNTY**

*Data are for facilities recognized by the Hawaii State Health Planning and Development Agency, and the Office of Health Care Assurance*

	HOSPITALS, DECEMBER 31, 1999				ADULT RESIDENTIAL CARE HOMES 2000		HOME HEALTH CARE AGENCIES 1996
	Total <sup>1</sup>	Acute Care	Long-term Care	Specialty Care	Type I <sup>2</sup>	Type II <sup>3</sup>	Total <sup>4</sup>
<b>Facilities</b>							<b>Agencies</b>
County Total	13	4	4	5	17	1	13
Maui	8	2	2	4	12	0	
Molokai	3	1	1	1	5	1	
Lanai	2	1	1	0	0	0	
State Total	99	24	47	28	525	14	69
<b>Beds</b>							<b>Patients Served<sup>5</sup></b>
County Total	789	208	492	89	81	14	4,777
Maui	731	196	460	75	57	0	
Molokai	44	8	22	14	24	14	
Lanai	14	4	10	0	0	0	
State Total	7,681	2,616	4,000	1,065	2,451	370	31,727
<b>Occupancy (percent)</b>							
County Total	80.52	71.16	90.84	45.34			
Maui	82.81	74.93	92.12	46.25			
Molokai	50.52	12.91	70.59	40.49			
Lanai	55.58	2.95	76.63	-			
State Total	81.13	62.72	93.01	80.41			

<sup>1</sup> Facilities providing more than one kind of care are counted only once.

<sup>2</sup> Five beds or fewer.

<sup>3</sup> More than five beds.

<sup>4</sup> Data only available by county. Home health care agencies are classified into the following categories: Medicare certified, private duty, home medical equipment, infusion pharmacy, other home care provider, and hospice.

<sup>5</sup> A given patient may be counted more than once, since s/he may be served by more than one home health care agency.

SOURCE: Hawaii State Department of Health, State Health Planning and Development Agency, *Inpatient Facilities Utilization Report, 1999*; Hawaii State Department of Health, Office of Health Care Assurance, "Adult Care Home Vacancy Report - by Area," <http://www.state.hi.us/health/resource/ohca/licensing> (May 2000); Hawaii State Department of Health, Hospital and Medical Facilities Branch, records.

## 1.5.2

## HEALTH PRACTITIONERS LICENSED IN HAWAII BY PLACE OF ADDRESS

	Acupuncturist	Chiropractor	Dental Hygienist	Dentist	Massage Therapist
Maui	55	69	59	69	712
Molokai	1	1	3	3	7
Lanai	0	0	2	0	12
Oahu	223	166	365	799	1,559
Hawaii	58	35	48	97	569
Kauai	16	17	16	40	263
<b>Subtotal Hawaii</b>	<b>353</b>	<b>288</b>	<b>493</b>	<b>1,008</b>	<b>3,122</b>
Mainland	99	223	200	321	469
Foreign/Other	6	10	5	14	29
<b>Total</b>	<b>458</b>	<b>521</b>	<b>698</b>	<b>1,343</b>	<b>3,620</b>

	Certified Physician's Assistant	Emergency Medical Tech. Basic	Emergency Medical Tech. Paramedic	Physician or Surgeon <sup>1</sup>	Osteopathic Physician and Surgeon
Maui	9	38	36	235	13
Molokai	0	2	5	5	0
Lanai	0	0	0	2	0
Oahu	47	135	194	2,503	76
Hawaii	9	137	67	284	13
Kauai	5	20	15	115	6
<b>Subtotal Hawaii</b>	<b>70</b>	<b>332</b>	<b>317</b>	<b>3,144</b>	<b>108</b>
Mainland	2	2	8	2,645	246
Foreign/Other	0	1	0	50	1
<b>Total</b>	<b>72</b>	<b>335</b>	<b>325</b>	<b>5,839</b>	<b>355</b>

	Licensed Practical Nurse	Registered Nurse	Advanced Practice Registered Nurse	Occupational Therapist	Physical Therapist
Maui	294	888	18	19	59
Molokai	14	37	2	1	1
Lanai	0	11	1	0	0
Oahu	1,736	7,531	245	207	368
Hawaii	378	1,046	31	31	67
Kauai	220	423	16	15	25
<b>Subtotal Hawaii</b>	<b>2,642</b>	<b>9,936</b>	<b>313</b>	<b>273</b>	<b>520</b>
Mainland	258	2,723	63	34	166
Foreign/Other	13	208	1	2	11
<b>Total</b>	<b>2,913</b>	<b>12,867</b>	<b>377</b>	<b>309</b>	<b>697</b>

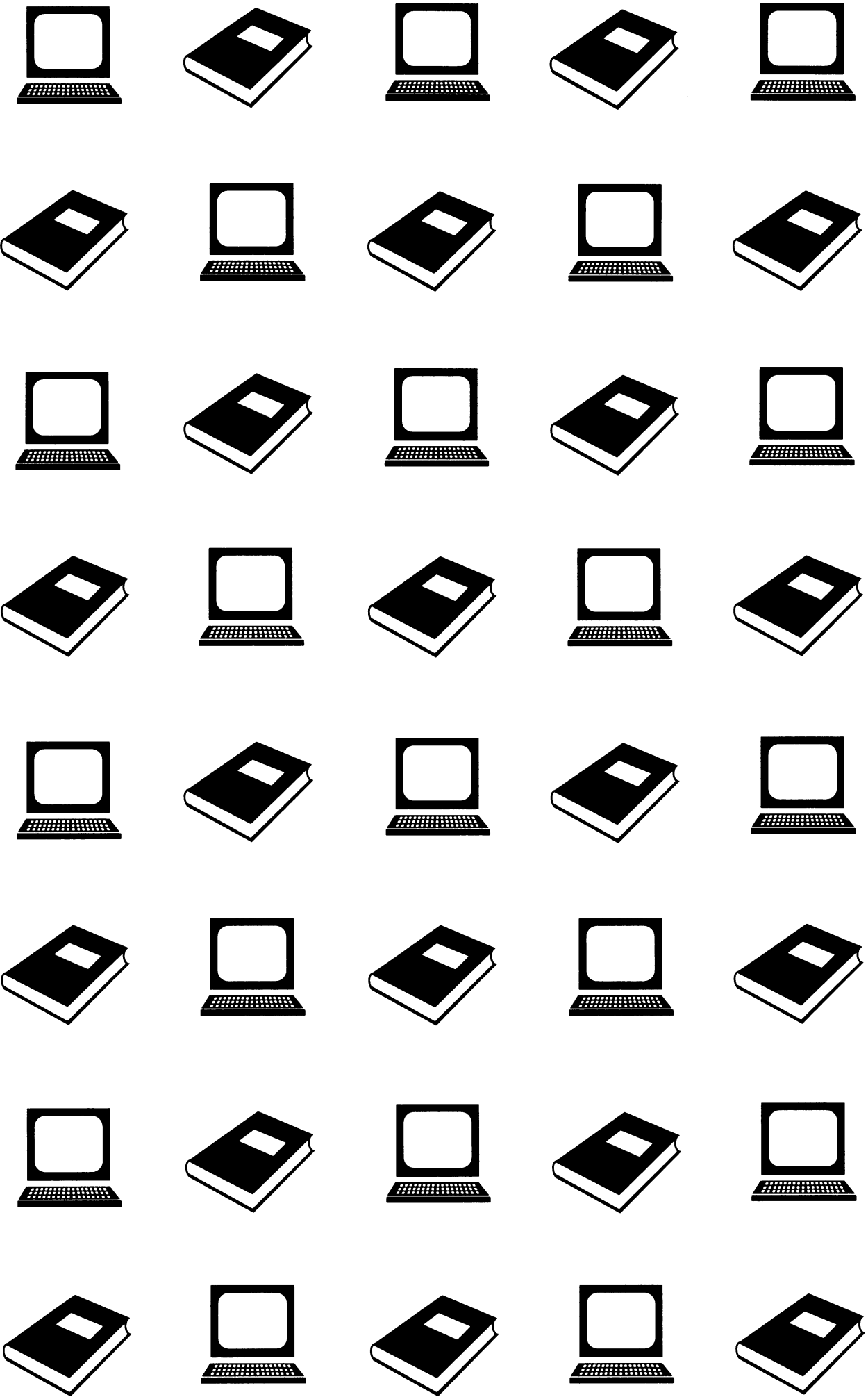
  

	Naturopath	Optometrist	Pharmacist	Podiatrist	Psychologist
Maui	15	17	67	5	29
Molokai	0	0	2	0	0
Lanai	0	0	0	0	0
Oahu	18	173	651	21	312
Hawaii	15	18	79	3	40
Kauai	7	8	40	2	18
<b>Subtotal Hawaii</b>	<b>55</b>	<b>216</b>	<b>839</b>	<b>31</b>	<b>399</b>
Mainland	14	108	605	36	101
Foreign/Other	0	6	8	2	0
<b>Total</b>	<b>69</b>	<b>330</b>	<b>1,452</b>	<b>69</b>	<b>500</b>

<sup>1</sup>Permanent licenses only. Does not include interns, residents, or physicians who provided state government services only.

SOURCE: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, records, 3/6/2001.

# Education



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## Section 2

# EDUCATION

This section covers statistics on public and private schools, enrollment, number of teachers, high school graduates, enrollment at Maui Community College, degrees offered, number of faculty at Maui Community College and libraries.

Maui County public and private schools provide educational opportunities for students from pre-kindergarten through senior high school. Maui Community College offers courses in a wide variety of technical, vocational and liberal arts disciplines and through the University of Hawai`i Center offers 4- and 5-year University of Hawai`i degrees via the Hawai`i Interactive Television System (HITS).

The Hawaii State Library System in Maui County has eight locations on three islands, Maui, Molokai and Lanai. Maui Community College Library holdings include four centers; two on Maui (Kahului and Hana), and one each on Molokai and Lanai.

The principal sources of the data on education are the Hawaii State Department of Education, the Hawaii Association of Private Schools, and the University of Hawaii Institutional Research Office. On libraries, the principal sources are the Hawaii State Public Library System, Research and Evaluation Services and the Maui Community College Library.



2.1

**MAUI DISTRICT PUBLIC AND PRIVATE SCHOOLS  
BY ISLAND AND LOCATION**

**MAUI**

**Hana**

Hana High and Elementary	K-12
Keanae	K-3

**Kihei**

Kamalii	K-5
Kihei Elementary	K-5
Lokelani Intermediate	6-8

**Lahaina**

King Kamehameha III	K-5
Lahaina Intermediate	6-8
Lahainaluna High	9-12
Princess Nahienaena	K-5
Sacred Hearts Elementary	K-8

**Kahului/Wailuku**

H. Perrine Baldwin High	9-12
Christ the King	PreK-6
Emmanuel Lutheran	K-6
Iao	6-8
Kaahumanu Hou Christian (Maui)	K-12
Kahului Elementary	K-5
Lihikai	K-5
Maui Adventist	1-8
Maui High	9-12
Maui Waena Intermediate	6-8
St. Anthony Grade School	K-6
St. Anthony Junior and Senior High	7-12
Waihee	K-5
Wailuku Elementary	K-5

**Upcountry/North Shore**

Clearview Christian Girls School	6-8
Doris Todd Memorial Christian	PreK-8
Haiku Elementary	K-5
Haleakala Waldorf	PreK-8
Horizons Academy	K-8
S. Enoka Kalama Intermediate	6-8
Kamehameha School (Maui)	K-3
King Kekaulike High	9-12
Kula Elementary	K-5
Makawao	K-5
Maui Christian Academy	PreK-8
Montessori Hale O'Keiki	PreK-5
Montessori of Maui	PreK-6
Paia	K-5
Pukalani Elementary	K-5
St. Joseph	K-8
Seabury Hall	6-12

**LANAI**

Lanai High and Elementary	K-12
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**MOLOKAI**

Kaahumanu Hou Christian (Molokai)	6-9
Kaunakakai	K-6
Kilohana	K-6
Kualapuu	K-6
Maunaloa	K-6
Molokai Christian Academy	PreK-12
Molokai High and Intermediate	7-12
Molokai Mission	2-8

SOURCES: Hawaii State Department of Education, records; Hawaii Association of Independent Schools, *Licensed Private Schools 1998-1999*.

## 2.2

### SCHOOLS, ENROLLMENT, AND HIGH SCHOOL GRADUATES FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, MAUI COUNTY

	Total	Public	Private
<b>Number of Schools</b>			
September 14, 1992	43	28	15
September 14, 1993	43	28	15
September 14, 1994	44	28	16
September 14, 1995	45	29	16
September 1996	48	30	18
September 1997	46	30	16
September 1998		30	NA
September 1999		30	NA
<b>Enrollment</b>			
September 14, 1992	21,276	18,876	2,400
September 14, 1993	21,703	19,527	2,177
September 14, 1994	22,272	20,025	2,247
September 12, 1995	NA	20,992	NA
September 1996	23,626	21,463	2,163
September 1997	24,040	21,712	2,328
September 1998	24,281	21,608	2,673
September 1999		21,570	NA
<b>Teachers</b>			
September 14, 1992	1,352	1,185	167
September 14, 1993	1,365	1,206	159
September 14, 1994	1,410	1,233	177
September 12, 1995	NA	1,255	NA
September 1996	NA	NA	NA
September 1997	NA	1,210	NA
September 1998		1,278	NA
September 1999		1,291	NA
<b>High School Graduates</b>			
1991 to 1992	1,121	1,011	110
1992 to 1993	1,156	1,016	140
1993 to 1994	1,188	1,048	140
1994 to 1995	NA	1,010	NA
1995 to 1996	NA	1,031	NA
1996 to 1997	NA	1,000	NA
1997 to 1998		1,099	NA
1998 to 1999		1,164	NA

SOURCES: Hawaii State Department of Education, records; Hawaii Association of Private Schools, *Enrollment Report 1996-97* and *1997-98*.

## 2.3

### PUBLIC SCHOOLS: ENROLLMENT AND GRADES, MAUI DISTRICT

School	1997	1998	1999	2000	Grades
H. Perrine Baldwin High	1,850	1,721	1,693	1,707	9-12
Haiku	465	441	436	444	K-5
Hana High & Elementary	440	412	411	402	K-12
Iao	823	849	858	887	6-8
Kahului	911	887	872	864	K-5
S. Enoka Kalama Intermediate	1,298	1,185	1,120	1,137	6-8
Kamalii	754	796	872	748	K-5
King Kamehameha III	665	657	630	620	K-5
Kaunakakai	336	302	290	271	K-6
Keanae	7	10	7	3	K-3
King Kekaulike High <sup>1</sup>	1,030	1,314	1,396	1,422	9-12
Kihei	775	735	759	779	K-5
Kilohana	148	133	131	118	K-6
Kualapuu	407	421	398	401	K-6
Kula Elementary	522	518	466	451	K-5
Lahaina Intermediate	604	616	641	626	6-8
Lahainaluna High	876	892	889	924	9-12
Lanai High & Elementary	661	683	687	688	K-12
Lihikai	1,035	1,045	1,053	1,119	K-5
Lokelani Intermediate	692	664	678	673	6-8
Makawao	636	590	620	551	K-5
Maui High	1,734	1,656	1,709	1,734	9-12
Maui Waena Intermediate	948	935	935	960	6-8
Maunaloa	90	83	70	73	K-6
Molokai High & Intermediate	808	833	812	782	7-12
Princess Nahienaena	698	694	651	645	K-5
Paia	246	240	224	214	K-5
Pukalani Elementary	558	523	493	509	K-5
Waihee	858	873	867	859	K-5
Wailuku Elementary	837	900	902	934	K-5
<b>Total Enrollment</b>	<b>21,712</b>	<b>21,608</b>	<b>21,570</b>	<b>21,645</b>	

<sup>1</sup> King Kekaulike first opened in 1995 with 9th graders. The school added 1 grade per year through 1998.

SOURCE: Hawaii State Department of Education, records.

## 2.4

### PRIVATE SCHOOLS: ENROLLMENT AND GRADES, MAUI DISTRICT

School	1997	1998	1999	2000	Grades
Christ the King	105	105	147	163	K-6
Clearview Christian Girls School	17	16	14	24	6-8
Doris Todd Memorial Christian	151	160	162	141	PreK-8
Emmanuel Lutheran	102	110	93	95	K-6
Haleakala Waldorf	178	178	175	175	PreK-8
Horizons Academy	50	50	50	50	K-8
Kaahumanu Hou Christian (Maui)	119	125	130	135	1-12
Kamehameha Schools (Maui)	–	120	152	176	K-3
Maui Adventist	21	21	27	31	2-8
Molokai Christian Academy	14	14	70	70	PreK-12
Molokai Mission	22	22	16	0	K-8
Montessori Hale o' Keiki	72	80	70	76	PreK-4
Montessori of Maui	174	190	178	181	PreK-6
Sacred Hearts Elementary	200	200	249	249	K-8
St. Anthony Grade School	208	208	195	196	PreK-6
St. Anthony Junior & Senior High	370	370	380	385	7-12
St. Joseph	139	139	106	116	K-6
Seabury Hall	386	385	400	410	6-12
<b>Total Enrollment</b>	<b>2,328</b>	<b>2,493</b>	<b>2,614</b>	<b>2,673</b>	

\* Enrollment figures for 1995 not available.  
1999 and 2000 data updated by telephone survey, May 2001.

SOURCES: Hawaii State Department of Education, records; Hawaii Association of Independent Schools, *Enrollment Report* (1996-97, 1997-98) and *Licensed Private Schools 1998-99*.

2.5

**LIBRARY HOLDINGS AND CIRCULATION,  
HAWAII STATE LIBRARY SYSTEM,  
MAUI LIBRARY DISTRICT**

	1998	1999	2000
Library locations, June 30 <sup>1</sup>	8	8	8
Personnel, June 30 <sup>2</sup>	41	42.5	44
Circulation, year ended June 30	746,972	726,699	688,105
Collections, June 30			
Books, Video Tapes & Sound Recordings	337,315	341,185	365,577
Periodical subscriptions	775	804	808

<sup>1</sup> Includes libraries on Lanai (1 location), Maui (6 locations), and Molokai (1 location).

<sup>2</sup> Full-time equivalent basis, but including permanent and temporary State general-funded positions and temporary Federal funded positions but excluding student help.

SOURCE: Hawaii State Public Library System, Information Management Branch, records.

2.6

**LIBRARY HOLDINGS AND CIRCULATION,  
MAUI COMMUNITY COLLEGE**

	Number of volumes, June 30	Circulation, year ended June 30
1993	41,391	32,975
1994	41,391	38,379
1995	42,523	34,558
1996	43,595	21,219
1997	45,808	35,704
1998	46,649	37,575
1999	48,546	25,698
2000	49,812	20,482

SOURCE: University of Hawaii at Manoa, University Libraries, records.

## 2.7

**DEGREES AND CERTIFICATES EARNED BY DEGREE AND PROGRAM  
MAUI COMMUNITY COLLEGE, FISCAL YEARS ENDING JUNE 30**

PROGRAM	DEGREES/CERTIFICATES OFFERED		TOTAL EARNED				ASSOCIATE DEGREES				CERTIFICATES OF ACHIEVEMENT			
	(Fall 1999)		1998		1999		2000		1998		1999		2000	
	CA	CC	CA	CC	CA	CC	CA	CC	CA	CC	CA	CC	CA	CC
TOTAL	AA/AS/AAS	CA	CC	216	206	257	137	123	172	79	82	85		
General & Pre-Professional Education	AA	-	-	56	45	81	56	45	81	-	-	-		
Vocational Education	AS/AAS	CA	CC	160	160	176	81	78	91	79	82	85		
Business Education	AAS	CA	CC	53	32	22	32	20	18	21	12	10		
Accounting	AAS	CA	-	33	19	10	20	14	4	13	5	6		
Business Careers	AAS	CA	CC	2			2							
Hotel Operations	AAS	CA	CC	7	5	11	3	3	7	4	2	4		
Office Administration & Technology	AAS	CA	CC	11	8	11	7	3	7	4	5	4		
Food Service Programs (Food Service)	AAS	CA	CC	24	45	47	11	17	19	13	28	28		
Health Service Programs (Nursing) <sup>1</sup>	AS	CA	CC	54	57	57	22	21	23	32	36	34		
Public Service Programs	AAS	CA	CC	18	15	15	11	14	11	7	1	4		
Administration of Justice	AAS	CA	-	9	6	3	5	5	2	4	1	1		
Human Services	AAS	CA	CC	9	9	12	6	9	9	3		3		
Technology Programs	AAS	CA	CC	11	11	25	5	6	20	6	5	5		
Agricultural Careers	AAS	CA	CC	1	1	2	1	1	1			1		
Auto Body Repair & Painting	AAS	CA	CC	1	1									
Automotive Technology	AAS	CA	-	7	3		3	2		4	1			
Building Maintenance	-	CA	CC	1	1	2	-	-	-	1	1	2		
Carpentry Technology	AAS	CA	-		1									
Drafting Technology	-	CA	-		1	1								
Electronic & Computer Engineering Technology <sup>2</sup>	AS	CA	-		1	13			13					
Fashion Technology	AAS	CA	CC	1	2	1	1	2	1					
Welding Technology	-	CA	CC	1								1		

NOTES: AA = Associate in Arts, AS = Associate in Science, AAS = Associate in Applied Science, CA = Certificate of Achievement, and CC = Certificate of Completion or Certificate of Competence. Certificate of Completion/Certificate of Competence counts are not published.

<sup>1</sup>The AS in nursing makes students eligible for the Registered Nursing Examination; the CA in nursing allows students to take the Practical Nursing Examination. A CC in nursing is Nurse Aide Training. <sup>2</sup> Program began in 1997.

SOURCES: University of Hawaii, Institutional Research Office, "Master List of Curricula Offered, University of Hawaii," Fall 1999 (degrees offered); "Degrees and Certificates Earned, University of Hawaii Community Colleges," Fiscal Year 1997-98, Fiscal Year 1998-99 and Fiscal Year 1999-2000 (degree counts) (<http://www.hawaii.edu/cgi-bin/iro/maps/dgcy00.pdf>).

2.8

**UNIVERSITY OF HAWAII DISTANCE LEARNING  
COURSE AND REGISTRATION COUNTS,  
BY ISLAND**

*Number of courses being taken, and total headcount*

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Island	FALL 1999	
	Courses	Registrations
Maui	110	786
Lanai	9	16
Molokai	19	109
<b>Subtotal Maui County</b>	<b>138</b>	<b>911</b>
Hawai'i North	3	30
Hawai'i West	93	1,014
Hawai'i, Hilo	45	112
Island of Hawai'i	141	1,156
Kauai	82	364
Oahu	159	1,826
Military	71	1,180
In-state, multiple	5	152
Out of state	25	268
Unspecified locations	15	84
<b>Total</b>	<b>636</b>	<b>5,941</b>

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NOTE: Except for the overall total course count, both courses and individual students are double counted. For example, if someone were taking 3 courses at once, they would be counted three times in the registration column. Similarly, if someone on Maui and someone else on Molokai were taking the same course, the course would be counted twice.

Source: University of Hawaii, Institutional Research Office, "Fall 2000 Distance Learning Report"  
(<http://www.hawaii.edu/ovppp/distlearn/policy.htm>)

2.9

**MAUI COMMUNITY COLLEGE,  
NUMBER OF STUDENTS AND FACULTY**

<b>Fall Semester</b>	<b>Total</b>	<b>Full-Time</b>	<b>Part-Time</b>
<b>Students Enrolled</b>			
1987	1,915	628	1,287
1988	1,995	668	1,327
1989	2,074	741	1,333
1990	2,337	763	1,574
1991	2,589	792	1,797
1992	2,688	851	1,837
1993	2,578	870	1,708
1994	2,809	912	1,897
1995 r	2,765	985	1,780
1996 r	2,854	1,046	1,808
1997 r	2,787	1,062	1,725
1998 r	2,849	1,074	1,775
1999	2,862	1,013	1,849
2000	2,678	998	1,680
<b>Number of Faculty</b>			
1987	115	61	54
1988	115	74	51
1989	123	71	52
1990	134	74	60
1991	144	85	59
1992	153	82	71
1993	156	85	71
1994	157	84	73
1995	148	80	68
1996	161	83	78
1997	161	83	78
1998	162	86	76
1999p	165	89	76
2000	154	86	68

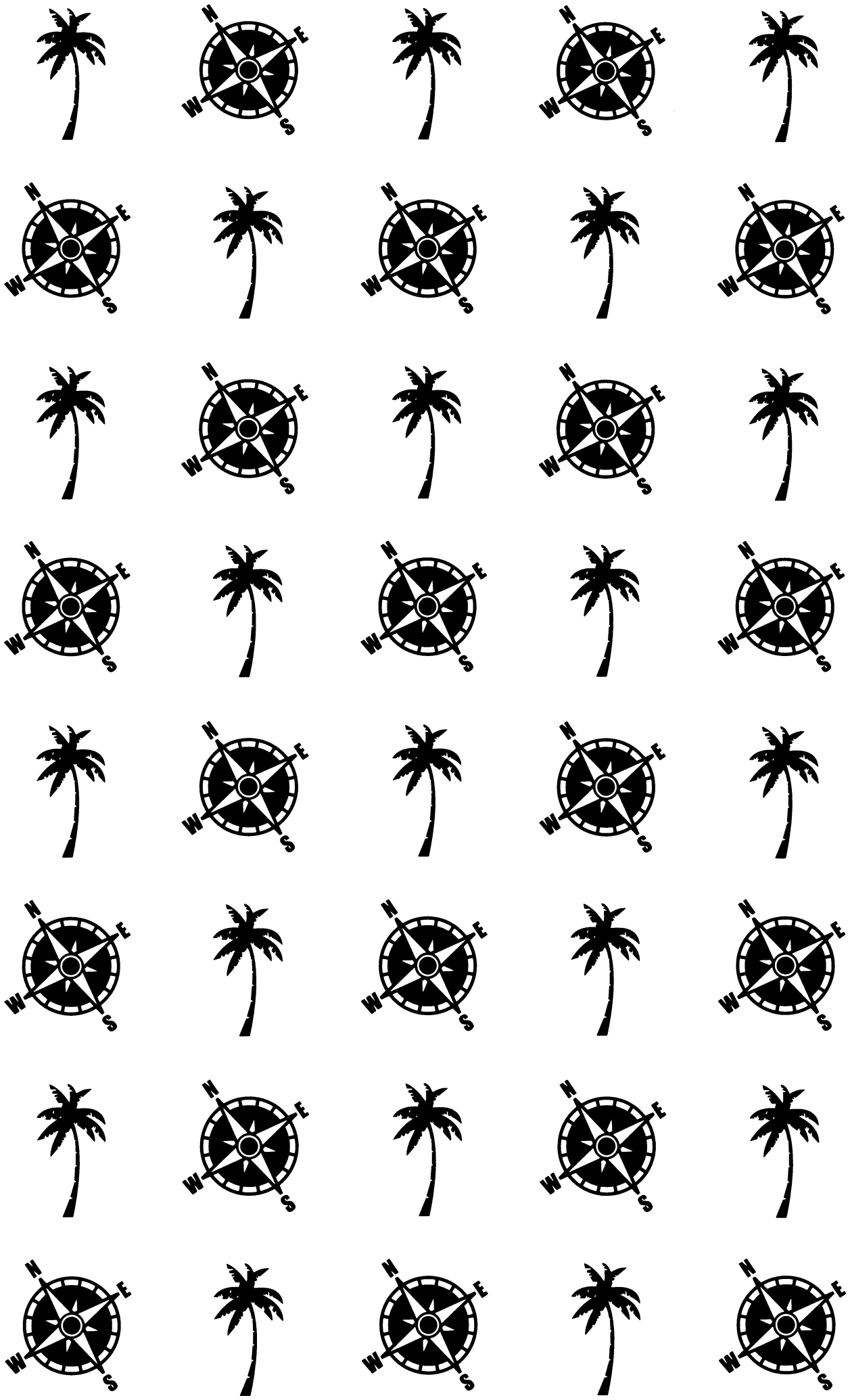
NOTE: Beginning with 1995, two additional categories of student are included in the enrollment figures. The categories are early admission (high school students taking Maui Community College classes) and concurrent (students primarily registered at another University of Hawaii campus who are taking at least one Maui Community College class). These categories resulted in 25 additional students in 1995, 39 in 1996, 47 in 1997 and 52 additional students in 1998.

p: preliminary.

SOURCES: University of Hawaii, Institutional Research Office, "Fall Enrollment Report, University of Hawaii, Community Colleges, Fall 1999," "Faculty and Staff Report, University of Hawaii, Fall 1998;" Maui Community College, Personnel Office.



# Geography & Land Use



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### Section 3

## GEOGRAPHY & LAND USE

This section presents statistics on physical geography, water areas, climate, land use, value and ownership. Information on agriculture, forests and parks may be found in other sections of the book.

Maui County consists of four of the major eight islands in the State of Hawaii: Maui, Molokai, Lanai and Kahoolawe. The total land area of Maui County is 1,171.0 square miles with a general coastline of 210 statute miles. The highest peak in the county is Haleakala (Red Hill), Maui, at 10,023 feet; the largest stream is Kalialinui-Waiale Gulch, Maui, 18 miles; the most extensive lake or similar body, Kealia Pond (Marsh), Maui, 500 acres and the highest waterfall (in the county and in the state) is Kahiwa, Molokai, a 1,750-foot cascade.

The climate of Maui County is defined by average temperatures ranging from 79.2 degrees in the warmest month at Kahului Airport, Maui, to 71.5 degrees in the coolest month. Rainfall varies greatly. Annual averages for rainfall in the county range from 83 inches in Hana, to 37 inches in Lanai City, to 13 inches in Kihei.

The State Land Use Commission has zoned 25,516 acres in Maui County as urban, 310,396 as conservation, 406,792 as agricultural and 8,196 as rural.

In the State of Hawaii, land ownership data indicates that the federal government owns 4.6 percent of all land, the state and counties own 33.6 percent, and private owners (chiefly large estates) have 61.8 percent. The island of Kahoolawe (28,800 acres) was transferred from the federal government to the State of Hawaii in May, 1994.

Considerable caution is necessary in comparing statistics from different sources on land use and ownership. Variations in definitions and survey dates seriously affect comparability.

Sources important to these tables are the U.S. National Climatic Data Center, the Atlas of Hawaii, 3rd edition, published by the University of Hawaii Press in 1998; Government in Hawaii, published annually by the Tax Foundation of Hawaii; and The State of Hawaii Data Book 1997, published annually by the Department of Business, Economic Development and Tourism.

### 3.1.1

## LAND AND WATER AREA OF COUNTIES AND ISLANDS

County or Island	SQUARE MILES			ACRES <sup>1</sup>	
	Total	Land <sup>2</sup>	Inland Water <sup>3</sup>	Total	Land
<b>State Total</b>	6,470.8	6,425.2	45.6	4,141,312	4,112,128
<b>Counties<sup>4</sup></b>					
Hawaii	4,035.2	4,034.2	1.0	2,582,528	2,581,888
Maui	1,171.0	1,161.6	9.4	749,440	743,424
Kalawao	14.3	13.3	1.0	9,152	8,512
Honolulu <sup>5</sup>	620.5	596.3	24.2	397,120	381,632
Kauai <sup>5</sup>	629.8	619.8	10.0	403,072	396,672
<b>Islands<sup>4</sup></b>					
Hawaii	4,035.2	4,034.2	1.0	2,582,528	2,581,888
Maui <sup>6</sup>	734.5	728.6	5.9	470,080	466,304
Kahoolawe	45.9	45.0	0.9	29,376	28,800
Lanai	141.2	140.4	0.8	90,368	89,856
Molokai	263.7	260.9	2.8	168,768	166,976
Oahu	617.6	593.6	24.0	395,264	379,904
Kauai	558.2	549.4	8.8	357,248	351,616
Niihau <sup>7</sup>	71.1	70.0	1.1	45,504	44,800
Kaula	0.4	0.4	–	256	256

<sup>1</sup> Areas in acres were calculated directly from the figures shown for square miles; these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. One square mile = 640 acres.

<sup>2</sup> 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.

<sup>3</sup> Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth 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.

<sup>4</sup> Because of rounding, island figures may not add to county figures.

<sup>5</sup> Reflect inclusion of Kaula in the County of Kauai rather than in the City and County of Honolulu (Act 245, S.L.H. 1988, approved June 9, 1988).

<sup>6</sup> Molokini, offshore of Maui, not measured; other sources give the area of Molokini as 18.6 acres (0.03 square miles).

<sup>7</sup> Includes Lehua, previously reported as 243 acres (0.38 square miles).

SOURCE: Hawaii State Department of Planning and Economic Development, *Remeasurements of the Area of Hawaii, 1982* (Statistical Memorandum 83-6, May 18, 1983); Hawaii State Department of Business and Economic Development, *State of Hawaii Data Book, 1989* (November 1989), table 132.

### 3.1.2

## GENERAL COASTLINE AND TIDAL SHORELINE OF HAWAII, BY COUNTY AND ISLAND

	GENERAL COASTLINE <sup>1</sup>		TIDAL SHORELINE <sup>2</sup>	
	Statute Miles	Kilometers <sup>3</sup>	Statute Miles	Kilometers
<b>State Total</b>	750	1,207	1,052	1,693
<b>Counties</b>				
Hawaii	266	428	313	504
Maui <sup>4</sup>	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
<b>Islands</b>				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80

<sup>1</sup> Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

<sup>2</sup> 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.

<sup>3</sup> Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mile = 1.609 km.

<sup>4</sup> Maui totals include Kalawao.

SOURCE: Hawaii State Department of Planning and Economic Development, *Hawai'i, the Natural Environment* (1974), p. 13; Hawaii State Department of Business and Economic Development, *The State of Hawaii Data Book, 1989* (November 1989), table 131.

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### 3.1.3

## MAJOR NAMED WATERFALLS, MAUI COUNTY

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<b>Waterfall<sup>1</sup></b>	<b>Cascade Height (feet)</b>	<b>Horizontal Distance (feet)</b>	<b>Average Discharge (million gal/day)</b>
<b>Maui</b>			
Honokohau	1,120	500	26.6
Waihiumalu	400	150	
Waimoku	40	50	37.1
<b>Molokai</b>			
Kahiwa	1,750	1,000	
Papalaua	1,200	500	

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

SOURCE: U.S. Geological Survey, records; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

### 3.1.4

## ELEVATIONS OF MAJOR SUMMITS

*Elevation of the highest point on each island and other important peaks*

Island and Summit	Feet	Meters
<b>Hawaii</b>		
Mauna Kea <sup>1</sup>	13,796	4,205
Mauna Loa <sup>2</sup>	13,679	4,169
Hualalai	8,271	2,521
Kaunu o Kaleihoochie	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
<b>Kahoolawe</b>		
Puu Moaulanui	1,483	452
Puu Moaulaiki	1,434	437
<b>Molokini</b>		
	160	49
<b>Maui</b>		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
<b>Lanai</b>		
Lanaihale	3,366	1,026
<b>Molokai</b>		
Kamakou	4,961	1,512
Olokui	4,606	1,404
Kaunuohua	4,535	1,382
Kalaupapa Lookout	1,600	488
Mauna Loa (Kukui)	1,430	436
<b>Oahu</b>		
Kaala	4,003	1,220
Puu Kalena	3,504	1,068
Konahuanui	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Koko Head	642	196
Punchbowl	500	152

### 3.1.4

CONTINUED

Island and Summit	Feet	Meters
<b>Kauai</b>		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Sleeping Giant (Nonou)	1,241	378
<b>Niihau</b>		
Paniau	1,250	381
<b>Lehua</b>		
	699	213
<b>Kaula</b>		
	548	167
<b>Nihoa</b>		
Millers Peak	903	275
<b>Necker Island</b>		
Summit Hill	276	84
<b>French Frigate Shoal</b>		
La Perouse Pinnacles	120	37
<b>Gardner Pinnacles</b>		
	190	58
<b>Maro Reef</b>		
	Awash	Awash
<b>Laysan Island</b>		
	40	12
<b>Lisianski Island</b>		
	40	12
<b>Pearl and Hermes Atoll</b>		
	10	3
<b>Midway Islands</b>		
	12	4
<b>Kure Atoll</b>		
	20	6

<sup>1</sup> According to the 1991 *Guinness Book of World Records* (p. 142), "The world's tallest mountain measured from its submarine base (3,280 fathoms) in the Hawaiian Trough to its peak is Mauna Kea ... with a combined height of 33,476 ft., of which 13,796 ft. are above sea level."

<sup>2</sup> *Guinness* (p. 142-143) describes Mauna Loa as having "dimensions, but not height, [which] exceed those of Mt. Everest .... The axes of its elliptical base, 16,322 ft. below sea level, have been estimated at 74 miles and 53 miles."

SOURCE: Hawaii State Department of Accounting and General Services, Survey Division, data provided April 21, 1992; U.S. National Cartographic Information Center, data provided October 11, 1978; U.S. Geological Survey topographic maps, 1981-1984; Hawaiian Government Survey (for Nihoa and Molokini); U.S.S. Tanager survey, 1923 (for Necker Island, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes Atoll and Kure Atoll).

## 3.1.5

## MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

	State	Hawaii	Maui	Kahoolawe	Lanai	Molokai	Oahu	Kauai	Niihau
Extreme Length (miles)		93	48	11	18	38	44	33	8
Extreme Width (miles)		76	26	6	13	10	30	25	6
Miles of Sea Cliffs with Heights of 1,000 Feet or More <sup>1</sup>	33	4	–	–	1	14	–	11	3
Miles from Coast of Most Remote Point	28.5	28.5	10.6	2.4	5.2	3.9	10.6	10.8	2.4
Percent of Area Within 5 Miles of Coast	48.6	30.0	76.1	100.0	100.0	100.0	79.0	65.0	100.0
Percent of Area with Elevation of Less than 500 Feet	20.8	12.0	24.9	38.9	24.8	37.3	45.3	35.6	78.2
Percent of Area with Elevation of 2000 Feet or More	50.9	68.4	41.4	0.0	6.3	17.8	4.6	24.0	0.0
Approximate Mean Altitude (feet)	3030	3950	2390	600	1140	1150	860	1380	530
Percent of Area with Slope Less Than 10 Percent	63.5	76.0	38.5	60.0	61.0	53.0	42.5	33.5	68.0
Percent of Area with Slope 20 Percent or More	17.0	4.0	36.0	9.0	16.0	26.0	45.5	50.5	12.5

<sup>1</sup> According to Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by *The Guinness Book of World Records* (1991 edition, p. 148) as "the highest sea cliffs yet pinpointed anywhere in the world."

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



3.1.6

TEMPERATURE AND PRECIPITATION  
AVERAGES AND EXTREMES, MAUI COUNTY

	STATION DATA				TEMPERATURES				Record High		Record Low			
	Elevation ft.	1st Year of Record	Daily Average		Warmest Month		Coolest Month		°F	Date	°F	Date		
			High	Low	High	Low	High	Low					Month	Month
<b>Maui</b>														
Haleakala Ranger Station	6,960	1949	62.6	44.4	66.0	47.4	Aug	58.9	41.3	Feb	80	07/25/1953	27	02/26/1965
Hana Airport	61	1950	80.9	67.3	84.0	69.7	Sep	78.2	63.8	Jan	94	11/03/1979	50	01/09/1953
Kahului Airport	48	1954	83.7	67.4	87.5	70.2	Sep	80.1	63.4	Feb	97	08/31/1994	48	01/20/1969
Kailua (NE Maui, inland)	700	1949	77.2	64.3	80.2	66.8	Sep	75.2	61.0	Feb	88	09/18/1968	50	02/21/1962
Lahaina	45	1949	84.9	66.5	88.2	69.5	Sep	81.4	63.1	Feb	97	08/18/1985	52	12/23/1962
<b>Molokai</b>														
Molokai Airport	450	1953	81.5	67.6	85.6	71.0	Sep	77.4	63.1	Feb	96	04/14/1974	46	03/04/1987
<b>Lanai</b>														
Lanai Airport	1,300	1949	79.0	62.5	82.5	65.4	Aug	75.6	58.7	Jan	89	09/05/1954	46	01/22/1955
Lanai City	1,620	1949	75.4	62.5	78.6	65.2	Sep	72.6	59.1	Feb	89	09/07/1994	47	02/22/1973
	Annual Average				PRECIPITATION				Driest Month		1 Day Record			
	in.	in.	Days Precip. >=0.01 in.	Wettest Year	Driest Year	Wettest Month	Driest Month	in.	Month	in.	Month	Date		
<b>Maui</b>														
Haleakala Ranger Station	53.94	145	121.16	1980	17.71	1962	Jan	1.22	Jun	18.50	Jun	01/09/1980		
Hana Airport	81.90	271	126.23	1965	49.64	1953	Mar	4.07	Jun	17.57	Jun	04/16/1968		
Kahului Airport	19.78	35	40.63	1989	8.56	1984	Jan	0.26	Jun	5.82	Jun	12/21/1955		
Kailua (NE Maui, inland)	122.46	176	161.82	1969	79.20	1953	Nov	7.27	Jun	15.20	Jun	11/15/1965		
Lahaina	15.68	20	34.78	1950	3.20	1953	Jan	0.08	Jun	7.01	Jun	12/27/1983		
<b>Molokai</b>														
Molokai Airport	26.81	106	43.70	1963	12.92	1984	Jan	0.57	Jun	9.03	Jun	02/12/1989		
<b>Lanai</b>														
Lanai Airport	19.95	30	47.66	1951	5.40	1994	Dec	0.52	Aug	10.45	Aug	11/10/1955		
Lanai City	36.24	114	66.87	1968	16.04	1953	Jan	1.27	Jun	11.25	Jun	11/10/1955		

SOURCE: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Western Regional Climate Center, "Hawaii Climate Summaries."

3.1.7

MONTHLY RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS  
IN MAUI COUNTY

Station	1999												Departure from Normal	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Annual
<b>RAINFALL<sup>1</sup></b>														
<b>Maui</b>														
Haleakalala R.S.	6.35	5.10	7.89	2.06	0.63	0.00	0.30	1.00	0.55	1.00	3.36	9.50	37.74	-6.98
Hana Airport	11.75	6.33	6.27	6.04	1.53	3.15	5.21	3.91	4.00	2.67	2.65	6.93	60.44	-22.72
Kahului Airport (WSO)	2.01	1.70	1.48	0.34	0.51	0.09	0.01	0.31	0.03	0.41	0.22	2.55	9.66	-11.26
Kapalua-West Maui Airport	3.27	2.29	4.25	1.76	0.66	0.48	0.85	1.31	0.39	0.75	0.59	5.06	21.66	NA
Kihei	4.06	0.53	0.08	0.00	0.66	0.00	0.00	0.00	0.00	0.60	0.01	1.19	7.13	7.92
Kula Branch Stn.	2.50	1.70	0.47	1.63	0.96	0.03	0.24	0.37	0.18	1.17	0.12	3.01	12.37	NA
Kula Hospital	2.11	1.42	0.33	2.26	0.98	0.01	0.66	0.79	1.21	4.83	0.52	2.88	18.00	NA
Lahaina	3.49	1.09	0.15	0.11	0.05	0.00	0.00	0.00	0.00	0.35	0.35	0.52	2.62	-13.89
Makena Golf Course	2.79	0.75	0.01	1.04	0.63	0.00	0.48	0.07	0.45	2.39	0.05	1.50	10.16	NA
Puu Kukui	36.00	55.00	79.00	30.00	12.00	28.00	22.00	28.00	13.00	11.60	19.28	46.00	379.88	NA
Wailuku	5.24	3.81	1.69	0.58	0.45	0.19	0.53	0.89	0.20	0.81	0.48	3.70	18.57	-14.37
<b>Molokai</b>														
Kalaupapa	5.77	3.19	3.06	3.35	1.33	0.82	2.03	1.45	0.82	1.14	1.16	6.69	30.81	-13.79
Molokai Airport	3.18	1.17	1.92	0.58	0.68	0.53	1.21	0.12	0.29	0.66	0.23	2.95	13.52	-15.15
<b>Lanai</b>														
Lanai Airport	1.93	0.22	0.06	0.12	1.09	0.00	0.00	0.08	0.03	0.56	0.17	1.02	5.28	NA
Lanai City	1.82	1.52	1.24	3.57	1.35	0.40	0.87	0.56	0.09	1.70	0.72	1.80	15.64	-23.01

NA: Not available.

<sup>1</sup> Precipitation for month.

### 3.1.7

CONTINUED

1999

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>TEMPERATURE<sup>2</sup></b>													
<b>Maui</b>													
Haleakalala R.S.	52.0	49.9	50.9	50.0	54.7m	57.7	57.0	57.7	53.3m	55.7	55.3	51.2	53.8m
Hana Airport	71.9m	71.6m	70.7	70.4	72.9	72.8m	73.2m	74.0m	73.5m	m	72.5m	71.0	m
Kahului Airport	71.3	71.0	72.9	73.7	75.7	77.0	77.5	78.3	78.6	76.5	75.2	72.9	75.1
Kapalua-West Maui Airport	71.5	71.1m	71.8	73.1	75.5	76.1	76.4	77.2	77.5	76.4	74.6	72.6	74.5m
Kula Branch Stn.	60.8m	60.3m	61.1	61.8	63.0	64.1	65.7	66.0m	65.5	65.1	63.1	61.8	63.2m
Kula Hospital	60.4m	60.0m	60.6	61.5	62.8	63.9	65.0	65.9	65.3	64.3	62.4m	61.3	62.8m
Lahaina	m	m	74.1m	75.3m	m	77.9m	m	m	79.5m	m	m	m	m
Makena Golf Course	71.8	71.5	72.7	73.5	76.3	76.6	77.1	77.2	77.0	75.7m	74.3	73.6	74.8m
Puukolii	m	71.0m	72.0m	73.6m	m	76.6m	m	m	m	m	m	m	m
<b>Molokai</b>													
Molokai Airport	70.7	70.5	71.4	72.5	74.2	75.3	76.4	77.8	77.0	74.8	73.9	71.4	73.8
<b>Lanai</b>													
Lanai Airport	68.1	68.9	68.1	69.1	70.1	73.1	73.4m	73.7m	73.3	72.6	70.9	69.8	70.9m
Lanai City	65.8	65.8	65.9m	66.5	68.4m	69.2m	70.1m	71.5	71.3m	69.9m	68.7	67.4m	68.4m

m: Insufficient or partial data; m appears alone if 10 or more daily values are missing. t: Trace precipitation.

<sup>2</sup>Average temperature for month.

SOURCE: U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, National Climatic Data Center, *Climatological Data Annual Summary, Hawaii and Pacific*, 1999.

### 3.1.8

## ANNUAL RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS, MAUI COUNTY

Station	1993	1994	1995	1996	1997	1998	1999
<b>ANNUAL RAINFALL</b>							
<b>Maui</b>							
Haleakala R.S.	43.07	43.98	20.28	58.46	70.19	34.16	52.24
Hana Airport	93.90	104.68	55.11	79.20	92.31	56.44	60.44
Kahului Airport (WSO)	12.69	13.93	13.45	31.00	23.08	6.76	9.66
Kapalua-West Maui Airport	27.94	26.90	19.42	38.34	36.79	19.20	21.66
Kihei	5.82	5.61	8.21	22.32	19.96	4.47	7.13
Kula Branch Stn.	28.73	17.03	13.40	39.06	29.95	10.12	12.38
Kula Hospital	28.73	22.97	25.92	44.57	37.66	11.59	18.00
Lahaina	11.76	8.02	6.30	22.81	16.68	1.86	2.62
Makena Golf Course	10.20	7.95	14.90	30.42	23.32	5.58	10.16
Puukolii	24.81	22.09	12.03	29.53	27.34	14.81	m
Puu Kukui	100.68	318.50	129.50	114.20	407.65	446.45	379.88
Wailuku		34.76	36.74	47.00	49.00	17.16	18.57
<b>Molokai</b>							
Kalaupapa	35.39	43.25	38.87	12.00	61.66	m	30.81
Molokai Airport	19.26	16.61	18.92	38.45	33.91	12.66	13.52
<b>Lanai</b>							
Lanai Airport	12.78	5.40	13.36	43.70	20.91	10.69	5.28
Lanai City	29.25	m	22.27	65.78	42.76	19.85	15.64
<b>AVERAGE ANNUAL TEMPERATURE</b>							
<b>Maui</b>							
Haleakala R.S.	53.6	54.3m	54.9m	55.2m	54.5m	53.7	53.8m
Hana Airport	m	m	74.6m	75.1m	74.9m	74.0m	m
Kahului Airport (WSO)	75.9	76.4	76.9	77.0	76.7	75.1	75.1
Kapalua-West Maui Airport	m	75.3m	75.5	74.7m	75.5m	74.3m	74.5m
Kula Branch Stn.	63.3	63.9m	64.3m	64.1m	m	63.2m	62.2m
Kula Hospital	62.4	63.6m	64.0m	65.1m	64.1m	62.6m	62.8m
Lahaina	76.0	m	m	m	m	m	m
Makena Golf Course	74.4	75.2m	75.7m	m	75.3m	74.4m	74.8m
<b>Molokai</b>							
Molokai Airport	74.2	75.2m	74.5	74.9	74.4m	73.9	73.8
<b>Lanai</b>							
Lanai Airport	m	m	m	71.7m	71.4m	71.0m	70.9m
Lanai City	m	m	m	m	m	m	68.4m

m: Insufficient or partial data; m appears alone if 10 or more daily values are missing.  
NA: Not available.

SOURCE: U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, National Climatic Data Center, *Climatological Data, Annual Summary, Hawaii and Pacific*, 1991-1999.

### 3.2.1

## TRENDS IN REAL PROPERTY TAX BASE, MAUI COUNTY

*Gross valuation in thousands  
As of January 1 unless otherwise noted*

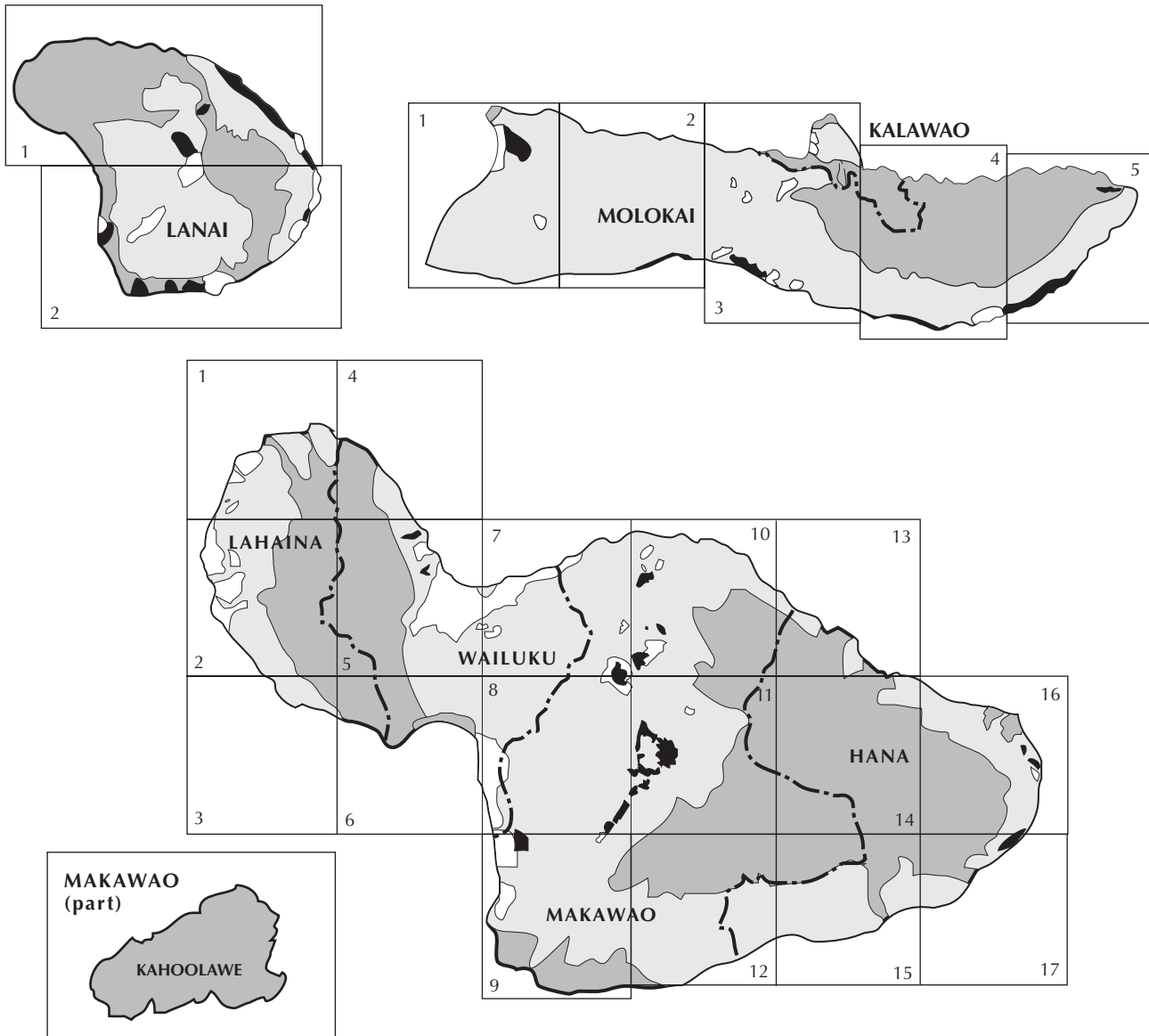
	1995	1996	1997	1998	1999	2000	2001
<b>Improved Residential</b>							
Land	1,670,430	1,621,075	1,566,094	1,592,910	1,568,983	1,629,787	1,778,535
Improvements	754,809	759,784	782,187	803,783	817,079	883,993	980,638
<b>Unimproved Residential</b>							
Land	305,936	286,264	276,221	258,915	282,747	327,362	312,704
Improvements	5,779	5,592	2,003	1,963	1,872	122	2,373
<b>Homeowner</b>							
Land	2,373,277	2,396,397	2,379,383	2,283,499	2,225,415	2,383,931	2,645,650
Improvements	1,887,626	1,986,856	2,063,164	2,080,557	2,143,098	2,253,350	2,494,417
<b>Hotel/Resort</b>							
Land	981,115	951,692	954,858	975,562	1,066,582	1,066,560	1,118,337
Improvements	2,306,606	2,210,710	2,358,814	2,346,723	2,681,250	2,841,594	3,173,969
<b>Apartment</b>							
Land	467,008	493,105	485,770	500,857	496,335	570,516	576,269
Improvements	1,156,355	1,173,281	1,075,849	1,032,209	1,096,639	1,220,117	1,429,635
<b>Commercial</b>							
Land	605,219	616,468	572,682	572,824	611,007	631,941	672,344
Improvements	345,798	361,715	372,886	382,338	391,668	393,739	471,205
<b>Industrial</b>							
Land	536,368	558,184	571,558	572,949	577,667	593,621	607,145
Improvements	358,267	373,097	396,415	415,419	411,845	416,315	439,790
<b>Agricultural</b>							
Land	922,961	892,324	865,718	880,448	894,855	944,608	1,024,089
Improvements	346,169	343,226	348,831	362,129	363,055	379,565	422,948
<b>Conservation</b>							
Land	216,124	210,447	240,398	244,888	271,170	278,967	289,466
Improvements	31,012	29,885	30,151	28,128	27,759	29,723	29,829
<b>TOTAL</b>	<b>15,270,859</b>	<b>15,270,102</b>	<b>15,342,982</b>	<b>15,336,101</b>	<b>15,929,026</b>	<b>16,845,811</b>	<b>18,469,342</b>

NOTES: Gross valuations do not include nontaxable properties. Detail may not add to totals due to rounding.





SOURCE: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii* (1994-1995 through 2000-2001 Tax Years, annual).

3.2.2

LAND USE DISTRICTS, MAUI COUNTY



LAND USE DISTRICTS

-  Urban District
-  Rural District
-  Agriculture District
-  Conservation District



District Boundary Map Index



Judicial District Boundary and Name

Scale: 1:593,260



0 4.5 9 miles

SOURCE: Hawaii State Land Use Commission, 1:24,000 and U.S. Department of Commerce, Bureau of the Census, TIGER/Line 1990.

### 3.2.3

## ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS

*Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes, as amended; all data are approximate*

Island	Total Area <sup>2</sup>	CLASSIFICATION BY STATE LAND USE COMMISSION <sup>1</sup>			
		Urban	Conservation	Agricultural	Rural
As of December 31, 2000					
Maui	465,800	21,403	194,836	245,783	3,778
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,257	38,197	46,639	2,407
Molokai	165,800	2,539	49,768	111,627	1,866
Hawaii	2,573,400	52,083	1,306,716	1,213,873	728
Oahu	386,188	99,686	156,618	129,884	-
Kauai	353,900	14,396	198,769	139,482	1,253
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other Islands <sup>3</sup>	1,900	-	1,900	-	-
<b>State Total</b>	<b>4,112,388</b>	<b>193,365</b>	<b>1,976,004</b>	<b>1,932,988</b>	<b>10,032</b>

<sup>1</sup> For definitions, see Hawaii Revised Statutes, Section 205-2.

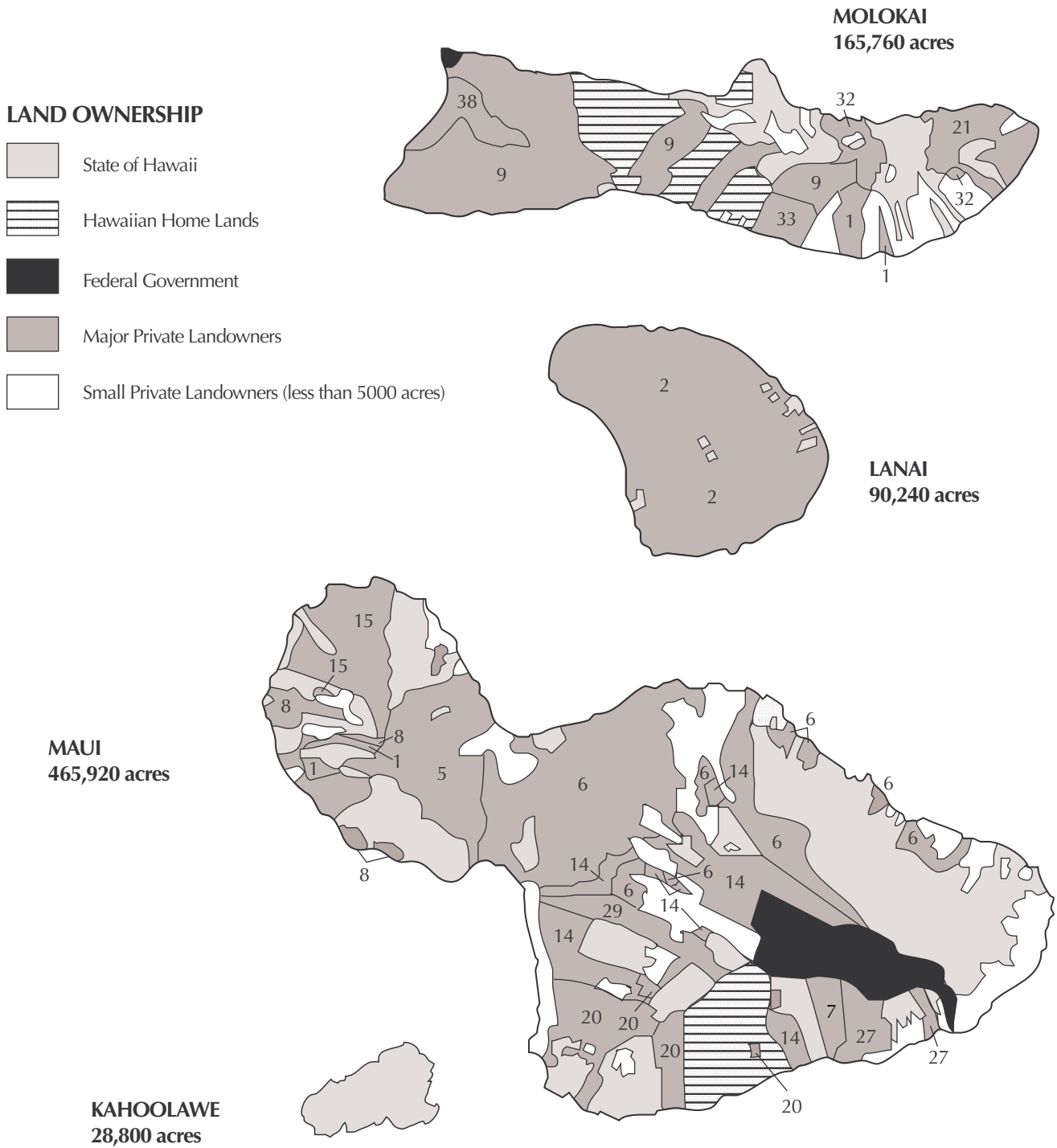
<sup>2</sup> These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census.

<sup>3</sup> The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

SOURCE: Hawaii State Department of Business, Economic Development & Tourism, Land Use Commission, records.

3.2.4

LAND OWNERSHIP, MAUI COUNTY



SOURCE: © University of Hawaii Press, *Atlas of Hawaii*, 2nd edition (1983); Kahoolawe Conveyance Commission, May 1994.



### 3.2.5

## LAND OWNERSHIP IN THE STATE OF HAWAII

Rank		Total Acreage
①	Kamehameha Schools/Bernice Pauahi Bishop Estate	341,546
②	Castle and Cooke, Inc.	149,000
3	Richard S. Smart (Parker Ranch)	140,000
4	S. M. Damon Estate	121,659
⑤	C. Brewer and Co., Ltd.	97,346
⑥	Alexander and Baldwin, Inc.	95,340
⑦	James Campbell Estate	79,039
⑧	AMFAC, Inc.	65,039
⑨	Molokai Ranch, Ltd.	56,217
10	*Gay and Robinson	55,800
11	Theo H. Davies and Co., Ltd.	50,887
12	*Niihau Ranch	46,065
13	McCandless Properties	34,418
⑭	Haleakala Ranch	32,701
⑮	Maui Land and Pineapple Co., Inc.	29,000
16	W. H. Shipman, Ltd.	23,350
17	*World Union Industrial Corp.	23,206
18	Yee Hop Ltd.	22,391
19	Grove Farm Co., Inc.	22,223
⑳	*Ulupalakua Ranch Inc.	20,313
21	Puu-O-Hoku Ranch	13,734
22	Queen's Medical Center	13,000
23	Jack B., Henry A., and Norman L. Greenwell	11,850
24	Kealakekua Ranch Ltd.	10,755
25	Queen Lili'uokalani Trust Estate	10,400
26	Transcontinental Development Corp.	10,242
㉑	Kaupo Ranch Ltd.	10,220
28	*Ala Moana Hawaii Properties	10,148
㉓	Kaono Ulu Ranch Co., Ltd.	8,791
30	Kahua Ranch	8,559
31	Hana Ranch	6,118
㉕	*Francis H. I. Brown, et al.	6,103
㉖	Kawela Plantation Development Assoc.	5,977
34	Zion Securities	5,941
35	*Lanikai Corp.	5,901
36	*Palani Land Trust II	5,756
37	*Eric A. and Augustus F. Knudsen Trusts	5,693
㉘	Kalua Koi Corp.	5,000

① = Owns land in Maui County.

\* Unconfirmed by owners: acreage based on compilation from REDI Atlas (Real Estate Data Corp.), or State of Hawaii Data Book, 1981 (Department of Planning and Economic Development).

Source: © University of Hawaii Press, *Atlas of Hawaii*, 2nd Edition, 1983.

### 3.2.6

## LAND IN HAWAII OWNED BY SELECTED LARGE LANDOWNERS

Ownership	1996	1997	1998	1999
Eight Large Landowners	999,063	996,226	992,998	981,844
Percent of Total Land Area <sup>1</sup>	24.3	24.2	24.2	23.9
Bernice P. Bishop Estate <sup>2</sup>	366,184	366,098	366,374	366,252
Richard S. Smart (Parker Ranch)	137,007	136,602	136,436	136,406
Castle and Cooke, Inc.	100,510	100,023	99,909	99,761
Dole Food Company, Inc.	28,746	28,745	28,685	28,518
Samuel M. Damon Estate	121,600	121,595	121,595	121,360
Alexander and Baldwin, Inc.	93,160	93,020	93,080	91,226
C. Brewer and Company, Ltd.	80,156	79,343	76,219	75,891
James Campbell Estate	71,700	70,800	70,700	62,400

<sup>1</sup> Based on area of 4,110,966 acres.

<sup>2</sup> As of July 1.

SOURCE: Department of Business, Economic Development & Tourism survey of major landowners.

### 3.2.7

## DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS

*The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified Native Hawaiians, who receive homestead leases and financial assistance from the Department*

	Maui	Moloka'i	Hawai'i	Kaua'i	O'ahu	State Total
Acres <sup>1</sup>	30,266	25,384	114,574	20,130	6,721	197,075
In Homestead Use	447	11,005	27,238	815	959	40,464
Homestead Leases	576	813	1,778	464	2,797	6,428
Residential	510	388	1,035	415	2,739	5,087
Agricultural	66	399	473	47	58	1,043
Pastoral	0	26	270	2	0	298
Applicant Waiting List <sup>2</sup>	5,743	1,630	11,120	3,385	7,284	29,162
Residential	2,723	711	4,839	1,527	6,014	15,814
Agricultural	2,684	780	5,130	1,671	1,270	11,535
Pastoral	336	139	1,151	187	0	1,813

<sup>1</sup> Rounded to nearest acre.

<sup>2</sup> Applicants may appear on waiting lists for more than one type of property; if so, they are counted more than once. The Department of Hawaiian Homelands estimated the unduplicated Statewide total number of applicants in 1994 at about 16,000. Data are subject to audit.

SOURCE: Hawaii State Department of Hawaiian Home Lands, *Annual Reports* and records.

## 3.2.8

## SINGLE FAMILY HOME AND CONDOMINIUM SALES BY AREA, MAUI COUNTY

Area	Number of Sales		Average Sales Price		Median Sales Price		Total Dollar Volume	
	2000 Sales	% Chg Last Yr	2000 Average	% Chg Last Yr	2000 Median	% Chg Last Yr	2000 Volume	% Chg Last Yr
<b>SINGLE FAMILY HOMES</b>								
Central	182	-6%	\$236,634	9%	\$215,000	6%	\$43,067,393	3%
Haiku	79	10%	\$435,646	5%	\$385,000	18%	\$34,416,070	15%
Hana	10	150%	\$417,300	-35%	\$304,000	-57%	\$4,173,000	62%
Honokohau	1	N/A	\$775,000	N/A	\$775,000	N/A	\$775,000	N/A
Kaanapali	21	-22%	\$868,905	14%	\$795,000	22%	\$18,247,000	-11%
Kapalua	11	175%	\$2,999,091	141%	\$1,675,000	30%	\$32,990,000	564%
Keanae	1	N/A	\$285,000	N/A	\$285,000	N/A	\$285,000	N/A
Kihei	186	1%	\$339,756	13%	\$256,000	2%	\$63,194,562	13%
Kipahulu	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Kula/Ulupalakua/Kanaio	119	16%	\$416,225	16%	\$339,800	10%	\$49,530,815	34%
Lahaina	28	-10%	\$321,750	-5%	\$260,000	-3%	\$9,009,000	-14%
Lanai	9	0%	\$200,111	61%	\$135,000	-4%	\$1,801,000	61%
Maalaea	2	N/A	\$1,920,000	N/A	\$1,920,000	N/A	\$3,840,000	N/A
Makawao/Olinda/Haliimaile	94	3%	\$294,180	23%	\$229,500	8%	\$27,652,950	27%
Maui Meadows	34	-26%	\$639,809	22%	\$539,750	27%	\$21,753,500	-10%
Molokai	3	200%	\$273,500	508%	\$165,000	267%	\$820,500	1723%
Nahiku	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Napili/Kahana/Honokowai	26	-28%	\$673,646	54%	\$395,000	60%	\$17,514,800	11%
Olowalu	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Pukalani	62	-5%	\$263,619	6%	\$261,000	4%	\$16,344,400	1%
Sprecklesville/Paia/Kuau	39	-24%	\$429,705	36%	\$259,700	11%	\$16,758,480	4%
Wailea/Makena	44	2%	\$1,549,170	48%	\$792,500	14%	\$68,163,500	51%
<b>Maui Summary:</b>	<b>951</b>	<b>-1%</b>	<b>\$452,510</b>	<b>27%</b>	<b>\$275,000</b>	<b>10%</b>	<b>\$430,336,970</b>	<b>25%</b>
<b>CONDOMINIUMS</b>								
Central	64	-9%	\$80,287	13%	\$82,125	40%	\$5,138,372	3%
Hana	1	N/A	\$73,000	N/A	\$73,000	N/A	\$73,000	N/A
Kaanapali	132	12%	\$437,599	1%	\$361,000	-9%	\$57,763,050	13%
Kapalua	73	46%	\$572,702	39%	\$450,000	17%	\$41,807,250	102%
Kihei	574	20%	\$156,120	10%	\$126,000	4%	\$89,612,620	32%
Kula/Ulupalakua/Kanaio	1	N/A	\$895,000	N/A	\$895,000	N/A	\$895,000	N/A
Lahaina	45	10%	\$298,861	25%	\$225,000	36%	\$13,448,750	38%
Lanai	6	-33%	\$988,333	-1%	\$907,500	14%	\$5,930,000	-34%
Maalaea	56	-28%	\$200,864	22%	\$190,000	19%	\$11,248,400	-12%
Napili/Kahana/Honokowai	350	-1%	\$202,998	14%	\$180,500	15%	\$71,049,400	13%
Pukalani	5	25%	\$280,500	34%	\$273,500	31%	\$1,402,500	68%
Sprecklesville/Paia/Kuau	4	33%	\$583,000	802%	\$730,000	914%	\$2,332,000	1102%
Wailea/Makena	145	2%	\$609,148	31%	\$400,000	21%	\$88,326,480	34%
<b>Maui Summary:</b>	<b>1456</b>	<b>8%</b>	<b>\$267,189</b>	<b>18%</b>	<b>\$181,750</b>	<b>14%</b>	<b>\$389,026,822</b>	<b>27%</b>

NOTE: In 2000, no single family home sales were reported in the Keanae and Maalaea areas, and no condominium sales were reported in the Hana, Kula/Ulupalakua/Kanaio, and Makawao/Olinda/Haliimaile areas.

N/A: Not applicable.

SOURCE: Maui Board of REALTORS, MLS Resale Data, December 2000.

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### 3.2.9

## FOREST ACREAGE, MAUI COUNTY

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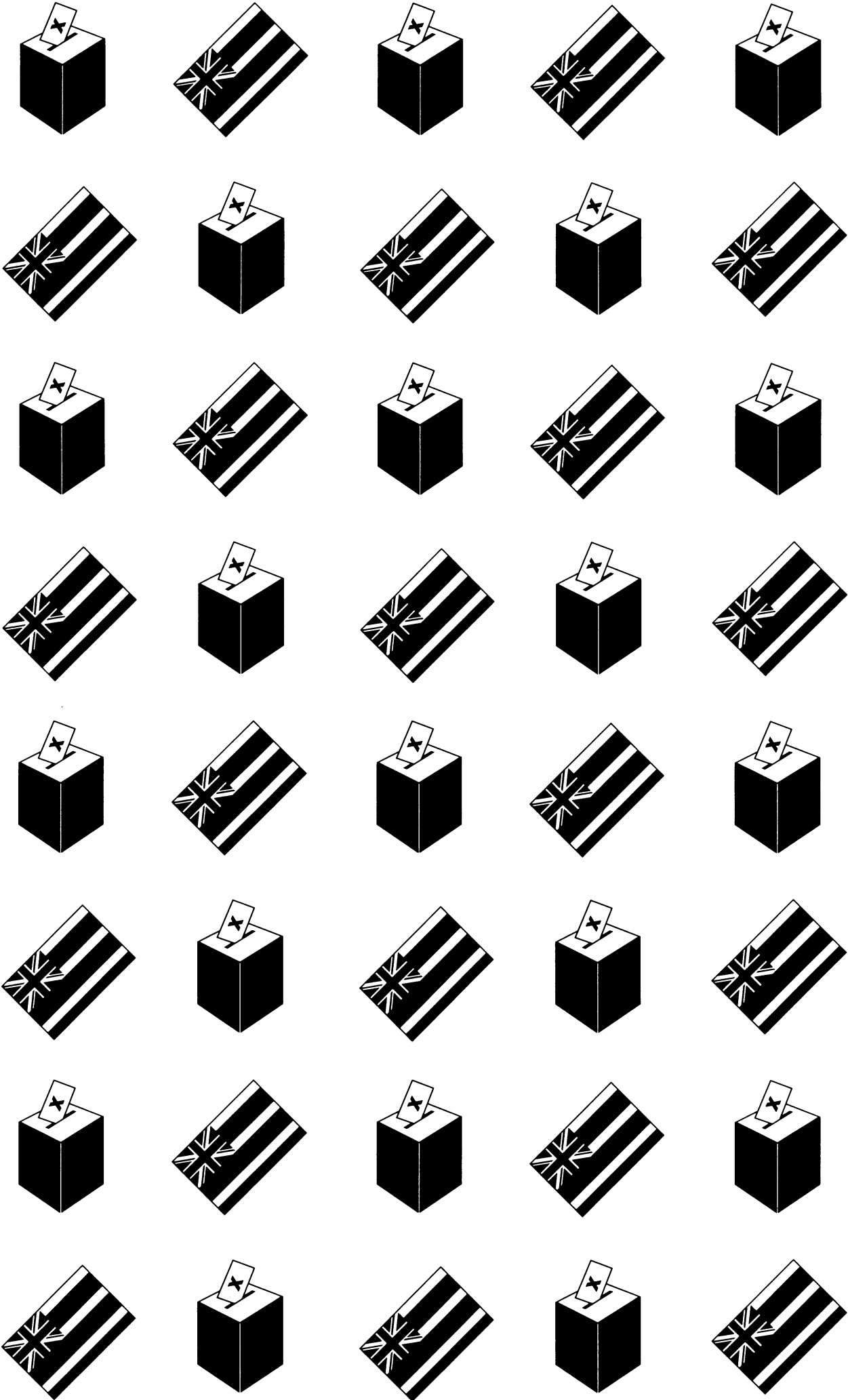
	Acreage
Conservation District Forest Land	
Total	148,587
Forest reserve land <sup>1</sup>	89,257
Private forest land <sup>2</sup>	59,330
Planted Forest	
Total	15,638
Planted in preceding year	35
Total standing	15,603
Natural Areas	
Number of areas	6
Acres	20,073

---

<sup>1</sup> State owned and privately owned lands under surrender agreement in forest reserve system.

<sup>2</sup> Private forest land within conservation district. The majority of these lands were previously in the forest reserve system.

SOURCE: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.



# Government

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## Section 4

# GOVERNMENT

This section presents data on election districts, registered voters and votes cast, county operating revenues, general excise and use tax base, real property valuations and rates, government debt, and the state and local tax burden.

Local government in the State of Hawaii is vested in one combined city and county (Honolulu, consisting of the Island of Oahu and outlying islets), three non-metropolitan counties (Hawaii, Kauai and Maui), and one area (Kalawao County) administered by the Hawaii State Department of Health. Separate municipal governments do not exist.

Official results for the primary, general and special elections are published by the Office of Elections. Reapportionment for Maui County was effected in 1992.

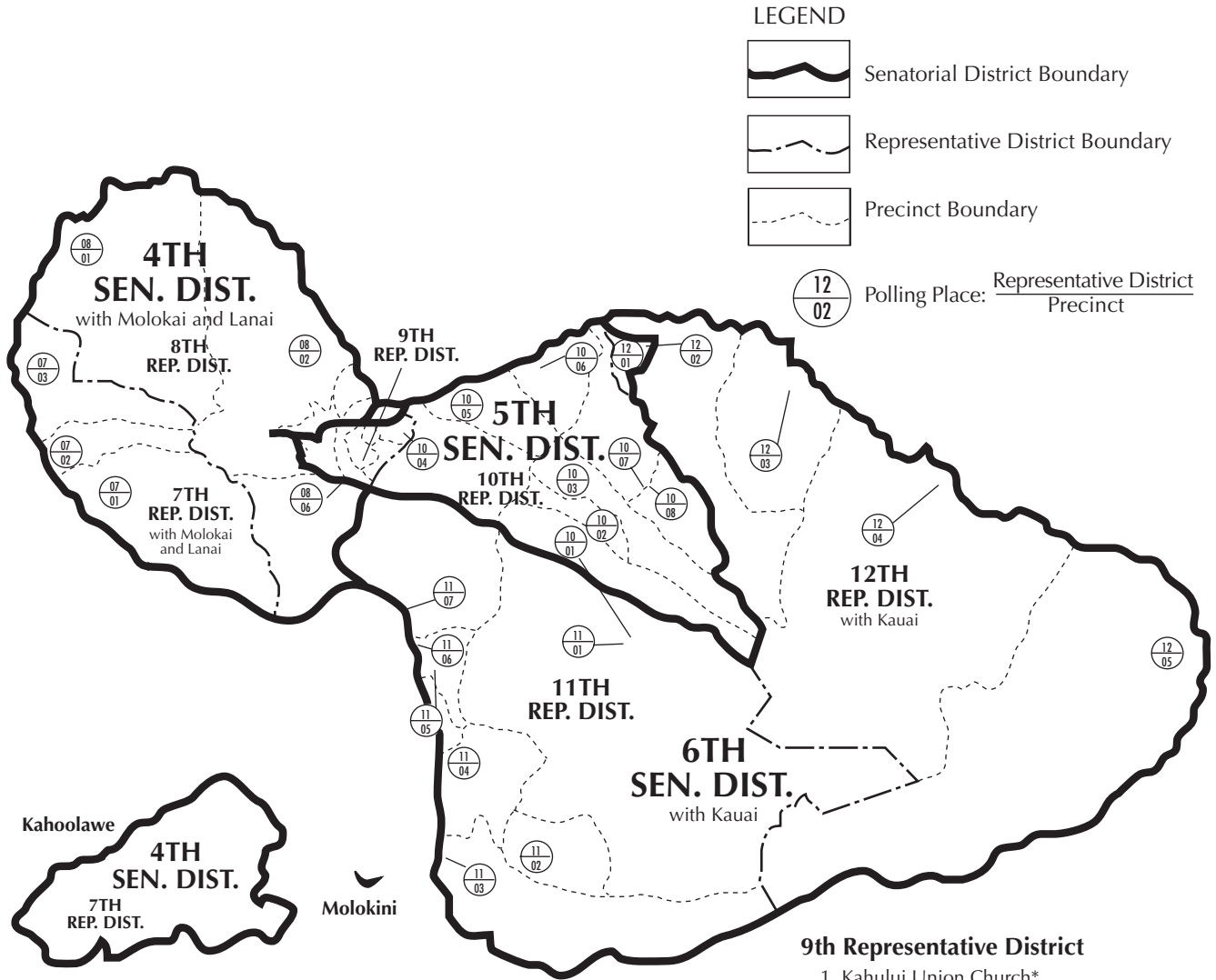
Important sources on statistics on government include: ***Government in Hawaii***, Tax Foundation of Hawaii; ***Revenue Trends*** (monthly tax collection reports), Hawaii State Department of Taxation; ***State of Hawaii Data Book***, Hawaii State Department of Business, Economic Development and Tourism; and ***Historical Statistics of Hawaii***, Robert C. Schmitt.

For more detail on government finances and spending, see ***Comprehensive Annual Financial Report***, County of Maui; and ***Consolidated Federal Funds Report***, U.S. Dept. of Commerce, Bureau of the Census, which has detail on Federal Government spending down to the county level. It is available on the Internet at <http://www.census.gov/govs/www/cffr.html>. The State of Hawaii does not report on its spending by county.

4.1

MAP OF ELECTION DISTRICTS

Islands of Maui and Kahoolawe



POLLING PLACES:

**7th Representative District**

- 1 Kamehameha III School
- 2 Lahaina Intermediate School
- 3 Lahaina Civic Center

**10th Representative District**

- 1 Kula Community Center
- 2 Mayor Hannibal Tavares Community Center
- 3 Pukalani Elementary School
- 4 Kahului Hongwanji Church
- 5 Kanoa Senior Citizen Center
- 6 Paia Community Center
- 7 Kalama Intermediate School
- 8 Eddie Tam Memorial Complex

**8th Representative District**

- 1 Honolulu Methodist Church
- 2 Waihee Elementary School
- 3 Wailuku Community Center\*
- 4 Baldwin High School\*
- 5 Wailuku Community Center\*
- 6 Waikapu Community Center

**11th Representative District**

- 1 Kula Elementary School
- 2 Merton Kekiwi Garage
- 3 Keawalai Congregational Church
- 4 Kamali'i Elementary School
- 5 Kihei Elementary School
- 6 Trinity Episcopal Church by the Sea
- 7 Kihei Community Complex Cafeteria

**9th Representative District**

- 1 Kahului Union Church\*
- 2 Kahului Elementary School\*
- 3 Lihikai Elementary/Int. School\*
- 4 Maui Waena Intermediate School\*
- 5 Iao Elementary School\*
- 6 Wailuku Elementary School\*
- 7 J. Walter Cameron Ctr. Auditorium\*

**12th Representative District**

- 1 Haiku Elementary School
- 2 Haiku Community Center
- 3 Kaulana Pueo Church
- 4 Keanae Elementary School
- 5 Hana High/Elementary School

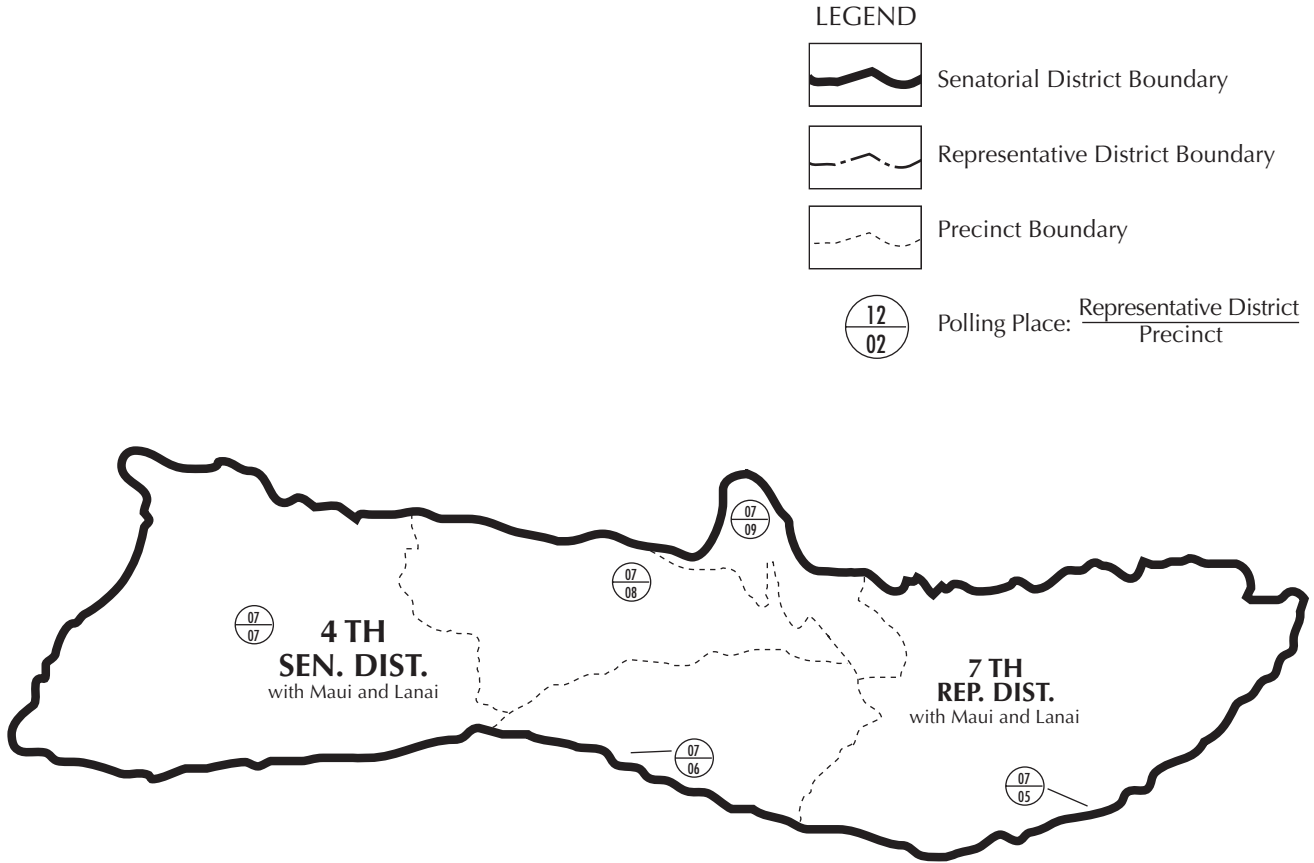
\* Not illustrated on map.

SOURCE: Hawaii State Office of the Lieutenant Governor, and Department of Budget and Finance, ICS Division, January 1992.

4.1

MAP OF ELECTION DISTRICTS

*Island of Molokai*



- POLLING PLACES: **7th Representative District**
- 5 Kilohana Community Center
  - 6 Kaunakakai School
  - 7 Maunaloa Community Center
  - 8 Kualapuu Elementary School
  - 9 McVeigh Social Hall

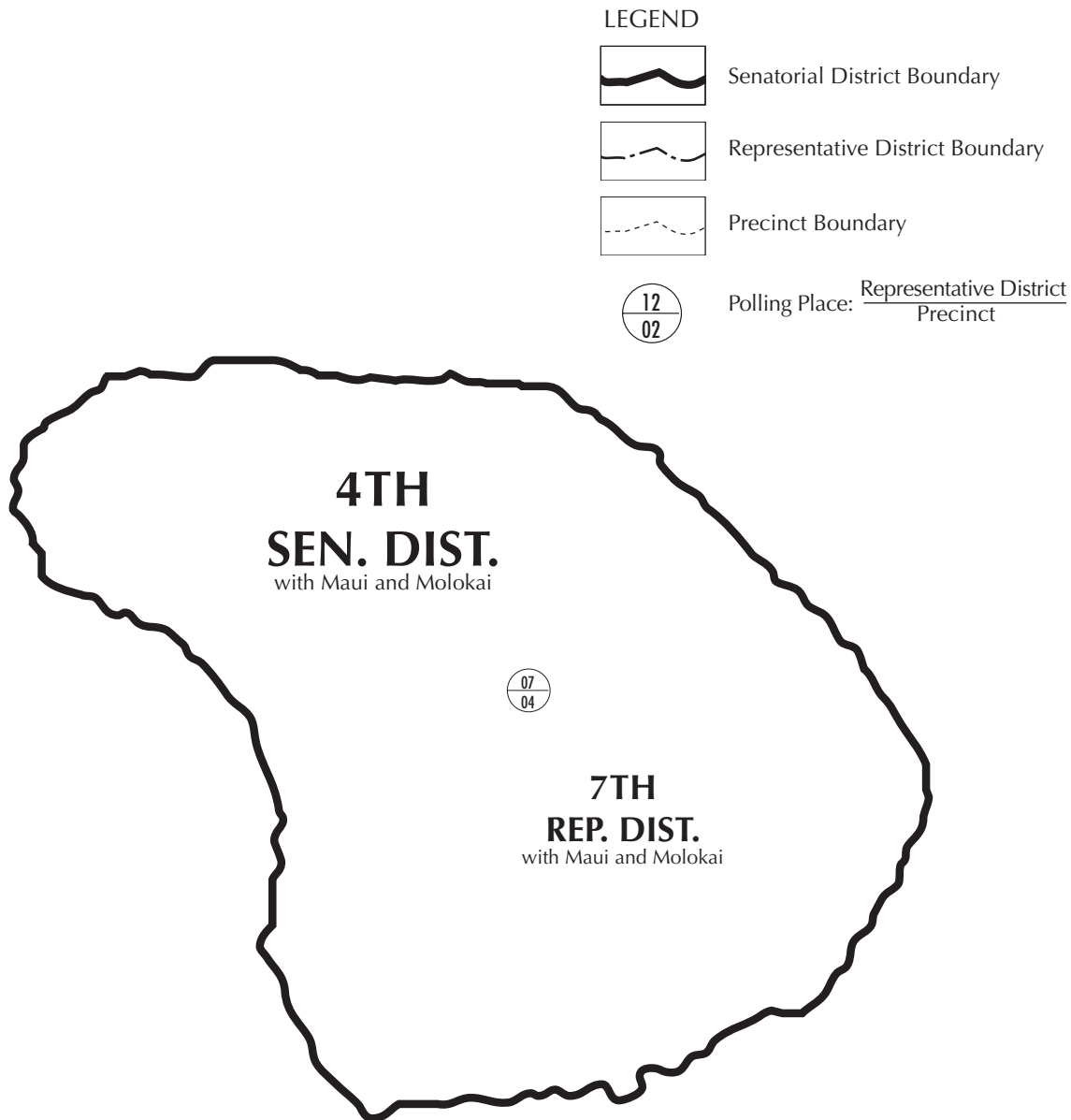
SOURCE: Hawaii State Office of the Lieutenant Governor, and Department of Budget and Finance, ICS Division, January 1992.



4.1

MAP OF ELECTION DISTRICTS

*Island of Lanai*



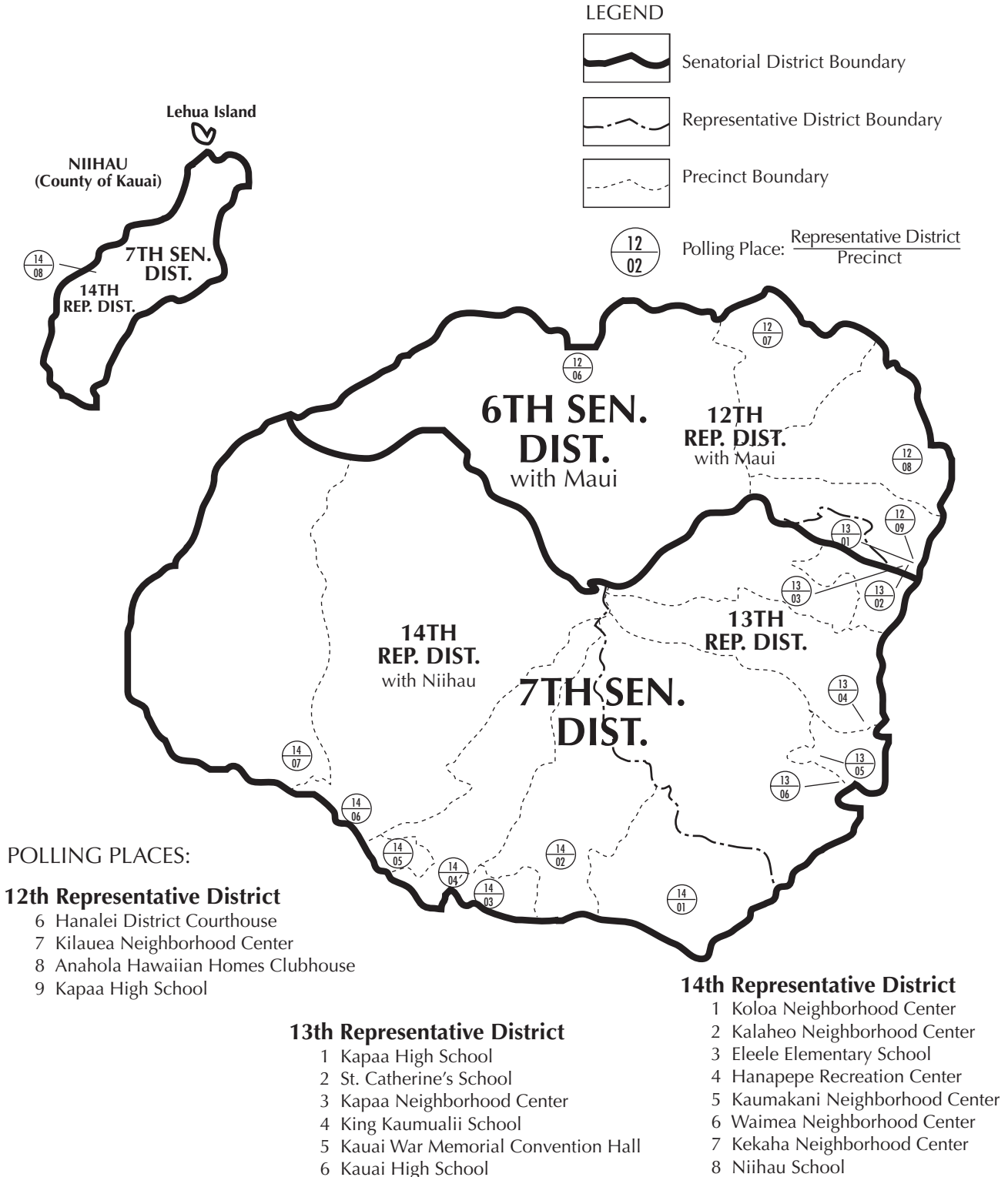
POLLING PLACE: **7th Representative District**  
4 Lanai High/Elementary School

SOURCE: Hawaii State Office of the Lieutenant Governor, and Department of Budget and Finance, ICS Division, January 1992.

4.1

MAP OF ELECTION DISTRICTS

*Islands of Kauai and Niihau*



SOURCE: Hawaii State Office of the Lieutenant Governor, and Department of Budget and Finance, ICS Division, January 1992.

## 4.2

### REGISTERED VOTERS IN GENERAL ELECTIONS, BY JUDICIAL DISTRICT, MAUI COUNTY

County and District	1990*	1992	1994	1996*	1998
State Total	453,389	464,495	488,889	544,916	601,404
Maui County <sup>1</sup>	43,835	47,238	48,036	57,091	66,740
Hana	782	847	901	1,044	1,188
Makawao	16,621	15,113	16,212	19,268	22,432
Wailuku	16,850	20,832	20,510	24,772	29,110
Lahaina	5,553	6,246	6,227	7,353	8,580
Lanai	1,044	1,096	1,196	1,356	1,509
Molokai	2,888	3,015	2,899	3,210	3,847
Kalawao <sup>1</sup>	97	89	91	88	74

\* Revised.

<sup>1</sup> Kalawao County included with Maui County.

SOURCE: Hawaii State Office of Elections, World Wide Web sites <http://www.hawaii.gov/elections/reslt98/general/precinct/precinct.pdf> and [http://www.hawaii.gov/elections/facts/reg\\_stat.htm](http://www.hawaii.gov/elections/facts/reg_stat.htm), and records.

## 4.3

### VOTES CAST IN GENERAL ELECTIONS BY JUDICIAL DISTRICT, MAUI COUNTY

County and District	1990*	1992	1994	1996*	1998
State Total	354,144	382,882	377,011	370,230	412,520
Maui County <sup>1</sup>	35,106	38,408	36,589	36,169	43,382
Hana	583	641	585	599	636
Makawao	12,340	11,361	10,504	11,006	12,641
Wailuku	12,830	14,963	13,591	13,641	15,983
Lahaina	3,819	4,713	3,865	3,898	4,451
Lanai	832	872	892	820	923
Molokai	1,841	1,835	1,783	1,724	1,880
Kalawao <sup>1</sup>	74	71	71	58	43
Absentee <sup>2</sup>	2,787	3,952	5,298	4,423	6,825

\* Revised.

<sup>1</sup> Kalawao County included with Maui County.

<sup>2</sup> Not available by districts.

SOURCE: Hawaii State Office of Elections, World Wide Web sites <http://www.hawaii.gov/elections/reslt98/general/precinct/precinct.pdf> and [http://www.hawaii.gov/elections/facts/reg\\_stat.htm](http://www.hawaii.gov/elections/facts/reg_stat.htm), and records.

4.4

**MAUI COUNTY GENERAL ELECTION RESULTS,  
NOVEMBER 7, 2000**

<b>PRESIDENT &amp; VICE PRESIDENT</b>			<b>U.S. SENATOR</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
(D) GORE\LIEBERMAN	23,484	59.2	(D) AKAKA, Daniel K.	27,695	67.7
(R) BUSH\CHENEY	12,876	32.5	(R) CARROLL, John	8,808	22.8
(G) NADER\LaDUKE	2,499	6.3	(NL) CLEGG, Lauri A.	500	1.1
(L) BROWNE\OLIVIER	182	0.5	(L) MALLAN, Lloyd Jeffrey	349	0.8
(RF) BUCHANAN\FOSTER	122	0.3	(C) PORTER, David	179	0.6
(C) PHILLIPS\FRAZIER	46	0.1	Blank Votes/Over Votes	2,134	6.8
(NL) HAGELIN\GOLDHABER	39	0.1			
Blank Votes/Over Votes	417	0.1			
<b>U.S. REPRESENTATIVE - [D 2]</b>			<b>STATE SENATOR - [D 5]</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
(D) MINK, Patsy Takemoto	24,288	61.2	(D) ENGLISH, J. Kalani	8,300	53.7
(R) FRANCIS, Russ	12,109	30.5	(R) SHISHIDO, Allen T.	6,547	42.4
(L) DUQUESNE, Lawrence G.K.	831	2.1	Blank Votes/Over Votes	601	3.8
Blank Votes/Over Votes	2,437	6.1			
<b>STATE REPRESENTATIVE - [D 7]</b>			<b>STATE REPRESENTATIVE - [D 8]</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
(R) DAVIS, Ron	3,114	51.8	(D) SOUKI, Joe	3,586	51.6
(D) KAHO'OHALAHALA, Sol P	2,594	43.2	(R) PETERSON	3,018	43.4
Blank Votes/Over Votes	303	5.0	Blank Votes/Over Votes	345	5.0
<b>STATE REPRESENTATIVE - [D 9]</b>			<b>STATE REPRESENTATIVE - [D 10]</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
(D) NAKASONE, Bob	5,793	76.7	(R) BUKOSKI, Kika	3,374	43.2
(R) HENRY, John F.	1,332	17.6	(D) VROOM, JJ	2,889	37.0
Blank Votes/Over Votes	428	5.7	(A) GIBSON, Malia	1,076	13.8
			Blank Votes/Over Votes	479	6.1
<b>STATE REPRESENTATIVE - [D 11]</b>			<b>STATE REPRESENTATIVE - [D 12]</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
(R) HALFORD, Chris	4,361	52.8	(D) MORITA, Hermina M. (Mina)	2,307	75.0
(D) STARR, Jonathan	3,244	39.3	(NL) WEST-TICKLE, Ann E.	386	12.6
(G) STENSHOL, Shaun	241	2.9	Blank Votes/Over Votes	382	12.4
Blank Votes/Over Votes	413	5.0			
<b>COUNCILMEMBER - WEST MAUI</b>			<b>COUNCILMEMBER - WAILUKU-WAIHEE-WAIKAPU</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
JOHNSON, Jo Anne	16,801	42.4	KANE, Dain P.	21,146	53.4
NAKAMURA, Dennis Y.	16,676	42.1	VICTORINO, Michael (Mike)	13,381	33.8
Blank Votes/Over Votes	6,141	15.5	Blank Votes/Over Votes	5,091	12.8
<b>COUNCILMEMBER - KAHULUI</b>			<b>COUNCILMEMBER - SOUTH MAUI</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
ARAKAWA, Alan M.	21,169	53.4	NISHIKI, Wayne K.	18,999	48.0
DAVIS, Mike	14,143	35.7	BRITTON, Lynn	17,150	43.3
Blank Votes/Over Votes	4,306	10.8	Blank Votes/Over Votes	3,469	8.7
<b>COUNCILMEMBER - MAKAWAO-HAIKU-PAIA</b>			<b>COUNCILMEMBER - UPCOUNTRY</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
MOLINA, Mike	18,668	47.1	TAVARES, Charmaine	22,870	57.7
ENRIQUES, John Wayne	15,603	39.4	KAHO'OHANOHANO, David E.	11,545	29.1
Blank Votes/Over Votes	5,347	13.5	Blank Votes/Over Votes	5,203	13.1
<b>COUNCILMEMBER - LANAI</b>			<b>COUNCILMEMBER - MOLOKAI</b>		
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
HOKAMA, Riki	16,743	42.3	KAWANO, Patrick S.	26,469	66.8
KAWAMURA, Georgina Kauai	15,668	39.5	Blank Votes/Over Votes	13,149	33.2
Blank Votes/Over Votes	7,207	18.2			

SOURCE: Hawaii State Office of Elections, records.

## 4.5

**MAUI COUNTY GENERAL ELECTION RESULTS,  
OFFICE OF HAWAIIAN AFFAIRS TRUSTEES  
AND AMENDMENTS, NOVEMBER 7, 2000**

<b>OHA - SPECIAL ELECTION VACANCY AT LARGE (3)</b>					
	<b>Votes</b>	<b>%</b>		<b>Votes</b>	<b>%</b>
AKANA, Rowena M.N.	6,472	5.5	KELIIHOLOKAI, Jennifer	1,079	0.9
AKINA, Crayn Kauahi	1,317	1.1	KOTOMORI, Janet	1,203	1
BATES, Beverly R.	1,687	1.4	KUPAU, O.	506	0.4
BRANDT, Nani G.	3,129	2.6	LEE, Richard	2,340	2
BURKE, Gene P. K. (Kini)	529	0.4	MALTERRE, Walter G.	143	0.1
CAIRES, Gordon Kona	581	0.5	MCGREGOR, Bob	1,709	1.4
DE COSTA, Denise Mahealani	1,567	1.3	MORRISON, Harriet Ilima	819	0.7
DESOTO, A. Frenchy	4,583	3.9	OLDS, Nalani	2,266	1.9
EBEL, Bud	467	0.4	PADEKEN, Charmaine H.	650	0.5
EBISU, Tulane E.	565	0.5	PALCIC, Michael (Big Mike)	348	0.3
ELDERTS, Maitland P. K.	153	0.1	PARK, Bernadette (Akiona)	909	0.8
EVANS, Kimo Keanu	962	0.8	PEABODY, George (Aloha)	1,348	1.1
FINA'I, Charl Kaleialohaona	454	0.4	PELTIER, Victor (Umi)	234	0.2
GILES, Jason C.	1,101	0.9	ROSE, Charles (Kale Loke)	908	0.8
GORA, Francis Keoua	605	0.5	SABEY, John L.	208	0.2
GREENWOOD, Alice U. Oupnui	849	0.7	SCHNEIDER, Loyson Earll	465	0.4
HAIA, Thomas A.K.	604	0.5	STENDER, Oswald K.	4,411	3.7
HANAIEI, Ralph (Hana)	1,278	1.1	TIWANAK, Eric Kuualoha	175	0.1
HUBBARD, Lela Malina	897	0.8	TOLER, Dustin	267	0.2
KAAPU, Kekoa David Jr.	1,773	1.5	TRASK, Mililani B.	6,205	5.2
KALEIKINI, Lovell F.	677	0.6	TUNGPALAN, Eloise Ululani Y	1,675	1.4
KAMAKAWIWOOLE, Reynolds N.	1,703	1.4	WAIHE'E, John D., IV	5,648	4.8
KAMALI'I, Kina'u Boyd	2,612	2.2	WONG, Edwina A.L.	809	0.7
KANEKOA, Mitchell III	846	0.7	WONG, Jimmy	1,082	0.9
KAUHANE, Mike	937	0.8	YIN, Thomas M.	247	0.2
KELIIHOLOKAI, Demetrius	271	0.2	Under Votes/Over Votes	46,300	39.1
<b>OHA - SPECIAL VACANCY OAHU (1)</b>					
HEE, Clayton	15,401	38.8	THOMPSON, Richard	4,455	11.2
MURATA, Todd	1,715	4.3	WONGHAM, Greg	903	2.3
TAKAMINE, Vicky Holt	5,769	14.5	Blank Votes/Over Votes	11,422	28.8
<b>CONSTITUTIONAL AMENDMENT:</b>			<b>CONSTITUTIONAL AMENDMENT:</b>		
<b>Appoint Tax Review Commission</b>	<b>Votes</b>	<b>%</b>	<b>Staggered Senate Terms</b>	<b>Votes</b>	<b>%</b>
YES	12,564	31.8	YES	26,602	67.3
NO	22,999	58.1	NO	7,701	19.5
Blank Votes/Over Votes	3,992	10.1	Blank Votes/Over Votes	5,252	13.3
<b>CONSTITUTIONAL AMENDMENT:</b>					
<b>UH Self Governance</b>	<b>Votes</b>	<b>%</b>			
YES	28,101	71.0			
NO	8,074	20.4			
Blank Votes/Over Votes	3,380	8.5			

NOTE: Descriptions of Constitutional and Maui Charter issues are not given in official wording.

SOURCE: Hawaii State Office of Elections, records.

## 4.6

**COUNTY STATEMENT OF REVENUES AND EXPENDITURES,  
ALL GOVERNMENTAL FUND TYPES AND EXPENDABLE TRUST  
FUNDS, MAUI COUNTY**

*In thousands of dollars; for year ended June 30*

	1995	1996	1997	1998	1999	2000
<b>Revenues:</b>						
Real Property Taxes	74,270	72,108	74,141	75,185	74,812	84,651
Other Taxes	8,715	9,980	10,791	11,041	10,911	11,736
Intergovernmental Revenues	39,778	42,014	49,833	50,568	39,213	35,796
Charges for Services	19,572	21,016	21,666	21,866	23,125	29,210
Licenses and Permits	6,149	6,845	6,930	7,042	7,576	8,704
Revenues from Use of Money and Property	4,517	3,591	3,416	3,126	2,442	2,938
Fines and Forfeitures	980	814	822	683	823	800
Other Sources	5,818	6,749	5,928	6,658	6,111	6,240
Subtotal	159,798	163,116	173,528	176,169	165,014	180,075
<b>Other Sources:</b>						
Bond/Loan Proceeds	23,390	16,465	7,136	42,192	11,600	15,479
<b>TOTAL Revenues + Other Sources</b>	<b>183,188</b>	<b>179,580</b>	<b>180,664</b>	<b>218,361</b>	<b>176,614</b>	<b>195,554</b>
<b>Expenditures:</b>						
Management and Other	35,225	38,075	39,648	41,598	36,851	37,510
Public Safety	33,813	34,533	35,287	37,461	38,331	39,335
Sanitation	16,807	17,767	17,819	18,912	18,444	19,070
Highway and Streets	8,581	8,865	9,413	9,870	9,105	9,136
Social Welfare	15,874	18,210	18,828	21,545	20,585	19,948
Culture and Recreation	10,588	11,754	12,458	13,085	13,868	15,065
Legislative	2,343	2,189	2,483	3,039	3,103	2,964
Capital Outlay	51,908	36,715	48,454	46,257	38,151	24,624
Debt Service: Principal	6,809	7,070	7,959	8,463	9,604	11,507
Interest	6,738	7,649	8,296	8,862	9,837	10,303
Refunding Bond Issuance Cost						
<b>TOTAL Expenditures</b>	<b>188,687</b>	<b>182,827</b>	<b>200,645</b>	<b>209,092</b>	<b>197,878</b>	<b>189,462</b>

SOURCE: County of Maui, Department of Finance, *Comprehensive Annual Financial Report* (Fiscal years ending June 30) 1995-2000.

## 4.7

**STATE TAX COLLECTIONS, MAUI COUNTY  
FISCAL YEARS ENDING JUNE 30**

Source of Revenue	1996	1997	1998	1999	2000
Banks/Financial Corporations	3,943	1,157	7,062	17,924	15,059
Employment Security Contributions	272	257	1,727	508	24
Fuel	4,308,790	4,558,664	5,021,914	5,005,842	5,424,191
General Excise License/Fees	96,017	89,745	79,087	78,759	88,206
General Excise and Use Tax <sup>1</sup>	102,572,429	109,863,184	105,128,667	117,923,716	129,339,853
Income, Corporate					
Declaration of Estimated Taxes	1,867,031	1,942,699	1,901,657	3,031,846	6,524,065
Payment with Returns	496,805	185,563	256,247	306,127	422,033
Refunds	(1,204,693)	(1,005,320)	(1,468,719)	(1,503,459)	(1,364,843)
Income, Individual					
Declaration of Estimated Taxes	11,360,351	14,170,827	16,014,201	20,883,037	26,959,486
Payment with Returns	5,896,058	6,020,561	7,890,511	8,774,885	8,466,766
Withholding Tax on Wages	39,907,885	50,378,741	50,016,699	50,778,036	51,809,665
Refunds	(24,224,351)	(26,193,447)	(21,591,253)	(23,703,573)	(25,370,663)
Liquor and Permits	6,147,984	6,150,059	5,963,129	6,067,932	6,211,674
Motor Vehicle Tax/Fees <sup>2</sup>	5,367,076	5,448,308	5,594,869	5,878,030	6,133,256
Public Service Company	8,461,803	9,767,653	10,756,459	10,494,247	11,090,896
Tobacco and Licenses	300,121	124,063	73,378	68,946	43,842
Transient Accommodation Fees/ Time Share Occupancy Fees	1,861	2,042	2,015	3,070	3,835
Transient Accommodation Tax/ Time Share Occupancy Tax <sup>1</sup>	21,441,079	20,310,581	12,536,880	20,740,162	27,471,444
All Others <sup>3</sup>	190	185	170	190	0
<b>TOTAL</b>	<b>182,800,651</b>	<b>201,815,522</b>	<b>198,184,700</b>	<b>224,846,224</b>	<b>253,268,788</b>

NOTE: Due to rounding, details may not add to total.

<sup>1</sup> Gross collection—does not reflect allocation to Special Funds.

<sup>2</sup> Includes State Motor Vehicle Weight Tax, Registration Fees, Commercial Driver's License, Periodic Motor Vehicle Inspection Fees, Rental Vehicle Registration Fees and Rental Vehicle Surcharge Tax.

<sup>3</sup> Time Share Occupancy Fees and Taxes were first collected in 1999.

SOURCE: Hawaii State Department of Taxation, State Tax Collections and Distribution (fiscal year summary tables), 1996-2000.

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## 4.8

# ESTIMATED REAL PROPERTY TAX REVENUE, MAUI COUNTY

*In thousands of dollars*

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Assessor's Gross Valuation as of 1/1/2001	18,469,342
Land	9,024,538
Improvement	9,444,804
Exemptions <sup>1</sup>	1,732,303
Assessor's Net Taxable Valuation	16,737,039
Half of Valuation on Appeal	36,502
Number of Appeals	457
Valuation for Tax Rate Purposes	16,700,537
Land	8,555,000
Improvement	8,145,537
Amount to be Raised by Taxation <sup>2</sup>	95,608

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<sup>1</sup> Data exclude nontaxable properties.

<sup>2</sup> For fiscal year beginning July 1.

Source: County of Maui, Department of Finance, Real Property Tax Division, May 2001.



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4.9

**REAL PROPERTY TAX RATES,  
MAUI COUNTY**

*Dollars per \$1,000 net taxable value*

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<b>Land Use Class</b>	<b>Rate Fiscal Year 2000-2001</b>
<b>LAND</b>	
Homeowner	3.63
Improved Residential	4.93
Unimproved Residential	4.93
Apartment	4.93
Hotel/resort	8.30
Commercial	6.75
Industrial	6.75
Agricultural	4.93
Conservation	4.93
<b>IMPROVEMENT</b>	
Homeowner	3.63
Improved Residential	4.93
Unimproved Residential	4.93
Apartment	4.93
Hotel and Resort	8.30
Commercial	6.75
Industrial	6.75
Agricultural	4.93
Conservation	4.93

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Source: County of Maui, Department of Finance, Real Property Tax Division, May 2001.  
Rate for Fiscal Year 2000-2001

## 4.10

## PUBLIC BONDED DEBT OF STATE AND MAUI COUNTY GOVERNMENTS

*In millions of dollars; as of December 31, unless noted*

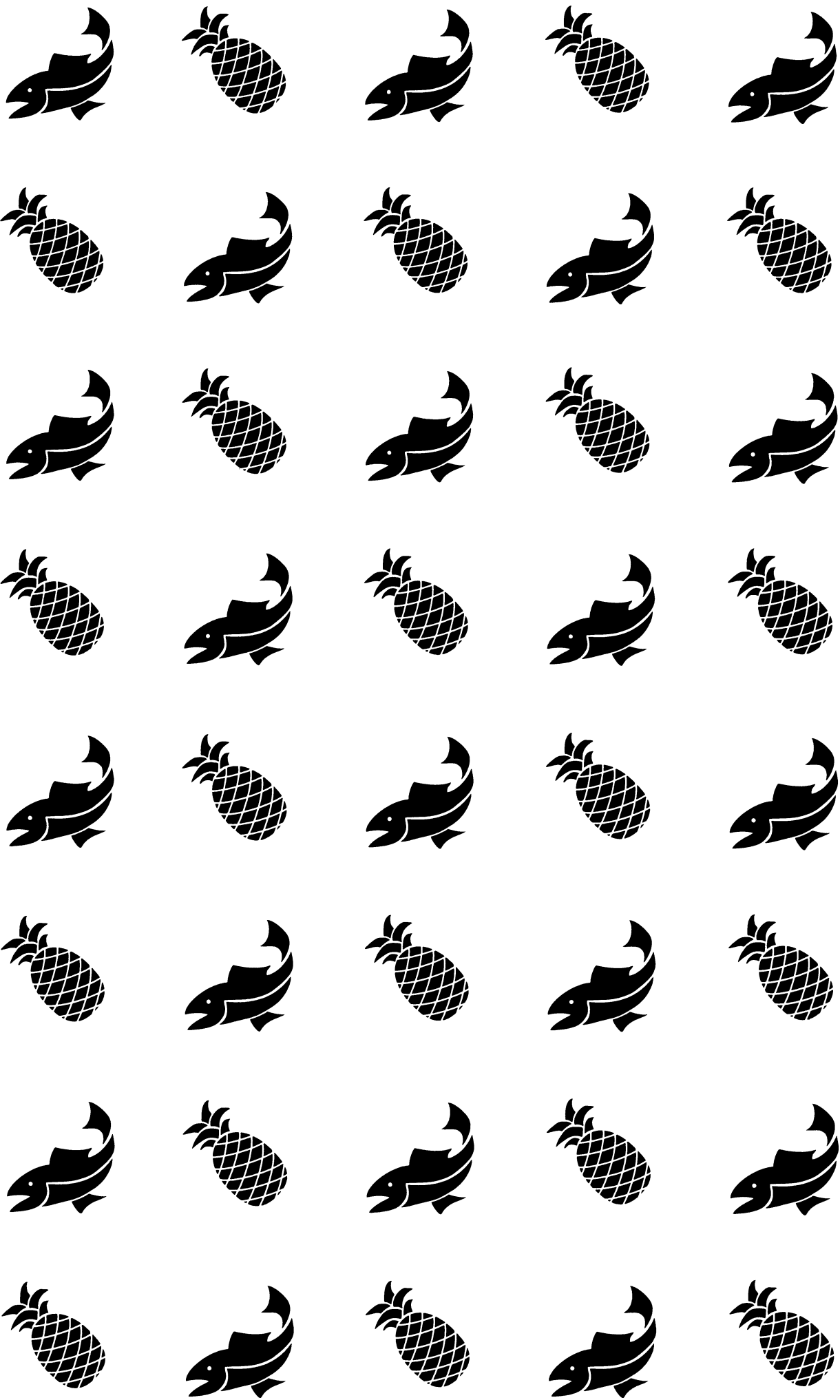
Year	Total Bonded Debt <sup>1</sup>	State Debt	Maui County
1966	412.3	205.6	9.0
1967	472.9	262.4	8.4
1968	533.8	317.9	11.7
1969	631.3	423.1	11.0
1970	742.0	536.1	10.4
1971	925.5	679.3	25.4
1972	1,080.4	804.1	24.6
1973	1,219.4	944.1	23.9
1974	1,274.4	1,005.2	23.2
1975	1,435.9	1,185.6	22.4
1976	1,667.2	1,385.9	21.0
1977	1,775.7	1,483.1	19.6
1978	1,916.8	1,607.1	18.2
1979	1,971.9	1,677.6	16.8
1980	2,054.3	1,764.9	22.4
1981	2,217.9	1,883.6	21.1
1982	2,359.5	2,039.3	19.8
1983	2,545.4	2,235.8	19.0
1984	2,715.7	2,391.5	33.5
1985	3,131.5	2,621.2	30.8
1986	3,311.8	2,720.4	47.2
1987	3,298.4	2,700.7	48.8
1988	3,382.3	2,728.8	43.1
1989	3,710.4	2,969.9	73.6
1990	4,484.5	3,394.4	110.5
1991	5,298.1	4,214.0	108.5
1992	6,129.5	4,842.4	134.8
1993	6,924.7	5,219.6	170.4
1994	6,913.5	5,015.4	185.1
1995	6,867.3	5,126.1	193.4
1996*	7,072.5	5,088.1	199.5

<sup>1</sup> Outstanding state and county bonds, both general obligation and revenue bonds. Gross debt exclusive of cash reserves. Excludes bonds not chargeable to public funds and short-term bond anticipation notes.

\* Estimated at June 30, 1996. Does not include anticipated issues.4.10

SOURCE: Tax Foundation of Hawaii, *Government in Hawaii* (annual, 1982-1996), Robert C. Schmitt, *Historical Statistics of Hawaii* (University of Hawaii Press, 1977) table 25.14.

# Agriculture & Aquaculture



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## Section 5

# AGRICULTURE & AQUACULTURE

This section includes statistics on agriculture and aquaculture. The number of and statistics about farms are presented along with the value and distribution of farm and other land based herbaculture production. Fish catches and other aquaculture statistics are given.

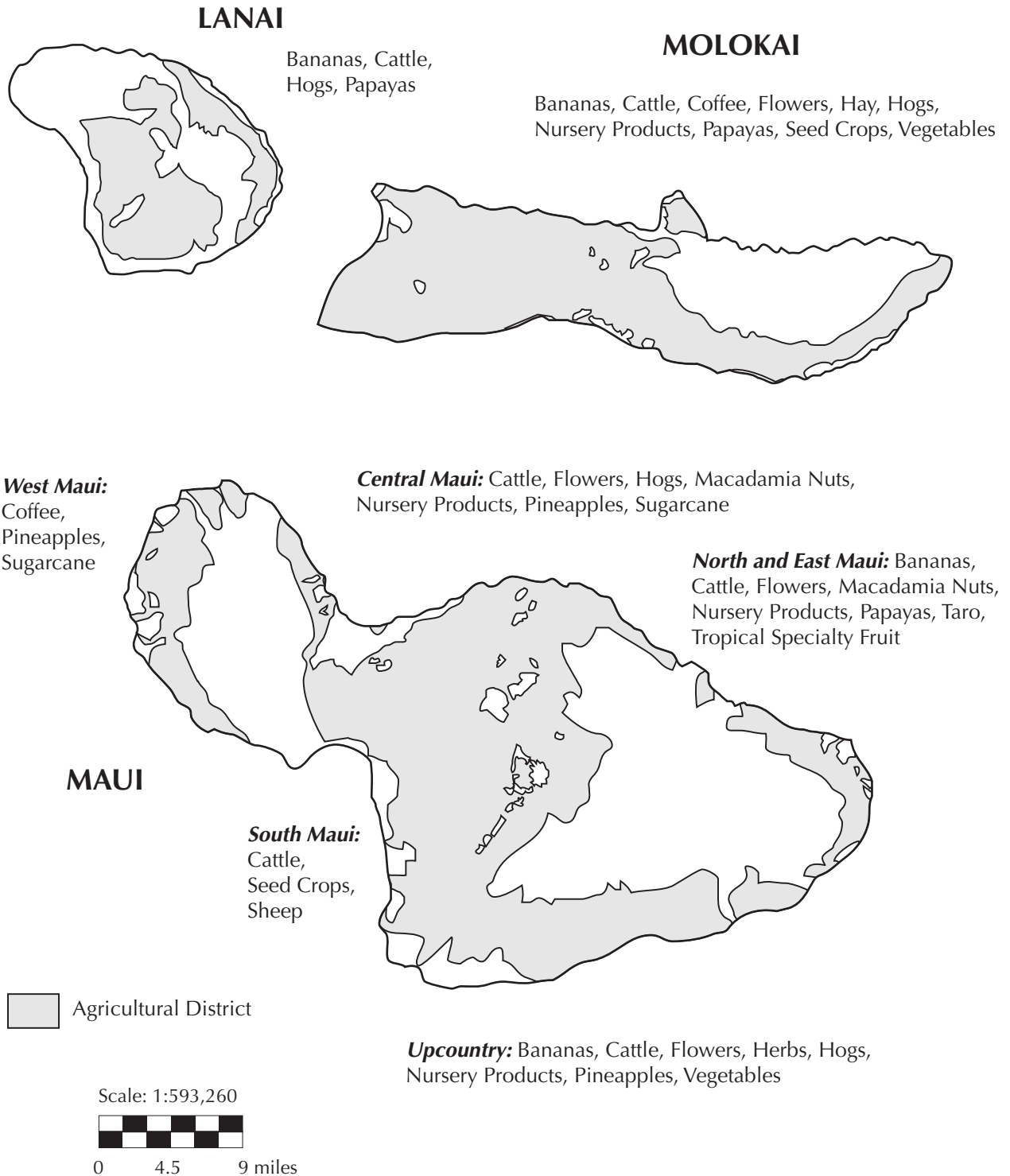
Agriculture remains an important element in Maui County's economy and land use patterns. Sugar and pineapple remain the largest crops, though the trend toward diversification of agriculture continues.

The value of commercially caught fish has been generally declining since 1986 and this trend continued through 1993, although there has been a rise since 1994. Commercial aquaculture continues to grow in importance.

The data in this section comes mainly from the U.S. Bureau of Census, the Hawaii Agriculture Statistics Service, specific crop producers, and the Hawaii State Department of Land and Natural Resources.

5.1.1

**AGRICULTURAL AREAS,  
MAUI COUNTY**



Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture*, 1997.

5.1.2

**TENURE AND CHARACTERISTICS OF FARM OPERATORS AND TYPES OF FARM ORGANIZATION, MAUI COUNTY**

	1987	1992	1997
<b>Farms</b>	<b>722</b>	<b>850</b>	<b>806</b>
<b>Land In Farms (acres)</b>	<b>359,310</b>	<b>355,786</b>	<b>292,090</b>
<b>Tenure of Operator</b>			
Full Owners			
Farms	397	503	460
Acres	89,698	118,137	81,616
Part Owners			
Farms	155	159	137
Acres	234,912	225,867	188,649
Owned land in farms (acres)	D	141,136	140,909
Rented land in farms (acres)	D	84,731	47,740
Tenants			
Farms	170	188	209
Acres	34,700	11,782	21,825
<b>Operator Characteristics</b>			
Place of Residence			
On farm operated	480	577	536
Not on farm operated	218	219	215
Not reported	44	54	55
Principal Occupation			
Farming	398	456	372
Other	324	394	434
Days of Work Off Farm			
None	264	298	290
Any	408	482	455
1 to 49 days	55	55	59
50 to 99 days	38	31	33
100 to 149 days	52	62	40
150 to 199 days	37	71	46
200 days or more	226	263	277
Not reported	50	70	61
Years on Present Farm			
2 years or less	80	44	42
3 or 4 years	77	136	47
5 to 9 years	151	171	171
10 years or more	296	360	406
Average years on present farm	12.7	13.1	14.3
Not reported	118	139	140

## 5.1.2

CONTINUED

	1987	1992	1997
<b>Operator Characteristics (cont.)</b>			
Age Group			
Under 25 years	2	2	7
25 to 34 years	75	44	24
35 to 44 years	199	259	182
45 to 54 years	119	221	270
55 to 59 years	63	50	107
60 to 64 years	95	62	59
65 to 69 years	74	74	45
70 years and over	95	138	112
Average age	52.0	52.6	53.0
Male			
Farms	626	737	681
Acres	346,566	318,121	275,346
Female			
Farms	96	113	125
Acres	12,744	37,665	16,744
<b>Type of Organization</b>			
Individual or Family (sole proprietorship)			
Farms	593	710	679
Acres	47,363	53,463	31,942
Partnership			
Farms	59	52	44
Acres	21,535	D	34,620
Corporation (family held)			
Farms	44	46	56
Acres	D	90,740	101,236
Corporation (other than family held)			
Farms	12	26	13
Acres	D	192,428	123,312
Other (cooperative, estate or trust, institutional, etc.)			
Farms	14	16	14
Acres	10,161	D	980

D: Withheld to avoid disclosing data for individual farms.

SOURCES: U.S. Bureau of the Census, *1987 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, AC87-A-11 (August 1989), chapter 2, table 10; *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, AC92-A-11 (1994), chapter 2, table 11, p. 161-162; U.S. Department of Agriculture, National Agricultural Statistics Service, *1997 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, (1998), chapter 2, table 11, p. 163-164.

### 5.1.3

## FARMS AND LAND IN FARMS, MAUI COUNTY

	1987	1992	1997
<b>Farms</b>	<b>722</b>	<b>850</b>	<b>806</b>
<b>Land in Farms</b>	<b>359,310</b>	<b>355,786</b>	<b>292,090</b>
Average size of farm (acres)	498	419	362
Median size of farm (acres)	NA	NA	6
<b>Estimated Market Value of Land and Buildings<sup>1</sup></b>			
Average per farm	873,008	1,118,184	818,342
Average per acre	1,754	2,671	2,258
<b>Estimated Market Value of All Machinery and Equipment<sup>1</sup></b>			
Average per farm	81,608	117,143	88,989
<b>Farms by Size</b>			
1 to 9 acres	365	505	468
10 to 49 acres	223	232	233
50 to 179 acres	79	60	48
180 to 499 acres	25	24	29
500 to 999 acres	5	3	5
1,000 acres or more	25	26	23
<b>Total Cropland</b>			
Farms	573	733	684
Acres	89,439	D	D
<b>Harvested Cropland</b>			
Farms	496	666	605
Acres	42,952	39,031	32,243
<b>Irrigated Land</b>			
Farms	410	541	480
Acres	67,198	61,549	35,031
<b>Market Value of Agricultural Products Sold (\$1,000)</b>	<b>153,313</b>	<b>164,767</b>	<b>128,385</b>
Crops, including nursery and greenhouse crops	140,722	153,285	116,084
Livestock, poultry, and their products	12,591	11,483	12,301
<b>Average Market Value of Agricultural Products Sold per Farm (\$)</b>	<b>212,345</b>	<b>193,844</b>	<b>159,287</b>

<sup>1</sup> Data are based on a sample of farms.

D: Withheld to avoid disclosing data for individual farms.

NA: Not available.

SOURCES: U.S. Bureau of the Census, *1987 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, AC87-A-11 (August 1989), chapter 2, table 1, p. 130; *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, AC92-A-11 (1994), chapter 2, table 1, p. 148; U.S. Department of Agriculture, National Agricultural Statistics Service, *1997 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, (1998), chapter 2, table 1, p. 150.



### 5.1.4

## NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, MAUI COUNTY

	1994	1995	1996	1997	1998	1999
Number of Farms <sup>1</sup>	850 r	800 r	800 r	800	800	800
Farm Acreage (1,000) <sup>2</sup>	320 r	295 r	290 r	290	290	290
Farm Employment <sup>3</sup>						
Self-employed farm operators	250	300	300	300	350	450
Unpaid workers <sup>4</sup>	100	100	150	100	150	200
Hired workers	2,000	1,850	1,850	1,850	1,950	2,200

<sup>1</sup> Based on farm definition of \$1,000 or more of agricultural sales.

<sup>2</sup> Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

<sup>3</sup> Average of quarterly data.

<sup>4</sup> Includes family members and others working 15 or more hours per week.

r: revised

### 5.1.5

## VALUE OF CROP AND LIVESTOCK SALES, HAWAII AND MAUI COUNTY

*In thousands of dollars*

	All Crops and Livestock	All Crops	Sugar (unprocessed cane)	Pineapple (fresh equivalent)	Other Crops	Livestock
<b>State Total</b>						
1995	492,683r	421,089r	127,700	87,360	206,029r	71,594r
1996	494,565r	428,671r	108,100	95,914	224,657r	67,017r
1997	485,743	418,661	85,500	91,721	241,440	67,799
1998	493,442	420,734	87,400	92,776	240,558	72,708
1999	509,562	439,940	86,800	101,448	251,692	69,622
<b>Maui County</b>						
1995	124,657r	114,064r	59,400	24,775	29,889r	10,593r
1996	126,587r	116,444r	57,200	27,144	32,100r	10,680r
1997	127,608	121,002	53,900	28,295	38,807	9,813
1998	135,373	124,816	58,700	28,413	37,703	10,557
1999	130,416	124,526	60,200	28,325	36,001	5,890

r: revised

SOURCE: Hawaii Agricultural Statistics Service, ([http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm)).

### 5.1.6

## ACREAGE IN CROP AND NUMBER OF CROP FARMS, MAUI COUNTY

	1995	1996	1997	1998	1999
<b>Acreage in Crop (1,000 acres)</b>					
Sugarcane	42.6	42.3	43.1	42.9	43.3
Pineapples (land used for pineapple)	9.5	9.3	9.1	9.6	9.1
Vegetables and melons (harvested acreage) <sup>1</sup>	2.0	1.5	1.4	1.6	1.4
Fruits (excluding pineapples)	0.2	0.2	0.3	0.3	0.3
Coffee	D	D	D	D	D
Macadamia nuts	D	D	D	D	D
All other crops <sup>2</sup>	2.2	1.4	1.2	1.9	1.9
<b>Number of Crop Farms</b>					
Sugar	2	2	2	2	2
Pineapples <sup>3</sup>	3	6	4	5	5
Vegetables and melons	95	105	105	114	145
Fruits (excluding pineapples)	74	85	86	262	251
Coffee	D	D	D	D	D
Macadamia nuts	D	D	D	D	D
Taro	20	22	15	14	13
Flowers and nursery products	106	111	106	145	154

<sup>1</sup> Includes ginger root.

<sup>2</sup> Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), and flowers, foliage and nursery products.

<sup>3</sup> Includes specialty pineapple.

SOURCE: Hawaii Agricultural Statistics Service, ([http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm))

D: Withheld to avoid disclosure of individual operations.

## 5.1.7

**LIVESTOCK: NUMBER OF OPERATIONS, VOLUME  
OF MARKETINGS, AND VALUE OF SALES,  
MAUI COUNTY**

	1995	1996	1997	1998	1999
<b>Number of Livestock Operations, December 31</b>					
Cattle <sup>1</sup>	190	190	180	180	170
Hogs	60	60	60	50	60
Milk	5	5	5	5	4
Eggs	7	7	7	8	8
Honey <sup>2</sup>	2	5	5	D	D
<b>Volume of Livestock Marketings</b>					
Beef (dressed weight; 1,000 lb) <sup>3</sup>	2,055	2,665	2,844		
Pork (dressed weight; 1,000 lb)	1,584	1,361	933		
Milk (million lb)	D	D	D		
Eggs (million)	D	D	D		
Honey (1,000 lb)	D	D	D		
<b>Value of Livestock Sales (\$1,000)</b>					
Cattle <sup>4</sup>	3,621	3,425	3,003	3,641	2,865
Hogs <sup>5</sup>	1,649	1,497	1,008	825	894
Milk	D	D	D	D	D
Eggs	D	D	D	D	D
<b>Total livestock sales<sup>6</sup></b>	<b>10,684</b>	<b>10,680</b>	<b>9,813</b>	<b>10,557</b>	<b>5,890</b>

<sup>1</sup> Includes beef, dairy, and dairy replacement operations.

<sup>2</sup> Oahu combined with Maui, Molokai and Lanai to avoid disclosure of individual operations.

<sup>3</sup> Includes slaughter cattle, but excludes calves shipped out-of-state.

<sup>4</sup> Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

<sup>5</sup> Excludes interfarm sales; includes out-of-state sales of slaughter animals.

<sup>6</sup> Sum of individual commodities may not add to total. Includes sheep, wool, turkeys, horses, honey, beeswax, broilers and chickens.  
D: Withheld to avoid disclosure of individual operations.

Source: Hawai'i Agricultural Statistics Service. ([http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm)).

## 5.1.8

**VEGETABLES, MELONS AND TARO,  
ACREAGE, PRODUCTION AND VALUE,  
MAUI COUNTY**

Commodity	1994	1995	1996	1997	1998	1999
<b>HARVESTED ACREAGE<sup>1</sup></b>						
Beans, snap	25	30	37	45	95	90
Cabbage, head	390	370	315	300	280	210
Celery	20	20	20	20	20	25
Corn, sweet	30	45	50	25	40	55
Cucumbers	60	70	140	155	170	145
Lettuce	30	30	25	15	15	D
Onions, dry	170	205	200	180	235	190
Onions, green	15	15	15	10	15	D
Peppers, green	195	105	15	5	D	D
Romaine	100	110	85	90	110	95
Squash, Italian	60	45	35	40	50	70
Sweet potatoes	145	155	95	70	65	70
Tomatoes	130	190	215	245	155	D
Watermelon	645	360	60	5	10	D
Other Vegetables & Melons <sup>2</sup>	536	263	258	250	280	450
<b>Total Vegetables &amp; Melons</b>	<b>2,551</b>	<b>2,013</b>	<b>1,565</b>	<b>1,455</b>	<b>1,540</b>	<b>1,400</b>
Taro (acreage in crop) <sup>3</sup>	75	85	85	85	95	90
<b>PRODUCTION (1,000 pounds)</b>						
Beans, snap	140	220	245	350	500	570
Cabbage, head	7,900	8,000	7,300	6,700	7,300	5,700
Celery	450	380	300	370	470	500
Corn, sweet	130	160	185	130	170	240
Cucumbers	930	900	2,500	2,600	2,900	2,300
Lettuce	300	240	200	100	55	D
Onions, dry	2,070	2,265	1,980	1,690	3,000	2,900
Onions, green	150	150	120	105	125	D
Peppers, green	2,475	1,300	160	60	D	D
Romaine	1,150	1,140	960	1,150	1,900	1,100
Squash, Italian	600	410	380	350	470	750
Sweet potatoes	1,500	1,500	1,100	800	750	600
Tomatoes	3,270	4,900	5,580	8,070	5,800	D
Watermelon	13,440	9,950	1,750	95	140	D
Other Vegetables & Melons <sup>2</sup>	8,153	4,355	3,460	3,730	3,625	7,280
<b>Total Vegetables &amp; Melons</b>	<b>42,658</b>	<b>35,870</b>	<b>26,220</b>	<b>26,300</b>	<b>27,205</b>	<b>21,940</b>
Taro (marketings) <sup>3</sup>	980	1,240	1,100	900	1,100	1,400

## 5.1.8

CONTINUED

Commodity	1994	1995	1996	1997	1998	1999
	<b>VALUE (\$1,000)</b>					
Beans, snap	149	228	256	359	416	496
Cabbage, head	1,659	1,784	1,351	1,380	1,314	1,009
Celery	115	118	79	102	120	125
Corn, sweet	104	105	114	98	117	161
Cucumbers	372	342	988	832	1018	840
Lettuce	168	106	80	41	23	D
Onions, dry	2,215	2,587	2,344	1,658	2,367	2,062
Onions, green	152	171	132	111	121	D
Peppers, green	1,309	723	79	30	D	D
Romaine	411	473	341	414	646	352
Squash, Italian	288	209	181	179	235	334
Sweet potatoes	807	816	558	432	426	360
Tomatoes	1,645	2,239	2,751	4,064	2,917	D
Watermelon	2,043	1,602	277	18	29	D
Other Vegetables & Melons <sup>2</sup>	2,919	1,694	1,308	1,351	1,334	2911
<b>Total Vegetables &amp; Melons</b>	<b>14,356</b>	<b>13,197</b>	<b>10,839</b>	<b>11,069</b>	<b>11,083</b>	<b>8,650</b>
Taro <sup>3</sup>	502	610	568	450	577	736

<sup>1</sup> For vegetables and melons, acreage harvested (e.g., one acre planted and harvested three times during the year equals three harvested acres). For lotus root, watercress and taro, average acreage in crop during the year.

<sup>2</sup> Only selected items are shown separately. All other vegetables and melons for the island are included in the other vegetables and melons category.

<sup>3</sup> Oahu combined with Maui and Molokai to avoid disclosure of individual operations.

D Not reported to avoid disclosure of individual operations.

SOURCE: Source: Hawai'i Agricultural Statistics Service. ([http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm))

## 5.1.9

### FLORICULTURE AND NURSERY PRODUCTS, MAUI COUNTY

#### *Number of farms and growing area*

	Number of Farms	Greenhouse (1,000 sq ft)	Artificial Shade (1,000 sq ft)	Natural Shade (Acres)	Open Field (Acres)	Total (Acres)
<b>State Total</b>						
1994	660	3,770	21,600	18	1,690	2,290
1995	705	3,770r	24,215r	15	2,040	2,698
1996	690	2,820	23,405	10	1,600	2,212
1997	670	2,805	23,885	10	1,535	2,158
1998	745	2,810	24,200	9	2,050	2,679
1999	855	2,810	24,510	7	2,325	2,959
<b>Maui/Molokai</b>						
1994	102	310	505	0	480	499
1995	106	270	375	0	450	465
1996	111	230	335	0	415	428
1997	106	235	345	0	295	308
1998	145	280	475	0	435	452
1999	154	325	605	0	415	436

\* Less than 1/2 acre.

r: Revised.

Source: Hawai'i Agricultural Statistics Service. ([http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm))

## 5.1.10

### FLORICULTURE AND NURSERY PRODUCTS, BY COMMODITY, MAUI COUNTY

#### *Value of grower sales (\$1,000)*

Commodity	1995	1996	1997	1998	1999
Cut Flowers <sup>1</sup>	2,188r	2,371	2,106	2,854	2,557
Orchids <sup>2</sup>	470r	744	D	D	1,185
Lei Flowers	1,331	1,228	D	D	D
Foliage <sup>3</sup>	D	D	D	D	D
Potted Flowering Plants	D	D	D	D	D
All Other Nursery Products <sup>4</sup>	3,533	2,923	5,807	5,763	5,737
Unspecified Sales <sup>5</sup>	274	249	311	334	138
<b>Total</b>	<b>7,796r</b>	<b>7,515</b>	<b>8,320</b>	<b>8,951</b>	<b>9,617</b>

<sup>1</sup> Cut orchids included in "Orchids" category.

<sup>2</sup> Excludes orchids used for lei flowers.

<sup>3</sup> Includes potted, cut and unfinished.

<sup>4</sup> Includes bedding plants, plant rentals, sod, trees, and any other nursery products not elsewhere classified.

<sup>5</sup> Includes grower sales greater than \$999 but less than \$10,000 which were not categorized.

D: Data not shown separately to avoid disclosure of individual operations.

Source: Hawai'i Agricultural Statistics Service. ([http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm))

## 5.1.11

## VALUE OF CROP SALES AND VOLUME OF CROP MARKETINGS, MAUI COUNTY

	1995	1996	1997	1998	1999
<b>Value of Crop Sales (\$1,000)</b>					
Sugar (unprocessed cane)	59,400	57,200	53,900	58,700	60,200
Pineapples (fresh equivalent)	24,775	27,144	28,295	28,413	28,325
Vegetables, ginger root, herbs & melons	13,760	11,652	11,692	11,755	9,519
Fruits (excluding pineapples)	1,031	858	1,136	1,051	1,056
Coffee (parchment)	D	D	D	D	D
Macadamia nuts, in shell	D	D	D	D	D
Taro	D	D	D	D	D
Seed and forage crops	D	D	D	D	D
Flowers and nursery products <sup>1</sup>	7,796	7,515	8,219	8,951	9,617
Total Crops <sup>2</sup>	114,064	116,444	121,002	124,816	124,526
<b>Volume of Crop Marketings</b>					
Sugar, unprocessed cane (1,000 tons)	1,678	1,702	1,784	1,783	1,975
Pineapples, fresh equivalent (1,000 tons)	188	195	188	D	D
Vegetables and melons (1,000 lb)	36,110	26,570	26,590	23,625	14,715
Bananas (1,000 lb)	820	890	700	800	890
Papayas (1,000 lb)	755	480	915	1,300	920
Coffee, parchment (1,000 lb)	D	D	D		
Macadamia nuts, in shell (1,000 lb)	D	D	D	D	D
Taro (1,000 lb)	D	D	D	D	D

<sup>1</sup> Flowers, foliage, and nursery products.

<sup>2</sup> Total crop values shown are actual. Sum of individual commodities may not add to total. Forage crops' and Forest product's value combined and included in total crop value.

D: Withheld to avoid disclosure of individual operations.

\* Coffee less than 5,000 pounds.

Source: Hawai'i Agricultural Statistics Service. ([http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm))

Need to footnote volume of vegetables etc. 1998 and 1999. Lower figures reflect trend to report data on a statewide basis only.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (1997), pp. 7, 8, 10 and 12.

## 5.2.1

### COMMERCIAL FISH LANDINGS, MAUI COUNTY

*Year ended June 30*

Year	Pounds Landed	Pounds Sold	Value (\$)
1982	792,504	734,258	873,251
1983	944,045	899,995	1,109,356
1984	889,715	810,257	1,083,651
1985	862,333	810,599	1,140,578
1986	1,007,255	915,637	1,659,720
1987	1,120,497	1,026,307	1,919,196
1988	961,337	851,858	1,780,096
1989	698,000	596,620	1,363,703
1990	777,385	624,466	1,428,937
1991	744,805	602,325	1,390,838
1992	854,282	692,870	1,596,576
1993	516,909	409,498	1,050,460
1994	624,147	486,682	1,226,805
1995	731,447	586,398	1,597,826
1996	783,394	620,343	1,577,195
1997	663,203	507,255	1,409,797
1998p	793,378	638,085	1,627,632
1999	725,445	555,477	1,562,511
2000	643,581	501,263	1,502,897

SOURCE: State of Hawaii, Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Marine Landings, State of Hawaii*, fiscal year reports.



## 5.2.2

### SEA SPECIES COMMONLY CAUGHT NEAR FISH AGGREGATING DEVICES, MAUI COUNTY

*Pounds landed in year ending June 30*

Species	1997	1998	1999	2000
Aku	14,651	19,809	42,012	18,538
Bigeye	77	1,234	1,449	554
Yellowfin	18,256	33,108	41,447	18,508
Kawakawa	87	124	150	105
Tuna (misc.)	—	1,149	598	1,140
Blue Marlin	16,084	28,230	15,677	20,785
Striped Marlin	4,495	1,393	3,707	2,409
Sailfish	27	59	-	118
Shortbill Spearfish	693	567	2,947	1,345
Kahala	—	-	-	12
Kamanu	11	44	21	13
Keokeo	—	-	-	1
Mahimahi	44,824	32,634	44,480	37,528
Mako	—	-	410	-
Mano	1,095	824	255	100
Ono	9,458	8,403	7,785	7,143
Opelu	137	-	83	-
Uku	—	-	15	-
Other	19	1,058	119	169
<b>Total</b>	<b>109,937</b>	<b>128,636</b>	<b>161,155</b>	<b>108,468</b>
<b>Devices Available</b>	<b>19</b>	<b>15</b>	<b>16</b>	<b>15</b>

Note: Data incomplete due to late submission of fish catches.

NOTE: Fish aggregating devices are non-navigational buoys placed several miles offshore to attract fish. Data is incomplete due to late submission and processing of fish catch records.

SOURCE: State of Hawaii, Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Marine Landings, State of Hawaii*, fiscal year reports.

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### 5.3.1

## AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS, MAUI COUNTY

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<b>Parcels</b>	
Acres	60,300
Reported Value (\$1,000) <sup>1</sup>	165,293
<b>Use (acres)</b>	
Crop Land	2,708
Pasture	47,668
Forest	1,140
Other Agriculture	8,184
Other Non-agriculture	600
<b>Total</b>	<b>60,300</b>

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<sup>1</sup> Reported value is purchase price or non-purchase price (estimated value) at time of acquisition.

SOURCE: Hawaiian Agricultural Statistics Service, *Statistics of Hawaiian Agriculture*, (1995, annual), from "Foreign ownership of U.S. agricultural land through December 31, 1995," Economic Research Service, USDA, *ERS Statistical Bulletin No. 931*.



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## Section 6

# COMMUNICATION & TRANSPORTATION

This section covers statistics on communications and transportation.

Newspapers, radio and television station statistics are included in the first section (6.1). Under transportation, statistics on fuel usage, rental cars, registered drivers, aircraft and water craft facilities and freight traffic are presented.

With almost 45,000 tons of cargo and mail passing through Kahului Airport and just under 3,000,000 tons passing through Kahului Harbor, water transport remains the primary way goods reach Maui.

The transportation statistics are mostly taken from the Hawaii State Department of Transportation.

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### 6.1.1

## AVERAGE PAID CIRCULATION OF THE MAUI NEWS

*For 12 month period ending March 31*

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Year	Monday-Thursday	Friday	Saturday	Sunday
1990	17,230	20,383		19,405
1991	17,531	20,728		19,939
1992	17,845	21,089		20,822
1993	18,334	21,504		21,827
1994	18,615	21,691		22,246
1995	18,816	21,865		23,441
1996	18,379	21,234		23,866
1997	17,710	20,346		23,992
1998	17,142	19,634		24,098
2001	18,880	21,069	18,718	25,090

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Note: 1994 to 1997 average year circulation calculated from quarterly averages. Maui News started publishing Saturday edition in 2001.

SOURCE: Audit Bureau of Circulations, "Maui News Audit Report," 1990-1998 and Maui News records 2001.

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### 6.1.2

## AVERAGE DISTRIBUTION OF OTHER NEWSPAPERS, MAUI COUNTY

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Haleakala Times	12,000	bi-monthly
Lahaina News	12,000	bi-monthly
South Maui Times	12,000	weekly
The Lana'i Times	3,000	monthly
The Molokai Advertiser-News	5,500	weekly

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SOURCE: *South Maui Times*, *Lahaina News*, *The Molokai Advertiser-News*, *The Lana'i Times*, and *Haleakala Times*, staff.

### 6.1.3

## CABLE TELEVISION COMPANIES, SUBSCRIBERS AND REVENUES, BY COUNTIES

	Maui	Hawaii	Honolulu	Kauai	State Total
<b>Number of Companies<sup>1</sup></b>					
Dec. 31, 1995	2	3	2	2	6
Dec. 31, 1996	2	2	2	2	4
Dec. 31, 1997	2	2	2	1	3
Dec. 31, 1998	3	2	2	1	4
Dec. 31, 1999	3	2	2	1	2
<b>Subscribers</b>					
Dec. 31, 1995	34,652	32,223	251,863	20,100	338,838
Dec. 31, 1996	35,507	32,876	252,261	20,306	340,950
Dec. 31, 1997	35,937	32,926	254,167	17,408	340,438
Dec. 31, 1998	49,761	34,459	256,436	17,679	358,335
Dec. 31, 1999	51,835	34,268	253,981	18,189	358,273
<b>Basic Service Revenue (\$1,000)</b>					
1995	9,589	7,020	48,852	4,261	69,722
1996	9,706	9,068	53,627	4,884	77,285
1997	10,200	9,486	60,045	5,369	85,099
1998	11,797	10,674	65,650	5,615	93,735
1999	12,719	12,107	72,522	5,783	103,131

<sup>1</sup> State totals are unduplicated figures; one company provided service to three counties.

SOURCE: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

### 6.1.4

## RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION, MAUI COUNTY

Station	State Total	Maui County
<b>Commercial Stations</b>		
AM	28	4 <sup>1</sup>
FM	36	9
TV <sup>2</sup>	20	5
<b>Non-commercial Stations</b>		
AM	1	—
FM	5	1
TV <sup>2</sup>	2	1

<sup>1</sup> Excludes one commercial AM station with studio on Oahu but transmitter on Molokai.

<sup>2</sup> Includes satellites but excludes translators and cable television.

SOURCE: Federal Communications Commission, Mass Media Bureau, Audio Services and Video Services Divisions, records.

## 6.2.1

### LIQUID FUEL TAX BASE, MAUI COUNTY

*Thousands of gallons*

	1993	1994	1995	1996	1997	1998	1999	2000
<b>Total</b>	<b>92,744</b>	<b>103,581</b>	<b>108,258</b>	<b>105,444</b>	<b>111,889</b>	<b>111,316</b>	<b>125,852</b>	<b>127,738</b>
Gasoline	48,211	50,324	50,852	51,854	52,863	52,855	54,543	57,861
Diesel Oil, Non-highway	38,421	36,790	37,482	32,694	32,361	26,735	31,191	28,289
Diesel Oil, Highway Use	2,616	3,235	2,920	3,453	3,743	3,987	4,564	4,097
Liquid Petroleum Gas, Off Highway	515	532	547	569	609	560	602	634
Liquid Petroleum Gas, Highway Use	36	27	30	26	21	22	20	14
Small Boats, Gasoline		2						
Aviation Fuel <sup>1</sup>	2,944	12,669	16,426	16,847	22,293	27,157	34,931	36,842

<sup>1</sup> 1993 is low due to change in carrier fueling and new fuel storage tank. Source:

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections, Calendar Year Ending December 31, 2000" (annual release)

## 6.2.2

### GASOLINE AVERAGE PRICES PER GALLON, FOR ALL U.S. CITIES AND OAHU, ANNUAL AVERAGES

*In dollars; average prices include all applicable federal, state, and county taxes*

Year	U.S.	Oahu
1984	1.198	1.450
1985	1.196	1.392
1986	0.931	1.206
1987	0.957	1.233
1988	0.964	1.293
1989	1.060	1.365
1990	1.217	1.479
1991	1.196	1.560

SOURCE: Based on data in the U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly). The 1984-1986 Honolulu prices and all U.S. averages are actual values; the 1987-1991 Honolulu prices are estimates based on actual prices for the last half of 1986 and CPI(U) changes for gasoline for subsequent years.

### 6.2.3

## HIGHWAY DISTANCES, ISLAND OF MAUI

Route	Statute Miles
Wailuku-Kahului	2.3
Wailuku-Kahului Airport	4.2
Wailuku-Hana, via Keanae	53.7
Wailuku-Hana, via Kaupo	59.8
Wailuku-Haleakala summit	38.2
Wailuku-Makena	17.6
Wailuku-Lahaina, via Kahakuloa	38.0
Wailuku-Lahaina, via Olowalu	20.9
Kahului-Kihei	7.9
Lahaina-Wailea	32.4
Lahaina-Napili	8.9
Lahaina-Kaanapali	3.7

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

### 6.2.4

## HAWAII DRIVERS LICENSES IN FORCE AND VEHICLE REGISTRATION, BY TYPE OF VEHICLE, MAUI COUNTY

*Taxable and non-taxable; includes vehicles registered but subsequently scrapped or shipped out of state*

	1994	1995	1996	1997	1998	1999
Drivers Licenses in Force (as of December 31)	80,643	79,639	80,988	82,217	84,980	87,550
All Vehicles	113,429	115,312	119,961	119,626	123,596	128,204
Motor Vehicles	110,708	112,529	117,214	116,878	120,818	125,404
Passenger vehicles <sup>1</sup>	85,857	86,889	91,067	90,573	93,912	97,565
Ambulances	13	12	12	10	11	13
Buses	422	440	405	328	328	342
Trucks <sup>1</sup>	22,315	23,026	23,610	23,935	24,474	25,268
Truck tractors	144	137	118	111	104	96
Truck cranes	93	89	86	79	74	72
Motorcycles <sup>2</sup>	1,864	1,936	1,916	1,842	1,915	2,048
Trailers and Semi-trailers	2,721	2,783	2,747	2,748	2,778	2,800

<sup>1</sup> Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

<sup>2</sup> Including motor scooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

SOURCE: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.



## 6.2.5

### MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES

Year	HIGHWAY FUEL CONSUMPTION <sup>1</sup>		VEHICLE MILES OF TRAVEL	
	Total (1,000 gallons)	Gallons per Vehicle <sup>2</sup>	Total (millions)	Per Vehicle <sup>2</sup>
<b>State of Hawaii</b>				
1982	323,827	482	6,048.3	9,007
1983	327,769	NA	NA	NA
1984	339,491	473	6,486.3	9,044
1985	345,672	461	6,761.5	9,027
1986	357,716	464	6,970.7	9,034
1987	367,984	461	7,217.2	9,041
1988	378,988	464	7,400.8	9,052
1989	395,945	463	7,748.1	9,062
1990	395,185	444	8,065.4	9,071
1991	406,819	453	8,142.2	9,075
1992	405,963	457	8,065.5	9,070
1993	409,940	468	7,945.3	9,063
1994	428,558	490	7,925.2	9,056
1995	422,884	482	7944.1	9,051
1996	426,370	482	8005.9	9,050
1997	421,499	477	8003.0	9,050
<b>Maui County</b>				
1991	49,037	434	1,013.7	8,962
1992	48,985	445	988.3	8,971
1993	50,715	460	988.5	8,971
1994	53,933	487	993.9	8,973
1995	53,634	477	1010.1	8,977
1996	55,346	473	1049.5	8,968
1997	53,771	461	1046.0	8,963

<sup>1</sup> Includes gasoline, diesel oil, and butane gas. Gasohol was no longer used in motor vehicles after June 1982.

<sup>2</sup> Based on motor vehicle total by county of inspection, includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks and motorcycles but exclude trailers and semi-trailers.

NA: Not available.

SOURCE: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

## 6.2.6

### AIRCRAFT OPERATIONS BY TYPE OF AIRCRAFT, MAJOR STATE-OWNED AIRPORTS

2000	Kahului	Honolulu International	Kona International (Keahole)	Lihue	Hilo International	Molokai
All Movements	174,855	345,771	98,052	113,850	115,546	44,691
Air Carrier	63,799	206,870	29,561	33,645	22,266	1,484
Air Taxi	77,779	31,539	9,547	57,883	48,680	27,385
General Aviation	29,983	91,484	47,021	17,800	32,908	11,869
Military	3,294	15,878	11,923	4,522	11,692	3,953

SOURCE: Hawaii State Department of Transportation, Airports Division, *Airport Activity Statistics, Calendar Year 2001*.

## 6.2.7

### AIRCRAFT OPERATIONS BY TYPE OF AIRCRAFT, KAHULUI AND MOLOKAI AIRPORTS

	1993	1994	1995	1996	1997	1998	1999	2000
<b>Kahului Airport</b>								
All Movements	172,265	179,227	179,883	178,590	173,342	180,890	188,385	174,855
Air Carrier	51,648	56,393	65,791	67,136	64,599	63,336	62,883	63,799
Air Taxi	77,212	85,373	80,349	78,722	81,105	84,546	92,569	77,779
General Aviation	37,097	33,292	30,691	29,976	25,211	29,509	29,575	29,983
Military	6,308	4,169	3,052	2,756	2,427	3,499	3,358	3,294
<b>Molokai Airport</b>								
All Movements	39,057	38,369	45,517	49,221	44,667	49,353	49,184	44,691
Air Carrier	100	1,443	1,194	1,003	1,017	1,163	1,469	1,484
Air Taxi	26,512	25,637	30,365	34,753	31,290	30,080	30,286	27,385
General Aviation	9,465	8,452	9,460	10,744	10,844	15,425	14,169	11,869
Military	2,980	2,833	4,498	2,721	1,516	2,685	3,260	3,953

NOTE: Definitions. **Aircraft operations:** Total aircraft movements, landings and takeoffs, combined. Reported by the United States Federal Aviation Administration's air traffic control towers. **Air carrier:** Large commercial aircraft having more than 60 seats. **Air taxi:** Small commercial aircraft having 60 seats or less. **General aviation:** All types of civil aviation including private jets, corporate jets, and helicopters. General aviation excludes commercial and military aircraft operations. **Military:** All military aircraft, including military helicopters.

Source: Hawaii State Department of Transportation, Airports Division. Calendar Year 2000.

## 6.2.8

### PASSENGERS, CARGO AND MAIL, OVERSEAS AND INTERISLAND, MAUI COUNTY AIRPORTS

Airport	1997		1998		1999		2000	
	En- planed	De- planed	En- planed	De- planed	En- planed	De- planed	En- planed	De- planed
<b>Passengers</b>								
OGG interisland	2,208,703	2,070,434	211,692	1,981,652	2,129,704	2,017,788	2,141,313	2,075,141
OGG overseas	770,110	828,364	837,015	910,058	854,706	969,881	965,586	1,009,205
MKK	125,471	126,766	124,917	127,675	132,540	137,212	124,670	128,838
LNy	88,777	89,626	88,035	88,584	88,598	87,043	80,761	80,644
JHM	88,485	89,444	72,573	72,355	68,336	66,966	61,128	60,187
HNM	5,126	4,955	4,877	4,605	4,184	3,909	8	9
LUP	4,393	4,232	4,546	4,408	4,150	3,996	1,148	1,007
<b>Cargo (U.S. Tons)</b>								
OGG interisland	8,984	22,122	5,587	14,517	5,324	14,911	6,147	17,872
OGG overseas	6,988	5,772	6,804	5,179	6,945	5,937	7,390	6,688
MKK	263	710	319	888	441	967	485	847
LNy	154	721	136	717	112	665	76	642
JHM	236	482	237	489	277	360	273	316
HNM	1	0	4	0	42	11	25	10
LUP	1	6	8	153	15	174	12	190
<b>Mail (U.S. Tons)</b>								
OGG interisland	2,195	4,643	2,199	7,643	2,263	7,592	2,089	7,575
OGG overseas	167	23	642	25	1,102	1	641	32
MKK	31	35	54	121	35	204	5	171
LNy	37	31	38	74	15	113	1	99
JHM	0	0	0	4	0	0	0	0
HNM	0	0	0	0	0	0	0	0
LUP	0	0	1	4	1	3	0	5

NOTES: Interisland traffic is interstate only; overseas includes both international and U.S. mainland flights. Kahului is the only Maui County airport offering overseas flights.

**AIRPORT KEY:**

OGG	Kahului	JHM	Kapalua
MKK	Molokai	HNM	Hana
LNy	Lanai	LUP	Kalaupapa

Source: Hawaii State Department of Transportation, Airports Division

## 6.2.9

## KAHULUI HARBOR FREIGHT TRAFFIC BY COMMODITY

*In thousands of tons*

Commodity	Grand Total	Foreign Imports	Foreign Exports	Domestic		
				Total	Receipts	Shipments
<b>Grand Total</b>	<b>3,513</b>	<b>34</b>	<b>-</b>	<b>3,479</b>	<b>2,125</b>	<b>1,353</b>
<b>Coal, Lignite &amp; Coal Coke Total</b>	<b>31</b>	<b>31</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
1100 Coal Lignite	31	31	-	-	-	-
<b>Petroleum and Petroleum Products Total</b>	<b>563</b>	<b>3</b>	<b>-</b>	<b>559</b>	<b>554</b>	<b>6</b>
2211 Gasoline	193	-	-	193	193	-
2330 Distillate Fuel Oil	226	-	-	225	225	1
2340 Residual Fuel Oil	126	-	-	126	121	5
2350 Lube Oil & Greases	2	-	-	2	2	0
2640 Liquid Natural Gas	15	3	-	12	12	-
2990 Petro. Products NEC	1	-	-	1	1	-
<b>Chemicals and Related Products Total</b>	<b>37</b>	<b>0</b>	<b>-</b>	<b>37</b>	<b>37</b>	<b>0</b>
3110 Nitrogenous Fert.	2	-	-	2	2	-
3190 Fert. & Mixes NEC	20	-	-	20	20	0
3274 Sodium Hydroxide	1	-	-	1	1	-
3275 Inorg. Elem., Oxides, & Halogen Salts	0	-	-	0	0	-
3276 Metallic Salts	9	-	-	9	9	-
3281 Radioactive Material	0	-	-	0	-	0
3282 Pigments & Paints	1	-	-	1	1	0
3284 Medicines	0	-	-	0	0	-
3285 Perfumes & Cleansers	2	-	-	2	2	0
3286 Plastics	1	-	-	1	1	-
3291 Pesticides	1	-	-	1	1	-
3293 Explosives	0	-	-	0	0	-
<b>Crude Materials, Inedible Except Fuels Total</b>	<b>167</b>	<b>-</b>	<b>-</b>	<b>167</b>	<b>134</b>	<b>32</b>
4189 Lumber	51	-	-	51	41	10
4190 Forest Products NEC	0	-	-	0	0	-
4225 Pulp & Waste Paper	5	-	-	6	0	5
4331 Sand & Gravel	99	-	-	99	84	15
4338 Soil & Fill Dirt	1	-	-	1	1	-
4420 Iron & Steel Scrap	7	-	-	7	5	2
4782 Clay & Refrac. Mat.	1	-	-	1	1	-
4900 Non-Metal. Min. NEC	1	-	-	1	1	-
<b>Primary Manufactured Goods Total</b>	<b>1,577</b>	<b>-</b>	<b>-</b>	<b>1,577</b>	<b>904</b>	<b>673</b>
5110 Newsprint	2	-	-	2	2	-
5120 Paper & Paperboard	1	-	-	1	1	0
5190 Paper Products NEC	13	-	-	13	13	0
5210 Lime	0	-	-	0	0	-
5220 Cement & Concrete	45	-	-	45	45	-
5240 Glass & Glass Prod.	1	-	-	1	1	0
5290 Misc. Mineral Prod.	14	-	-	14	14	-
5360 I&S Bars & Shapes	1	-	-	1	1	0
5370 I&S Pipe & Tube	6	-	-	6	6	0
5480 Fab. Metal Products	1,489	-	-	1,489	817	673
5540 Primary Wood Prod.	5	-	-	5	5	-

## 6.2.9

CONTINUED

Commodity	Grand Total	Foreign Imports	Foreign Exports	Domestic		
				Total	Receipts	Shipments
<b>Food and Farm Products Total</b>	<b>646</b>	–	–	<b>646</b>	<b>177</b>	<b>469</b>
6134 Fish (Not Shellfish)	0	–	–	0	0	0
6442 Rice	3	–	–	3	3	–
6654 Vegetables & Prod.	10	–	–	10	10	0
6746 Wheat Flour	1	–	–	1	1	–
6747 Grain Mill Products	0	–	–	0	0	–
6781 Hay & Fodder	1	–	–	1	1	–
6782 Animal Feed, Prep.	10	–	–	10	10	–
6811 Meat, Fresh, NEC	10	–	–	10	10	0
6822 Dairy Products	4	–	–	4	4	–
6839 Animals & Prod. NEC	6	–	–	6	4	2
6857 Fruit & Nuts NEC	2	–	–	2	2	–
6858 Fruit Juices	112	–	–	112	–	112
6861 Sugar	237	–	–	237	0	237
6865 Molasses	110	–	–	110	–	110
6871 Coffee	0	–	–	0	0	–
6885 Alcoholic Beverages	22	–	–	22	22	–
6887 Groceries	10	–	–	10	10	–
6889 Food Products NEC	106	–	–	106	99	7
6899 Farm Products NEC	2	–	–	2	2	0
<b>All Manufactured Equipment, Machinery and Products Total</b>	<b>492</b>	<b>0</b>	–	<b>492</b>	<b>320</b>	<b>173</b>
7110 Machinery (Not Elec)	16	–	–	16	8	8
7120 Electrical Machinery	1	–	–	1	1	0
7210 Vehicles & Parts	243	–	–	243	150	94
7220 Aircraft & Parts	0	–	–	0	0	–
7230 Ships & Boats	1	–	–	1	1	0
7400 Manufac. Wood Prod.	2	0	–	2	2	0
7500 Textile Products	1	–	–	1	1	0
7600 Rubber & Plastic Pr.	1	–	–	1	1	0
7900 Manufac. Prod. NEC	227	0	–	227	156	71
<b>Unknown or Not Elsewhere Classified Total</b>		<b>0</b>	–	–	<b>0</b>	<b>0</b> –
9900 Unknown or NEC	0	–	–	0	0	–

NOTES: Totals may not add due to rounding. Tonnage figures are rounded. A zero represents less than 500 tons but more than zero. Blanks mean zero tons. Commodity codes are standardized to reflect the Standard Industrial Trade Classification (SITC) Revisi

SOURCE: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Part 4, Waterways and Harbors, Pacific Coast, Alaska and Hawaii*, calendar year 1999.

## 6.2.10

### VESSEL ARRIVALS FOR KAHULUI HARBOR

*Excludes domestic fishing craft*

	1993	1994	1995	1996	1997	1998	1999
<b>Total Inbound Vessels</b>	<b>1,257</b>	<b>1,228</b>	<b>1,238</b>	<b>1,333</b>	<b>1,259</b>	<b>1,351</b>	<b>1,442</b>
<b>By Type of Vessel</b>							
Self propelled vessels							
Passenger and dry cargo	31	35	27	35	22	45	55
Tanker	2	0	0	1	0	3	2
Towboat or tugboat	452	362	443	539	534	584	614
Non-self propelled vessels							
Dry cargo	691	736	687	676	615	618	656
Tanker	81	95	81	82	88	101	115
<b>By Draft</b>							
18 feet and less	1,233	1,202	1,211	1,280	1,061	1,152	1,160
19 feet and more	24	26	27	53	198	199	282

SOURCE: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Part 4, Waterways and Harbors, Pacific Coast, Alaska and Hawaii*, calendar years 1993-1999.

## 6.2.11

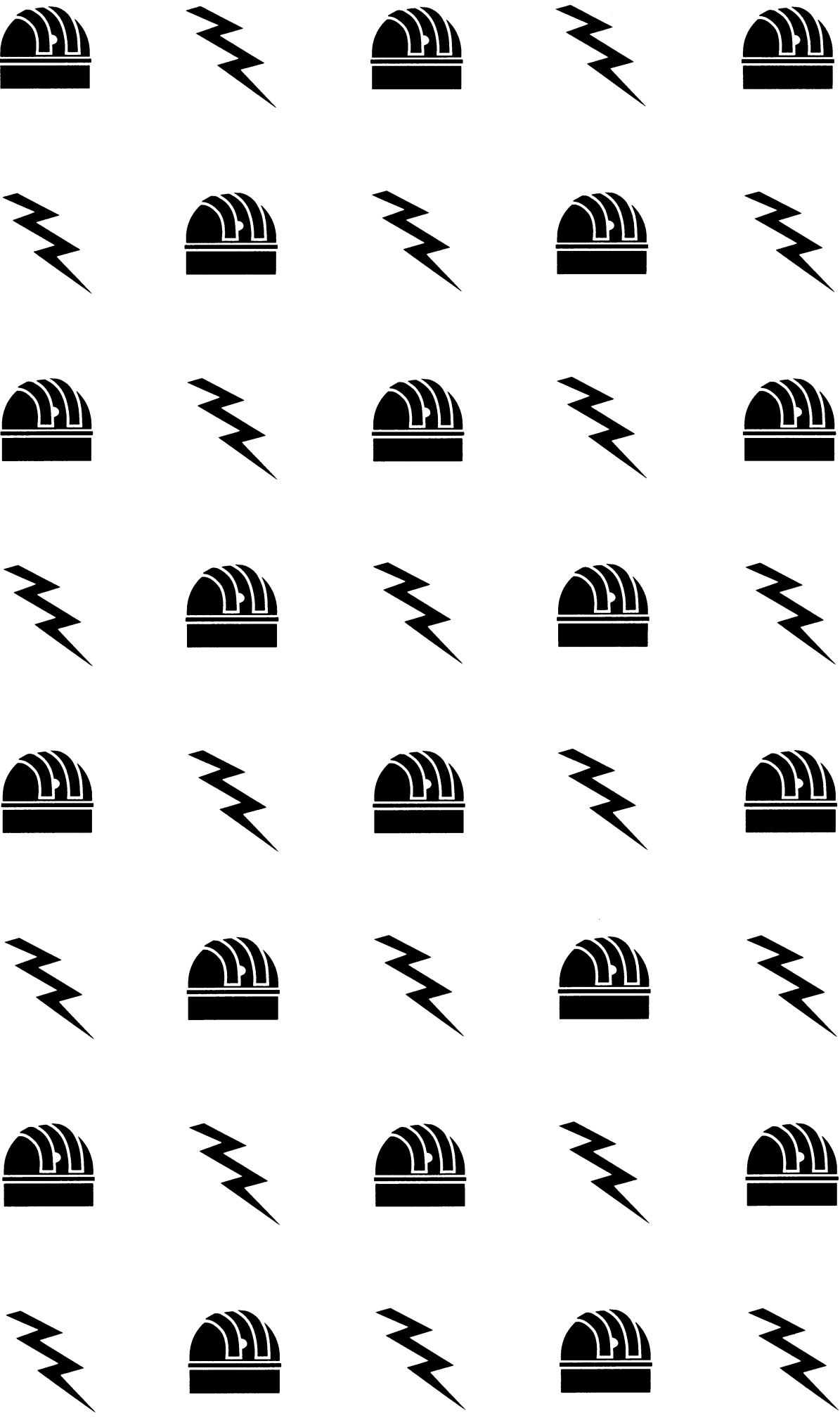
### FREIGHT TRAFFIC FOR KAHULUI HARBOR

#### Freight Traffic (In thousand short tons)

1988	2,156
1989	2,278
1990	2,408
1991	2,434
1992	2,357
1993	2,216
1994	2,368
1995	2,586
1996	2,828
1997	2,895
1998	2,851
1999	3,513

SOURCE: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Part 4, Waterways and Harbors, Pacific Coast, Alaska and Hawaii*, calendar years 1988-1999.

# Energy & Science



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## Section 7

# ENERGY & SCIENCE

The increase in Maui County's population has been reflected in the utilities. Consumption and use of electricity, gas, utilities, and water have all increased dramatically over the last decade. Statistics on electricity, gas, water production and consumption are covered. Almost 24% of the electric power used on the island is generated by the sugar companies.

Ongoing scientific endeavors include observation of astronomical and man-made space objects from the summit of Mt. Haleakala.



## 7.1.1

### TELESCOPES AT THE SUMMITS OF MAUNA KEA AND HALEAKALA

Location and Facility	Mirror Size (meters)	Year Completed	Primary Use	Local Staff <sup>1</sup>
<b>Mauna Kea</b>				
UH 24-inch Telescope	0.6	1968	Optical	
UH 88-inch Telescope*	2.2	1970	Optical/infrared	8
NASA Infrared Telescope Facility	3.0	1979	Infrared	12
Canada-France-Hawaii Telescope	3.6	1979	Optical/infrared	50
United Kingdom Infrared Telescope	3.8	1979	Infrared	31
W. M. Keck Observatory (Keck I)	10	1992	Optical/infrared	
W. M. Keck Observatory (Keck II)	10	1996	Optical/infrared	85 (total)
Subaru	8	1999	Optical/infrared	30
Gemini Northern 8-meter Telescope	8	1999	Optical/infrared	30
Caltech Submillimeter Observatory	10.4	1986	mm/submm	10
James Clerk Maxwell Telescope	15	1986	mm/submm	43
Submillimeter Array	8 antennae @ 6 m	1999	submillimeter	26
Very Long Baseline Array	25	1992	centimeter	2
<b>Haleakala (on University of Hawaii land)</b>				
Mees Solar Observatory		1956	Measure solar emissions	2
Lunar Ranging Facility		1976/84	Laser ranging	7
Maui Space Surveillance Site				120
Tracking Telescope (compensated)	1.6	1968	Image near earth objects	
Dual Tracking Telescope	1.2	1968	Track satellites	
Coudé Beam Director	0.8	1987	Project laser beams	
Beam Director	0.6	1975	Project laser beams	
Advanced Electro-Optical System (AEOS)	3.7	1999	Track satellites	55
GEODSS			Track deep space objects	
Primary	1	1982		
Secondary	1	1982		
Auxiliary	0.4	1982		

<sup>1</sup> Based in same county as observatory.

\* University of Hawaii

SOURCE: University of Hawai'i at Manoa, Institute for Astronomy, 1998 Fact Sheet.

## 7.1.2

## ELECTRIC UTILITIES, MAUI COUNTY

	1993	1994	1995	1996	1997
<b>CUSTOMERS, DEC. 31</b>					
<b>Total</b>					
Maui Island	47,035	48,388	49,194	49,590	50,385
Molokai	2,766	2,798	2,812	2,816	2,858
Lanai	1,263	1,297	1,333	1,345	1,362
<b>Maui County</b>	<b>51,064</b>	<b>52,483</b>	<b>53,339</b>	<b>53,751</b>	<b>54,605</b>
<b>Residential<sup>1</sup></b>					
Maui Island	40,163	41,292	42,004	42,578	43,159
Molokai	2,270	2,302	2,308	2,319	2,339
Lanai	1,110	1,131	1,162	1,179	1,181
<b>Maui County</b>	<b>43,543</b>	<b>44,725</b>	<b>45,474</b>	<b>46,076</b>	<b>46,679</b>
<b>Other</b>					
Maui Island	6,872	7,096	7,190	7,012	7,226
Molokai	496	496	504	497	519
Lanai	153	166	171	166	181
<b>Maui County</b>	<b>7,521</b>	<b>7,758</b>	<b>7,865</b>	<b>7,675</b>	<b>7,926</b>
<b>GENERATING AND FIRM PURCHASED CAPABILITY, DEC. 31 (MW)</b>					
Maui Island	217.3	217.3	217.3	207.5	207.5
Molokai	8.7	8.7	8.7	9.8	12.1
Lanai	9.7	9.7	9.7	14.1	10.4
<b>Maui County</b>	<b>235.7</b>	<b>235.7</b>	<b>235.7</b>	<b>231.4</b>	<b>230.0</b>
<b>PEAK DEMAND (MW)<sup>2</sup></b>					
Maui Island	156.7	163.2	170.7	174.8	174.7
Molokai	6.1	6.4	7.0	6.8	6.6
Lanai	4.5	4.7	4.8	5.0	5.0
<b>POWER SOLD (1,000 kWh)</b>					
<b>Total</b>					
Maui Island	861,002	901,235	937,143	963,625	969,170
Molokai	30,842	33,064	33,920	34,341	33,549
Lanai	23,879	25,818	26,053	26,365	26,050
<b>Maui County</b>	<b>915,723</b>	<b>960,117</b>	<b>997,116</b>	<b>1,024,331</b>	<b>1,028,768</b>
<b>Residential</b>					
Maui Island	286,013	302,085	313,521	327,562	328,582
Molokai	12,199	12,557	12,774	12,951	12,676
Lanai	5,916	5,963	6,147	6,346	6,442
<b>Maui County</b>	<b>304,128</b>	<b>320,605</b>	<b>332,443</b>	<b>346,859</b>	<b>347,700</b>
<b>Other</b>					
Maui Island	574,990	599,151	623,621	636,063	640,587
Molokai	18,643	20,506	21,145	21,390	20,873
Lanai	17,963	19,856	19,906	20,019	19,608
<b>Maui County</b>	<b>611,596</b>	<b>639,513</b>	<b>664,673</b>	<b>677,472</b>	<b>681,068</b>

## 7.1.2

CONTINUED

	1993	1994	1995	1996	1997
<b>AVERAGE ANNUAL USE (kWh)<sup>3</sup></b>					
<b>Residential</b>					
Maui Island	7,121	7,316	7,464	7,693	7,613
Molokai	5,374	5,455	5,535	5,585	5,419
Lanai	5,330	5,272	5,290	5,383	5,455
<b>Maui County</b>	<b>6,985</b>	<b>7,168</b>	<b>7,311</b>	<b>7,528</b>	<b>7,449</b>
<b>Other</b>					
Maui Island	83,671	84,435	86,735	90,711	88,650
Molokai	37,587	41,343	41,955	43,038	40,218
Lanai	117,405	119,611	116,410	120,596	108,332
<b>Maui County</b>	<b>81,318</b>	<b>82,433</b>	<b>84,510</b>	<b>88,270</b>	<b>85,928</b>
<b>AVERAGE RATE (dollars per kWh)</b>					
<b>Residential</b>					
Maui Island	0.12752	0.12985	0.13426	0.14763	0.15549
Molokai	0.17719	0.16465	0.17570	0.19072	0.19844
Lanai	0.16802	0.16618	0.17463	0.18709	0.19033
<b>Maui County</b>	<b>0.13031</b>	<b>0.13189</b>	<b>0.13660</b>	<b>0.14996</b>	<b>0.15770</b>
<b>Other</b>					
Maui Island	0.11715	0.11861	0.12008	0.13319	0.13885
Molokai	0.17768	0.16375	0.17461	0.18496	0.19348
Lanai	0.15087	0.15609	0.16538	0.18715	0.19428
<b>Maui County</b>	<b>0.11999</b>	<b>0.12122</b>	<b>0.12318</b>	<b>0.13642</b>	<b>0.14212</b>
<b>REVENUES (\$1,000)</b>					
<b>Total</b>					
Maui Island	103,839	110,289	116,982	133,074	140,035
Molokai	5,474	5,426	5,937	6,426	6,554
Lanai	3,704	4,090	4,366	4,934	5,036
<b>Maui County</b>	<b>113,017</b>	<b>119,805</b>	<b>127,284</b>	<b>144,434</b>	<b>151,624</b>
<b>Residential</b>					
Maui Island	36,476	39,226	42,095	48,359	51,092
Molokai	2,162	2,068	2,244	2,470	2,515
Lanai	994	991	1,073	1,187	1,226
<b>Maui County</b>	<b>39,632</b>	<b>42,284</b>	<b>45,412</b>	<b>52,016</b>	<b>54,834</b>
<b>Other</b>					
Maui Island	67,363	71,063	74,887	84,715	88,943
Molokai	3,312	3,358	3,692	3,956	4,039
Lanai	2,710	3,099	3,292	3,747	3,810
<b>Maui County</b>	<b>73,385</b>	<b>77,520</b>	<b>81,872</b>	<b>92,418</b>	<b>96,791</b>

<sup>1</sup> Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents, which are classified as commercial customers.

<sup>2</sup> Peak demand is the maximum amount of energy required from the electrical system. The islands' electrical systems are not interconnected, so no peaks are reported for Maui County as a whole.

<sup>3</sup> Based on number of customers at end of year.

SOURCE: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records; capacity and peak demand: Hawaiian Electric Industries, Inc., Securities and Exchange Commission 10-K filings, 1993-1997.

### 7.1.3

## GAS UTILITIES, MAUI COUNTY

*Excludes bottled gas*

	1993	1994	1995	1996	1997
<b>Island of Maui</b>					
<b>Customers (December 31)</b>					
Residential <sup>1</sup>	325	328	326	327	325
Other	69	69	68	66	67
Total	394	397	394	393	392
<b>Gas Sold (1,000 therms)</b>					
Residential	67	71	67	68	70
Other	715	736	667	658	649
Total	782	806	734	726	720
<b>Average Annual Use (therms)</b>					
Residential	206	216	205	208	217
Other	10,360	10,659	9,812	9,973	9,691
<b>Average Rate (\$ per therm)<sup>2</sup></b>					
Residential	1.47629	1.46822	1.52513	1.92138	2.22903
Other	1.11795	1.13238	1.16273	1.18864	1.25364
<b>Revenues (\$1,000)</b>					
Residential	99	104	102	131	157
Other	799	833	776	782	814
Total	898	937	878	913	971
<b>Island of Molokai</b>					
<b>Customers (December 31)</b>					
Total/Residential	27	56	52	110	91
<b>Gas Sold (1,000 therms)</b>					
Total/Residential	5	10	10	17	20
<b>Average Annual Use (therms)</b>					
Total/Residential	174	181	189	155	221
<b>Average Rate (\$ per therm)<sup>2</sup></b>					
Total/Residential	2.26418	2.21664	2.28182	2.28816	2.42358
<b>Revenues (\$1,000)</b>					
Total/Residential	11	22	22	39	49

<sup>1</sup> Residential refers to single-metered residential customers which may include condominiums for visitor use, but excludes residential master-metered apartment and condominium buildings which are classified as commercial customers.

<sup>2</sup> Based on number of customers at end of year.

SOURCE: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

## 7.1.4

## HAWAII STATE ENERGY DATA REPORT, CONSUMPTION OF ENERGY BY END-USE SECTOR

*In trillion BTU*

Year	CONSUMPTION <sup>1</sup>				Input at Electric Utilities
	Residential	Commercial	Industrial	Transportation	
1970	16.4	11.6	43.6	125.3	43.2
1971	17.8	11.4	43.5	138.8	47.7
1972	19.6	12.7	48.9	136.5	54.1
1973	20.0	13.5	49.4	140.9	55.6
1974	20.3	13.3	49.4	128.7	57.5
1975	19.6	13.8	49.9	130.5	58.8
1976	21.3	15.3	51.0	131.7	62.5
1977	21.8	16.8	52.7	141.3	65.2
1978	21.8	17.4	52.2	144.6	66.8
1979	22.9	18.1	57.8	156.4	67.7
1980	23.2	20.8	62.4	146.7	69.7
1981	23.0	18.8	60.6	124.1	69.9
1982	21.5	17.6	67.1	102.2	66.9
1983	22.1	17.8	52.6	117.9	68.6
1984	21.0	19.5	50.9	129.3	70.6
1985	20.9	20.3	53.0	143.3	70.0
1986	21.3	22.8	60.2	126.9	72.9
1987	22.8	26.0	62.0	125.1	76.6
1988	23.9	39.2	69.4	142.1	81.9
1989	25.3	38.0	66.9	154.5	85.8
1990	25.9r <sup>2</sup>	34.3	80.8r <sup>2</sup>	156.7	86.1
1991	24.2r	28.2	74.8r	151.4	79.2
1992	24.0r	32.8	72.7	142.9	74.6
1993	20.7r	22.7	71.3	126.8	66.2
1994	20.4r	25.4	75.2	135.5	64.7
1995	20.8	24.4	73.7	135.8	66.5

<sup>1</sup> Excludes small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

<sup>2</sup> There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

r: Revised.

SOURCE: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1995, Consumption Estimates* (November 1997), pp. 96-100.

7.1.5

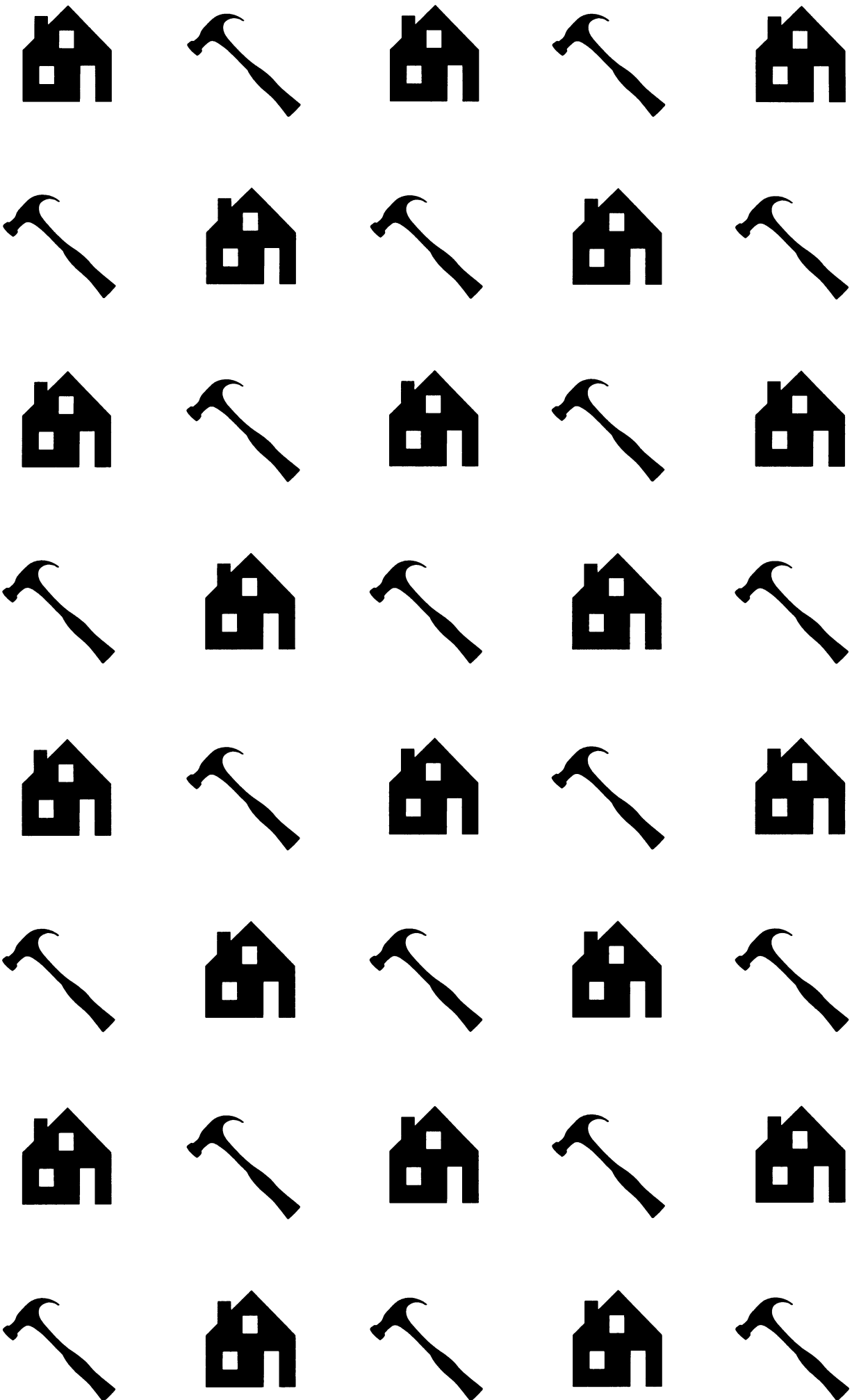
**WATER SERVICES AND CONSUMPTION, MAUI COUNTY**

*Years ending June 30*

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<b>NUMBER OF SERVICES</b>										
State Total	205,442	209,475	213,194	216,001	219,596	222,569	226,998	229,989	230,952	233,043	NA
Maui County	23,735	24,279	24,931	25,408	26,522	27,021	27,460	27,918	28,306	28,720	29,333
Maui	22,372	22,886	23,513	23,957	25,042	25,531	25,960	26,409	26,795	27,205	27,809
Molokai	1,363	1,393	1,418	1,451	1,480	1,490	1,500	1,509	1,511	1,515	1,524
	<b>CONSUMPTION (million gallons)</b>										
State Total	68,543	70,088	72,642	74,118	73,338	73,732	74,990	75,389	71,810	73,301	NA
Maui County	8,814	9,158	10,158	10,399	10,311	11,177	11,494	11,477	11,485	11,729	12,547
Maui	8,510	8,849	9,838	10,071	9,990	10,822	11,150	11,138	11,110	11,399	12,199
Molokai	304	309	320	328	321	355	344	339	330	369	348

SOURCES: 1998-1999: Maui Department of Water Supply, **Annual Report**. 1989-1997: Data compiled by Hawaii State Department of Business and Economic Development from Honolulu Board of Water Supply, Hawaii County Department of Water Supply, Kauai Department of Water, and Maui Department of Water Supply.

# Construction & Housing



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## Section 8

# CONSTRUCTION & HOUSING

Statistics on building permits, construction authorizations and modifications for both public and private projects are covered in this section. Tenure and control of real property is reflected here, as are Maui's housing characteristics by division and census designated place. The currency of statistics on housing varies from 1990 to 1999 due to many of the tables being provided by the latest census (1990).

There are almost 50,000 housing units on Maui of which around 18,000 (35%) are owner-occupied. In 1999 almost 2,365 building permits were issued.



**8.1.1**  
**NUMBER AND VALUE OF BUILDING PERMITS,**  
**MAUI COUNTY**

*Ending December 31*

Year	Number Issued	Estimated Value (\$1,000)
1990	3,534	433,916
1991	3,239	199,309
1992	3,020	234,124
1993	2,593	288,753
1994	2,606	252,547
1995	2,030	253,805
1996	2,369	195,916
1997	2,254	193,129
1998	2,338	207,498
1999	2,365	250,486
2000	2,786	386,126

SOURCE: Maui County Department of Public Works, records.

**8.1.2**  
**BUILDING PERMITS BY TYPE,**  
**MAUI COUNTY**

<b>1999 Type</b>	<b>Number</b>	<b>Value (\$)</b>
New Buildings		
Residential	694	124,097,468
Nonresidential	348	70,782,313
Residential and Nonresidential		
Additions, Alterations, and Conversions	919	47,431,784
Repairs, relocations, fencing, mechanical and temporary	299	5,323,730
Demolitions and Razing of Buildings	105	851,145
<b>Total</b>	<b>2,365</b>	<b>250,486,440</b>

SOURCE: Maui County Department of Public Works, records.

### 8.1.3

## BUILDING PERMITS ISSUED BY DISTRICT, MAUI COUNTY

1999 Districts	Number of Permits	Valuation
<b>Maui Island</b>	<b>2,204</b>	<b>240,378,038</b>
Haiku	256	17,103,001
Hana	40	2,577,224
Kahului	298	30,167,771
Kihei	482	80,501,036
Kula	164	14,612,510
Lahaina	459	53,547,434
Makawao	96	4,259,645
Paia	71	4,468,831
Pukalani	85	14,602,994
Wailuku	253	18,537,592
<b>Lanai</b>	<b>56</b>	<b>3,296,435</b>
<b>Molokai</b>	<b>105</b>	<b>6,811,968</b>
<b>Maui County</b>	<b>2,365</b>	<b>250,486,441</b>

SOURCE: Maui County Land Use and Codes Administration, records.

### 8.1.4

## PRIVATE RESIDENTIAL CONSTRUCTION AUTHORIZATIONS, MAUI COUNTY

	1992	1993	1994	1995	1996
<b>Authorized Housing Units (number)</b>					
New single-family units	810	660	673	473	601
New multi-family units	184	212	368	112	152
<b>Total</b>	<b>994</b>	<b>872</b>	<b>1,041</b>	<b>585</b>	<b>753</b>
<b>Permit Value (\$ thousands)</b>					
New single-family units	85,551	78,449	86,454	56,535	73,117
New multi-family units	8,404	9,742	18,360	9,968	8,010
Additions and alterations	26,490	22,393	18,806	14,728	13,795
<b>Total</b>	<b>120,445</b>	<b>110,584</b>	<b>123,620</b>	<b>81,231</b>	<b>94,922</b>

SOURCE: Bank of Hawaii, *Construction in Hawaii, 1997*, p. 28.

### 8.1.5

## BUILDING PERMITS AND CONSTRUCTION PUT IN PLACE, MAUI COUNTY

*In thousands of dollars*

Year	Private Permits	Total Permits	Put in Place
1984	59,840	68,034	68,593
1985	178,633	190,181	73,527
1986	154,120	203,265	92,586
1987	167,237	203,071	100,200
1988	408,477	451,287	145,706
1989	317,995	343,643	190,407
1990	433,936	460,906	260,318
1991	208,732	301,320	284,223
1992	200,915	219,992	234,946
1993	203,177	243,549	197,757
1994	194,752	230,116	207,770
1995	215,073	237,288	187,172
1996	155,955	181,360	180,021

NOTES: Total permits include private permits and authorizations for state and county construction of buildings. Highway and federal government construction are not represented in these totals. Put in Place data for neighbor islands are underreported, since some neighbor island work is reported on Oahu.

SOURCE: Bank of Hawaii, *Construction in Hawaii, 1997*, p. 26.

### 8.1.6

## PRIVATE AUTHORIZATIONS FOR NEW COMMERCIAL AND INDUSTRIAL CONSTRUCTION, MAUI COUNTY

*In millions of dollars*

	1992	1993	1994	1995	1996	Percent Change 96/95
Hotels	0.0	0.0	0.0	61.2	0.0	—
Office Buildings	3.9	5.8	7.0	1.9	7.3	291.5
Stores and Mercantile	6.8	10.2	6.9	8.1	9.8	22.2
Manufacturing Buildings	0.5	0.0	0.1	0.0	0.0	—
Miscellaneous	45.1	30.2	26.9	48.0	24.0	-50.0
<b>Total Authorizations</b>	<b>56.3</b>	<b>46.2</b>	<b>40.9</b>	<b>119.1</b>	<b>41.2</b>	<b>-65.4</b>

SOURCE: Bank of Hawaii, *Construction in Hawaii, 1997*, p. 11.

### 8.1.7

## PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, MAUI COUNTY

Year	New One Family Dwellings	New Duplex Units	New Apartments	Units Demolished <sup>1</sup>
1989	1,182	20	702	74
1990	1,068	60	748	53
1991	652	43	987	51
1992	748	20	160	64
1993	660	44	168	(NA)
1994 <sup>2</sup>	689	30	402	(NA)

<sup>1</sup> Excludes units destroyed by fire, volcanic activity, high winds, and other disasters.

<sup>2</sup> Preliminary data.

NA: Not available.

SOURCE: Hawaii State Department of Business, Economic Development & Tourism, Research and Economic Analysis Division, *Housing Unit Estimates for Hawaii, 1980-1995*, table 7.

### 8.1.8

## HOTEL CONSTRUCTION AUTHORIZATIONS, MAUI COUNTY

Year	Number of New Projects	New Construction (\$1,000)	Additions, Alterations and Repairs (\$1,000)	Total Construction (\$1,000)
1981	—	—	1,250	1,250
1982	2	27,715	900	28,615
1983	1	35,000	—	35,000
1984	—	—	—	—
1985	—	—	1,102	1,102
1986	—	—	5,243	5,243
1987	14	13,924	3,645	17,419
1988	8	168,310	600	168,910
1989	2	47,646	780	48,426
1990	4	104,061	10,320	114,381
1991	1	4,185	346	4,531
1992	—	—	1	1
1993	—	—	—	—
1994	—	—	1,587	1,587
1995	1	61,215	—	61,215
1996	—	—	2,182	2,182

NOTES: The above are totals for hotel housekeeping units only. Restaurants, spas, etc. are counted elsewhere.

SOURCE: Bank of Hawaii, *Construction in Hawaii, 1997*, p. 31.

8.1.9

**SUMMARY OF PRIVATE CONSTRUCTION AUTHORIZATIONS,  
MAUI COUNTY**

Year	Housing Inventory at April 1	NEW RESIDENTIAL				NEW NON-RESIDENTIAL		ADDITIONS & ALTERATIONS	
		Single-Family		Multi-Family		Permit Value (\$1,000)	Residential (\$1,000)	Non-residential (\$1,000)	
		Units	Value (\$1,000)	Units	Value (\$1,000)				
1970	14,039	474	8,996	583	8,408	13,163	953	3,309	
1980	33,154	803	34,896	1,815	171,325	33,176	8,988	4,475	
1981	34,887	398	21,328	1,001	86,322	15,044	7,052	13,294	
1982	36,108	530	25,095	122	4,896	46,731	4,880	8,915	
1983	36,539	547	30,227	24	3,315	45,785	5,272	6,650	
1984	36,665	638	34,467	6	380	12,542	6,039	6,412	
1985	36,687	984	111,658	457	24,333	24,319	9,934	1,535	
1986	37,303	911	56,579	506	33,298	27,946	15,944	20,353	
1987	38,579	1,119	76,122	608	19,681	38,949	10,940	21,545	
1988	39,646	1,453	111,012	1,160	52,557	215,863	11,788	17,257	
1989	41,168	1,136	119,518	535	75,582	89,931	15,370	17,594	
1990	42,261	1,068	126,620	808	61,620	190,924	20,738	34,034	
1991	44,262	694	71,866	1,041	39,538	46,694	26,419	24,214	
1992	45,941	810	85,551	184	8,404	56,277	26,490	24,193	
1993	47,219	660	78,449	212	9,742	46,241	22,393	46,352	
1994	48,087	673	86,454	368	18,360	40,895	18,806	30,236	
1995	49,151	473	56,535	112	9,968	119,930	14,728	14,713	
1996	NA	601	73,117	152	8,010	41,170	13,795	19,863	

SOURCE: Bank of Hawaii, *Construction in Hawaii*, 1997, p. 28.

## 8.1.10

## CONSTRUCTION ESTABLISHMENTS BY TYPE AND LOCATION, MAUI COUNTY

*Based on primary Standard Industrial Classification (SIC) code and zip code*

Establishment Type	Location	Number	Location	Number	Totals	
<b>General contractors and operative builders (SIC 15—)</b>						
	Haiku	54	Kula	36		
	Hana	10	Lahaina	26		
	Kahului	52	Makawao	60		
	Kihei	40	Wailuku	42	Maui subtotal	320
	Kaunakakai	14	Kualapuu	2		
	Lanai City	4			Total	340
<b>Heavy construction, except building (SIC 16—)</b>						
			Kahului	22		
	Kihei	4	Lahaina	2		
	Kula	12	Wailuku	8	Total	48
<b>Special trade contractors (SIC 170-)</b>						
			Kihei	6		
	Kula	2	Lahaina	2	Total	10
<b>Plumbing, heating, air-conditioning (SIC 171-)</b>						
			Haiku	4		
	Kahului	34	Lahaina	4		
	Kihei	10	Makawao	8		
	Kula	6	Wailuku	6	Maui subtotal	72
	Kaunakakai	2			Total	74
<b>Painting and paper hanging (SIC 172-)</b>						
	Haiku	2	Lahaina	4		
	Kahului	6	Makawao	4		
	Kihei	14	Paia	2		
	Kula	4	Wailuku	8	Total	44
<b>Electrical work (SIC 173-)</b>						
			Haiku	2		
	Kahului	20	Makawao	6		
	Kihei	6	Paia	4		
	Lahaina	14	Wailuku	22	Maui subtotal	74
	Hoolehua	2	Kaunakakai	2	Total	78
<b>Masonry, stonework, and plastering (SIC 174-)</b>						
	Haiku	12	Lahaina	4		
	Kahului	8	Makawao	10		
	Kihei	16	Paia	2		
	Kula	8	Wailuku	10	Total	70
<b>Carpentry and floor work (SIC 175-)</b>						
			Haiku	4		
	Kahului	8	Kula	2		
	Kihei	10	Makawao	10	Total	34
<b>Roofing, siding, and sheet metal work (SIC 176-)</b>						
	Haiku	2	Kula	2		
	Kahului	2	Makawao	4		
	Kihei	2	Wailuku	6	Total	18
<b>Concrete work (SIC 177-)</b>						
	Kahului	2	Kula	2		
	Kihei	4	Wailuku	2	Total	10
<b>Misc. special trade contractors, incl. admin. (SIC 179-)</b>						
	Haiku	2	Lahaina	4		
	Kahului	32	Makawao	6		
	Kihei	8	Wailuku	16	Maui subtotal	68
	Hoolehua	2	Lanai City	2	Total	72
					<b>Grand Total</b>	<b>690</b>

NOTE: Pukalani combined with Makawao, and Puunene combined with Kahului.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Zip Code Business Patterns 1995*, on CD-ROM.

## 8.2.1

### ESTIMATED VALUE OF LAND TRANSACTIONS, BY COUNTIES

*In thousands of dollars*

Year	State Total	Maui County	Hawaii County	City and County of Honolulu	Kauai County
1968	703,420	37,501	95,967	550,082	14,718
1969	807,565	75,257	108,728	596,427	27,153
1970	880,226	76,462	111,239	668,003	24,522
1971	1,043,539	71,480	131,267	812,545	28,247
1972	1,508,602	114,634	170,995	1,142,699	80,274
1973	1,928,888	189,958	212,170	1,441,073	85,687
1974	1,711,217	183,760	156,682	1,305,257	65,518
1975	1,445,116	194,478	138,289	1,064,559	47,790
1976	1,733,062	222,214	141,779	1,312,981	56,088
1977	2,152,230	384,122	209,366	1,471,172	87,570
1978	3,050,870	581,485	288,886	2,017,774	162,725
1979	4,475,715	643,711	545,192	3,009,059	277,753
1980	4,224,807	611,607	546,141	2,749,190	317,869
1981	3,200,331	424,994	397,740	2,078,739	298,858
1982	3,011,060	602,464	293,310	1,911,711	203,575
1983	3,272,167	423,712	359,695	2,333,882	154,878
1984	3,764,563	610,385	467,052	2,549,352	137,773
1985	3,778,078	562,563	359,835	2,581,678	274,002
1986	5,911,973	1,080,487	620,157	4,182,294	326,870
1987	7,020,141	1,169,182	641,667	4,820,850	388,442
1988	9,468,113	1,344,818	971,541	6,705,645	446,136
1989	13,303,281	2,446,997	1,671,483	8,514,926	669,875
1990	14,262,954	2,046,874	2,893,086	8,764,532	558,462
1991	7,483,344	1,028,857	983,728	4,793,933	676,826
1992	7,850,447	1,027,394	886,726	5,590,377	345,950
1993	12,270,676	1,753,255	1,345,225	8,621,058	551,138
1994	10,701,398	1,441,528	1,120,254	7,461,624	677,991
1995	6,424,925	847,727	849,799	4,465,410	261,990
1996	5,793,252	990,129	786,192	3,640,154	376,776
1997	6,298,003	1,057,281	851,136	4,042,187	347,399

SOURCE: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

## 8.2.2

### SELECTED HOUSING CHARACTERISTICS, MAUI COUNTY

*Data include some condominium units used or intended for use by transients*

<b>All Housing Units</b>	<b>42,160</b>
Units in Structure	
1 unit, detached	25,781
1 unit, attached	2,569
2 to 4 units	1,595
5 to 9 units	1,885
10 or more units	9,652
Mobile home, boat, other	678
Mean Number of Rooms	4.2
<b>Occupied Housing Units</b>	
Total	33,145
With 1.01 or more persons per room	5,411
<b>Vacant Housing Units</b>	
Total	9,015
For seasonal, recreational, or occasional use	5,944
Homeowner Vacancy Rate	1.5
Rental Vacancy Rate	9.9
<b>Owner-Occupied Housing Units</b>	
Total	19,083
Percent of All Occupied Units	57.6
Persons Per Unit	3.23
Mean Number of Rooms	5
<b>Value of Specified Owner-Occupied Housing Units<sup>1</sup></b>	
Total	15,566
Less than \$100,000	1,816
\$100,000 to \$199,999	5,857
\$200,000 to \$299,999	4,623
\$300,000 or more	3,270
Lower Quartile (dollars)	141,500
Median (dollars)	202,100
Upper Quartile (dollars)	284,300
<b>Renter-Occupied Housing Units</b>	
Total	14,062
Persons Per Unit	2.66
Mean Number of Rooms	3.6
<b>Contract Rent of Specified Renter-Occupied Units<sup>2</sup></b>	
Total	12,243
Less than \$250	1,368
\$250 to \$499	2,359
\$500 to \$749	3,878
\$750 to \$999	2,639
\$1,000 or more	1,999
Lower Quartile (dollars)	434
Median (dollars)	658
Upper Quartile (dollars)	899

<sup>1</sup> House and lot. Data limited to one-family houses on less than 10 acres without a business or medical office on the property.

<sup>2</sup> Excludes one-family houses on 10 acres or more.

SOURCE: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), tables 8, 10, and 12.



## 8.2.3

**HOUSING UNIT CHARACTERISTICS OF  
DIVISIONS AND CENSUS DESIGNATED PLACES (CDP),  
MAUI COUNTY**

Division and Place	ALL HOUSING UNITS		HOUSING UNITS OCCUPIED	
	Total	Mean Number of Rooms	Total	One or More Persons Per Room
<b>Maui County Total</b>	<b>42,160</b>	<b>4.2</b>	<b>33,145</b>	<b>5,411</b>
<b>Haiku-Pauwela division</b>	<b>2,074</b>	<b>4.4</b>	<b>1,916</b>	<b>316</b>
Haiku-Pauwela CDP	1,649	4.5	1,522	234
<b>Hana division</b>	<b>763</b>	<b>3.7</b>	<b>589</b>	<b>152</b>
Hana CDP	217	4.0	179	55
<b>Kahului division</b>	<b>5,084</b>	<b>4.4</b>	<b>4,970</b>	<b>1,097</b>
Kahului CDP (part)	5,084	4.4	4,970	1,097
<b>Kihei division</b>	<b>7,920</b>	<b>3.7</b>	<b>4,902</b>	<b>576</b>
Kihei CDP	6,497	3.7	4,133	536
Maalaea CDP	527	3.2	242	10
Wailea-Makena CDP (part)	890	4.2	523	30
<b>Kula division</b>	<b>4,330</b>	<b>4.6</b>	<b>2,989</b>	<b>250</b>
Wailea-Makena CDP (part)	2,180	4.4	1,023	66
<b>Lahaina division</b>	<b>7,739</b>	<b>3.5</b>	<b>4,868</b>	<b>840</b>
Kaanapali CDP	703	3.7	274	20
Kapalua CDP	921	2.5	115	13
Lahaina CDP	2,982	4.2	2,654	540
Napili-Honokowai CDP	3,080	3.1	1,775	254
<b>Makawao-Paia division</b>	<b>5,122</b>	<b>4.8</b>	<b>4,893</b>	<b>677</b>
Haliimaile CDP	240	4.8	234	54
Makawao CDP	1,801	4.6	1,735	252
Paia CDP	740	4.6	674	105
Pukalani CDP	1,898	5.0	1,841	238
<b>Puunene division</b>	<b>51</b>	<b>4.6</b>	<b>47</b>	<b>9</b>
Kahului CDP (part)	51	4.6	47	9
<b>Spreckelsville division</b>	<b>118</b>	<b>5.4</b>	<b>85</b>	<b>2</b>
Kahului CDP (part)	1	5	–	–
<b>Waihee-Waikapu division</b>	<b>691</b>	<b>5.2</b>	<b>655</b>	<b>113</b>
Waihee-Waiehu CDP (part)	280	4.9	265	52
Waikapu CDP	215	4.9	209	38
Wailuku CDP (part)	114	7.2	104	2
<b>Wailuku division</b>	<b>4,530</b>	<b>4.5</b>	<b>4,358</b>	<b>778</b>
Waihee-Waiehu CDP (part)	796	4.8	787	217
Wailuku CDP (part)	3,734	4.4	3,571	561
<b>East Molokai division</b>	<b>1,775</b>	<b>3.9</b>	<b>1,407</b>	<b>320</b>
Kaunakakai CDP	997	4.0	847	165
<b>West Molokai division</b>	<b>956</b>	<b>3.6</b>	<b>619</b>	<b>177</b>
Kualapuu CDP	493	3.9	456	150
Maunaloa CDP	130	4.5	118	24
<b>Lanai division</b>	<b>1,007</b>	<b>4.5</b>	<b>847</b>	<b>104</b>
Lanai City CDP	967	4.6	837	103

SOURCE: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 7.

## 8.2.4

### VACANT HOUSING UNIT CHARACTERISTICS BY CENSUS DESIGNATED PLACE (CDP), MAUI COUNTY

2000	All Housing Units	VACANT HOUSING UNITS			
		Total	Seasonal, Recreational or Occasional	Homeowner Vacancy Rate	Rental Vacancy Rate
<b>Maui County</b>	<b>56,377</b>	<b>12,870</b>	<b>9,746</b>	<b>1.2</b>	<b>7.2</b>
<b>Kalawao County (Kalaupapa)</b>	<b>172</b>	<b>57</b>	<b>31</b>	<b>100.0</b>	<b>0.0</b>
<b>Maui Island</b>					
Haiku-Pauwela CDP	2,454	144	63	0.8	2.2
Haliimaile CDP	260	6	0	0.6	1.3
Hana CDP	253	62	18	2.3	30.3
Kaanapali CDP	1,775	1,238	1,205	2.6	6.2
Kahului CDP	6,079	199	29	0.4	2.0
Kapalua CDP	831	645	457	2.4	71.1
Kihei CDP	9,170	3,000	2,442	1.7	8.0
Lahaina CDP	3,027	428	322	0.4	5.3
Maalaea CDP	600	337	272	0.0	33.3
Makawao CDP	2,222	71	20	0.9	1.2
Napili-Honokowai CDP	4,681	2,052	1,704	0.4	13.6
Paia CDP	890	107	63	1.3	6.5
Pukalani CDP	2,522	83	18	1.0	1.6
Waihee-Waiehu CDP	1,909	45	4	0.7	2.3
Waikapu CDP	360	13	0	1.5	2.4
Wailea-Makena CDP	5,099	2,579	2,401	4.5	2.5
Wailuku CDP	4,780	245	52	1.2	3.7
<b>Molokai</b>					
Kalawao County (Kalaupapa)	172	57	31	100.0	0.0
Kaunakakai CDP	962	95	28	2.4	7.7
Kualapuu CDP	592	28	7	1.1	6.8
Maunaloa CDP	91	26	1	33.3	24.0
<b>Lanai</b>					
Lanai City CDP	1,343	195	66	0.9	7.1

SOURCE: U.S. Bureau of the Census, *Census 2000 Profiles of General Demographic Characteristics, Hawaii* (May 2001).

## 8.2.5

## OCCUPIED HOUSING UNIT CHARACTERISTICS BY CENSUS DESIGNATED PLACE (CDP), MAUI COUNTY

2000	All Housing Units	OCCUPIED HOUSING UNITS			AVERAGE HOUSEHOLD SIZE	
		Total	by Owner	by Renter	Owner- Occupied Units	Renter- Occupied Units
<b>Maui County</b>	<b>56,377</b>	<b>43,507</b>	<b>25,039</b>	<b>18,468</b>	<b>3.13</b>	<b>2.62</b>
<b>Kalawao County (Kalaupapa)</b>	<b>172</b>	<b>115</b>	<b>0</b>	<b>115</b>	<b>0.00</b>	<b>1.28</b>
<b>Maui Island</b>						
Haiku-Pauwela CDP	2,454	2,310	1,416	894	3.01	2.54
Haliimaile CDP	260	254	176	78	3.45	3.68
Hana CDP	253	191	129	62	3.84	3.44
Kaanapali CDP	1,775	537	416	121	2.58	2.48
Kahului CDP	6,079	5,880	3,190	2,690	3.43	3.13
Kapalua CDP	831	186	120	66	2.35	2.80
Kihei CDP	9,170	6,170	3,007	3,163	3.00	2.42
Lahaina CDP	3,027	2,599	1,393	1,206	4.05	2.87
Maalaea CDP	600	263	151	112	1.74	1.71
Makawao CDP	2,222	2,151	1,207	944	3.18	2.63
Napili-Honokowai CDP	4,681	2,629	1,128	1,501	2.92	2.32
Paia CDP	890	783	523	260	3.26	2.78
Pukalani CDP	2,522	2,439	1,600	839	3.13	2.84
Waihee-Waiehu CDP	1,909	1,864	1,526	338	4.07	3.21
Waikapu CDP	360	347	264	83	3.26	3.07
Wailea-Makena CDP	5,099	2,520	1,386	1,134	2.34	2.14
Wailuku CDP	4,780	4,535	2,675	1,860	2.87	2.49
<b>Molokai</b>						
Kalawao County (Kalaupapa)	172	115	0	115	0.00	1.28
Kaunakakai CDP	962	867	531	336	3.34	2.79
Kualapuu CDP	592	564	441	123	3.49	3.22
Maunaloa CDP	91	65	8	57	4.63	3.39
<b>Lanai</b>						
Lanai City CDP	1,343	1,148	571	577	2.91	2.59

SOURCE: U.S. Bureau of the Census, *Census 2000 Profiles of General Demographic Characteristics, Hawaii* (May 2001).

## 8.2.6

**OWNER-OCCUPIED HOUSING UNIT VALUES IN  
DIVISIONS AND CENSUS DESIGNATED PLACES (CDP),  
MAUI COUNTY**

Division and Place	SPECIFIED OWNER-OCCUPIED HOUSING UNITS						
	Total	Less than \$50,000	\$50,000 to \$99,000	\$100,000 to \$149,000	\$150,000 to \$199,000	\$200,000 to \$299,000	\$300,000 or more
<b>Maui County Total</b>	<b>15,566</b>	<b>362</b>	<b>1,454</b>	<b>2,492</b>	<b>3,365</b>	<b>4,623</b>	<b>3,270</b>
<b>Haiku-Pauwela division</b>	<b>949</b>	<b>15</b>	<b>72</b>	<b>126</b>	<b>189</b>	<b>304</b>	<b>243</b>
Haiku-Pauwela CDP	768	9	60	113	158	243	185
<b>Hana division</b>	<b>272</b>	<b>31</b>	<b>66</b>	<b>48</b>	<b>34</b>	<b>40</b>	<b>53</b>
Hana CDP	101	4	25	30	17	14	11
<b>Kahului division</b>	<b>2,712</b>	<b>30</b>	<b>147</b>	<b>559</b>	<b>896</b>	<b>951</b>	<b>129</b>
Kahului CDP (part)	2,712	30	147	559	896	951	129
<b>Kihei division</b>	<b>1,420</b>	<b>5</b>	<b>28</b>	<b>117</b>	<b>292</b>	<b>616</b>	<b>362</b>
Kihei CDP	1,232	4	26	112	273	541	276
Maalaea CDP	8	1	—	—	1	—	6
Wailea-Makena CDP (part)	180	—	2	5	18	75	80
<b>Kula division</b>	<b>1,462</b>	<b>16</b>	<b>20</b>	<b>69</b>	<b>138</b>	<b>370</b>	<b>849</b>
Wailea-Makena CDP (part)	433	—	—	4	11	58	360
<b>Lahaina division</b>	<b>1,608</b>	<b>20</b>	<b>45</b>	<b>156</b>	<b>316</b>	<b>552</b>	<b>519</b>
Kaanapali CDP	74	—	2	—	—	11	61
Kapalua CDP	12	—	—	—	—	2	10
Lahaina CDP	1,140	19	35	115	223	426	322
Napili-Honokowai CDP	360	1	7	39	91	103	119
<b>Makawao-Paia division</b>	<b>2,905</b>	<b>39</b>	<b>183</b>	<b>469</b>	<b>731</b>	<b>943</b>	<b>540</b>
Haliimaile CDP	160	5	24	48	54	26	3
Makawao CDP	1,001	5	53	161	305	336	141
Paia CDP	424	16	78	115	89	66	60
Pukalani CDP	1,132	11	19	136	270	485	211
<b>Puunene division</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
Kahului CDP (part)	—	—	—	—	—	—	—
<b>Spreckelsville division</b>	<b>42</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>4</b>	<b>38</b>
Kahului CDP (part)	—	—	—	—	—	—	—
<b>Waihee-Waikapu division</b>	<b>399</b>	<b>12</b>	<b>54</b>	<b>71</b>	<b>47</b>	<b>84</b>	<b>131</b>
Waihee-Waiehu CDP (part)	165	3	31	35	25	41	30
Waikapu CDP	117	5	18	33	19	26	16
Wailuku CDP (part)	83	—	—	—	—	6	77
<b>Wailuku division</b>	<b>2,228</b>	<b>58</b>	<b>303</b>	<b>448</b>	<b>468</b>	<b>618</b>	<b>333</b>
Waihee-Waiehu CDP (part)	637	20	100	139	123	214	41
Wailuku CDP (part)	1,591	38	203	309	345	404	292
<b>East Molokai division</b>	<b>830</b>	<b>55</b>	<b>262</b>	<b>222</b>	<b>148</b>	<b>89</b>	<b>54</b>
Kaunakakai CDP	519	26	186	147	94	54	12
<b>West Molokai division</b>	<b>287</b>	<b>60</b>	<b>113</b>	<b>57</b>	<b>33</b>	<b>11</b>	<b>13</b>
Kualapuu CDP	275	60	113	56	33	10	3
Maunaloa CDP	—	—	—	—	—	—	—
<b>Lanai division</b>	<b>452</b>	<b>21</b>	<b>161</b>	<b>150</b>	<b>73</b>	<b>41</b>	<b>6</b>
Lanai City CDP	451	21	161	150	72	41	6

Note: 2000 data not released as of June 15, 2001. Check our website for updates. <http://www.brl-sbdc.org/brlprod.htm>.

SOURCE: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 9.

## 8.2.7

**RENTER-OCCUPIED HOUSING UNIT CHARACTERISTICS  
IN DIVISIONS AND CENSUS DESIGNATED PLACES (CDP),  
MAUI COUNTY**

Division and Place	ALL RENTER-OCCUPIED HOUSING UNITS			
	Total	One Unit, Detached or Attached	Persons Per Unit	Mean Number of Rooms
<b>Maui County Total</b>	<b>14,062</b>	<b>9,423</b>	<b>2.66</b>	<b>3.6</b>
<b>Haiku-Pauwela division</b>	<b>764</b>	<b>713</b>	<b>2.70</b>	<b>3.7</b>
Haiku-Pauwela CDP	614	570	2.68	3.8
<b>Hana division</b>	<b>257</b>	<b>234</b>	<b>2.75</b>	<b>3.3</b>
Hana CDP	69	59	3.06	3.5
<b>Kahului division</b>	<b>1,996</b>	<b>1,397</b>	<b>2.91</b>	<b>3.4</b>
Kahului CDP (part)	1,996	1,397	2.91	3.4
<b>Kihei division</b>	<b>2,412</b>	<b>1,301</b>	<b>2.46</b>	<b>3.5</b>
Kihei CDP	2,074	1,163	2.48	3.5
Maalaea CDP	117	11	1.86	3.0
Wailea-Makena CDP (part)	219	125	2.59	4.2
<b>Kula division</b>	<b>1,217</b>	<b>1,088</b>	<b>2.40</b>	<b>3.8</b>
Wailea-Makena CDP (part)	479	394	2.20	3.6
<b>Lahaina division</b>	<b>2,564</b>	<b>1,041</b>	<b>2.56</b>	<b>3.3</b>
Kaanapali CDP	88	20	2.27	3.7
Kapalua CDP	51	12	2.16	3.4
Lahaina CDP	1,313	802	2.91	3.6
Napili-Honokowai CDP	1,087	187	2.16	2.8
<b>Makawao-Paia division</b>	<b>1,684</b>	<b>1,547</b>	<b>2.80</b>	<b>4.1</b>
Haliimaile CDP	58	54	3.40	3.8
Makawao CDP	637	583	2.83	4.1
Paia CDP	200	175	2.53	4.1
Pukalani CDP	626	590	2.95	4.2
<b>Puunene division</b>	<b>47</b>	<b>43</b>	<b>3.21</b>	<b>4.6</b>
Kahului CDP (part)	47	43	3.21	4.6
<b>Spreckelsville division</b>	<b>37</b>	<b>36</b>	<b>2.11</b>	<b>4.1</b>
Kahului CDP (part)	–	–	–	–
<b>Waihee-Waikapu division</b>	<b>191</b>	<b>170</b>	<b>3.24</b>	<b>4.2</b>
Waihee-Waiehu CDP (part)	84	74	3.19	4.1
Waikapu CDP	72	64	3.01	4.2
Wailuku CDP (part)	10	9	3.30	5.8
<b>Wailuku division</b>	<b>1,758</b>	<b>955</b>	<b>2.64</b>	<b>3.4</b>
Waihee-Waiehu CDP (part)	115	102	3.43	4.0
Wailuku CDP (part)	1,643	853	2.58	3.4
<b>East Molokai division</b>	<b>511</b>	<b>361</b>	<b>2.65</b>	<b>3.3</b>
Kaunakakai CDP	304	203	2.40	3.5
<b>West Molokai division</b>	<b>239</b>	<b>212</b>	<b>3.35</b>	<b>4.0</b>
Kualapuu CDP	98	98	3.50	3.5
Maunaloa CDP	118	106	3.43	4.6
<b>Lanai division</b>	<b>385</b>	<b>325</b>	<b>2.73</b>	<b>4.3</b>
Lanai City CDP	376	318	2.74	4.3

Note: 2000 data not released as of June 15, 2001. Check our website for updates. <http://www.brl-sbdc.org/brlprod.htm>.

SOURCE: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 11.

## 8.2.8

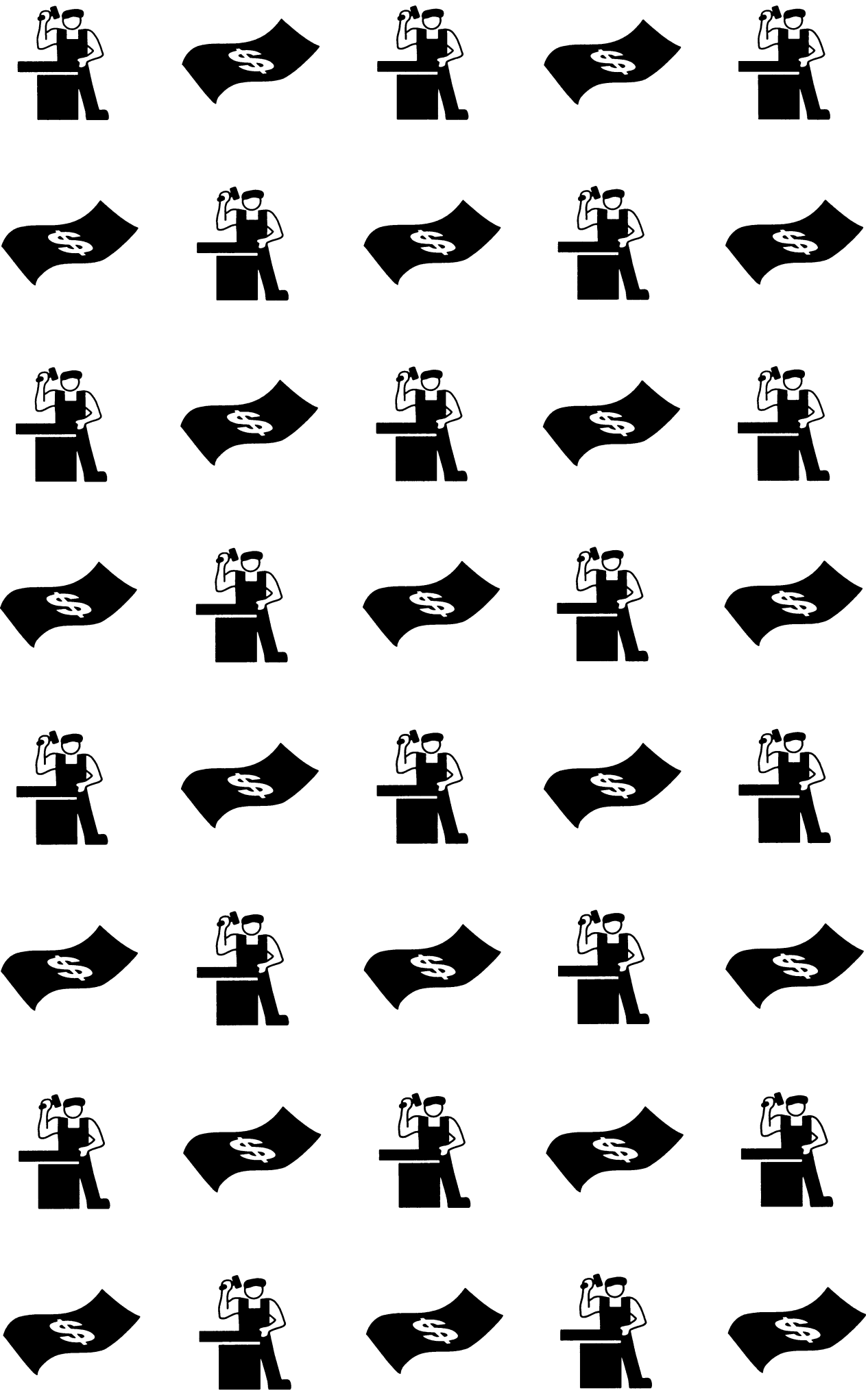
**CONTRACT RENT OF RENTER-OCCUPIED HOUSING  
UNITS IN DIVISIONS AND CENSUS DESIGNATED PLACES  
(CDP), MAUI COUNTY**

Division and Place	SPECIFIED RENTER-OCCUPIED HOUSING UNITS PAYING CASH RENT					
	Total	Less than \$250	\$250 to \$499	\$500 to \$749	\$750 to \$999	\$1,000 or more
<b>Maui County Total</b>	<b>12,243</b>	<b>1,368</b>	<b>2,359</b>	<b>3,878</b>	<b>2,639</b>	<b>1,999</b>
<b>Haiku-Pauwela division</b>	<b>611</b>	<b>46</b>	<b>147</b>	<b>233</b>	<b>124</b>	<b>61</b>
Haiku-Pauwela CDP	503	36	119	195	102	51
<b>Hana division</b>	<b>124</b>	<b>31</b>	<b>41</b>	<b>35</b>	<b>10</b>	<b>7</b>
Hana CDP	43	6	13	16	5	3
<b>Kahului division</b>	<b>1,732</b>	<b>321</b>	<b>423</b>	<b>645</b>	<b>285</b>	<b>58</b>
Kahului CDP (part)	1,732	321	423	645	285	58
<b>Kihei division</b>	<b>2,263</b>	<b>22</b>	<b>177</b>	<b>730</b>	<b>683</b>	<b>651</b>
Kihei CDP	1,952	19	171	650	587	525
Maalaea CDP	110	1	1	41	41	26
Wailea-Makena CDP (part)	200	2	4	39	55	100
<b>Kula division</b>	<b>954</b>	<b>33</b>	<b>107</b>	<b>299</b>	<b>247</b>	<b>268</b>
Wailea-Makena CDP (part)	401	2	15	93	120	171
<b>Lahaina division</b>	<b>2,377</b>	<b>167</b>	<b>271</b>	<b>682</b>	<b>661</b>	<b>596</b>
Kaanapali CDP	67	–	14	13	6	34
Kapalua CDP	44	–	3	7	9	25
Lahaina CDP	1,212	137	207	341	241	286
Napili-Honokowai CDP	1,037	26	44	316	403	248
<b>Makawao-Paia division</b>	<b>1,447</b>	<b>54</b>	<b>232</b>	<b>501</b>	<b>424</b>	<b>236</b>
Haliimaile CDP	50	4	17	17	8	4
Makawao CDP	561	10	61	187	214	89
Paia CDP	169	13	40	54	31	31
Pukalani CDP	551	17	101	198	148	87
<b>Puunene division</b>	<b>42</b>	<b>42</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
Kahului CDP (part)	42	42	–	–	–	–
<b>Spreckelsville division</b>	<b>24</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>10</b>
Kahului CDP (part)	–	–	–	–	–	–
<b>Waihee-Waikapu division</b>	<b>137</b>	<b>21</b>	<b>37</b>	<b>47</b>	<b>10</b>	<b>22</b>
Waihee-Waiehu CDP (part)	54	9	13	16	3	13
Waikapu CDP	66	9	22	27	5	3
Wailuku CDP (part)	8	1	–	1	1	5
<b>Wailuku division</b>	<b>1,566</b>	<b>170</b>	<b>618</b>	<b>530</b>	<b>173</b>	<b>75</b>
Waihee-Waiehu CDP (part)	105	12	22	18	25	28
Wailuku CDP (part)	1,461	158	596	512	148	47
<b>East Molokai division</b>	<b>435</b>	<b>146</b>	<b>157</b>	<b>118</b>	<b>13</b>	<b>1</b>
Kaunakakai CDP	288	105	111	62	10	–
<b>West Molokai division</b>	<b>210</b>	<b>66</b>	<b>99</b>	<b>37</b>	<b>1</b>	<b>7</b>
Kualapuu CDP	78	16	31	30	–	1
Maunaloa CDP	117	50	65	1	–	1
<b>Lanai division</b>	<b>321</b>	<b>246</b>	<b>46</b>	<b>17</b>	<b>5</b>	<b>7</b>
Lanai City CDP	314	241	46	17	3	7

Note: 2000 data not released as of June 15, 2001. Check our website for updates. <http://www.brl-sbdc.org/brlprod.htm>.

SOURCE: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 11.

# Finance & Labor



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## Section 9

### FINANCE & LABOR

Part one of this section presents statistics on the financial institutions on Maui. Part two includes figures for Maui County's labor force.

The civilian labor force for 1999 was 71,650 and the number of employed was 67,550. The unemployment rate declined 1.1% between 1998 and 1999.

Data for this section came from the Hawaii State Department of Business, Economic Development and Tourism, the Hawaii Credit Union League, the Hawaii Department of Industrial Labor and Relations and the Hawaii Employer's Council.



### 9.1.1

## NUMBER OF FINANCIAL INSTITUTIONS BY TYPE, MAUI COUNTY

*As of December 31*

	Maui	Lanai	Molokai
Banks			
Firms	5	2	1
Locations	21	2	1
Savings and Loans Associations			
Associations	3	0	1
Locations	10	0	1
Trust Companies			
Firms	0	0	0
Locations	0	0	0
Financial Services Loan Companies			
Firms	7	0	1
Locations	9	0	1

SOURCE: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records, calendar year 1999.

### 9.1.2

## DEPOSITS IN OFFICES OF FDIC-INSURED INSTITUTIONS, MAUI COUNTY

*In thousands of dollars*

Location	TOTAL DEPOSITS AS OF JUNE 30					
	1994	1995	1996	1997	1998	1999
Hana	2,897	3,215	2,642	2,744	2,707	2,833
Kahului	483,408	482,437	487,724	501,977	510,333	507,291
Kihei	133,282	138,750	140,620	147,638	160,858	170,478
Lahaina	203,244	196,910	211,239	204,676	217,163	232,856
Pukalani	75,875	80,903	85,320	89,515	96,238	102,084
Paia	19,024	18,938	18,082	20,017	21,649	23,666
Wailuku	202,740	203,481	204,009	206,596	205,942	230,293
Kaunakakai	43,396	44,226	46,305	45,018	48,378	49,609
Lanai City	22,308	23,161	22,894	24,502	23,382	23,411
<b>Total</b>	<b>1,186,174</b>	<b>1,192,021</b>	<b>1,218,835</b>	<b>1,242,683</b>	<b>1,286,650</b>	<b>1,342,521</b>

NOTES: Office locations were determined by zip code. FDIC-Insured institutions are commercial banks and savings associations. Deposits include savings and checking accounts, certificates of deposit, IRAs and Keogh Plans, trust funds and escrow accounts. See "deposits" in glossary accompanying Reports of Condition and Income instructions for precise definition.

SOURCE: Federal Deposit Insurance Corporation, *FDIC/OTS Summary of Deposits* (annual), database available at <http://www.fdic.gov>.

### 9.1.3

## FEDERAL CREDIT UNIONS BY ASSET SIZE, MEMBERSHIP AND LOANS, MAUI COUNTY

December 1999	Location	County Rank	State Rank	Assets (dollars)	Loans (dollars)	Members
Maui County Employees	Wailuku	1	14	62,024,698	30,250,609	7,687
H C & S	Kahului	2	18	42,723,140	10,893,404	6,528
Kahului	Kahului	3	28	30,228,197	12,029,913	4,630
Maui Land & Pine	Kahului	4	29	29,048,221	10,159,825	4,143
Kula Community	Kula	5	33	23,329,230	10,483,292	3,904
Wailuku	Wailuku	6	41	18,446,319	7,799,793	3,382
Pioneer Mill	Lahaina	7	43	17,713,348	3,101,043	1,830
Lanai	Lanai City	8	47	13,885,439	3,291,690	2,102
Maui Teachers	Wailuku	9	61	10,277,239	2,152,152	1,617
Molokai Community	Kaunakakai	10	66	7,823,637	4,403,725	3,288
Lahaina	Lahaina	11	77	5,361,579	2,480,473	2,535
Wailuku Agribusiness	Wailuku	12	88	3,191,778	1,755,846	850
First Hawaiian Homes	Hoolehua	13	101	1,416,346	969,711	871
<b>Maui County Total</b>				<b>265,469,171</b>	<b>99,771,476</b>	<b>43,367</b>
<b>Statewide Total</b>				<b>3,911,738,643</b>	<b>2,009,850,683</b>	<b>589,935</b>

SOURCE: National Credit Union Administration, "Call Report Data Files under FOIA for December 1999 (final)."

### 9.1.4

## FEDERAL CREDIT UNION CHARACTERISTICS, MAUI COUNTY

	1996	1997	1998	1999
Number of Credit Unions	13	13	13	13
Total Members	42,496	43,320	42,947	43,367
Total Assets	226,238,045	233,328,263	248,486,530	265,469,171
Total Shares and Deposits	185,063,063	189,820,794	203,179,151	217,693,077
Number of Share & Deposit Accounts	47,180	48,451	49,409	51,388
Total Loans	93,551,716	97,762,742	96,103,956	99,771,476
Number of Loans	12,801	12,566	12,395	12,368

SOURCE: National Credit Union Administration, "Call Report Data Files under FOIA (final)", December 1996, 1997, 1998 and 1999.

## 9.2.1

### CIVILIAN LABOR FORCE SUMMARY, STATE OF HAWAII AND COUNTIES

*Annual averages*

	Maui County	Hawaii County	Kauai County	City & County of Honolulu	State of Hawaii
<b>Civilian Labor Force</b>					
1994	65,800	65,350	28,650	420,350	580,150
1995	65,800	64,150	28,350	418,150	576,400
1996	68,050	67,250	29,000	429,350	593,600
1997	69,250	68,750	28,600	428,100	594,700
1998	69,950	68,600	28,650	427,150	594,350
1999	71,400	69,400	28,900	423,150	592,800
2000	72,400	70,100	29,400	423,500	595,450
<b>Employed</b>					
1994	61,300	58,300	24,550	400,850	545,000
1995	61,000	57,600	25,100	398,950	542,650
1996	63,050	60,550	25,450	406,650	555,750
1997	64,050	61,750	25,400	405,450	556,650
1998	65,200	61,950	25,800	404,250	557,200
1999	67,300	63,350	26,650	402,250	559,600
2000	69,350	65,450	27,500	407,600	569,900
<b>Unemployed</b>					
1994	4,500	7,100	4,100	19,500	35,150
1995	4,800	6,550	3,250	19,200	33,800
1996	4,950	6,650	3,550	22,700	37,850
1997	5,200	7,000	3,250	22,650	38,050
1998	4,750	6,600	2,850	22,950	37,150
1999	4,050	6,050	2,200	20,900	33,200
2000	3,050	4,650	1,900	15,900	25,500
<b>Percent Unemployed</b>					
1994	6.8	10.8	14.3	4.6	6.1
1995	7.3	10.2	11.4	4.6	5.9
1996	7.3	9.9	12.2	5.3	6.4
1997	7.5	10.2	11.3	5.3	6.4
1998	6.8	9.6	9.9	5.4	6.2
1999	5.7	8.7	7.7	4.9	5.6
2000	4.2	6.7	6.5	3.8	4.3

NOTE: Except for percent unemployed, data rounded to nearest 50. Totals may not add due to rounding.

SOURCE: Hawaii State Department of Labor and Industrial Relations, World Wide Web site, <http://www.state.hi.us/dlir/rs/loihi/LFR/>, and records.

## 9.2.2

### EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE BY ISLAND, MAUI COUNTY

*Annual averages*

	Maui County	Maui	Molokai	Lanai
<b>Civilian Labor Force</b>				
1985	46,950	43,550	2,300	1,050
1986	48,600	45,050	2,500	1,050
1987	51,600	48,050	2,600	1,000
1988	52,750	49,200	2,450	1,050
1989	55,000	51,300	2,250	1,450
1990	56,500	52,400	2,700	1,400
1991	61,500	57,300	2,650	1,550
1992	65,900	61,250	3,050	1,600
1993	66,000	61,600	2,850	1,550
1994 <sup>1</sup>	65,800	61,400	2,900	1,500
1995	65,800	61,200	2,950	1,600
1996	68,050	63,250	3,100	1,650
1997	69,250	64,700	2,850	1,700
1998 r	69,950	65,350	2,950	1,650
1999 r	71,400	66,600	3,000	1,750
2000	72,400	67,550	3,100	1,800
<b>Civilian Employment</b>				
1985	44,150	41,300	2,000	850
1986	46,050	42,950	2,150	900
1987	49,350	46,250	2,250	850
1988	51,000	47,800	2,250	950
1989	53,550	50,200	2,050	1,300
1990	53,800	50,300	2,200	1,300
1991	58,200	54,350	2,400	1,450
1992	60,250	56,200	2,550	1,500
1993	62,500	58,500	2,600	1,400
1994 <sup>1</sup>	61,300	57,350	2,600	1,350
1995	61,000	56,850	2,600	1,550
1996	63,050	58,900	2,600	1,550
1997	64,050	60,000	2,450	1,600
1998 r	65,200	61,100	2,500	1,600
1999 r	67,300	63,050	2,600	1,650
2000	69,350	65,000	2,650	1,700

## 9.2.2

CONTINUED

	Maui County	Maui	Molokai	Lanai
<b>Civilian Unemployment</b>				
1985	2,800	2,250	300	200
1986	2,550	2,100	350	100
1987	2,250	1,800	300	150
1988	1,750	1,450	200	100
1989	1,450	1,100	200	100
1990	2,700	2,100	500	100
1991	3,300	2,950	250	100
1992	5,650	5,050	500	150
1993	3,450	3,100	250	150
1994 <sup>1</sup>	4,500	4,050	300	100
1995	4,800	4,400	350	100
1996	4,950	4,400	500	100
1997	5,200	4,650	400	100
1998 r	4,750	4,250	450	50
1999 r	4,050	3,550	450	100
2000	3,050	2,550	450	50
<b>Unemployment Rate</b>				
1985	5.9	5.2	13.0	20.1
1986	5.3	4.7	13.4	11.5
1987	4.4	3.7	12.2	14.9
1988	3.3	2.9	8.8	7.5
1989	2.6	2.2	9.8	8.3
1990	4.8	4.1	18.1	5.9
1991	5.4	5.1	10.1	6.7
1992	8.6	8.3	16.0	7.8
1993	5.3	5.0	8.4	8.9
1994 <sup>1</sup>	6.8	6.6	10.8	7.1
1995	7.3	7.2	11.4	5.3
1996	7.3	6.9	15.9	5.8
1997	7.5	7.2	14.8	5.9
1998 r	6.8	6.5	14.9	3.5
1999 r	5.7	5.3	14.2	4.4
2000	4.2	3.8	14.0	3.5

<sup>1</sup> Data beginning 1994 may not be strictly comparable to previous years.

NOTE: Except for percent unemployed, data rounded to nearest 50. Totals may not add due to rounding.

SOURCE: Hawaii State Department of Labor and Industrial Relations, World Wide Web site, <http://www.state.hi.us/dlir/rs/loihi/LFR/>, and records.

### 9.2.3

## LABOR FORCE BY RACE AND SEX, MAUI COUNTY

Race or Sex	Civilian Labor Force	Employ- ed	Un- employed	PERCENT DISTRIBUTION			Unem- ployment Rate
				Civilian Labor Force	Employ- ed	Un- employed	
<b>Total</b>	<b>68,800</b>	<b>63,650</b>	<b>5,150</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>7.5</b>
White	29,150	27,150	2,050	42.4	42.6	39.4	7.0
Asian/Pacific Islander	37,950	35,000	2,950	55.1	54.9	57.4	7.8
Japanese	10,800	10,450	300	15.7	16.5	6.1	2.9
Filipino	14,500	13,450	1,050	21.1	21.2	20.3	7.2
Hawaiian	9,600	8,250	1,300	13.9	13.0	25.7	13.8
Chinese	1,450	1,350	100	2.1	2.1	2.2	7.8
Korean	350	300	*	0.5	0.5	0.4	6.0
Other A/P Islander	1,250	1,100	150	1.8	1.7	2.6	10.9
Black	250	250	0	0.3	0.4	0.0	0.0
American Indian/Eskimo/Aleut	500	400	100	0.7	0.6	2.0	20.1
Other Race	950	900	50	1.4	1.4	1.3	6.7
Minority Group	39,650	36,550	3,150	57.6	57.4	60.6	7.9
Hispanic (all races)	4,800	4,450	350	7.0	7.0	6.8	7.2
<b>Female</b>	<b>30,800</b>	<b>28,650</b>	<b>2,150</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>6.9</b>
White	12,550	11,600	950	40.8	40.5	45.4	7.7
Asian/Pacific Islander	17,600	16,550	1,050	57.1	57.8	48.8	5.9
Japanese	4,950	4,800	150	16.0	16.7	6.3	2.7
Filipino	6,900	6,550	350	22.4	22.9	16.2	5.0
Hawaiian	4,450	3,900	550	14.4	13.6	25.0	12.1
Chinese	700	700	0	2.3	2.4	0.0	0.0
Korean	200	200	0	0.6	0.6	0.0	0.0
Other A/P Islander	450	450	50	1.5	1.5	1.3	6.0
Black	50	50	0	0.2	0.2	0.0	0.0
American Indian/Eskimo/Aleut	300	200	100	1.0	0.7	4.8	34.3
Other Race	300	250	*	0.9	0.9	1.0	7.3
Minority Group	18,200	17,050	1,150	59.2	59.5	54.6	6.4
Hispanic (all races)	2,050	1,900	150	6.7	6.7	7.3	7.5
All Female as Percent of Total	44.7%	45.0%	41.4%				

\* Less than 25.

NOTES: 1) Totals may not add due to rounding. 2) Hispanic origin is classified apart from race (all Hispanic people are given a race, so someone who is Hispanic could also be Asian-American, for example). The definition is the same as the Census.

SOURCE: Hawaii Department of Labor and Industrial Relations, *Update to Affirmative Action*, 1997.

## 9.2.4

## ANNUAL AVERAGE JOBCOUNT BY INDUSTRY AND ISLAND, MAUI COUNTY

Industry, 2000	Maui County	Maui	Molokai	Lanai
<b>TOTAL NONAGRICULTURAL WAGE &amp; SALARY JOBS</b>	<b>60,450</b>	<b>56,850</b>	<b>2,000</b>	<b>1,600</b>
<b>Total Goods Producing</b>	<b>4,400</b>	<b>4,300</b>	<b>50</b>	<b>50</b>
Construction and Mining	2,650	2,500	50	50
Manufacturing	1,750	1,750	*	*
Durable Goods	300	300	—	—
Lumber & Wood Products	50	*	—	—
Stone, Glass & Clay	150	150	—	—
Nondurable Goods	1,450	1,450	—	—
Food Processing	1,050	1,050	—	—
Printing & Publishing	300	300	—	—
<b>Total Service Producing</b>	<b>56,050</b>	<b>52,550</b>	<b>1,950</b>	<b>1,550</b>
Transportation, Communication and Utilities	4,500	4,350	100	50
Transportation	3,500	3,400	50	—
Air Transportation	1,050	1,000	—	—
Communication	450	450	—	—
Utilities	550	500	—	—
Trade	16,700	16,250	300	150
Wholesale	1,550	1,500	*	*
Retail	15,150	14,750	300	150
General Merchandise	1,100	1,050	*	—
Grocery	1,350	1,250	100	—
Apparel & Accessory	1,050	1,050	*	—
Eating & Drinking Establishments	6,950	6,850	50	—
Finance, Insurance and Real Estate	3,000	2,650	250	100
Services & Miscellaneous	24,000	22,250	700	1,050
Hotels	11,450	10,450	150	850
Health Services	2,400	2,200	150	—
Hospitals	100	—	100	—
Business Services	2,300	2,300	—	—
Social Services	1,400	1,200	200	—
Educational Services	450	450	*	—
Engineering, Accounting, & Mgmt. Services	700	600	—	—
Government	7,850	7,050	600	200
Federal	600	550	*	*
State	5,350	4,800	400	150
State Education (Dept. of Ed. & U. of Hawaii)	2,900	2,600	250	100
Local	1,900	1,700	150	50
<b>AGRICULTURAL JOBS</b>	<b>1,950</b>	<b>1,900</b>	<b>100</b>	<b>—</b>

NOTES: Data rounded to nearest 50. Totals may not add due to rounding.

\* Fewer than 50.

SOURCE: Hawaii State Department of Labor and Industrial Relations, World Wide Web site <http://www.hawaii.gov/workforce>.

9.2.5

**AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, MAUI COUNTY**

*In dollars*

<b>2000 Job Classification<sup>1</sup></b>	<b>State Average</b>	<b>Maui County</b>
<b>Annual Rates</b>		
Clerk, Intermediate Level	23,496	21,611
Secretary	30,056	29,578
Executive Secretary	35,402	34,070
Switchboard Operator/Receptionist	22,880	27,830
Customer Service Clerk	26,000	25,300
Accounts Payable/Receivable Clerk	24,024	24,124
Teller	18,450	19,609
<b>Hourly Rates</b>		
Sales Clerk, Non-Commission	8.00	9.91
Groundskeeper	11.48	11.91
Building Maintenance Repairer	15.57	15.95
Automotive Mechanic	18.04	17.96
Warehouse Worker	10.54	12.35

<sup>1</sup> The 12 job titles listed in this table only a portion of the job classifications in the full report; refer to the source for complete information.





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## Section 10

### VISITOR INDUSTRY & RECREATION

This section presents statistics on numbers of visitors, visitor plant inventory, and visitor expenditures. In addition you will find information about recreation on the island including attendance at recreational events, and visitors to Maui County attractions.

Information on tourism is supplied primarily by the Hawaii State Department of Business, Economic Development and Tourism, Research and Economic analysis Division. They have assumed the collection and analysis of visitor data since July 1998.

## 10.1.1

### AVERAGE DAILY VISITOR CENSUS, BY COUNTIES

*Average number of visitors present in each county on any given day*

Year	State Total	Maui County	Hawaii County	Oahu	Kauai County
1977	83,030	12,468	7,195	57,342	6,025
1978	92,034	14,492	8,094	62,379	7,069
1979	98,676	15,598	7,996	67,688	7,394
1980	96,417	15,363	7,195	66,680	7,259
1981	95,968	15,727	6,561	66,455	7,225
1982	105,310	18,090	6,725	73,445	7,050
1983	108,040	24,670	8,690	66,695	7,990
1984	118,660	32,790	7,570	67,370	10,930
1985	116,700	31,910	8,040	65,280	11,470
1986	132,910	34,330	9,870	73,870	14,840
1987	134,270	33,890	10,210	74,660	15,510
1988 <sup>1</sup>	141,410	33,870	10,690	80,450	16,400
1989	169,670	44,020	17,760	88,750	19,140
1990 r	154,516	37,657	16,698	82,783	17,378
1991 r	147,323	37,060	17,535	75,008	17,720
1992 r	152,666	41,854	19,297	77,999	13,516
1993 r	147,498	42,132	18,974	78,108	8,283
1994 r	156,630	42,933	18,902	81,526	13,268
1995 r	157,098	42,751	18,547	81,362	14,439
1996 r	158,730	42,724	19,337	81,054	15,615
1997 r	157,188	43,383	21,656	76,150	15,999
1998 r	157,389	42,864	23,993	72,623	17,909
1999 r	164,439	43,992	22,736	79,497	18,214
2000 p	169,456	NA	NA	NA	NA

NOTES: Average daily census is based on intention to visit each island. Eastbound and northbound visitors counts are based on a 20 percent sample through 1983 and a 10 percent sample thereafter. Westbound visitor counts are based on the form distributed on all Hawaii-bound flights of all domestic airlines. Data beginning with 1990 are not strictly comparable to previous years.

<sup>1</sup> All eastbound visitor days were attributed to Oahu through 1988.

r: Revised. p: Preliminary. NA: Not available.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, "December 2000 Arrivals at a Glance;" **1999 Annual Visitor Research Report**; "Historical Visitor Data," <http://www.state.hi.us/dbedt/monthly/historical-r.xls>; and records.

## 10.1.2

### VISITOR ARRIVALS, MAUI COUNTY

*Data cover visitors to the state staying overnight or longer,  
and include one-day (non-overnight) trips*

Westbound Visitors			
1975		931,863	
1976		1,110,726	
1977		1,257,142	
1978		1,403,054	
1979		1,419,773	
1980		1,378,189	
1981		1,389,892	
1982		1,550,080	
1983		1,645,720	
1984		1,854,690	
1985		1,831,110	
1986		2,001,870	
1987		1,908,780	
1988		1,884,050	
	<b>International Visitors<sup>1</sup></b>	<b>Domestic Visitors</b>	<b>Total Visitors</b>
1989 <sup>2</sup>	400,860	2,113,100	2,513,960
1990 r	469,239	1,815,623	2,284,862
1991 r	483,224	1,692,382	2,175,606
1992 r	569,241	1,754,371	2,323,612
1993 r	569,204	1,693,910	2,263,114
1994 r	531,610	1,808,906	2,340,516
1995 r	564,092	1,762,705	2,326,797
1996 r	586,576	1,732,034	2,318,610
1997 r	542,018	1,788,366	2,330,384
1998 r	527,950	1,776,165	2,304,115
1999 r	480,471	1,866,531	2,347,002
2000 p	461,183	1,917,669	2,378,852

<sup>1</sup> Due to the need for timely and market-specific visitor statistics arising from the establishment of the Hawaii Tourism Authority, collection and reporting of visitor statistics has been extensively revised. The previous visitor categorization as eastbound (visitors who arrive mainly from Asia, Australia and New Zealand) and westbound (visitors who arrive from the US mainland and Canada) has been replaced by a domestic and international breakdown of visitors.

<sup>2</sup> The subcategories for 1989 were eastbound (visitors arriving mainly from Asia, Australia and New Zealand) and westbound (arriving from the US mainland and Canada). County distribution for eastbound/international visitors not available before 1989.

r: Revised. p: Preliminary.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, "December 2000 Arrivals at a Glance;" **1999 Annual Visitor Research Report**; "Historical Visitor Data," <http://www.state.hi.us/dbedt/monthly/historical-r.xls>; and records.

10.1.3

**LENGTH OF STAY AND AVERAGE DAILY CENSUS,  
MAUI COUNTY BY ISLAND**

	1995 r	1996 r	1997 r	1998 r	1999 r	2000 p
<b>Length of Stay (days)<sup>1</sup></b>						
<b>All Visitors</b>						
Maui	6.39	6.35	6.45	6.58	6.71	6.81
Molokai	6.10	7.16	6.99	5.61	4.98	5.15
Lanai	6.56	7.34	6.48	4.75	4.34	4.70
<b>Domestic</b>						
Maui	7.03	7.06	7.05	7.12	7.20	7.33
Molokai	6.00	6.51	6.54	5.37	5.07	5.50
Lanai	6.22	6.41	6.08	4.48	4.12	4.88
<b>International</b>						
Maui	4.40	4.27	4.48	4.76	4.84	4.73
Molokai	6.71	11.14	8.99	6.83	4.42	2.85
Lanai	9.05	14.45	8.39	6.19	5.56	3.17
<b>Average Daily Census (people)</b>						
<b>All Visitors</b>						
Maui	39,701	39,309	39,971	40,440	41,918	NA
Molokai	1,389	1,519	1,530	1,157	950	NA
Lanai	1,661	1,896	1,883	1,267	1,124	NA
<b>Domestic</b>						
Maui	32,995	32,513	33,509	33,671	35,750	NA
Molokai	1,168	1,190	1,173	920	830	NA
Lanai	1,384	1,463	1,461	1,011	909	NA
<b>International</b>						
Maui	6,706	6,796	6,462	6,768	6,167	NA
Molokai	221	329	356	237	121	NA
Lanai	277	434	422	255	215	NA

<sup>1</sup> Length of stay is the average number of days that visitors who travel to a specific island have stayed on that island.

r: Revised p: Preliminary NA: Not available.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, "December 2000 Arrivals at a Glance;" *1999 Annual Visitor Research Report*; "Historical Visitor Data," <http://www.state.hi.us/dbedt/monthly/historical-r.xls>; and records.

10.1.4

**DOMESTIC VISITOR ARRIVALS FROM TOP US MSAS,  
MAUI COUNTY**

1999	Maui	Molokai	Lanai	Total Maui County	Total State
Albuquerque	4,606	191	234	4,775	11,325
Anchorage	7,863	476	153	8,266	23,871
Atlanta	20,832	681	1,134	21,367	41,837
Austin	6,880	247	447	7,123	14,543
Bakersfield	3,790	78	132	3,849	9,306
Bellingham	2,345	117	124	2,463	6,006
Boise	4,464	141	148	4,574	10,281
Boston	22,133	714	1,150	22,739	42,660
Charlotte	4,616	126	273	4,746	8,916
Chicago	61,383	1,723	3,018	63,056	111,931
Cincinnati	10,807	339	579	10,979	18,529
Cleveland	11,359	322	519	11,604	21,107
Colorado Springs	3,507	109	150	3,618	9,763
Columbus	6,480	228	289	6,614	12,180
Dallas	33,384	849	1,825	34,273	71,359
Denver	31,245	1,051	1,333	32,193	69,160
Detroit	27,743	925	1,432	28,301	48,943
Eugene	5,091	207	189	5,273	13,435
Fresno	6,179	182	187	6,350	15,104
Grand Rapids	4,897	188	220	5,027	8,782
Hartford	4,143	172	205	4,259	7,796
Houston	17,153	632	1,077	17,801	38,920
Indianapolis	7,713	267	350	7,896	14,100
Kansas City	9,627	349	640	9,883	20,429
Los Angeles	228,803	5,176	8,835	235,159	557,758
Las Vegas	11,403	406	529	11,803	31,856
Miami	7,535	338	467	7,726	15,665
Milwaukee	8,343	292	435	8,549	15,690
Minneapolis	26,868	738	1,005	27,587	57,961
Modesto	4,112	80	105	4,202	9,927

## 10.1.4

CONTINUED

1999	Maui	Molokai	Lanai	Total Maui County	Total State
Nashville	5,013	157	280	5,138	9,938
New York	79,939	2,157	4,914	82,276	147,785
Norfolk	3,948	244	281	4,095	11,803
Oklahoma City	3,261	152	191	3,379	7,881
Omaha	3,606	122	199	3,727	7,744
Orlando	5,391	213	376	5,499	10,554
Philadelphia	21,375	786	1,422	21,950	40,103
Phoenix	28,724	855	1,318	29,598	68,183
Pittsburgh	7,765	266	483	7,918	14,442
Portland	44,055	1,440	1,386	45,637	113,377
Provo	2,912	104	78	2,989	10,105
Raleigh	5,006	143	218	5,098	9,768
Reno	4,638	96	160	4,740	11,652
Sacramento	28,703	797	835	29,478	72,733
Saint Louis	13,096	528	828	13,555	26,735
Salinas	4,586	118	171	4,747	12,205
Salt Lake City	15,269	325	432	15,598	40,591
San Antonio	4,779	115	240	4,910	12,135
San Diego	41,239	1,299	1,648	42,624	110,144
San Francisco	184,677	4,971	6,332	190,691	480,573
San Luis/Obispo	3,708	125	115	3,817	9,405
Santa Barbara	6,627	246	242	6,855	16,432
Seattle	88,858	2,482	2,514	91,613	223,486
Spokane	5,620	183	150	5,798	13,877
Stockton	5,078	176	191	5,228	13,969
Tampa	6,963	398	494	7,160	14,497
Tucson	5,789	260	264	6,019	14,505
Tulsa	3,397	116	161	3,517	7,757
Washington D.C.	2,403	100	163	2,501	5,929

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, **1999 Annual Visitor Research Report**. Available at <http://www.state.hi.us/dbedt/99vrr/index.html>.

10.1.5

**VISITORS TO MAUI COUNTY BY MONTH**

<b>2000 Preliminary</b>	<b>Maui</b>	<b>Molokai</b>	<b>Lanai</b>	<b>Total Maui County</b>
<b>Total Visitors</b>				
January	153,273	4,549	5,181	163,003
February	185,626	5,680	7,684	198,990
March	201,750	5,788	7,945	215,483
April	192,959	4,921	7,190	205,070
May	180,644	4,319	6,913	191,876
June	205,063	5,253	6,415	216,731
July	209,245	5,342	7,720	222,307
August	202,658	4,755	6,382	213,795
September	170,681	4,839	7,042	182,562
October	184,247	5,862	8,669	198,778
November	164,632	4,581	5,775	174,988
December	178,382	8,192	8,695	195,269
<b>Total</b>	<b>2,229,160</b>	<b>64,081</b>	<b>85,611</b>	<b>2,378,852</b>
<b>Domestic Visitors</b>				
January	118,044	4,392	5,156	127,592
February	144,545	4,682	7,090	156,317
March	166,238	4,984	6,835	178,057
April	159,164	4,413	6,838	170,415
May	147,320	4,030	6,237	157,587
June	171,703	4,920	6,046	182,669
July	175,862	5,048	6,600	187,510
August	163,112	4,306	5,862	173,280
September	131,205	4,298	6,262	141,765
October	146,589	5,138	7,977	159,704
November	131,589	4,054	5,132	140,775
December	130,189	5,371	6,438	141,998
<b>Total</b>	<b>1,785,560</b>	<b>55,636</b>	<b>76,473</b>	<b>1,917,669</b>
<b>International Visitors</b>				
January	153,273	4,549	5,181	163,003
February	185,626	5,680	7,684	198,990
March	201,750	5,788	7,945	215,483
April	192,959	4,921	7,190	205,070
May	180,644	4,319	6,913	191,876
June	205,063	5,253	6,415	216,731
July	209,245	5,342	7,720	222,307
August	202,658	4,755	6,382	213,795
September	170,681	4,839	7,042	182,562
October	184,247	5,862	8,669	198,778
November	164,632	4,581	5,775	174,988
December	178,382	8,192	8,695	195,269
<b>Total</b>	<b>2,229,160</b>	<b>64,081</b>	<b>85,611</b>	<b>2,378,852</b>

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, "Monthly Highlights," January-December 2000, <http://www.state.hi.us.gov/dbedt/monthly/index2k.html>.



10.1.6

**NATION OF RESIDENCE OF VISITORS  
TO MAUI COUNTY**

1999 MMA <sup>1</sup>	MAUI			MOLOKAI			LANAI		
	Domestic	International	Total	Domestic	Int'l.	Total	Domestic	Int'l.	Total
<b>Total</b>	<b>1,813,488</b>	<b>465,446</b>	<b>2,278,933</b>	<b>59,685</b>	<b>9,972</b>	<b>69,657</b>	<b>80,434</b>	<b>14,112</b>	<b>94,546</b>
<b>U.S.</b>	<b>1,621,401</b>	<b>53,371</b>	<b>1,674,772</b>	<b>51,970</b>	<b>0</b>	<b>51,970</b>	<b>72,327</b>	<b>0</b>	<b>72,327</b>
<b>Canada</b>	<b>16,882</b>	<b>104,865</b>	<b>121,747</b>	<b>575</b>	<b>3,408</b>	<b>3,983</b>	<b>798</b>	<b>4,729</b>	<b>5,527</b>
<b>Asia</b>									
China	3,978	1,000	4,978	446	229	675	254	59	313
Hong Kong	1,025	1,477	2,502	126	12	138	85	112	197
Japan	8,641	242,300	250,941	417	3,338	3,755	412	3,650	4,062
Korea	1,829	9,091	10,921	53	285	338	48	128	176
Singapore	311	1,274	1,585	21	51	71	21	51	71
Taiwan	1,482	11,099	12,581	42	1,191	1,233	26	217	244
<b>Total Asia</b>	<b>17,266</b>	<b>266,241</b>	<b>283,508</b>	<b>1,105</b>	<b>5,106</b>	<b>6,210</b>	<b>846</b>	<b>4,217</b>	<b>5,063</b>
<b>Oceania</b>									
Australia	4,718	11,069	15,787	218	330	548	262	930	1,192
New Zealand	2,038	3,893	5,931	66	435	501	71	355	426
<b>Total Oceania</b>	<b>6,756</b>	<b>14,962</b>	<b>21,718</b>	<b>284</b>	<b>765</b>	<b>1,049</b>	<b>333</b>	<b>1,285</b>	<b>1,618</b>
<b>Europe</b>									
United Kingdom	25,410	3,557	28,967	980	83	1,063	1,226	163	1,389
Germany	4,181	600	4,782	227	31	258	204	29	233
France	28,339	2,741	31,081	1,218	124	1,342	1,009	101	1,110
Italy	2,885	659	3,544	79	17	96	41	10	51
Switzerland	6,413	630	7,044	263	25	288	212	23	235
<b>Total Europe</b>	<b>67,230</b>	<b>8,188</b>	<b>75,418</b>	<b>2,768</b>	<b>279</b>	<b>3,048</b>	<b>2,692</b>	<b>325</b>	<b>3,017</b>
<b>Latin America</b>									
Argentina	1,904	NA	1,904	45	NA	45	45	NA	45
Brazil	3,209	NA	3,209	88	NA	88	49	NA	49
Mexico	2,557	NA	2,557	58	NA	58	81	NA	81
<b>Total Latin America</b>	<b>7,670</b>	<b>NA</b>	<b>7,670</b>	<b>191</b>	<b>NA</b>	<b>191</b>	<b>175</b>	<b>NA</b>	<b>175</b>
<b>Other Foreign<sup>2</sup></b>	<b>76,281</b>	<b>17,819</b>	<b>94,100</b>	<b>2,791</b>	<b>415</b>	<b>3,206</b>	<b>3,263</b>	<b>3,556</b>	<b>6,819</b>
<b>Total Foreign</b>	<b>192,086</b>	<b>412,075</b>	<b>604,162</b>	<b>7,715</b>	<b>9,972</b>	<b>17,687</b>	<b>8,107</b>	<b>14,112</b>	<b>22,219</b>

<sup>1</sup> Major Market Areas (MMAs) have allowed the Hawaii Tourism Authority to focus on specific areas for marketing and to see changes in these markets.

<sup>2</sup> "Other foreign" is comprised of all countries not listed above in an MMA as well as visitors from US territories .

10.2.1

**PKF-HAWAII  
OCCUPANCY AND ROOM RATES,  
FOOD AND BEVERAGE SALES,  
ISLANDS OF MAUI AND MOLOKAI**

*Includes condominium units in rental pools for transient occupancy*

Year	Percent Occupied	Average Daily Room Rate	Average Revenue per Available Room	AVERAGE DAILY SALES PER GUEST		
				Food	Beverage	Food Sales Per Cover
<b>Maui</b>						
1990	70.10	130.49	62.11	26.30	9.59	13.89
1991	63.35	125.05	58.58	26.36	9.47	14.15
1992	63.49	124.77	79.22	24.30	8.21	14.14
1993	67.56	122.88	83.02	23.04	7.16	14.17
1994	72.69	125.70	91.37	22.72	6.61	14.61
1995	73.53	144.36	106.15	25.72	7.23	15.99
1996	73.37	155.54	114.11	26.32	7.56	17.09
1997	71.58	156.37	111.93	26.92	7.94	17.11
1998	72.81	161.40	117.52	27.12	8.23	17.75
1999	77.25	167.08	129.06	28.62	9.05	19.16
2000	80.11	189.78	152.04	30.52	10.09	20.10
<b>Molokai</b>						
1990	47.83	66.28	32.20	27.57	9.90	10.23
1991	37.47	71.35	33.35	36.79	12.05	10.02
1992	44.24	77.30	34.19	34.10	9.78	9.73
1993	42.66	74.69	31.87	32.27	10.45	10.66
1994	41.19	72.18	29.73	34.52	12.16	8.57
1995	37.47	71.85	26.92	42.40	15.26	10.00
1996	39.00	74.44	29.03	56.65	17.14	10.64
1997	40.42	74.02	29.92	47.17	17.31	10.04
1998	44.18	78.43	34.65	36.62	11.33	10.76
1999	41.08	74.54	30.62	NA	NA	NA
2000	42.72	79.77	34.07	NA	NA	NA

NOTE: PKF-Hawaii LLP publishes comparable statistics only for the last two years. Participating hotel and resort condominiums differ from year to year, so earlier survey statistics are not strictly comparable due to changes in the participants' number, type, location and size.

NA: Not available.

SOURCE: PKF-Hawaii LLP, *Trends in the Hotel Industry, Hawaii*, December 2000, and records.

## 10.2.2

### PKF-HAWAII TRENDS IN THE HOTEL INDUSTRY, MAUI COUNTY

2000	Total Maui	Kaanapali	West Maui	Other	Molokai
<b>Room Sales for the Total Market</b>					
Percent Occupied	80.11	82.90	81.46	76.60	42.72
Average Daily Room Rate	189.78	177.50	169.50	215.74	79.77
Revenue / Available Room	152.04	147.15	138.07	165.26	34.07
<b>Room Sales for the Hotel Market</b>					
Percent Occupied	81.90	84.02	83.42	78.64	34.36
Average Daily Room Rate	204.04	173.69	185.85	252.20	78.12
Revenue / Available Room	167.11	145.93	155.03	198.33	28.85
<b>Room Sales for the Resort Condo Market</b>					
Percent Occupied	75.77	74.93	79.67	72.10	52.54
Average Daily Room Rate	152.18	207.98	153.89	128.10	81.04
Revenue / Available Room	115.30	155.84	122.60	92.37	42.58
<b>Food Sales for the Total Market</b>					
Average Daily Food per Guest	30.52	22.46	38.39	39.25	N/A
Average Daily Beverage per Guest	10.09	7.51	13.88	12.46	N/A
Average Food Sales Per Cover	20.10	17.60	26.40	20.87	N/A

SOURCE: PKF-Hawaii LLP, *Trends in the Hotel Industry, Hawaii*, December 2000.

## 10.2.3

### PKF-HAWAII QUALITY AND SIZE REPORT, MAUI COUNTY

2000	MAUI					MOLOKAI
	Luxury	First Class	Deluxe	Standard	Budget	Standard
<b>Room Quality</b>						
Percent Occupied	82.61	81.74	77.22	76.47	NA	42.77
Average Daily Room Rate	261.86	172.96	121.83	82.69	NA	69.54
Revenue / Available Room	216.32	141.38	94.07	63.23	NA	29.74
<b>Number of Rooms on Property</b>						
	Under 100	100 - 200	201 - 350	351 - 500	Over 500	Under 100
Percent Occupied	59.51	79.12	80.31	86.20	82.21	42.72
Average Daily Room Rate	165.20	120.04	163.73	257.27	201.07	79.77
Revenue / Available Room	98.32	94.97	131.49	221.77	165.30	34.07

SOURCE: PKF-Hawaii LLP, *Trends in the Hotel Industry, Hawaii, Quality and Size Report*, December 2000.

## 10.2.4

### PRICEWATERHOUSECOOPERS HOSPITALITY REPORT, MAUI ISLAND

2000	Occupancy	Average Daily Rate	Revenue per Available Room
<b>Total Maui</b>	<b>80.7%</b>	<b>172.97</b>	<b>139.59</b>
<b>By Area</b>			
Lahaina/Kaanapali/Kapalua	83.4%	162.23	135.30
Other Maui	77.4%	187.75	145.32
<b>By Price</b>			
Luxury	81.3%	287.12	233.43
Upscale	83.2%	184.32	153.35
Midprice	76.9%	126.93	97.61
Economy	78.7%	93.40	73.51
Budget	80.4%	70.70	56.84

SOURCE: Smith Travel Research in PricewaterhouseCoopers LLP, *Hawaii Hotel Flash Report*, December 2000.  
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## 10.2.5

### VISITOR PLANT INVENTORY BY ISLAND AND PRICE, MAUI COUNTY

Class (Price per Night)	1999			2000		
	Units	% of Total	Properties	Units	% of Total	Properties
<b>Maui</b>						
Budget: \$100 or less	3,315	19.0%		2,787	16.2%	
Standard: \$101 to \$250	6,578	37.6%		6,099	35.5%	
Deluxe: \$251 to \$500	6,556	37.5%		7,050	41.0%	
Luxury: Over \$500	1,023	5.9%		1,247	7.3%	
<b>All levels</b>	<b>17,473</b>	<b>100.0%</b>	<b>208</b>	<b>17,183</b>	<b>100.0%</b>	<b>206</b>
<b>Molokai</b>						
Budget: \$100 or less	122	27.9%		56	13.2%	
Standard: \$101 to \$250	212	48.4%		245	57.3%	
Deluxe: \$251 to \$500	104	23.7%		126	29.5%	
<b>All levels</b>	<b>438</b>	<b>100.0%</b>	<b>10</b>	<b>427</b>	<b>100.0%</b>	<b>9</b>
<b>Lanai</b>						
Budget: \$100 or less	12	3.3%		12	3.2%	
Standard: \$101 to \$250	5	1.4%		5	1.4%	
Deluxe: \$251 to \$500	174	47.2%		174	47.2%	
Luxury: Over \$500	178	48.2%		177	48.2%	
<b>All levels</b>	<b>369</b>	<b>100.0%</b>	<b>6</b>	<b>368</b>	<b>100.0%</b>	<b>6</b>

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *1999 Visitor Plant Inventory* and *2000 Visitor Plant Inventory*. Available at <http://www.hawaii.gov/dbedt/vpi/index.html>.

10.2.6

**VISITOR PLANT INVENTORY BY ISLAND AND TYPE,  
MAUI COUNTY**

	1996		1997		1998		1999		2000	
	Prop- erties	Available Units	Prop- erties	Available Units	Prop- erties	Available Units	Prop- erties	Available Units	Prop- erties	Available Units
<b>Maui</b>										
Apartment/Hotel	4	50	4	50	5	58	5	58	6	74
Bed & Breakfast	21	96	26	115	31	136	27	125	30	134
Hostel	1	24	2	44	2	44	2	44	3	50
Hotel	26	8,172	24	8,786	27	8,565	27	8,583	28	8,577
Condominium										
Hotel	39	4,346	108	8,095	106	8,007	105	7,991	104	7,767
Condo	93	4,086	-	-	-	-	-	-	-	-
Individual										
Vacation Unit	-	-	46	328	48	331	47	327	56	327
Bungalow	2	65	-	-	-	-	-	-	-	-
Cottage	23	85	-	-	-	-	-	-	-	-
Lodge	1	5	-	-	-	-	-	-	-	-
Other	13	44	21	164	21	570	18	554	14	544
<b>Total</b>	<b>223</b>	<b>16,973</b>	<b>231</b>	<b>17,582</b>	<b>240</b>	<b>17,711</b>	<b>231</b>	<b>17,682</b>	<b>241</b>	<b>17,473</b>
<b>Molokai</b>										
Bed & Breakfast	-	-	1	1	1	1	1	1	1	1
Hotel	3	245	3	226	3	226	3	222	2	183
Condominium										
Hotel	1	81	5	310	5	279	5	231	4	117
Condo	4	149	-	-	-	-	-	-	-	-
Individual										
Vacation Unit	-	-	-	-	-	-	-	-	1	2
Cottage	1	1	-	-	-	-	-	-	-	-
Other	2	5	2	64	2	64	2	104	2	126
<b>Total</b>	<b>11</b>	<b>481</b>	<b>11</b>	<b>601</b>	<b>11</b>	<b>570</b>	<b>11</b>	<b>558</b>	<b>10</b>	<b>429</b>
<b>Lanai</b>										
Bed & Breakfast	2	4	1	3	1	3	1	3	-	-
Hotel	3	363	3	363	3	363	3	363	3	362
Individual										
Vacation Unit	-	-	1	1	2	3	2	3	3	6
Cottage	2	3	-	-	-	-	-	-	-	-
Other	-	-	1	2	-	-	-	-	-	-
<b>Total</b>	<b>7</b>	<b>370</b>	<b>6</b>	<b>369</b>	<b>6</b>	<b>369</b>	<b>6</b>	<b>369</b>	<b>6</b>	<b>368</b>

NOTES: Categories vary in the way they are reported from year to year.

INDIVIDUAL VACATION UNIT: Individual condominium unit (not in a hotel rental operation), house, cabin, villa or cottage with very limited service, often with only basic cleaning supplies provided.

- Not available, not reported or none.

SOURCES: 1999-2000: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, **1999 Visitor Plant Inventory** and **2000 Visitor Plant Inventory**. 1996-1998: Hawaii Visitors and Convention Bureau, Market Research Department, **1998 Visitor Plant Inventory** and records.

## 10.2.7

**SUMMARY OF VISITOR PLANT INVENTORY BY  
AREA AND TYPE, MAUI COUNTY**

2000 Island/Area/Type	Available Units	Properties
<b>Maui Island</b>	<b>241</b>	<b>17,473</b>
<b>Hana</b>	<b>23</b>	<b>163</b>
Bed & Breakfast	2	4
Condominium Hotel	1	17
Hotel	2	96
Individual Vacation Unit	15	30
Other	3	16
<b>Kahului-Wailuku</b>	<b>11</b>	<b>493</b>
Bed & Breakfast	1	7
Hostel	3	50
Hotel	3	402
Individual Vacation Unit	1	6
Other	3	28
<b>Kula-Makawao</b>	<b>25</b>	<b>93</b>
Bed & Breakfast	9	36
Condominium Hotel	1	12
Hotel	1	6
Individual Vacation Unit	13	34
Other	1	5
<b>Lahaina-Kaanapali-Napili-Kapalua</b>	<b>86</b>	<b>9,759</b>
Apartment/ Hotel	3	50
Bed & Breakfast	9	58
Condominium Hotel	49	4,351
Hotel	11	4,741
Individual Vacation Unit	9	69
Other	5	490
<b>Maalaea</b>	<b>7</b>	<b>257</b>
Condominium Hotel	7	257
<b>Wailea-Kihei</b>	<b>89</b>	<b>6,708</b>
Apartment/ Hotel	3	24
Bed & Breakfast	9	29
Condominium Hotel	46	3,130
Hotel	11	3,332
Individual Vacation Unit	18	188
Other	2	5
<b>Molokai</b>	<b>10</b>	<b>429</b>
Bed & Breakfast	1	1
Condominium Hotel	4	117
Hotel	2	183
Individual Vacation Unit	1	2
Other	2	126
<b>Lanai</b>	<b>6</b>	<b>368</b>
Hotel	3	362
Individual Vacation Unit	3	6

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *2000 Visitor Plant Inventory*.

10.2.8

**VISITOR PLANT INVENTORY,  
MAUI COUNTY**

<b>Year</b>	<b>Available Units</b>
1965	1,231
1966	1,497
1967	1,714
1968	2,043
1969	2,415
1970	2,743
1971	3,695
1972	4,095
1973	4,075
1974	5,208
1975	5,830
1976	7,232
1977	8,037
1978	8,736
1979	9,472
1980	9,701
1981	11,359
1982	12,162
1983	12,749
1984	13,138
1985	14,152
1986	14,096
1987	13,849
1988	15,168
1989	15,708
1990	17,869
1991	18,702
1992	19,290
1993	19,127
1994	18,804
1995	NA
1996	17,824
1997	18,552
1998	18,650
1999	18,609
2000	18,270

NOTES: Includes hotels and condominiums available for transient rental. HVCB did not conduct an update survey in 1995.

NA: not available.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *2000 Visitor Plant Inventory*.

10.2.9

**LARGEST HOTELS BY NUMBER OF SLEEPING ROOMS,  
MAUI COUNTY**

2000	Number of Sleeping Rooms & Suites	Maximum Exhibit Area (sq. ft.)	Maximum Meeting/Banquet Seating Capacity	Number of Employees (or FTE)	Average Occupancy Rate
Hyatt Regency Maui Resort and Spa Lahaina, Maui	802	16,000	2,000	1,000	89.0%
Grand Wailea Resort Hotel & Spa Wailea, Maui	780	28,000	1,400	1,066	87.2%
The Westin Maui Lahaina, Maui	758	8,765	900	580	84.0%
Maui Marriott Resort & Ocean Club Lahaina, Maui	608	14,040	1,700	DND	DND
The Ritz-Carlton Kapalua Kapalua, Maui	548	19,200	1,200	800	82.0%
Outrigger Wailea Resort Wailea, Maui	524	13,800	1,100	325	64.0%
The Royal Lahaina Resort Lahaina, Maui	511	4,100	500	320	85.0%
Sheraton Maui Resort Lahaina, Maui	510	6,560	500	410	88.0%
Aston Kaanapali Shores Lahaina, Maui	463	NA	NA	DND	89.6%
Kea Lani Hotel Suites, Villas & Spa Wailea, Maui	450	8,800	1,500	650	DND
Kaanapali Beach Hotel Lahaina, Maui	430	4,030	350	248	90.1%
Embassy Vacation Resort Kaanapali Beach Lahaina, Maui	413	DND	DND	320	93.0%
Four Seasons Resort Maui at Wailea Wailea, Maui	380	DND	500	600	85.0%
Aston Maui Islander Lahaina, Maui	371	NA	NA	DND	84.8%
Renaissance Wailea Beach Resort Wailea, Maui	349	22,500	400	DND	DND
The Westin Maui Prince Hotel, Makena Wailea, Maui	329	DND	350	DND	DND
Maui Coast Hotel Kihei, Maui	265	DND	DND	70	DND
Manele Bay Hotel Lanai City, Lanai	250	DND	220	NA	NA
Maui Seaside Hotel Kahului, Maui	225	DND	DND	DND	DND
Kapalua Bay Hotel Lahaina, Maui	210	6,800	200	263	80.8%
Marc Royal Kahana Resort Lahaina, Maui	197	DND	DND	43	87.0%
Maui Lu Kihei, Maui	120	NA	NA	DND	92.8%
Lodge at Koele Lanai City, Lanai	102	NA	220	NA	NA
Hotel Hana-Maui Hana, Maui	66	3,136	80	DND	40.0%

DND: Did not disclose. NA: Not applicable / not available. FTE: Full time equivalent.

SOURCE: "Largest Maui County Hotels," *Pacific Business News*, January 12, 2001, p. 39.



## 10.3.1

**EXPENDITURES PER PERSON PER DAY  
BY UNITED STATES AND JAPANESE VISITORS,  
STATE OF HAWAII**

*In dollars; excludes transpacific travel costs*

Expenditure Type	US WEST		US EAST		JAPAN <sup>1</sup>	
	1998	1999	1998	1999	1998	1999
<b>GRAND TOTAL</b>	<b>140.4</b>	<b>139.8</b>	<b>175.5</b>	<b>176.8</b>	<b>261.0</b>	<b>229.9</b>
<b>Total Food &amp; Beverage</b>	<b>29.4</b>	<b>32.3</b>	<b>35.5</b>	<b>36.4</b>	<b>42.8</b>	<b>34.1</b>
Food at restaurant	18.0	19.8	21.9	22.8	26.7	14.2
Dinner shows and cruises	4.9	6.0	7.6	7.4	9.4	9.1
Dinner shows	2.9	3.7	3.9	4.2	4.2	NA
Dinner or lunch cruise	2.0	2.4	3.7	3.2	5.1	NA
Nightclubs/bars	1.3	2.0	2.1	2.5	0.8	NA
Groceries	5.2	4.4	3.9	3.7	6.0	3.8
<b>Total Entertainment<sup>2</sup></b>	<b>12.4</b>	<b>10.7</b>	<b>15.7</b>	<b>13.9</b>	<b>18.1</b>	<b>4.4</b>
Attractions	7.0	6.6	9.2	7.8	10.8	1.4
Sports	4.3	3.4	5.1	5.5	4.2	0.7
Other entertainment	1.1	0.7	1.5	0.7	3.1	2.3
<b>Total Transportation<sup>2</sup></b>	<b>21.1</b>	<b>15.4</b>	<b>21.9</b>	<b>18.2</b>	<b>25.0</b>	<b>9.8</b>
Interisland travel	5.3	3.8	5.6	4.6	7.8	4.9
Ground transportation	6.2	7.7	6.4	9.2	14.2	1.9
Rental vehicles	8.2	2.2	8.0	2.5	2.8	2.1
Gasoline	1.0	1.0	1.1	1.0	0.2	0.4
Parking expense	0.5	0.7	0.8	0.9	0.1	NA
Sightseeing tours	1.4	0.0	2.3	0.0	3.4	0.8
<b>Total Shopping</b>	<b>18.9</b>	<b>22.5</b>	<b>31.7</b>	<b>28.7</b>	<b>98.7</b>	<b>83.2</b>
Total Fashion <sup>3</sup>	12.4	15.5	23.8	20.3	83.0	49.1
Fashion and clothing	7.2	8.7	14.9	11.7	26.3	21.1
Jewelry and watches	3.3	4.8	6.1	6.2	15.2	9.1
Cosmetics and perfumes	0.2	0.2	0.3	0.3	7.6	4.5
Leather goods	0.4	0.2	0.9	0.5	27.9	14.4
Agriculture	1.9	1.8	1.8	2.0	5.9	2.7
Souvenirs	4.7	5.2	6.2	6.4	9.7	15.5
<b>Communications</b>	<b>0.5</b>	<b>0.6</b>	<b>0.7</b>	<b>1.1</b>	<b>0.6</b>	<b>NA</b>
<b>Personal Services</b>	<b>1.1</b>	<b>1.6</b>	<b>1.3</b>	<b>2.0</b>	<b>1.7</b>	<b>NA</b>
<b>Lodging<sup>4</sup></b>	<b>52.8</b>	<b>46.6</b>	<b>59.1</b>	<b>66.1</b>	<b>66.3</b>	<b>60.3</b>
<b>Tour packages not allocated/   Miscellaneous<sup>2</sup></b>	<b>4.1</b>	<b>10.1</b>	<b>9.5</b>	<b>10.4</b>	<b>7.9</b>	<b>38.2</b>

<sup>1</sup>Categories labeled NA (not applicable) reflect changes in the Japanese visitor questionnaire for 1999.

<sup>2</sup>Prior to 1999, the value of inter-island tour packages purchased in Hawaii by international visitors was reallocated, mainly to entertainment and transportation. Due to methodological considerations the value of these packages has not been reallocated for 1999 and is contained in the "Miscellaneous" category. For this reason the three affected categories are not comparable between these two years.

<sup>3</sup>Some of the differences between years may be due to changes in the Japanese visitor questionnaire in 1999.

<sup>4</sup>This category only applies to visitors staying in hotels and condominiums.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *1999 Annual Visitor Research Report*.

### 10.3.2

## ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES, STATE OF HAWAII

Year	Visitor-Related Expenditures (\$ million) <sup>1</sup>	Gross State Product (\$ million) <sup>2</sup>	Household Income (\$ million) <sup>2</sup>	State and County Tax Revenues (\$ million) <sup>2</sup>	Jobs (1,000) <sup>3</sup>
1988	8,813.8	5,914.0	3,578.4	618.6	147.4
1989	9,613.4	6,450.6	3,903.1	680.3	156.7
1990	10,109.2	6,783.3	4,104.3	714.0	163.1
1991	11,039.5	7,407.5	4,482.1	797.6	168.1
1992	10,020.1	6,262.6	3,952.0	752.7	181.6
1993	9,125.1	5,703.2	3,599.0	687.2	176.3
1994	11,035.7	6,897.3	4,352.6	826.4	176.4
1995	12,027.0	7,516.9	4,743.5	912.0	177.7
1996	11,126.6	6,954.1	4,388.4	870.0	179.6
1997	11,231.7	7,019.8	4,429.9	880.0	180.7
1998 <sup>4</sup>	11,594.7	7,246.7	4,573.0	903.3	180.1

<sup>1</sup> Direct expenditures by visitors, airline and ship crews, and overseas airlines.

<sup>2</sup> Direct and indirect.

<sup>3</sup> Direct and indirect; includes self-employment.

<sup>4</sup> Preliminary estimate.

SOURCE: Hawaii State Department of Business, Economic Development & Tourism, *Hawaii's Economy*, July 1999, p. 6.

### 10.3.3

## VISITOR EXPENDITURES BY ISLAND

*In thousands of dollars*

	1990 <sup>1</sup>	1991 <sup>1</sup>	1992	1993	1994
Maui	2,023,032	2,225,228	2,221,593	2,126,709	2,531,596
Molokai	58,985	89,838	78,917	68,227	68,334
Lanai	15,165	57,166	57,522	52,240	72,426
Oahu	5,441,149	5,353,171	5,525,217	4,870,071	6,107,237
Kauai	945,777	1,104,896	573,500	547,702	637,734
Hawaii	925,664	1,090,603	1,102,131	1,012,636	1,185,845
Total	9,409,772	9,920,902	9,558,880	8,677,585	10,603,172

<sup>1</sup> Unrevised estimates. The State totals were later revised (to \$9,738 million for 1990 and \$10,634 million for 1991) but estimates by islands were not corrected.

SOURCE: Hawaii Visitors Bureau, *1991 Island Supplement* (1992), p. 20; *1992 Island Supplement* (1993), p. 21; *Visitor Expenditures 1993* (1994), p. 59; *1994 Annual Research Report* (1996), p. 43.

## 10.4.1

### SUMMARY VISITOR CHARACTERISTICS, MAUI COUNTY

	Total	Domestic	International
<b>Planned Destinations</b>			
Maui County	2,347,002	1,866,531	480,471
... Maui	2,278,933	1,813,488	465,446
... Molokai	69,657	59,685	9,972
... Lanai	94,546	80,434	14,112
Oahu	1,049,968	712,260	337,708
Kauai	417,742	363,131	54,611
Big Island	411,892	337,822	74,070
... Kona	192,880	152,084	40,796
... Hilo	344,327	292,248	52,079
Maui Only	1,032,424	904,063	128,361
Molokai Only	10,119	9,252	867
Lanai Only	13,675	11,050	2,625
<b>Trips to Hawaii</b>			
First trip	960,971	730,455	230,515
Repeat	1,386,014	1,136,059	249,956
Average number of trips	4.01	4.19	3.31
<b>Party Size</b>			
One person	372,415	307,386	65,029
Two persons	1,179,260	967,414	211,846
Three or more persons	795,327	591,731	203,596
Average party size	2.09	2.05	2.23
<b>Accommodations</b>			
Hotel	1,500,735	1,132,906	367,829
... Hotel Only	1,319,829	982,419	337,409
Condo	674,953	590,944	84,009
... Condo Only	552,771	490,463	62,307
Apartment	28,176	24,171	4,005
Bed & Breakfast	38,241	28,447	9,794
Cruise Ship	71,666	66,614	5,052
Friends or Relatives	143,360	128,726	14,633

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *1999 Annual Visitor Research Report*.

10.5.1

**ATTENDANCE AT MUSEUMS  
AND OTHER CULTURAL ATTRACTIONS,  
MAUI COUNTY**

*Calendar year unless otherwise specified*

<b>Island and Cultural Attraction</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>
<b>Maui</b>				
Alexander & Baldwin Sugar Museum	23,676	27,748	27,832	36,528
Halekii-Pihana Heiaus State Monument <sup>1</sup>	9,050	10,150	NA	NA
Hana Cultural Center (Hale Wai Wai O Hana)	11,680	NA	NA	16,117
Hawaii Nature Center	10,600	25,200	55,699	91,470
Iao Valley State Monument <sup>1</sup>	651,600	710,000	NA	NA
Kula Botanical Gardens	22,470	23,100	23,800	24,100
Lahaina Restoration Foundation	202,350	202,556	213,192	208,466
Baldwin Missionary Home Museum	48,250	50,180	56,703	57,837
Brig Carthaginian	65,300	62,688	57,673	51,329
Hale Pa'ahao (Old Lahaina Prison)	30,800	31,800	32,347	32,150
Hale Pa'i Printing House	8,200	10,578	4,020	5,950
Wo Hing Temple Museum	49,800	47,310	62,449	61,200
Maui Historical Society Bailey House Museum	14,140	14,000	14,000	14,352
Maui Ocean Center <sup>2</sup>	—	—	NA	NA
Maui Tropical Plantation	NA	NA	NA	NA
Whale Center of the Pacific	445,384	436,246	426,132	345,144
<b>Molokai</b>				
Kalaupapa Settlement	8,995	9,589	11,658	10,068

NA: Not available, open. — : Not available, closed.

<sup>1</sup> Years ending June 30.

<sup>2</sup> Opened in March 1998.

SOURCE: Hawaii State Department of Business, Economic Development & Tourism, Research and Economic Analysis Division, *State of Hawaii Data Book 1999*, Table 7.31; and records.

## 10.5.2

### NATIONAL AND STATE HISTORIC SITES, MAUI COUNTY

1999	Maui	Kahoolawe	Lanai	Molokai	Total Maui County
Listed Hawaii Register only	37	–	–	41	78
Listed National Register only	4	1	–	10	15
Listed both Hawaii and National Register	21	–	2	40	63
Eligible for National Register <sup>1</sup>	1	–	–	2	3
<b>Total sites</b>	<b>63</b>	<b>1</b>	<b>2</b>	<b>93</b>	<b>159</b>

<sup>1</sup> Sites declared eligible for National Register listing by the National Board.

SOURCE: Hawaii State Department of Land and Natural Resources, State Historic Preservation Division, records, 1999.

## 10.5.3

### NATIONAL, STATE AND COUNTY PARKS, MAUI COUNTY

Parks	1990	1991	1992	1993	1994
<b>National Parks<sup>1</sup></b>					
Number of areas	2	2	2	2	2
Acreage	38,252	38,252	38,252	38,252	38,252
Visits	1,289,903	1,261,378	NA	1,346,521	1,556,417
<b>State Parks &amp; Historic Sites<sup>2</sup></b>					
Number of areas	13	13	13	10	10
Acreage*	575	582	582	565	565
Visits (1,000)	3,692	2,770	2,259	2,318	1,967
<b>County Parks</b>					
Number of areas	107	109	109	117	135
Acreage	1,030	1,116	1,116	1,193	1,210

<sup>1</sup> As of December 31.

<sup>2</sup> Declines since 1992 reflect transfer of areas to county.

\* Figures rounded.

SOURCE: U.S. Department of the Interior, National Park Service, Pacific Area Office, records; Hawaii State Department of Land and Natural Resources, Division of State Parks, records. County data compiled by the Hawaii State Department of Business, Economic Development & Tourism from data provided by county parks and recreation departments.

10.6.1

**SEATING CAPACITIES OF SELECTED FACILITIES,  
MAUI COUNTY**

<b>Facility</b>	<b>Capacity</b>
<b>Stadiums, Auditoriums and Gymnasiums</b>	
War Memorial Complex	
Track & Football Stadium	6,000
Baseball Stadium	1,200
Gym	2,996
Maui High Gym	2,000
Baldwin High Auditorium	1,183
Wailuku Gym	600
<b>Civic Centers and Theaters</b>	
Lahaina Civic Center Convention Hall	4,050
Maui Arts & Cultural Center	
Ampitheater	4,000
Castle Theater	1,200
Gallery	400
Theater Stage	400
McCoy Theater	300
Community Hall	230
Classroom C	160
Mayor Eddie Tam Memorial Center	1,500
Mayor Eddie Tam Hall	380
Wailuku Community Center	500
Kahului Community Center	200
Haiku Community Center	250
Paia Community Center	250
Kula Community Center	180
Upcountry Community Center	556
Upcountry Community Center (2 halls each)	96
Maui Community College Student Center Lounge	100
<b>Movie Theaters</b>	
Kaahumanu Center Theaters (6 theaters)	
Kukui Mall Theatres (4 theaters)	
Front Street Theatres (4 theaters)	
Lahaina Cinemas (3 theaters)	
<b>Churches</b>	
First Assembly of God Maui (Puunene Avenue)	2,000
First Assembly of God (Kane Street)	500
St. Anthony Church	500
Makawao Union Church	350
First Assembly of God Maui (Kula)	250
Makawao Union Church Hall	200
First Assembly of God Maui (Molokai)	200
Iao Congregational	175
Iao Congregational Hall	100
St. John Episcopal Church	100
St. John Episcopal Church Hall	200
Trinity Episcopal Church by the Sea	100

SOURCE: Officials of the facilities; *The State of Hawaii Data Book 1992*, table 680. Compiled by the Maui Economic Development Board, Inc.



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## Section 11

### DOMESTIC TRADE

This final section covers data on manufactures, service establishments, professional firms, retail trade, industrial parks and the general excise tax base. Also included is a list of Maui County's largest private corporations.

The largest private corporation based in Maui is Maui Land & Pineapple with 2,040 employees, and sales of \$147 million in 1999. Maui County is moving into the high technology development phase, with a public-private partnership working to develop the Maui Research & Technology Park at Kihei to support emerging high technology business.



## 11.1.1

## MANUFACTURING KAHULUI AND MAUI COUNTY

*Includes operating manufacturing establishments and auxiliaries*

	MAUI COUNTY		KAHULUI	
	1987	1992	1987	1992
<b>All Establishments<sup>1</sup></b>				
Total (number)	88	98	31	29
With 20 employees or more (number)	16	11	6	4
<b>All Employees</b>				
Number (1,000)	2.8	2.2	1.7	1.0
Payroll (\$1,000,000)	54.9	61.9	31.9	31.0
<b>Production Workers</b>				
Number (1,000)	2.2	1.3	1.5	0.6
Hours (millions)	4.6	3.1	3.0	1.4
Wages (\$1,000,000)	39.0	29.0	25.3	11.6
<b>Value Added by Manufacture<sup>2</sup></b>				
(\$1,000,000)	159.0	144.3	59.8	47.6
<b>Cost of Materials<sup>3</sup></b>				
(\$1,000,000)	154.9	130.5	102.1	73.7
<b>Value of Shipments<sup>3</sup></b>				
(\$1,000,000)	314.2	275.0	161.8	121.1

<sup>1</sup> Includes establishments with payroll at any time during the year.

<sup>2</sup> Computed using inventory data reported at cost or market prior to adjustment to LIFO cost.

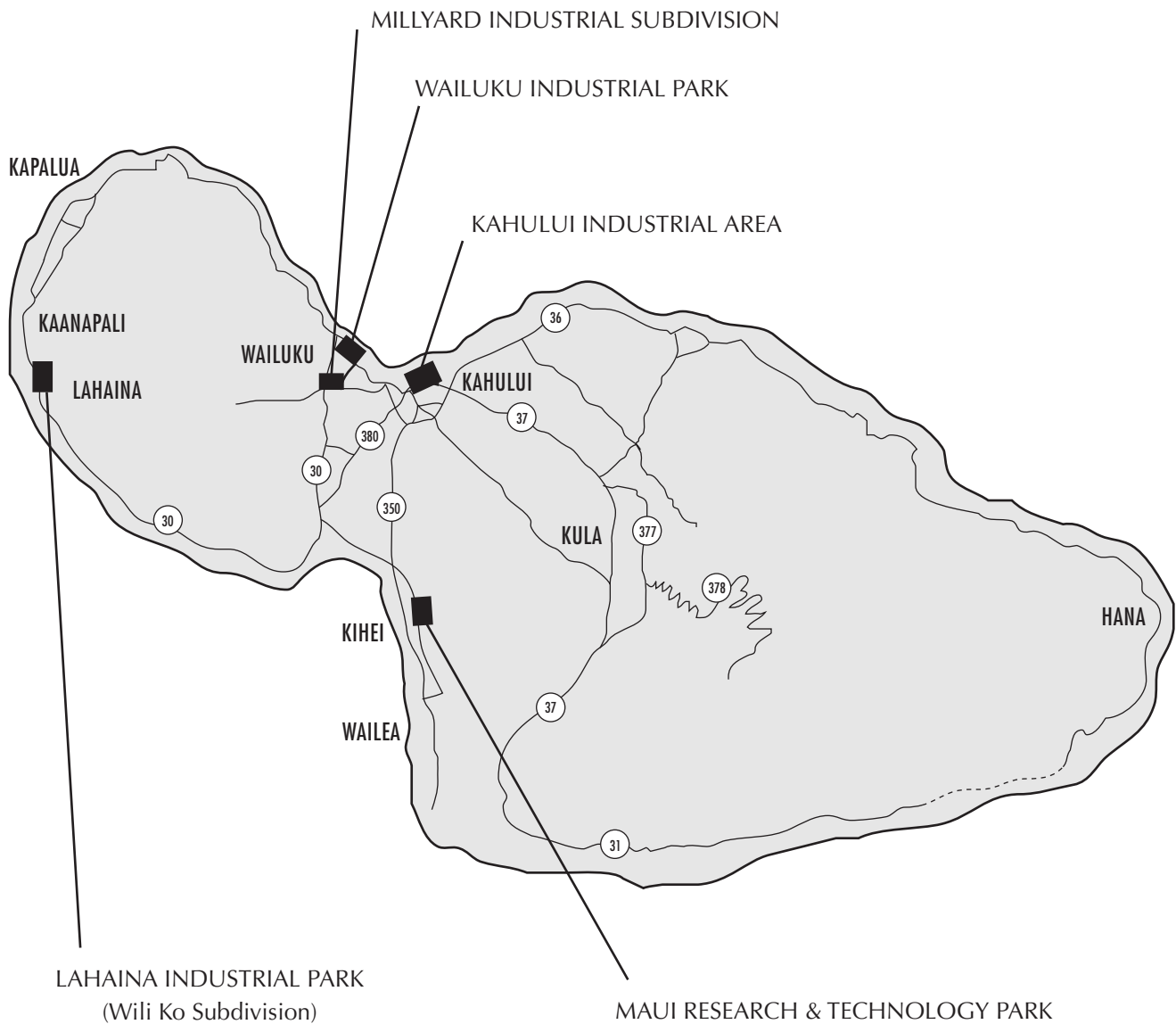
<sup>3</sup> Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others.

SOURCE: U.S. Bureau of the Census, *1987 Census of Manufactures*, MC87-A-12; *1992 Census of Manufactures*, MC92-A-12.

11.1.2

**INDUSTRIAL PARKS, ISLAND OF MAUI**

	Size	Location	Types of industries
Maui Research & Technology Park	330 acres	Kihei	High technology
Kahului Industrial Park	200 acres	Kahului	Light industrial and commercial
Wailuku Industrial Park	55 acres	Wailuku	Construction base yard, trucking, commercial
Millyard Subdivision	30 acres	Wailuku	Light industry and business commercial
Lahaina Industrial Park	10 acres	Lahaina	Commercial



SOURCE: Hawaii State Department of Business, Economic Development and Tourism, *Directory of Industrial and Technology Parks*, 1991.

11.2.1

GENERAL EXCISE TAX BASE, MAUI COUNTY

	1993	1994	1995	1996	1997	1998	1999	2000
Retailing	904,620,000	966,355,000	953,473,875	833,349,525	621,260,750	649,032,400	1,200,011,150	1,357,279,775
Services	294,121,000	311,996,000	332,350,025	323,517,975	315,540,900	328,849,125	404,622,650	445,827,275
Contracting	198,535,000	205,115,000	188,497,150	181,665,900	161,468,800	193,365,375	259,711,650	326,777,275
Theater, Amusements, Radio, etc.	6,704,000	6,186,000	6,712,900	6,348,825	5,757,150	6,518,225	15,984,275	16,659,825
Interest	8,734,000	8,203,000	9,019,025	8,360,500	7,568,225	7,794,250	11,002,075	12,191,625
Commissions	41,541,000	46,435,000	45,460,125	55,078,925	53,701,225	64,093,175	82,441,600	102,188,000
Hotel Rentals	287,317,000	301,289,000	302,295,300	326,989,550	219,644,400	192,012,700	332,734,900	373,941,925
All Other Rentals	266,880,000	251,857,000	260,702,375	230,939,550	189,527,750	206,840,275	272,953,600	284,930,450
Use (4%)	36,136,000	27,623,000	23,979,725	16,284,725	6,608,975	9,585,650	32,232,375	44,145,100
All Others (4%)	106,909,000	115,362,000	122,619,650	106,482,875	73,681,600	76,290,300	125,497,600	119,762,625
<b>SUB-TOTAL</b>	<b>2,151,497,000</b>	<b>2,240,421,000</b>	<b>2,245,110,150</b>	<b>2,089,018,350</b>	<b>1,654,759,775</b>	<b>1,734,381,475</b>	<b>2,737,191,875</b>	<b>3,083,703,875</b>
Insurance Solicitors	50,374,000	113,238,000	72,992,667	38,562,000	29,943,333	31,336,665	94,902,666	41,309,334
Sugar Processing	8,557,000	5,186,000	7,760,000	-574,000	85,400	6,800	73,000	147,600
Pineapple Canning	2,910,000	3,325,000	3,516,400	353,800	265,400	607,000	2,900,400	2,376,000
Producing	37,680,000	34,511,000	36,475,600	25,030,200	21,713,000	26,281,200	29,412,400	28,193,200
Manufacturing	13,611,000	14,061,000	18,755,400	17,230,800	17,607,400	18,410,800	21,927,400	27,228,200
Wholesaling	294,825,000	300,607,000	269,816,600	247,287,400	191,297,600	209,382,400	328,986,000	367,046,000
Services (Intermediary)	11,259,000	25,429,000	18,455,800	25,437,400	26,346,200	25,449,200	30,991,200	37,430,000
Use (1/2%)	132,644,000	144,160,000	131,134,400	83,113,800	42,011,800	61,979,800	183,129,000	233,743,000
<b>SUB-TOTAL</b>	<b>551,860,000</b>	<b>640,517,000</b>	<b>558,906,867</b>	<b>436,441,400</b>	<b>329,270,133</b>	<b>373,473,865</b>	<b>692,322,066</b>	<b>737,473,334</b>
<b>GRAND TOTAL</b>	<b>2,703,357,000</b>	<b>2,880,938,000</b>	<b>2,804,017,017</b>	<b>2,525,459,750</b>	<b>1,984,029,908</b>	<b>2,107,855,340</b>	<b>3,429,513,941</b>	<b>3,821,177,209</b>

NOTES: This report is on cash basis accounting, and reflects tax bases only for allocated collections. The base for unallocated net collections cannot be determined due to differing tax rates which may be applicable. Unallocated collections as percent of total collections: 1995 and before <=5%, 1996=20.7%, 1997=35.3%, 1998=36.3% and 1999=8.4% when the Department of Taxation altered its general excise tax reporting procedures. (Unallocated net collections 2000=5.8%.) The unallocated net collections category includes amounts resulting from collections from electronic fund payments (apparently causing its rise from 1996 to 1998), penalty and interest, assessments and corrections, delinquent collections, refunds, protested payments and settlements, etc. This table will understate the general excise tax base in Maui County for the above reason and also because many businesses operating statewide locate their head office in Honolulu, so all their income is attributed to that county rather than among each county in which they operate.

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base, Calendar Years 1991 to 1998 (annual).

## 11.2.2

### RETAIL ESTABLISHMENTS BY TYPE AND LOCATION

*Based on primary Standard Industrial Classification (SIC) code and zip code*

#### Establishment Type

Location	Number	Location	Number	Totals	
<b>Building materials and garden supplies (SIC 52—)</b>					
Haiku	2	Lahaina	4		
Kahului	15	Makawao	3		
Kihei	4	Wailuku	2		
Kula	1			Maui Subtotal	31
		Kaunakakai	3	Total	34
<b>General merchandise stores (SIC 53—)</b>					
Hana	1	Lahaina	6		
Kahului	9	Makawao	2		
Kihei	1	Paia	1		
Kula	1	Wailuku	4	Maui Subtotal	25
		Kaunakakai	2		
		Lanai City	2	Total	29
<b>Food stores (SIC 54—)</b>					
Haiku	6	Lahaina	30		
Kahului	22	Makawao	8		
Kihei	18	Paia	10		
Kula	4	Wailuku	20	Maui Subtotal	118
Kaunakakai	5	Kualapuu	1		
		Lanai City	3	Total	127
<b>Automotive dealers and service stations (SIC 55—)</b>					
Kahului	33	Makawao	4		
Kihei	4	Paia	2		
Kula	1	Wailuku	15		
Lahaina	9			Maui Subtotal	68
		Kaunakakai	4		
		Lanai City	2	Total	74

## 11.2.2

CONTINUED

### Establishment Type

Location	Number	Location	Number	Totals	
<b>Apparel and accessory stores (SIC 56—)</b>					
Hana	2	Lahaina	105		
Kahului	39	Makawao	4		
Kihei	23	Paia	5		
Kula	1	Wailuku	5	Maui Subtotal	184
Kaunakakai	3	Maunaloa	1	Total	188
<b>Furniture and homefurnishings stores (SIC 57—)</b>					
Haiku	1	Kula	1		
Hana	1	Lahaina	16		
Kahului	21	Makawao	1		
Kihei	7	Wailuku	10	Total	58
<b>Eating and drinking places (SIC 58—)</b>					
Haiku	4	Lahaina	98		
Hana	2	Makawao	15		
Kahului	47	Paia	8		
Kihei	60	Wailuku	55		
Kula	3			Maui Subtotal	292
Kaunakakai	4	Kualapuu	1		
		Lanai City	2	Total	299
<b>Miscellaneous retail (SIC 59—)</b>					
Haiku	3	Lahaina	132		
Hana	2	Makawao	14		
Kahului	62	Paia	4		
Kihei	47	Wailuku	21		
Kula	7			Maui Subtotal	292
Hoolehua	1	Kaunakakai	3		
Kalaupapa	1	Maunaloa	1	Total	298
				<b>Grand Total</b>	<b>1,107</b>

NOTE: Pukalani combined with Makawao, and Puunene combined with Kahului.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Zip Code Business Patterns 1996*, on CD-ROM.

### 11.2.3

## CHARACTERISTICS OF MAJOR SHOPPING CENTERS, MAUI COUNTY

*Includes all centers with more than 50,000 square feet of gross leasable area*

	Location	Stores	Year Built/Renovated	Gross Leasable Area
Kaahumanu Center	Kahului	88	1972/1995	572,896
Maui Marketplace	Kahului	23	1997	263,033
The Shops At Wailea	Kahului	100	2000	224,450
Maui Mall	Kahului	50	1971/1995	190,452
Lahaina Center Factory Stores	Lahaina	NA	1990	150,000
Lahaina Cannery Shopping Center	Lahaina	NA	1987	132,000
Azeka I & II	Kihei	NA	1979/1992	124,632
Kahului Shopping Center	Kahului	35	1951/1960	112,066
Whalers Village	Lahaina	37	1971	79,000
Lahaina Shopping Center	Lahaina	21	1995/1995	77,000
Kahana Gateway	Lahaina	NA	1990	58,902
Whaler's Market Place In Lahaina	Lahaina	46	1974	56,165
Lahaina Square	Lahaina	25	1973	52,000
The Wharf	Lahaina	56	1978/1987	50,000

SOURCE: National Research Bureau, 1999 database supplied to Claritas, Inc.

### 11.2.4

## RETAIL ESTABLISHMENTS WITH PAYROLL (NAICS BASIS), MAUI COUNTY

	Number of Establishments	Sales (\$1,000)	Annual Payroll (\$1,000)	Paid Employees*
State Total	5,088	11,317,752	1,161,805	64,218
Maui County	805	1,359,298	150,721	8,244
Maui Island				
Haiku-Pauwela	7	4,325	483	30
Kahului	203	583,649	59,310	3,405
Kihei	82	123,551	12,785	720
Lahaina	242	299,657	37,875	1,873
Makawao/Pukalani	34	45,930	5,145	305
Napili-Honokowai	9	12,195	1,173	62
Wailea-Makena	22	20,371	2,487	162
Wailuku	64	107,198	12,027	604
Lanai	7	7,656	1,098	55
Kaunakakai, Molokai	15	28,391	3,441	196
Balance of Maui County	129	D	D	500-999

\* For pay period including March 12.

SOURCE: U.S. Bureau of the Census, *1997 Economic Census, Retail Trade, Hawaii* (1999), tables 1, 3 and 4.

## 11.2.5

## SUMMARY OF RETAIL TRADE BY BUSINESS GROUP, MAUI COUNTY

*Sales in thousands of dollars*

SIC Code	Business Group	1987	1992
	All Retail Trade		
	Number	971	1,097
	Sales	920,571	1,324,772
52	Building materials and garden supply stores		
	Number	28	36
	Sales	35,643	54,321
53	General merchandise stores		
	Number	32	25
	Sales	61,549	89,716
54	Food Stores		
	Number	135	114
	Sales	228,953	317,010
55 ex. 554	Automotive dealers		
	Number	33	35
	Sales	95,792	201,568
554	Gasoline service stations		
	Number	36	36
	Sales	55,569	71,455
56	Apparel and accessory stores		
	Number	183	214
	Sales	85,932	110,200
57	Furniture and homefurnishing stores		
	Number	51	63
	Sales	31,907	46,666
58	Eating and drinking places		
	Number	236	283
	Sales	168,686	231,255
59 ex. 591	Miscellaneous retail stores		
	Number	221	274
	Sales	108,851	130,258
591	Drug and proprietary stores		
	Number	16	17
	Sales	47,689	72,323

SOURCE: U.S. Bureau of the Census, *1987 Census of Retail Trade, Hawaii* (Geographic Area Series), RC87-A-12 (May 1989), table 7; U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii* (Geographic Area Series), RC92-A-12 (1995), table 6.

11.2.6

**MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS WITH PAYROLL, FOR THE STATE, OAHU AND THE REST OF THE STATE**

Merchandise Line	NUMBER OF ESTABLISHMENTS			SALES (\$1,000)		
	State Total	Oahu	Rest of State	State Total	Oahu	Rest of State
<b>TOTAL Retail Trade<sup>1</sup></b>	<b>7,807</b>	<b>5,181</b>	<b>2,626</b>	<b>11,250,217</b>	<b>8,341,630</b>	<b>2,908,587</b>
Groceries and other food items	1,604	1,089	515	1,769,219	1,213,871	555,348
Meals and snacks	2,949	2,032	917	1,651,956	1,241,426	410,530
Alcoholic drinks	1,315	967	348	238,291	172,826	65,465
Packaged alcoholic beverages	836	546	290	242,439	149,852	92,587
Cigars, cigarettes, and tobacco	1,121	717	404	144,649	96,932	47,717
Drugs, health aids, and beauty aids	916	562	354	697,542	522,870	174,672
Soaps, detergents, and cleaners	534	330	204	79,199	55,334	23,865
Paper and related products	502	298	204	59,266	41,697	17,569
Men's wear	1,013	557	456	353,900	267,214	86,686
Women's, juniors', & misses' wear	1,279	751	528	670,350	537,989	132,361
Children's wear	605	287	318	97,474	67,417	30,057
Footwear	707	403	304	188,674	149,304	39,370
Sewing, knitting, & needlework goods	136	95	41	27,953	21,921	6,032
Curtains, draperies, and dry goods	208	132	76	58,992	43,954	15,038
Major household appliances	171	112	59	95,421	66,948	28,473
Small electric appliances	268	164	104	50,823	40,734	10,089
Televisions, video equipment/tapes	205	128	77	99,642	83,638	16,004
Audio equipment, musical instruments	391	255	136	148,984	120,191	28,793
Furniture and sleep equipment	243	161	82	160,795	121,276	39,519
Floor coverings	130	80	50	55,160	38,953	16,207
Computer hardware, software, & supplies	120	78	42	63,612	55,374	8,238
Kitchenware and homefurnishings	767	461	306	163,099	133,711	29,388
Jewelry	1,104	725	379	458,618	382,081	76,537
Books	389	227	162	73,415	54,948	18,467
Photographic equipment and supplies	238	137	101	47,316	35,028	12,288
Toys, hobby goods, and games	529	312	217	80,045	63,632	16,413
Optical goods	189	128	61	37,402	33,780	3,622
Sporting goods	441	277	164	150,661	115,406	35,255
Hardware, tools, plumbing, & elect. suppl.	290	175	115	140,736	103,974	36,762
Lawn and garden equipment	379	234	145	116,711	92,629	24,082
Lumber, millwork, building materials	180	98	82	144,054	86,023	58,031
Paint & related preservatives & supplies	133	68	65	65,021	45,498	19,523
Cars, vans, trucks, powered vehicles	126	84	42	1,143,755	862,929	280,826
Automotive fuels	500	362	138	467,464	297,348	170,116
Automotive lubricants	428	249	179	16,410	12,324	4,086
Automotive tires, batteries, accessories	495	306	189	230,257	170,574	59,683
Household fuels	33	14	19	10,426	8,192	2,234
Pets, pet foods, and pet supplies	253	144	109	35,698	25,415	10,283
All other merchandise	1,458	887	571	494,942	394,287	100,655
Unclassified merchandise	818	535	283	104,109	81,661	22,448
Nonmerchandise receipts	1,300	820	480	314,843	231,850	82,993
Miscellaneous merchandise	X	X	X	894	619	275

<sup>1</sup> Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

X: Not applicable.

SOURCE: U.S. Bureau of the Census, *1992 Economic Censuses CD-ROM Vol. 1, Release 1G, "1992 Census of Retail Trade: Merchandise Line Sales—U.S., States, MSAs."*



11.2.7

**COMMERCIAL LEASE RENTS,  
MAUI ISLAND**

*Compiled by James M. "Mac" Lowson, CCIM PB,  
Lowson and Associates  
and  
Felix B. Osorno (R), GRI  
Felicon Enterprises, Ltd.*

Location	YEAR 2001	RANGE PER SQUARE FOOT PER MONTH		
		Retail	Office	Warehouse
West Maui:				
Lahaina Shopping Centers		\$2.50 to \$3.50	NA	NA
Off Front Street		\$1.75 to \$5.00	\$1.25 to \$1.75	NA
Industrial Area		\$1.00 to \$1.55	\$0.80 to \$1.55	\$1.00 to \$1.50
Front Street		\$10.00 to \$25.00	\$1.50 to \$2.50	NA
Kihei		\$1.75 to \$3.50	\$1.35 to \$2.75	\$0.95 to \$1.20
Wailuku		\$1.75 to \$2.00	\$0.95 to \$1.60	\$0.70 to \$1.25
Kahului		\$1.25 to \$3.50	\$1.25 to \$2.00	\$0.70 to \$1.25
Common area charges (in addition to rent, per square foot rented, all areas):				
		\$0.15 to \$0.95	\$0.23 to \$0.94	\$0.08 to \$0.47

NOTE: Retail rents are usually a base rent against a percentage rent of 8% to 12% of gross receipts. The tenant pays whichever is higher (but not both).

SOURCE: Lowson and Associates and Felicon Enterprises, records. Current property listings can be found at [www.mauicommercial.com](http://www.mauicommercial.com), sponsored by members of the Commercial Round Table of Maui.

## 11.3.1

## CHARACTERISTICS OF BUSINESS ESTABLISHMENTS BY SECTOR, MAUI COUNTY

*Excludes government employees, agricultural production workers and self-employed persons*

Industry	Number of Establishments <sup>1</sup>	Number of Employees <sup>2</sup>	Annual Payroll (\$1,000)
<b>Agricultural Service, Forest and Fisheries</b>	<b>47</b>	<b>250-499</b>	<b>D</b>
Agricultural services	46	250-499	D
Fishing, hunting, and trapping	1	0-19	D
<b>Mining</b>	<b>1</b>	<b>0-19</b>	<b>D</b>
Nonmetallic minerals, except fuels	1	0-19	D
<b>Construction</b>	<b>358</b>	<b>2,122</b>	<b>70,665</b>
General contractors and operative builders	134	500-999	D
Heavy construction, except building	18	100-249	D
Special trade contractors	205	1,060	38,163
Construction, administrative and auxiliary	1	250-499	D
<b>Manufacturing</b>	<b>108</b>	<b>1,844</b>	<b>55,959</b>
Food and kindred products	29	1,338	35,966
Apparel and other textile products	10	20-99	D
Lumber and wood products	9	20-99	D
Furniture and fixtures	2	0-19	D
Printing and publishing	23	212	7,823
Chemicals and allied products	4	0-19	D
Petroleum and coal products	1	0-19	D
Rubber and miscellaneous plastics products	1	0-19	D
Stone, clay, and glass products	8	105	4,900
Fabricated metal products	1	0-19	D
Industrial machinery and equipment	4	0-19	D
Transportation equipment	3	0-19	D
Miscellaneous manufacturing industries	10	27	791
Manufacturing, administrative and auxiliary	3	20-99	D
<b>Transportation and Other Public Utilities</b>	<b>211</b>	<b>3,417</b>	<b>96,664</b>
Local and interurban passenger transit	24	847	12,448
Trucking and warehousing	37	340	10,533
Water transportation	27	438	11,880
Transportation by air	22	676	19,414
Transportation services	69	250-499	D
Communication	22	393	15,301
Electric, gas, and sanitary services	10	250-499	D
<b>Wholesale Trade</b>	<b>198</b>	<b>1,611</b>	<b>48,228</b>
Wholesale trade - durable goods	84	500-999	D
Wholesale trade - nondurable goods	111	1,000	30,973
Wholesale, administrative and auxiliary	3	20-99	D
<b>Retail Trade</b>	<b>1,113</b>	<b>13,592</b>	<b>225,462</b>
Building materials and garden supplies	34	250	5,552
General merchandise stores	31	1,184	17,971
Food stores	127	1,968	35,263
Automotive dealers and service stations	75	988	26,271

### 11.3.1

CONTINUED

Industry	Number of Establishments <sup>1</sup>	Number of Employees <sup>2</sup>	Annual Payroll (\$1,000)
<b>Retail Trade (con't)</b>			
Apparel and accessory stores	193	1,234	16,990
Furniture and homefurnishings stores	56	322	7,018
Eating and drinking places	299	5,756	78,155
Miscellaneous retail	288	1,827	36,183
Retail, administrative and auxiliary	10	63	2,059
<b>Finance, Insurance and Real Estate</b>	<b>423</b>	<b>3,049</b>	<b>88,236</b>
Depository institutions	62	537	13,609
Nondepository institutions	24	141	5,641
Security and commodity brokers	7	20-99	D
Insurance carriers	9	20-99	D
Insurance agents, brokers, and service	19	81	2,089
Real estate	284	2,075	58,788
Holding and other investment offices	17	102	2,837
Finance, Ins. and RE, administrative and auxiliary	1	20-99	D
<b>Services</b>	<b>1,238</b>	<b>21,724</b>	<b>499,387</b>
Hotels and other lodging places	73	12,012	262,791
Personal services	87	496	7,666
Business services	171	1,224	22,983
Auto repair, services, and parking	77	723	15,755
Miscellaneous repair services	29	20-99	D
Motion pictures	23	288	3,502
Amusement and recreation services	144	1,367	26,089
Health services	227	2,767	95,585
Legal services	59	185	6,878
Educational services	28	314	6,389
Social services	78	952	16,330
Museums, botanical, zoological gardens	5	25	275
Membership organizations	95	610	11,196
Engineering and management services	131	643	20,505
Services, not elsewhere classified	9	0-19	D
Services, administrative and auxiliary	2	20-99	D
<b>Unclassified Establishments</b>	<b>11</b>	<b>26</b>	<b>396</b>
<b>TOTAL</b>	<b>3,708</b>	<b>47,650</b>	<b>1,091,083</b>

<sup>1</sup> Data refer to establishments in business at anytime during the year.

<sup>2</sup> For week including March 12. A range for the number of employees may be given to avoid disclosing data for individual companies.

D: Withheld to avoid disclosing data for individual companies.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *County Business Patterns 1995-1996*, on CD-ROM.

### 11.3.2

## LARGEST PRIVATE CORPORATIONS, MAUI COUNTY

Company	State Rank		Sales (\$ million)		Employees
	1998	1997	1998	1997	
Maui Land & Pineapple Co., Inc.	41	43	143.7	136.5	2,030
TS Restaurants of Hawaii & California	107	109	60.8	58.0	1,400
Four Seasons Maui Resort at Wailea	108	121 <sup>1</sup>	60.0	53.0	600
Valley Isle Motors, Ltd.	114	118	56.8	54.4	120
The Ritz Carlton Kapalua	126	126	53.0	50.0	600
VIP Foodservice	127	129	53.0	48.0	142
Kea Lani Hotel	145	145	45.0	43.0	540
Maui Medical Group Inc.	225	NR	25.6	17.0	200
Maui Petroleum Inc.	231	197	24.5	27.5	15
Embassy Vacation Resort	232	229	24.0	23.0	360
Ooka Supermarket, Ltd.	234	218	24.0	24.5	105
Dorvin D. Leis Co. Inc.	245	247	22.2	21.0	140
Hale Makua	NR	NR	20.2	19.2	450
Maui Toyota	NR	NR	16.6	15.0	29

<sup>1</sup> In 1997, listed as SCP (Maui 5) Inc. DBA (doing business as) Four Seasons Resort, Wailea.  
NR: Not ranked.

SOURCE: "Top 250," *Hawaii Business*, August 1999, pp.57, 84-128, 146-154.

### 11.3.3

## CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, MAUI COUNTY

*Excludes government employees, agricultural production workers and self-employed persons*

Characteristics	1995			1996		
	State Total	Maui	Statewide	State Total	Maui	Statewide
Number of establishments <sup>1</sup>	29,942	3,639	1	29,967	3,708	1
Number of employees <sup>2</sup>	423,822	46,141	0-19	424,116	47,650	20-49
Payroll—First quarter (\$1,000)	2,611,193	250,131	D	2,666,805	264,491	D
Payroll—Annual (\$1,000)	10,695,990	1,024,023	D	10,954,149	1,091,083	D

<sup>1</sup> Data refer to establishments active anytime during the year.

<sup>2</sup> For week including March 12.

D: Withheld to avoid disclosing data for individual companies.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *County Business Patterns 1995-1996*, on CD-ROM.

### 11.3.4

## NUMBER OF BUSINESS ESTABLISHMENTS, STATE OF HAWAII AND MAUI COUNTY

*Through 1982, this table includes business establishments with taxable payrolls during the first quarter of the calendar year; for 1983 and later years, it includes those with taxable payrolls anytime during the year*

Year	State Total	Maui County
1979	20,621	1,858
1980	21,125	1,864
1981	21,264	1,872
1982	21,655	1,988
1983 <sup>1</sup>	24,519	2,257
1984	25,093	2,406
1985	25,742	2,528
1986	26,212	2,656
1987	27,281	2,867
1988	27,938	2,958
1989	28,443	3,096
1990	29,313	3,239
1991	29,736	3,367
1992	30,467	3,482
1993	30,157	3,502
1994	29,995	3,578
1995	29,942	3,639
1996	29,967	3,708
1997	29,991	3,766

<sup>1</sup> New definition (see headnote).

SOURCES: Hawaii Department of Business, Economic Development & Tourism, *County and District Trends in Hawaii, 1991*, (Statistical Report 224, January 1992), table 18; U.S. Department of Commerce, Bureau of the Census, *County Business Patterns 1992-1997 Hawaii* (annual), table 1a.

11.3.5

**SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT  
TO FEDERAL INCOME TAX, FOR PLACES WITH 2,500  
INHABITANTS OR MORE, MAUI COUNTY**

Geographic Area	NUMBER		SALES (\$1000)	
	1987	1992	1987	1992
All Services				
Maui County	725	880	652,792	918,353
Lanai	3	2	D	D
Molokai	20	20	17,641	11,803
Kaunakakai		3		92
Maui				
Haiku-Pauwela		7		715
Kahului	171	195	110,323	128,700
Kihei	66	121	16,496	14,965
Lahaina	116	137	140,715	167,454
Makawao	14	27	D	5,334
Napili-Honokowai		3		3,796
Pukalani	18	17	2,674	6,146
Wailea-Makena		5		D
Wailuku	237	254	67,673	131,363
Balance of County	80	89	295,383	D
<b>Hotels<sup>1</sup></b>				
Maui County	45	67	402,763	D
Lanai	-	-		-
Molokai	2	3	D	D
Kaunakakai		1		D
Maui				
Haiku-Pauwela		1		D
Kahului	3	3	D	D
Kihei	7	17	8,064	112,386
Lahaina	17	20	102,114	118,132
Napili-Honokowai		3		3,796
Wailea-Makena		2		D
Wailuku	1	2	D	D
Balance of County	15	15	268,550	D
<b>Automotive Services<sup>2</sup></b>				
Maui County	70	77	73,773	94,709
Lanai		-		-
Molokai	5	3	1,663	1,427
Maui				
Haiku-Pauwela		1		D
Kahului	30	27	57,949	51,466
Kihei	2	2	D	D
Lahaina	7	9	1,558	1,533
Makawao	1	2	D	D
Wailuku	16	23	4,286	7,955
Balance of County	9	10	7,365	31,502

## 11.3.5

CONTINUED

Geographic Area	NUMBER		SALES (\$1000)	
	1987	1992	1987	1992
<b>Amusement Services<sup>3</sup></b>				
Maui County	96	123	37,676	72,681
Lanai		–		–
Molokai	3	3	D	D
Maui				
Haiku-Pauwela		1		D
Kahului	14	20	4,539	9,083
Kihei	18	30	2,964	20,439
Lahaina	27	38	20,813	26,661
Makawao	3	2	D	D
Pukalani	2	2	D	D
Wailuku	12	9	2,815	4,695
Balance of County	17	18	4,848	6,568
<b>Health Services<sup>4</sup></b>				
Maui County	151	195	45,249	98,513
Lanai	2	2	D	D
Molokai	5	6	D	1,929
Maui				
Kahului	43	53	11,382	23,899
Kihei	9	18	1,183	6,584
Lahaina	14	16	5,001	5,674
Makawao	2	9	D	1,310
Pukalani	9	6	1,964	2,160
Wailuku	63	76	23,778	54,540
Balance of County	4	9	D	D
<b>Legal Services<sup>5</sup></b>				
Maui County	50	53	14,329	20,846
Lanai	–	–	D	–
Molokai		–		–
Maui				
Kahului	4	5	1,999	D
Kihei	2	3	D	D
Lahaina	3	1	D	D
Makawao		1		D
Wailuku	41	41	11,548	16,571
Balance of County	–	2	–	D

<sup>1</sup> Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

<sup>2</sup> Automotive repairs, services, and parking garages (SIC 75).

<sup>3</sup> Amusement and recreation services, including motion pictures and museums (SIC 78, 79, 84).

<sup>4</sup> Health services, except hospitals (SIC 80, ex. 806).

<sup>5</sup> Legal services (SIC 81).

D: Withheld to avoid disclosing data for individual companies.

SOURCE: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), table 5; *1992 Census of Service Industries, Hawaii*, SC92-A-12, table 4.

### 11.3.6

## SERVICE ESTABLISHMENTS BY TYPE AND LOCATION

*Based on primary Standard Industrial Classification (SIC) code and zip code*

Establishment Type	Location	Number	Location	Number	Totals	
<b>Hotels and other lodging places (SIC 70—)</b>						
	Hana	2				
	Kahului	4	Makawao	2		
	Kihei	40	Paia	2		
	Lahaina	68	Wailuku	4	Maui Subtotal	122
	Maunaloa	6			Total	128
<b>Personal services (SIC 72—)</b>						
	Haiku	2	Lahaina	16		
	Kahului	28	Makawao	18		
	Kihei	36	Paia	4		
	Kula	4	Wailuku	40	Maui Subtotal	148
	Kaunakakai	2			Total	150
<b>Business services (SIC 73—)</b>						
	Haiku	2	Lahaina	58		
	Kahului	90	Makawao	14		
	Kihei	70	Paia	2		
	Kula	6	Wailuku	72	Maui Subtotal	314
	Hoolehua	2	Kaunakakai	6	Total	322
<b>Auto repair, services, and parking (SIC 75—)</b>						
	Haiku	2				
	Hana	2	Kula	2		
	Kahului	62	Lahaina	20		
	Kihei	8	Wailuku	44	Maui Subtotal	140
	Hoolehua	4	Kaunakakai	2	Total	146
<b>Miscellaneous repair services (SIC 76—)</b>						
	Haiku	2				
	Kahului	14	Lahaina	8		
	Kihei	4	Makawao	4		
	Kula	2	Wailuku	22	Maui Subtotal	56
	Kaunakakai	4			Total	60
<b>Motion pictures (SIC 78—)</b>						
	Haiku	4				
	Kahului	16	Makawao	4		
	Kihei	14	Paia	2		
	Lahaina	10	Wailuku	2	Total	52
<b>Amusement and recreation services (SIC 79—)</b>						
	Haiku	4	Lahaina	80		
	Kahului	40	Makawao	10		
	Kihei	70	Paia	12		
	Kula	6	Wailuku	24	Maui Subtotal	246
	Hoolehua	2	Maunaloa	2	Total	250
<b>Health Services (SIC 80—)</b>						
	Haiku	6				
	Hana	6	Lahaina	36		
	Kahului	132	Makawao	34		
	Kihei	44	Paia	2		
	Kula	4	Wailuku	162	Maui Subtotal	426
	Kaunakakai	14	Kualapuu	2		
	Lanai City	6			Total	448



### 11.3.6

CONTINUED

Establishment Type				Totals	
Location	Number	Location	Number		
<b>Legal services (SIC 81—)</b>					
Kahului	12	Makawao	6		
Kihei	6	Paia	4		
Lahaina	2	Wailuku	82	Maui Subtotal	112
Kaunakakai	2	Lanai City	2	Total	116
<b>Educational services (SIC 82—)</b>					
Haiku	2				
Hana	2	Lahaina	4		
Kahului	6	Makawao	8		
Kihei	2	Paia	2		
Kula	2	Wailuku	14	Total	42
<b>Social services (SIC 83—)</b>					
Haiku	4				
Hana	2	Lahaina	14		
Kahului	26	Makawao	12		
Kihei	16	Paia	4		
Kula	2	Wailuku	52	Maui Subtotal	132
Hoolehua	2	Kaunakakai	20		
Lanai City	4			Total	158
<b>Museums, botanical, zoological gardens (SIC 84—)</b>					
Haiku	2	Kula	2		
Hana	4	Lahaina	2		
Kahului	2	Wailuku	4	Total	16
<b>Membership organizations (SIC 86—)</b>					
Haiku	4				
Hana	2	Lahaina	40		
Kahului	38	Makawao	12		
Kihei	24	Paia	8		
Kula	4	Wailuku	42	Maui Subtotal	174
Hoolehua	2	Kualapuu	2		
Kaunakakai	12	Lanai City	4	Total	194
<b>Engineering and management services (SIC 87—)</b>					
Haiku	6	Kula	2		
Hana	4	Lahaina	16		
Kahului	44	Makawao	22		
Kihei	48	Wailuku	92	Maui Subtotal	234
Kaunakakai	4	Kualapuu	2	Total	240
<b>Services, not elsewhere classified (SIC 89—)</b>					
Haiku	2	Lahaina	2		
Kahului	2	Makawao	2		
Kihei	2	Paia	4	Total	14
				<b>Grand Total</b>	<b>2,336</b>

NOTE: Pukalani is combined with Makawao, and Puunene with Kahului.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Zip Code Business Patterns 1995*, on CD-ROM.



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