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**MAUI  
COUNTY  
DATA BOOK  
2 0 0 3**

COUNTY OF MAUI  
OFFICE OF ECONOMIC DEVELOPMENT

HAWAI'I SMALL BUSINESS DEVELOPMENT CENTER NETWORK  
HAWAI'I BUSINESS RESEARCH LIBRARY

A Partnership Program between the University of Hawaii at Hilo  
and the U.S. Small Business Administration

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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 at <http://www.hawaii.gov/dbedt/>.

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## ABOUT THIS BOOK

We hope you find the 2003 edition of the *Maui County Data Book* useful and valuable. This publication provides economic, demographic and other statistical information about the County of Maui.

This Eleventh edition of the *Data Book* is produced by the Hawai'i SBDC Network, Hawaii Business Research Library (HBRL) 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 online via the Internet (<http://www.hbri-sbdc.org>). In addition to compiling and updating the *Data Book*, the Hawaii Business Research Library provides a call-in/email service to provide 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 HBRL 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/db02/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 ([http://www.hawaii-county.com/databook\\_current/dbooktoc.htm](http://www.hawaii-county.com/databook_current/dbooktoc.htm)). The Hawaii State Office of Hawaiian Affairs publishes the *Native Hawaiian Data Book* (<http://oha.org/databook/index.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 HBRL in preparing the Maui County Data Book. To them we extend our deepest appreciation for their support and cooperation.

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# CONTENTS

<b>ABOUT THIS BOOK .....</b>	<b>v</b>
<b>CONTENTS .....</b>	<b>vi</b>
<b>GENERAL STATISTICS</b>	
Introduction .....	2
1.1.1 Map of Maui County and Districts .....	3
1.2.1 Maui County Statistics .....	4
1.3.1 Map of Maui County Subdivisions and Places .....	5
1.3.2 Resident Population by Counties .....	6
1.3.3 Map of Maui County Census Tracts .....	7
1.3.4 De Facto Population, by Counties .....	8
1.3.5 Resident Population by Counties and Districts .....	9
1.3.6 Resident Population, Land Area, and Population Density of Divisions and Census Designated Places, Maui County .....	10
1.3.7 Resident Population and Households, Maui County by Districts and Census Tracts .....	11
1.3.8 Summary Characteristics of Persons for Maui County and Census Designated Places, by Race and Sex .....	12
1.3.9 Summary by Age of Person, Maui County Divisions and Census Designated Places .....	14
1.3.10 Population by Race, Maui County .....	16
1.3.11 Components of Change in the Resident Population of Maui County .....	17
1.3.12 Live Births, Maui County by Districts .....	17
1.3.13 Population and Economic Projections, Maui County: 1990 to 2010 .....	18
1.4.1 Personal Income, Total and Per Capita, by Counties .....	19
1.4.2 Earnings by Detailed Industry, Maui County .....	20
1.4.3 Estimated Costs of Living by Category, Counties of Hawaii Relative to Washington, DC .....	22
1.4.4 Cost of Living Comparison .....	23
1.4.5 Consumer Price Index (All Items Combined), by Type of Consumer, for Honolulu: Semi-annually and Annually .....	23
1.4.6 Consumer Price Index for All Urban Consumers (CPI-U), by Expenditure Category, Commodity and Service Group, for Honolulu: Annual Averages .....	24
1.5.1 Capacities of Hospitals, Specialty Care Beds, Maui County .....	26
1.5.2 Adult Residential Care Homes, Maui County .....	27
1.5.3 Health Practitioners Licensed in Hawaii by Place of Address .....	28

---

## EDUCATION

Introduction .....	30
2.1 Maui District Public and Private Schools by Island and Location .....	31
2.2 Per Pupil Expenditures by Schools/functions, Maui County .....	32
2.3 Public Schools: Enrollment and Grades, Maui District .....	33
2.4 Private Schools: Enrollment and Grades, Maui District .....	34
2.5 Library Holdings and Circulation, Hawaii State Library System, Maui Library District .....	35
2.6 Library Holdings and Circulation, Maui Community College .....	35
2.7 Degrees and Certificates Earned by Degree and Program at Maui Community College, Fiscal Years Ending June 30 .....	36
2.8 University of Hawaii Distance Learning Course and Registration Counts, by Island .....	37
2.9 Maui Community College, Number of Students and Faculty .....	38

## GEOGRAPHY & LAND USE

Introduction .....	40
3.1.1 Land and Water Area of Counties and Islands .....	41
3.1.2 General Coastline and Tidal Shoreline of Hawaii, by County and Island .....	42
3.1.3 Major Named Waterfalls, Maui County .....	43
3.1.4 Elevations of Major Summits .....	44
3.1.5 Miscellaneous Geographic Statistics, by Islands .....	46
3.1.6 Temperature and Precipitation Averages and Extremes, Maui County .....	47
3.1.7 Monthly Rainfall and Temperature at Specified Locations in Maui County .....	48
3.1.8 Annual Rainfall and Temperature at Specified Locations, Maui County .....	50
3.2.1 Trends in Real Property Tax Base, Maui County .....	51
3.2.2 Land Use Districts, Maui County .....	52
3.2.3 Estimated Acreage of Land Use Districts, by Islands .....	53
3.2.4 Map of Land Ownership, Maui County .....	54
3.2.5 National and State Historic Places, Maui County .....	55
3.2.6 Land in Hawaii Owned by Selected Large Landowners .....	56
3.2.7 Department of Hawaiian Home Lands Acreage, Lessees, and Applicants, by Islands .....	56
3.2.8 Single Family Home and Condominium Sales by Area, Maui County .....	57
3.2.9 Forest Acreage, Maui County .....	58

## GOVERNMENT

Introduction .....	60
4.1 Maps of Election Districts .....	61
4.2 Registered Voters and Votes Cast in the November 5, 2002 General Election .....	65
4.3 Maui County General Election Results, November 5, 2002 .....	66
4.4 Maui County Charter Amendments, November 5, 2002 .....	67
4.5 Maui County General Election Results, Office of Hawaiian Affairs Trustees and State Constitutional Amendments, November 5, 2002 .....	68
4.6 County Statement of Revenues and Expenditures .....	69
4.7 State Tax Collections, Maui County Fiscal Years Ending June 30 .....	70

4.8	Estimated Real Property Tax Revenue, Maui County .....	71
4.9	Real Property Tax Rates, Maui County .....	72
4.10	Public Bonded Debt of State and Maui County Governments .....	73

## **AGRICULTURE & AQUACULTURE**

Introduction .....	76
5.1.1 Map of Agricultural Areas, Maui County .....	77
5.1.2 Tenure and Characteristics of Farm Operators and Types of Farm Organization, Maui County .....	78
5.1.3 Farms and Land in Farms, Maui County .....	80
5.1.4 Number of Farms, Farm Acreage, and Farm Employment, Maui County .....	81
5.1.5 Livestock: Number of Operations and Value of Sales, Maui County .....	81
5.1.6 Acreage in Crop and Number of Crop Farms, Maui County .....	82
5.1.7 Sugarcane, Maui Island.....	83
5.1.8 Vegetables, Melons and Taro, Acreage, Production and Value, Maui County .....	84
5.1.9 Floriculture and Nursery Products, Maui County .....	86
5.1.10 Floriculture and Nursery Productsby Commodity, Maui County .....	86
5.1.11 Fruits: Value of Sales, Maui County .....	87
5.1.12 Bananas .....	87
5.2.1 Commercial Marine Landings, Maui County: 1982 to 2000 .....	88
5.2.2 Sea Species Commonly Caught near Fish Aggregating Devices, Maui County .....	89
5.2.3 FAD Catches and Trip Count, Maui County .....	90

## **COMMUNICATION & TRANSPORTATION**

Introduction .....	92
6.1.1 Average Paid Circulation of the Maui News .....	93
6.1.2 Average Distribution of Other Newspapers, Maui County .....	93
6.1.3 Cable Television Companies, Subscribers and Revenues, by Counties .....	94
6.1.4 Radio and Television Broadcasting Stations in Operation, Maui County .....	94
6.2.1 Liquid Fuel Tax Base, Maui County .....	95
6.2.2 Gasoline Average Prices per Gallon, for All U.S. Cities and Oahu, Annual Averages .....	95
6.2.3 Highway Distances, Island of Maui .....	96
6.2.4 Hawaii Drivers Licenses in Force and Vehicle Registration, by Type of Vehicle, Maui County .....	96
6.2.5 Motor Vehicle Fuel Consumption and Vehicle Miles .....	97
6.2.6 Aircraft Operations by Type of Aircraft, Major State-Owned Airports .....	98
6.2.7 Aircraft Operations by Type of Aircraft, Kahului and Molokai Airports .....	98
6.2.8 Passengers, Cargo and Mail, Overseas and Interisland, Maui County Airports .....	99
6.2.9 Kahului Harbor Freight Traffic by Commodity .....	100
6.2.10 Vessel Arrivals for Kahului Harbor .....	102
6.2.11 Freight Traffic for Kahului Harbor .....	102



---

## ENERGY & SCIENCE

Introduction .....	105
7.1.1 Telescopes at the Summits of Mauna Kea and Haleakala .....	104
7.1.2 Electric Utilities, Maui County .....	106
7.1.3 Gas Utilities, Maui County .....	108
7.1.4 Hawaii State Energy Data Report, Consumption of Energy by End-Use Sector .....	109
7.1.5 Water Services and Consumption, Maui County .....	110

## CONSTRUCTION & HOUSING

Introduction .....	112
8.1.1 Number and Value of Building Permits, Maui County .....	113
8.1.2 Value of Building Permits, Maui County .....	113
8.1.3 Private Residential Construction Authorizations, Maui County .....	114
8.1.4 Private Residential Construction and Demolition Authorized by Permits, Maui County .....	114
8.1.5 Residential Construction Projects, Maui County .....	115
8.1.6 Commercial Construction Projects, Maui County .....	115
8.1.7 Planned Additions to and Subtractions from Maui Visitor Industry Plant Supply .....	116
8.1.8 Average Weekly Wages for Construction Industries, Maui County .....	116
8.1.9 Construction Establishments by Type and Location, Maui County .....	117
8.1.10 Estimated Value of Land Transactions, by Counties .....	118
8.2.1 Summary of Housing Characteristics by Counties 2000 .....	119
8.2.2 Selected Housing Characteristics, Maui County .....	120
8.2.3 Housing Unit Characteristics by Census Designated Place (CDP), Maui County .....	121
8.2.4 Vacant Housing Unit Characteristics by Census Designated Place (CDP), Maui County .....	122
8.2.5 Occupied Housing Unit Characteristics by Census Designated Place (CDP), Maui County .....	123
8.2.6 Owner-Occupied Housing Unit Values by Census Designated Place (CDP), Maui County .....	124
8.2.7 Renter-Occupied Housing Unit Characteristics by Census Designated Place (CDP), Maui County .....	125
8.2.8 Gross Rent of Renter-Occupied Housing Units by Census Designated Place (CDP), Maui County .....	126

## FINANCE & LABOR

Introduction .....	128
9.1.1 Financial Institutions with Locations in Maui County .....	129
9.1.2 Deposits in Offices of FDIC-Insured Institutions, Maui County .....	129
9.1.3 Federal Credit Unions by Asset Size, Membership and Loans, Maui County .....	130
9.1.4 Federal Credit Union Characteristics, Maui County .....	130
9.2.1 Civilian Labor Force Summary, State of Hawaii and Counties .....	131

---

9.2.2	Employment Status of the Civilian Labor Force by Island, Maui County .....	132
9.2.3	Labor Force by Race and Sex, Maui County .....	134
9.2.4	Annual Average Jobcount by Industry and Island, Maui County .....	135
9.2.5	Annual Pay Ranges for the Top 10 Most Common Occupations, Maui County .....	136
9.2.6	Average Weekly Wages for the Top 10 Paying Industries, Maui County .....	136

## **VISITOR INDUSTRY & RECREATION**

Introduction .....	138
10.1.1 Visitors to Maui County by Month .....	139
10.1.2 Length of Stay and Average Daily Census Eastbound, Westbound and Total, by Island, Maui County .....	140
10.1.3 Average Daily Visitor Census, by Counties .....	141
10.1.4 Domestic Visitor Arrivals from Top MSAS, Maui County .....	142
10.1.5 Visitor Arrivals, Maui County .....	144
10.1.6 Nation of Residence of Visitors to Maui County .....	145
10.2.1 PKF-Hawaii Occupancy and Room Rates, Food and Beverage Sales, Islands of Maui and Molokai .....	146
10.2.2 PKF-Hawaii Trends in the Hotel Industry, Maui County .....	147
10.2.3 PKF-Hawaii Quality and Size Report, Maui County .....	147
10.2.4 Hospitality Advisors LLC Hawaii Hotel Flash Report, Maui Island .....	148
10.2.5 Visitor Plant Inventory by Island and Price, Maui County .....	148
10.2.6 Visitor Plant Inventory by Island and Type, Maui County .....	149
10.2.7 Summary of Visitor Plant Inventory by Area and Type, Maui County .....	150
10.2.8 Visitor Plant Inventory, Maui County .....	151
10.2.9 Largest Hotels by Number of Sleeping Rooms, Maui County .....	152
10.3.1 Expenditures Per Day by Visitors from the Mainland and Japan, State of Hawaii .....	153
10.3.2 Visitor Spending, Maui and Molokai .....	154
10.4.1 Summary Visitor Characteristics, Maui County .....	155
10.5.1 Attendance at Museums and Other Cultural Attractions, Maui County .....	156
10.5.2 National and State Historic Sites, Maui County .....	157
10.5.3 National, State and County Parks, Maui County .....	157
10.6.1 Seating Capacities of Selected Facilities, Maui County .....	158

## **DOMESTIC TRADE**

Introduction .....	160
11.1.1 Manufacturing Kahului and Maui County .....	161
11.1.2 Map of Industrial Parks, Island of Maui .....	162
11.2.1 General Excise Tax Base, Maui County .....	163
11.2.2 Retail Establishments by Type and Location .....	164
11.2.3 Characteristics of Major Shopping Centers, Maui County .....	165
11.2.4 Summary of Retail Trade by Business Group, Maui County .....	167
11.2.5 Merchandise Line Sales of Retail Establishments with Payroll, for the State, Oahu and the Rest of the State .....	168

---

11.2.6	Commercial Lease Rents, Maui Island .....	169
11.3.1	Characteristics of Business Establishments by Sector, Maui County .....	170
11.3.2	Largest Private Corporations, Maui County .....	172
11.3.3	Characteristics of Business Establishments, Maui County .....	172
11.3.4	Number of Business Establishments, State of Hawaii and Maui County .....	173
11.3.5	Service Establishments with Payroll and Subject to Federal Income Tax, for Places with 2,500 Inhabitants or More, Maui County .....	174
11.3.6	Service Establishments by Type and Location .....	176
<b>INDEX</b>	.....	<b>179</b>





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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.

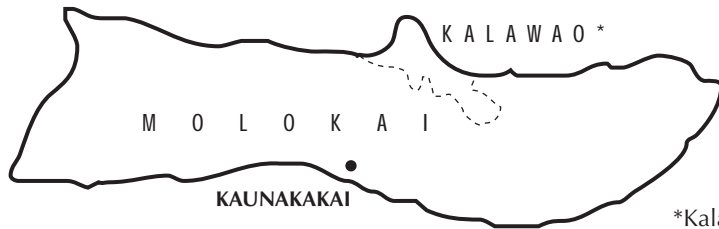
Population statistics are based on the April 1, 2000 census figures modified by provisional estimates supplied by the Federal-State Cooperative Program for Population Estimates.

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.

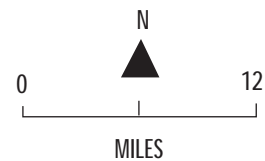
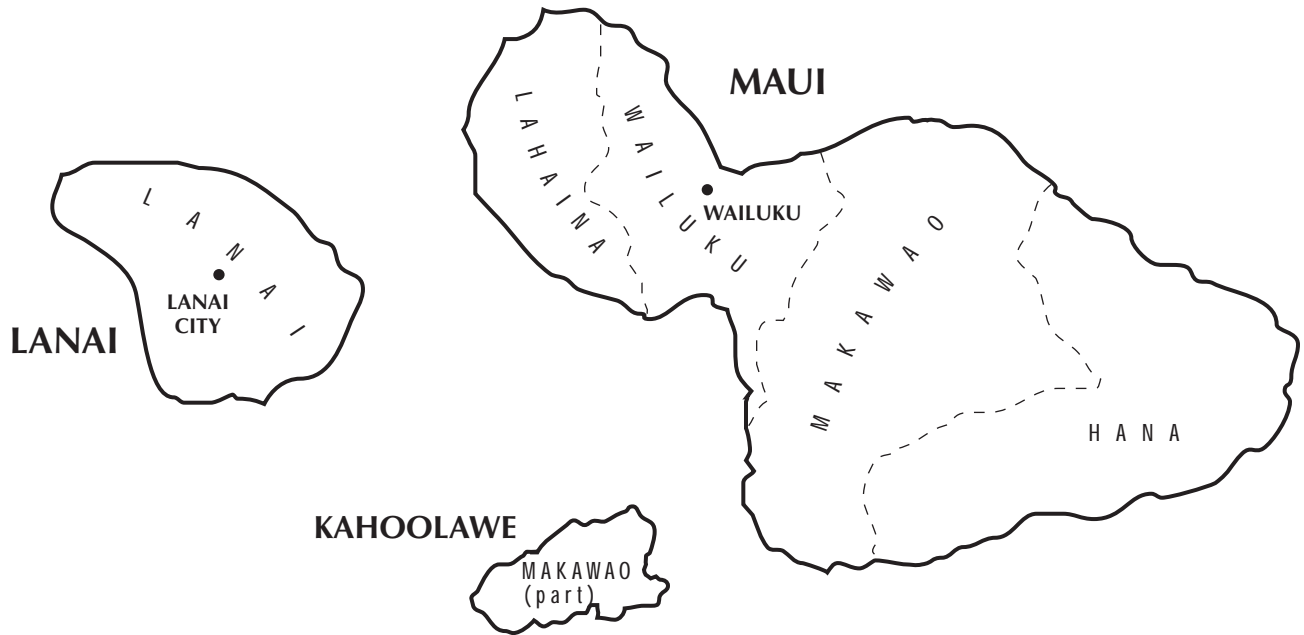
1.1.1

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	1997	1998	1999	2000	2001	2002	% Change Annual 01/02	% Change Annual 97/02
Resident Population <sup>1</sup>	Number	July 1	122,772 r	124,648 r	126,160 r	128,241	131,797	134,139	1.8	1.79
Civilian Labor Force	Number	Mo. Avg.	69,250	69,950	71,400	72,350 r	74,200	71,500 p	-3.6	0.67
Employment	Number	Mo. Avg.	64,050	65,200	67,300	69,300 r	70,650	68,350 p	-3.3	-8.67
Unemployment	Number	Mo. Avg.	5,200	4,750	4,050	3,050 r	3,500	3,150 p	-10.0	-8.67
Unemployment rate	Percent	Mo. Avg.	7.5	6.8	5.7	4.2 r	4.8	4.4 p	-8.3	-9.17**
Total Job Count <sup>2</sup>	Number	Mo. Avg.	55,450	56,700	58,150	60,500 r	62,150 r	61,900 p	-0.4	2.24
Gross Business Receipts	Mil. \$	Total	1,984.0 <sup>3</sup>	2,107.9 <sup>3</sup>	3,429.5	3,821.2	3,941.6	3,785.2	-4.0	15.91
State Tax Collections <sup>4</sup>	Thous. \$	Total	193,662 <sup>3</sup>	212,588 <sup>3</sup>	234,878	260,703	259,381	250,170	-3.6	5.44
County tax Collections <sup>5</sup>	Thous. \$	Total	84,932	86,226	85,723	96,387	100,210	114,087	13.8	6.24
Estimated Domestic Visitors	Thous.	Total	1,788.4	1,776.2	1,866.5 <sup>6</sup>	1,867.0 <sup>7</sup>	1,727.2	1,770.1	2.5	-0.12
Estimated International Visitors	Thous.	Total	542.0	528.0	480.5 <sup>6</sup>	470.0 r	418.5	369.3	-11.8	-7.30
Hotel Inventory	Number	Feb.	18,552	18,650	18,609	18,270	18,234	17,992	-1.3	-0.61
Hotel Occupancy	Percent	Mo. Avg.	71.6	72.8	77.3	81.9	73.0 r	71.0	-2.7*	0.04**
Private Permits	Thous. \$	Total	152,773	163,638	229,162	355,361	312,738	273,716	-12.5	15.55
Residential Permits	Thous. \$	Total	86,855	91,291	123,633	196,309	186,548	186,622	0.0	18.88
Non-Residential Permits	Thous. \$	Total	28,437	37,668	60,488	75,157	86,619	38,384	-55.7	15.37
Additions and Alterations	Thous. \$	Total	37,482	34,680	45,042	83,894	39,571	48,710	23.1	15.78
Real Estate Resales	Number	Total	505	638	965	985 r	986	978	-0.8	15.79
Single Family	Dollars	Avg.	352,772	372,084	344,848	441,143 r	402,272	491,248	22.1	7.88
Average Price	Number	Total	809	996	1,347	1,495 r	1,309	1,551	18.5	15.08
Condominium	Dollars	Avg.	211,609	230,184	305,672	399,172 r	391,385	300,985	-23.1	9.42
Sugar Production, Raw Sugar 96°	Thous. \$	Total	80,400	87,500	89,800	65,300	67,200	NA	NA	NA
Pineapple Sales, Fresh Equivalent	Thous. \$	Total	28,295	28,413	28,325	29,395	27,115	NA	NA	NA
Diversified Crops/Livestock	Thous. \$	Total	48,690 r	48,260	42,740	43,653	42,264	NA	NA	NA
Diversified Crops	Thous. \$	Total	38,877	37,703	36,850	37,258	36,845	NA	NA	NA
Livestock	Thous. \$	Total	9,813 r	10,557	5,890	6,395	5,419	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. 1996-1998 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.

6. Change in methodology.

7. Beginning 2000, includes passengers arriving on cruise ships.

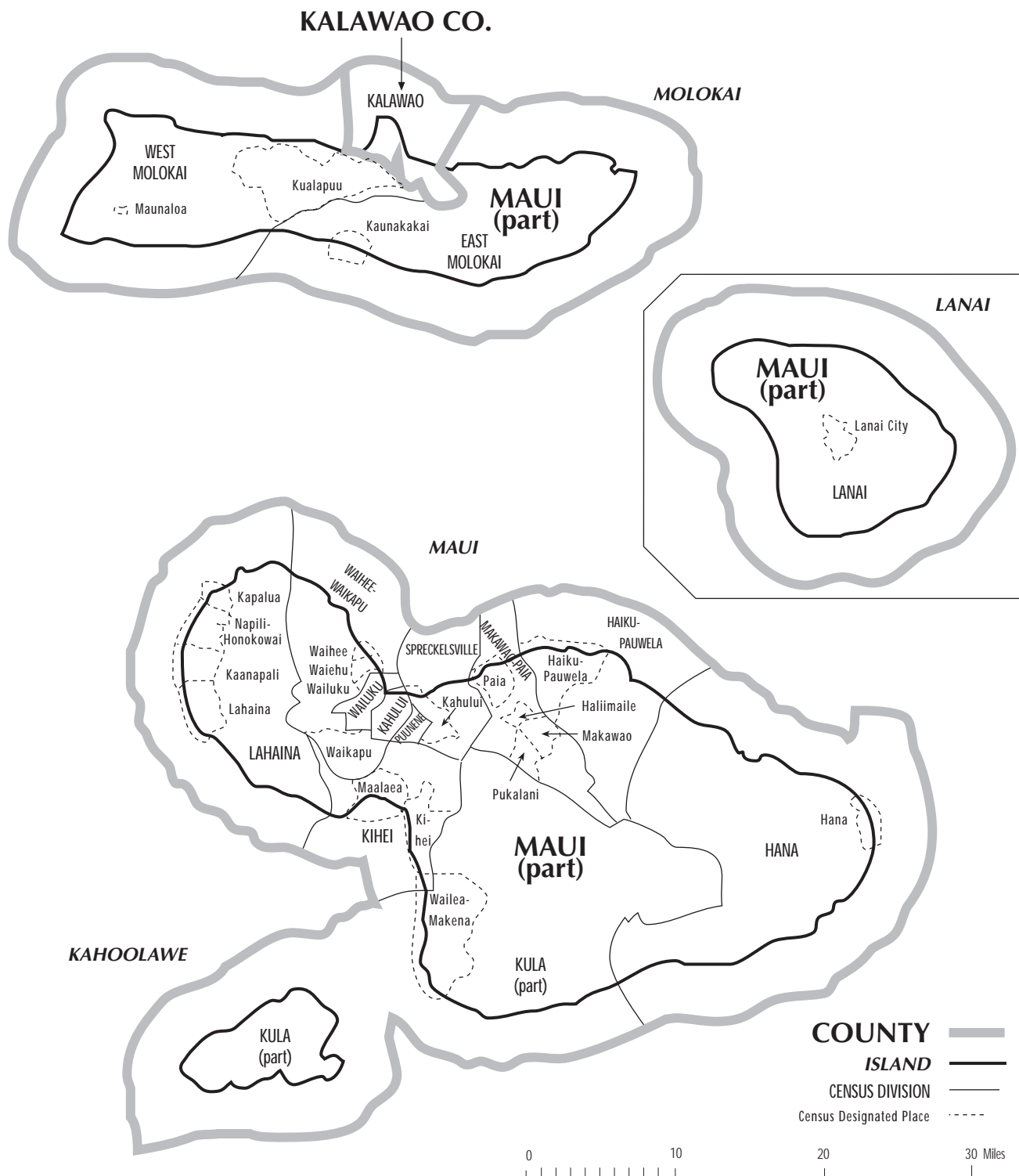
NA: Not available    \*: Incremental change    \*\*: Average of incremental changes    p: Preliminary    r: Revised

SOURCE: Maui County Databook 2003, compilations from multiple sources.



1.3.1

MAUI COUNTY SUBDIVISIONS AND PLACES



SOURCE: U.S. Department of Commerce, Bureau of the Census, 2001

## 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*

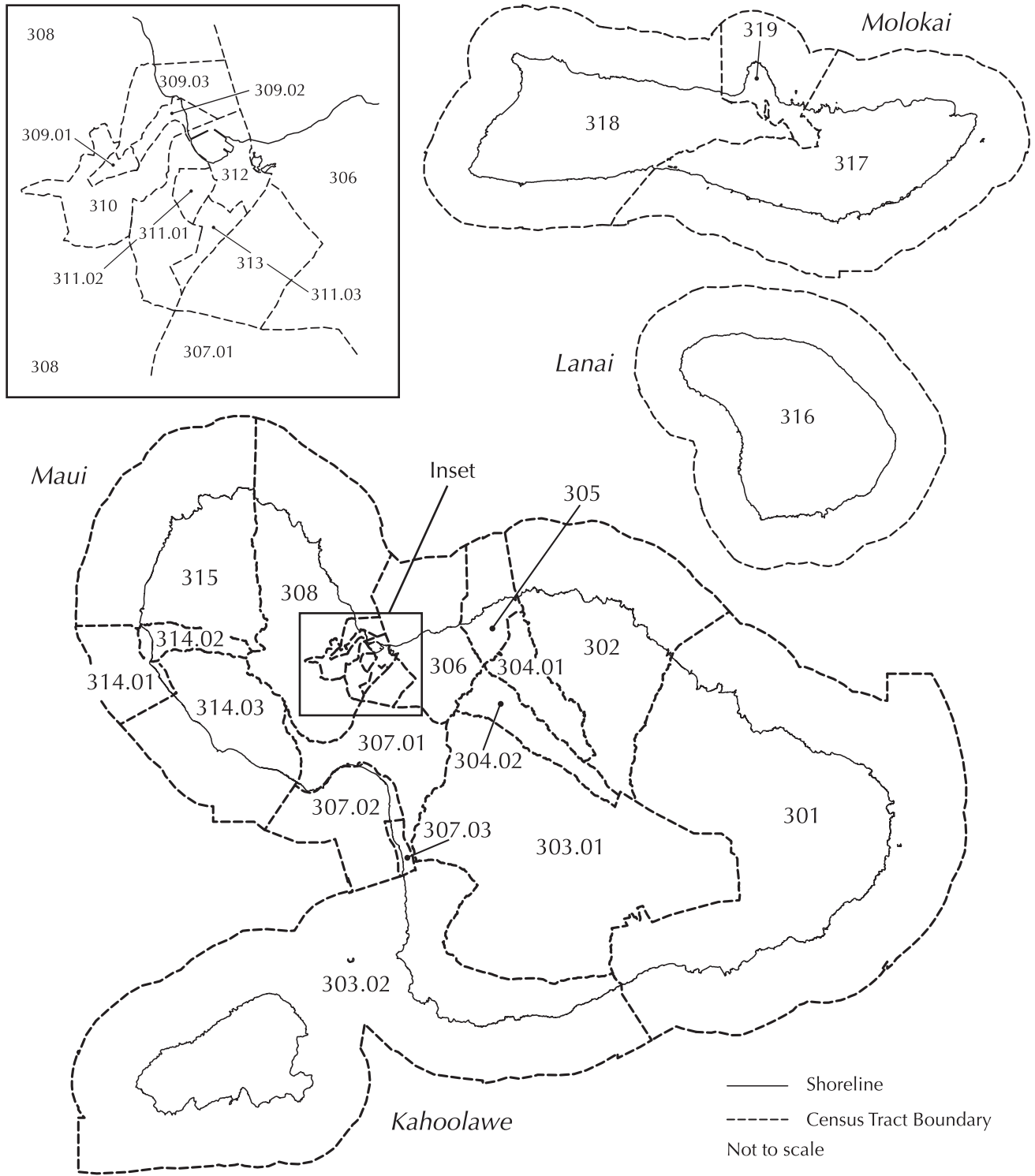
Date	Maui County <sup>1</sup>	Hawaii County	Kauai County	City & County of Honolulu	State Total
July 1, 1980	71,600	92,900	39,400	764,600	968,500
July 1, 1981	74,000	96,100	40,500	767,600	978,200
July 1, 1982	77,100	98,800	41,800	776,100	993,800
July 1, 1983	80,100	100,800	42,800	789,100	1,012,700
July 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 (revised)	108,585	131,630	54,439	863,959	1,158,613
July 1, 1993 (revised)	111,944	135,085	55,461	870,348	1,172,838
July 1, 1994 (revised)	114,754	137,713	56,478	878,591	1,187,536
July 1, 1995 (revised)	117,895	140,492	57,068	881,399	1,196,854
July 1, 1996 (revised)	120,689	141,935	57,688	883,443	1,203,755
July 1, 1997 (revised)	122,772	144,445	57,712	886,711	1,211,640
July 1, 1998 (revised)	124,648	145,833	57,843	886,909	1,215,233
July 1, 1999 (revised)	126,160	146,970	58,264	878,906	1,210,300
April 1, 2000	128,241	148,677	58,463	876,156	1,211,537
July 1, 2001(revised)	132,034	151,709	59,105	884,176	1,227,024
July 1, 2002	134,139	154,794	59,946	896,019	1,244,898

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

SOURCE: U.S. Bureau of the Census, 1980 Census of Population-Characteristics of the Population-Number of Inhabitants Hawaii, PC80-1-A13 (October 1981), table 2 and 1990 Census of Population and Housing-Summary Population and Housing Characteristics Hawaii, 1990 CPH-1-13 (August 1991), table 2; U.S. Census Bureau, Census 2000 Redistricting Data (P.L. 94-171) Summary File (March 19, 2001); and the U.S. Census Bureau, Federal-State Cooperative Program for Population Estimates (<http://eire.census.gov/popest/data/counties/tables/CO-EST2002/CO-EST2002-01-15.php>) accessed April 17, 2003.

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
April 1, 1980	85,803	98,588	46,048	821,068	1,051,508
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
April 1, 1990	134,569	133,202	66,699	896,260	1,230,731
July 1, 1991	139,120	140,657	69,347	897,798	1,246,923
July 1, 1992	145,617	145,319	65,614	906,425	1,262,974
July 1, 1993	147,566	146,373	60,596	901,984	1,256,519
July 1, 1994	150,424	148,172	66,376	911,199	1,276,171
July 1, 1995	152,600	149,789	67,842	911,501	1,281,732
July 1, 1996	154,407	151,264	69,263	909,660	1,284,594
July 1, 1997	158,415	157,637	70,318	919,240	1,305,611
July 1, 1998	159,650	161,212	72,299	916,203	1,309,366
July 1, 1999	161,636	160,046	72,735	913,222	1,307,639
April 1, 2000	168,544	167,073	75,200	927,173	1,337,991
July 1, 2000	168,439	166,384	74,711	925,233	1,334,767
July 1, 2001	168,213	168,524	74,088	925,250	1,336,075
July 1, 2002	172,806	172,468	75,246	942,193	1,362,713

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

SOURCE: Federal-State Cooperative Program for Population Estimates; Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch; calculations by DBEDT.

## 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 division	8,377	59.9	139.8
Hana division	1,855	180.5	10.3
Kahului division	20,134	5.8	3,501.4
Kihei division	19,843	38.8	511.5
Kula division	9,729	263.4	36.9
Lahaina division	17,967	95.9	187.4
Makawao-Paia division	18,370	43.3	424.1
Puunene division	12	4.6	2.6
Spreckelsville division	337	19.8	17.0
Waihee-Waikapu division	3,397	54.6	62.2
Wailuku division	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>	<b>43,622</b>
<b>Hana</b>	<b>1,855</b>	<b>592</b>
301	1,855	592
<b>Makawao</b>	<b>36,476</b>	<b>13,009</b>
302	8,377	2,973
303.01	6,659	2,522
303.02	3,070	1,408
304.01	8,147	2,760
304.02	7,708	2,558
305	2,515	788
<b>Wailuku</b>	<b>61,346</b>	<b>20,409</b>
306	337	130
307.01	3,579	1089
307.02	8,057	2,974
307.03	8,207	3494
308	3,397	1050
309.01	2,437	963
309.02	2,661	971
309.03	6,682	1,637
310	5,843	2,221
311.01	6,908	1,938
311.02	4,730	1,500
311.03	4,720	1,231
312	3,776	1,206
313	12	5
<b>Lahaina</b>	<b>17,967</b>	<b>6,031</b>
314.01	2,492	988
314.02	2,433	646
314.03	4,276	1,000
315	8,766	3,397
<b>Lanai</b>	<b>3,193</b>	<b>1161</b>
316	3,193	1161
<b>Molokai</b>	<b>7,257</b>	<b>2,305</b>
317	4,688	1,527
318	2,569	778
<b>Kalawao (Kalaupapa)</b>	<b>147</b>	<b>115</b>
319	147	115

SOURCE: U.S. Bureau of the Census, *Census 2000 Summary File 1: Hawaii* (July 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)								
		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)
						Alaska Native	Hawaiian and Other Pacific Islander					
<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>16,511</b>		
<b>Maui Island</b>	<b>117,644</b>	<b>59,175</b>	<b>58,469</b>	<b>59,640</b>	<b>1,179</b>	<b>2,488</b>	<b>55,656</b>	<b>27,835</b>	<b>5,585</b>	<b>15,376</b>		
Haiku-Pauwela division	8,377	4,272	4,105	6,347	124	273	2,109	1,917	352	1,106		
Haiku-Pauwela CDP	6,578	3,361	3,217	4,889	94	200	1,811	1,514	259	889		
Hana division	1,855	899	956	814	6	49	556	1,178	35	180		
Hana CDP	709	334	375	248	2	13	255	543	8	78		
Kahului division	20,134	9,929	10,205	5,022	172	399	14,675	5,375	1,336	3,105		
Kahului CDP (part)	20,134	9,929	10,205	5,022	172	399	14,675	5,375	1,336	3,105		
Kihei division	19,843	10,096	9,747	12,550	326	394	6,737	3,221	769	2,087		
Kihei CDP	16,749	8,502	8,247	10,026	273	333	6,176	2,985	678	1,824		
Maalaea CDP	454	240	214	405	2	5	46	18	9	27		
Wailea-Makena CDP (part)	2,630	1,347	1,283	2,119	51	56	505	211	82	236		
Kula division	9,729	4,783	4,946	7,369	78	201	2,513	1,202	283	751		
Wailea-Makena CDP (part)	3,041	1,532	1,509	2,620	30	48	432	159	53	163		
Lahaina division	17,967	9,303	8,664	9,330	184	335	7,387	3,341	992	2,118		
Kaanapali CDP	1,375	725	650	1,183	18	6	153	58	67	164		
Kapalua CDP	467	224	243	327	3	-	103	116	16	34		
Lahaina CDP	9,118	4,738	4,380	3,442	72	177	5,169	1,997	416	984		
Napili-Honokowai CDP	6,788	3,502	3,286	4,294	91	145	1,895	1,075	478	922		
Makawao-Paia division	18,370	9,195	9,175	10,834	145	483	8,214	5,003	967	3,235		
Halimaile CDP	895	459	436	281	2	26	542	309	30	97		
Makawao CDP	6,327	3,156	3,171	4,095	55	225	2,548	1,853	362	1,337		



### 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	Hawaiian and Other Pacific Islander	Some other race	Hispanic or Latino (any race)	
Paia CDP	2,499	1,275	1,224	1,279	17	57	1,242	708	165	481	
Pukalani CDP	7,380	3,655	3,725	4,132	59	138	3,661	1,937	379	1,192	
Puunene division	12	7	5	4	-	-	6	3	-	-	
Kahului CDP (part)	12	7	5	4	-	-	6	3	-	-	
Spreckelsville division	337	174	163	300	3	-	36	10	13	18	
Kahului CDP (part)	-	-	-	-	-	-	-	-	-	-	
Waihee-Waikapu division	3,397	1,724	1,673	1,324	21	38	1,884	966	118	321	
Waihee-Waiehu CDP (part)	1,330	685	645	548	8	17	643	451	51	129	
Waikapu CDP	1,115	560	555	365	12	13	753	298	32	115	
Wailuku CDP (part)	653	317	336	262	-	7	421	68	12	72	
Wailuku division	17,623	8,793	8,830	5,746	120	316	11,539	5,619	720	2,455	
Waihee-Waiehu CDP (part)	5,980	2,979	3,001	1,679	39	107	4,179	1,964	192	863	
Wailuku CDP (part)	11,643	5,814	5,829	4,067	81	209	7,360	3,655	528	1,592	
<b>Molokai (including Kalawao)</b>	<b>7,404</b>	<b>3,618</b>	<b>3,786</b>	<b>2,299</b>	<b>75</b>	<b>189</b>	<b>3,101</b>	<b>4,599</b>	<b>169</b>	<b>702</b>	
West Molokai division	2,569	1,280	1,289	734	30	67	952	1,727	68	211	
Kualapuu CDP	1,936	973	963	478	24	45	781	1,352	59	176	
Maunaloa CDP	230	120	110	72	1	12	90	142	4	17	
Kalawao division	147	73	74	46	-	-	27	74	10	6	
East Molokai division	4,688	2,265	2,423	1,519	45	122	2,122	2,798	91	485	
Kaunakakai CDP	2,726	1,305	1,421	705	24	60	1,481	1,551	53	295	
<b>Lanai</b>	<b>3,193</b>	<b>1,609</b>	<b>1,584</b>	<b>795</b>	<b>18</b>	<b>61</b>	<b>2,418</b>	<b>659</b>	<b>130</b>	<b>439</b>	
Lanai division	3,193	1,609	1,584	795	18	61	2,418	659	130	439	
Lanai City CDP	3,164	1,593	1,571	777	18	61	2,410	651	130	439	

SOURCE: U.S. Bureau of the Census, Census 2000 Summary File 1: Hawaii (July 2001).

1.3.9

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

	Total Population	Under 5	5 to 9 yrs	10 to 17 yrs	18 to 21 yrs	22 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>	<b>117,644</b>	<b>7,822</b>	<b>8,182</b>	<b>13,433</b>	<b>5,194</b>	<b>3,911</b>	<b>16,569</b>	<b>20,458</b>	<b>18,511</b>	<b>6,056</b>	<b>4,323</b>	<b>6,963</b>	<b>4,753</b>	<b>1,469</b>	<b>36.9</b>
Haiku-Pauwela division	8,377	586	613	946	349	271	1,201	1,668	1,568	408	210	311	191	55	36.5
Haiku-Pauwela CDP	6,578	458	506	747	282	206	956	1,303	1,182	322	167	253	145	51	36.1
Hana division	1,855	134	135	284	91	65	207	215	345	105	82	110	63	19	35.6
Hana CDP	709	62	60	102	39	39	89	72	110	39	28	41	25	3	30.7
Kahului division	20,134	1,438	1,456	2,295	1,051	806	2,797	2,770	2,307	990	861	1,621	1,273	469	35.8
Kahului CDP (part)	20,134	1,438	1,456	2,295	1,051	806	2,797	2,770	2,307	990	861	1,621	1,273	469	35.8
Kihei division	19,843	1,313	1,430	2,027	835	707	3,170	3,903	3,182	1,012	694	907	542	121	36.1
Kihei CDP	16,749	1,145	1,253	1,804	741	621	2,716	3,344	2,630	784	534	668	411	98	35.3
Maalaea CDP	454	12	7	11	7	3	41	67	95	58	49	57	41	6	52.9
Wailea-Makena CDP (part)	2,630	156	169	212	87	82	411	489	457	168	111	182	89	17	39.4
Kula division	9,729	424	525	986	249	155	958	1,669	2,227	690	461	716	499	170	44.5
Wailea-Makena CDP (part)	3,041	106	112	191	61	42	346	490	708	287	203	301	165	29	47.6
Lahaina division	17,967	1,229	1,066	1,686	752	683	3,141	3,301	2,642	953	689	989	660	176	36.1
Kaanapali CDP	1,375	69	76	79	35	12	188	233	261	108	96	132	82	4	44.8
Kapalua CDP	467	39	17	26	20	10	59	91	58	27	42	46	26	6	41.7
Lahaina CDP	9,118	555	522	1,000	424	374	1,515	1,526	1,272	499	347	539	410	135	36.0
Napili-Honokowai CDP	6,788	541	441	562	260	279	1,349	1,404	1,028	307	194	259	138	26	34.8
Makawao-Paia division	18,370	1,249	1,372	2,482	877	588	2,345	3,273	3,022	903	596	943	550	170	36.0
Haliimaile CDP	895	43	48	112	59	44	135	123	119	25	34	71	52	30	35.9
Makawao CDP	6,327	469	490	912	297	201	838	1,184	1,026	278	174	259	155	44	34.6

### 1.3.9

CONTINUED

	<b>Total Population</b>	<b>Under 5</b>	<b>5 to 9 yrs</b>	<b>10 to 17 yrs</b>	<b>18 to 21 yrs</b>	<b>22 to 24 yrs</b>	<b>25 to 34 yrs</b>	<b>35 to 44 yrs</b>	<b>45 to 54 yrs</b>	<b>55 to 59 yrs</b>	<b>60 to 64 yrs</b>	<b>65 to 74 yrs</b>	<b>75 to 84 yrs</b>	<b>85 yrs &amp; over</b>	<b>Median age</b>
Paia CDP	2,499	180	182	302	170	100	352	452	349	113	87	106	80	26	33.9
Pukalani CDP	7,380	478	581	1,010	307	200	891	1,303	1,257	378	246	439	227	63	36.9
Puunene division	12	-	-	-	-	-	-	3	3	2	-	2	2	-	55.0
Kahului CDP (part)	12	-	-	-	-	-	-	3	3	2	-	2	2	-	55.0
Spreckelsville division	337	20	31	44	7	3	37	62	68	24	8	13	14	6	40.2
Kahului CDP (part)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Waihee-Waikapu division	3,397	234	239	437	168	88	325	629	628	173	118	179	147	32	38.7
Waihee-Waiehu CDP (part)	1,330	86	95	153	64	45	129	260	206	75	55	86	64	12	38.7
Waikapu CDP	1,115	79	81	141	54	23	137	190	195	51	35	54	61	14	37.3
Wailuku CDP (part)	653	46	52	106	27	9	29	131	171	27	16	21	15	3	41.0
Wailuku division	17,623	1,195	1,315	2,246	815	545	2,388	2,965	2,519	796	604	1,172	812	251	36.1
Waihee-Waiehu CDP (part)	5,980	451	581	1,015	336	191	723	1,067	796	233	165	258	133	31	31.3
Wailuku CDP (part)	11,643	744	734	1,231	479	354	1,665	1,898	1,723	563	439	914	679	220	38.3
<b>Lanai</b>	<b>3,193</b>	<b>220</b>	<b>270</b>	<b>400</b>	<b>141</b>	<b>108</b>	<b>425</b>	<b>474</b>	<b>364</b>	<b>162</b>	<b>163</b>	<b>214</b>	<b>184</b>	<b>68</b>	<b>35.6</b>
Lanai division	3,193	220	270	400	141	108	425	474	364	162	163	214	184	68	35.6
Lanai City CDP	3,164	220	269	398	141	108	425	469	358	159	160	213	176	68	35.4
<b>Molokai (with Kalaupapa)</b>	<b>7,404</b>	<b>537</b>	<b>627</b>	<b>1,223</b>	<b>382</b>	<b>177</b>	<b>738</b>	<b>977</b>	<b>979</b>	<b>400</b>	<b>339</b>	<b>573</b>	<b>347</b>	<b>105</b>	<b>35.2</b>
East Molokai division	4,688	333	358	808	255	121	435	618	653	247	211	362	206	81	35.6
Kaunakakai CDP	2,726	193	214	472	145	81	243	373	344	128	118	231	128	56	35.5
Kalawao division	147	-	-	3	1	1	9	18	31	19	18	35	12	-	58.6
West Molokai division	2,569	204	269	412	126	55	294	341	295	134	110	176	129	24	32.9
Kualapuu CDP	1,936	141	196	312	96	42	226	260	230	104	80	127	105	17	33.6
Maunaloa CDP	230	24	30	46	16	3	24	34	21	7	5	14	4	2	21.8

SOURCE: U.S. Bureau of the Census, *Census 2000 Summary File 1: Hawaii* (July 2001).

1.3.10

POPULATION BY RACE, MAUI COUNTY

Race	Race Alone	Percent	Race In Comb./ <sup>1</sup>	Percent
<b>All Races (Total Population)</b>	<b>128,094</b>	<b>100.00%</b>		
White	43,421	33.90%	62,688	48.94%
Of Portuguese Ancestry/ <sup>2</sup>			7,142	5.58%
Black	509	0.40%	1,272	0.99%
AIAN/ <sup>3</sup>	479	0.37%	2,738	2.14%
Asian	39,728	31.01%	61,148	47.74%
Chinese	1,197	0.93%	11,511	8.99%
Filipino	21,804	17.02%	34,445	26.89%
Japanese	12,926	10.09%	21,305	16.63%
Korean	795	0.62%	2,102	1.64%
Vietnamese	317	0.25%	390	0.30%
NHPI/ <sup>4</sup>	13,730	10.72%	33,019	25.78%
Hawaiian	11,410	8.91%	29,952	23.38%
Samoan	208	0.16%	772	0.60%
Tongan	902	0.70%	1,269	0.99%
Micronesian	745	0.58%	1,112	0.87%
Fijian	ND		ND	
Some other Race	1,743	1.36%	5,874	4.59%
Two or More Races	28,484	22.24%		

ND: Not Disclosed. Population count is 0 or less than 100

<sup>1</sup> Race in Comb.: Race alone or in combination with one or more other races. Some individuals may be counted more than once.

<sup>2</sup> Of Portuguese Ancestry: Number does not reflect whether Race Alone or Race in Combination.

<sup>3</sup> AIAN: American Indian or Alaskan Native

<sup>4</sup> NHPI: Native Hawaiian or other Pacific Islander

SOURCE: U.S. Census Bureau, Census 2000, Summary File 2.

### 1.3.11

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

Change	Births	Deaths	Natural Increase (Births-Deaths)	Net International Migration	Net Internal Migration	Numeric Population Change
4/90-7/99	16,911	6,438	6,214	22	5,135	-351
4/1/2000-7/1/2000	520r	178r	342r	180r	218r	398r
7/1/2000-7/1/2001	2037r	805r	1232r	719r	1,105r	1,824r
7/1/2001-7/1/2002	2,148	753	1,395	718	20	738

r: revised

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. *Net Internal 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).

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, 2001 to July 1, 2002," CO-EST2002.

### 1.3.12

## LIVE BIRTHS, MAUI COUNTY BY ZIP CODES

*Calendar year and place of mother's residence basis*

Zip Code	Location	1997	1998	1999	2000	2001	2002p
<b>Maui Island</b>							
96708	Haiku	97	115	117	107	114	124
96713	Hana	31	11	38	18	40	33
96732	Kahului	283	267	284	305	293	310
96753	Kihei	347	327	331	334	260	301
96761	Lahaina	289	272	266	274	266	290
96768	Makawao/Pukalani	227	213	196	204	221	190
96779	Paia	41	45	34	48	34	38
96784	Puunene	4	1	1	0	0	0
96790	Kula	62	45	70	77	55	69
96793	Wailuku	311	327	331	332	328	333
<b>Lanai</b>							
96763	Lanai City	45	33	45	46	35	38
<b>Molokai</b>							
96729	Hoolehua	10	25	16	22	20	14
96748	Kaunakakai	67	62	62	70	56	82
96757	Kualapuu	7	9	8	8	11	15
96770	Maunaloa	12	12	9	19	12	13
<b>Unknown</b>		0	0	0	0	8	5
<b>Total</b>		<b>1,833</b>	<b>1,764</b>	<b>1,808</b>	<b>1,865</b>	<b>1,753</b>	<b>1,855</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>Personal Income (million 1992 dollars)</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>
Per Capita Income (1992 dollars)	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</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
<b>Number of Visitor Rooms Demanded</b>	<b>18,650</b>	<b>18,650</b>	<b>20,419</b>	<b>22,309</b>	<b>24,593</b>	<b>26,946</b>	<b>29,702</b>
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>					
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	2,841,327	2,826,685	1,259,057	24,913,773	31,840,842
1999	2,969,162	2,897,747	1,305,851	25,263,330	32,436,090
2000 <sup>R</sup>	3,219,840	3,133,173	1,386,583	26,644,428	34,384,024
2001	3,372,380	3,335,468	1,405,858	27,551,409	35,625,115
2002	NA	NA	NA	NA	37,347,617
<b>Per Capita (\$)</b>					
1990	19,759	16,603	18,673	23,758	22,375
1991	19,854	17,039	19,458	24,566	23,046
1992	21,292	17,536	12,533	26,108	24,045
1993	21,733	17,885	20,412	26,526	24,784
1994	22,111	18,118	20,933	26,776	25,044
1995	22,157	18,161	21,467	27,017	25,234
1996	21,912	18,425	21,143	27,069	25,249
1997	22,080	18,495	21,346	27,748	25,765
1998	22,795	19,383	21,767	28,091	26,201
1999	23,535	19,717	22,413	28,744	26,800
2000 <sup>R</sup>	24,966	20,991	23,678	30,420	28,354
2001	25,542	21,986	23,786	31,115	29,034
2002	NA	NA	NA	NA	30,001

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. Regional Economic Information System, Bureau of Economic Analysis, Table CA1-3, May 2003.

## 1.4.2

# EARNINGS BY DETAILED INDUSTRY, MAUI COUNTY

Earnings by Industry	2001	Earnings by Industry	2001
<b>Personal income</b>	3,372,380	<b>Nondurable goods manufacturing</b>	97,830
Nonfarm personal income	3,317,975	Food manufacturing	39,779
Farm income <sup>2</sup>	54,405	Beverage and tobacco product manufacturing	(D)
<b>Population (persons)</b> <sup>3</sup>	132,034	Textile mills	0
<b>Per capita personal income (dollars)</b>	25,542	Textile product mills	(D)
<b>Earnings by place of work</b>	2,440,703	Apparel manufacturing	1,960
less: Personal contributions social insurance <sup>4</sup>	151,183	Leather and allied product manufacturing	276
plus: Adjustment for residence <sup>5</sup>	-15,522	Paper manufacturing	9,366
equals: Net earnings by place of residence	2,273,998	Printing and related support activities	3,661
plus: Dividends, interest, and rent <sup>6</sup>	641,233	Petroleum and coal products manufacturing	(D)
plus: Transfer payments	457,149	Chemical manufacturing	(D)
<b>Wage and salary disbursements</b>	1,899,710	Plastics and rubber products manufacturing	413
<b>Other labor income</b>	184,292	<b>Wholesale trade</b>	47,594
<b>Proprietors' income</b> <sup>7</sup>	356,701	<b>Retail Trade</b>	244,538
Farm proprietors' income	-3,754	Motor vehicle and parts dealers	(D)
Nonfarm proprietors' income	360,455	Furniture and home furnishings stores	9,499
<b>Farm earnings</b>	54,405	Electronics and appliance stores	(D)
<b>Nonfarm earnings</b>	2,386,298	Building material and garden supply stores	(D)
<b>Private earnings</b>	2,040,557	Food and beverage stores	45,451
<b>Forestry, fishing, related activities, and other</b> <sup>8</sup>	(D)	Health and personal care stores	15,322
Forestry and logging	(L)	Gasoline stations	11,216
Fishing, hunting, and trapping	(D)	Clothing and clothing accessories stores	34,453
Agriculture and forestry support activities	(D)	Sporting goods, hobby, book and music stores	9,219
Other <sup>8</sup>	0	General merchandise stores	30,246
<b>Mining</b>	(D)	Miscellaneous store retailers	28,146
Oil and gas extraction	0	Nonstore retailers	(D)
Mining (except oil and gas)	(D)	<b>Transportation and warehousing</b>	87,735
Support activities for mining	0	Air transportation	25,177
<b>Utilities</b>	28,586	Rail transportation	0
<b>Construction</b>	204,609	Water transportation	(D)
Construction of buildings	51,895	Truck transportation	13,109
Heavy and civil engineering construction	34,715	Transit and ground passenger transportation	11,443
Specialty trade contractors	117,999	Pipeline transportation	0
<b>Manufacturing</b>	139,274	Scenic and sightseeing transportation	22,188
Durable goods manufacturing	41,444	Support activities for transportation	6,523
Wood product manufacturing	3,546	Couriers and messengers	(D)
Nonmetallic mineral product manufacturing	14,576	Warehousing and storage	641
Primary metal manufacturing	14,609	<b>Information</b>	49,156
Fabricated metal product manufacturing	3,205	Publishing industries, except Internet	14,910
Machinery manufacturing	(D)	Motion picture and sound recording industry	1,747
Computer & electronic product manufacturing	(D)	Broadcasting, except Internet	2,918
Electrical equipment & appliance manufacturing	0	Internet publishing and broadcasts	(D)
Motor vehicle manufacturing	0	Telecommunications	26,006
Transportation equipment manufacturing	(D)	ISPs, search portals, and data processing	3,324
excl. motor vehicles	(D)	Other information services	(D)
Furniture and related product manufacturing	(D)		



## 1.4.2

C O N T I N U E D

Earnings by Industry	2001	Earnings by Industry	2001
<b>Finance and insurance</b>	40,353	<b>Arts, entertainment, and recreation</b>	73,030
Monetary authorities - central bank	0	Performing arts and spectator sports	13,965
Credit intermediation and related activities	26,164	Museums, historical sites, zoos, and parks	3,850
Securities, commodity contracts, investments	(D)	Amusement, gambling, and recreation	55,215
Insurance carriers and related activities	(D)	<b>Accommodation and food services</b>	529,05
Funds, trusts, and other financial vehicles	0	Accommodation	387,286
<b>Real estate and rental and leasing</b>	92,532	Food services and drinking places	141,766
Real estate	67,735	<b>Other services, except public administration</b>	91,789
Rental and leasing services	(D)	Repair and maintenance	23,494
Lessors of nonfinancial intangible assets	(D)	Personal and laundry services	15,849
<b>Professional and technical services</b>	97,740	Membership associations and organizations	44,237
<b>Management of companies and enterprises</b>	21,570	Private households	8,209
<b>Administrative and waste services</b>	97,539	<b>Government and government enterprises</b>	345,741
Administrative and support services	79,740	Federal, civilian	32,845
Waste management and remediation services	17,799	Military	19,766
<b>Educational services</b>	17,566	State and local	293,130
<b>Health care and social assistance</b>	169,295	State government	205,729
Ambulatory health care services	121,361	Local government	87,401
Hospitals	(D)		
Nursing and residential care facilities	(D)		
Social assistance	(D)		

1. The estimates of earnings for 2001 are based on the 2002 North American Industry Classification System (NAICS).
2. Farm income consists of proprietors' income; the cash wages, pay-in-kind, and other labor income of hired farm workers; and the salaries of officers of corporate farms.
3. Census Bureau midyear population estimates. Estimates for 2001 reflect county population estimates available as of April 2003. The Census Bureau has revised county population figures for Franklin, FL and Gulf, FL; Adams, WI and Marquette, WI; and for Grayson, VA, Russell, VA, and Wise + Norton, VA for 2000-2001 as part of its Count Question Resolution program for challenges to group quarter or housing units figures from the 2000 Census. Census has not yet adjusted population figures for these areas prior to 2000 in order to be consistent with the newly revised 2000-2001 population.
4. Personal contributions for social insurance are included in earnings by type and industry but they are excluded from personal income.
5. The adjustment for residence is the net inflow of the earnings of interarea commuters. For the United States, it consists of adjustments for border workers: Wage and salary disbursements to U.S. residents commuting to Canada less wage and salary disbursements to Canadian and Mexican residents commuting into the United States.
6. Rental income of persons includes the capital consumption adjustment.
7. Proprietors income includes the inventory valuation adjustment and capital consumption adjustment.
8. "Other" consists of wage and salary disbursements to U.S. residents employed by international organizations and foreign embassies and consulates in the United States.

All state and local area dollar estimates are in current dollars (not adjusted for inflation).

(D) Not shown to avoid disclosure of confidential information, but the estimates for this item are included in the totals.

(L) Less than \$50,000, but the estimates for this item are included in the totals.

(N) Data not available for this year.

SOURCE: U.S. Bureau of Economic Analysis, *Regional Economic Information System*, May 2003.

### 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.

Note: Surveys used to determine Cost-of-Living for Hawaii are conducted every three years. Next Survey to be conducted in 2004.

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
2001	178.1	178.7	178.4	178.6	179.5	179.1
2002	178.1	178.7	178.4	178.6	179.5	179.1

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	1998	1999	2000	2001	2002
<b>ALL ITEMS</b>	<b>171.5</b>	<b>173.3</b>	<b>176.3</b>	<b>178.4</b>	<b>180.3</b>
<b>Food and beverages</b>	<b>159.1</b>	<b>162.9</b>	<b>164.8</b>	<b>169.5</b>	<b>171.0</b>
Food	159.1	163.0	164.8	169.5	171.6
Food at home	162.6	166.2	166.9	172.9	175.2
Food away from home	153.3	158.3	160.0	164.0	166.0
Alcoholic beverages	158.8	161.9	163.9	168.1	175.7
<b>Housing</b>	<b>176.0</b>	<b>175.8</b>	<b>177.9</b>	<b>179.1</b>	<b>181.2</b>
Shelter	192.3	191.7	191.9	193.1	196.3
Rent of primary residence	183.5	181.7	180.3	181.6	185.3
Owners' equivalent rent <sup>1</sup>	198.3	197.0	196.3	197.7	201.8
Fuels and utilities	131.0	133.4	147.4	146.6	142.6
Fuels	112.2	114.3	130.8	129.8	125.0
Gas (piped) and electricity	111.8	113.7	129.8	128.8	124.3
Electricity	111.4	113.4	129.1	128.1	123.3
Utility (piped) gas	107.5	109.2	126.8	127.2	126.4
Household furnishings and operation	145.8	146.4	152.4	155.8	157.2
<b>Apparel</b>	<b>112.2</b>	<b>105.4</b>	<b>103.5</b>	<b>101.0</b>	<b>102.6</b>
<b>Transportation</b>	<b>162.5</b>	<b>162.2</b>	<b>169.6</b>	<b>174.5</b>	<b>170.9</b>
Private transportation	161.7	160.4	166.9	170.6	164.2
Motor fuel	129.3	119.9	141.8	149.7	130.3
Gasoline, all types	132.4	122.6	144.8	153.0	133.4
Gasoline, unleaded regular	138.8	128.8	151.7	160.1	138.7
Gasoline, unleaded midgrade <sup>2</sup>	103.6	95.5	114.5	121.4	105.8
Gasoline, unleaded premium	121.9	112.4	132.7	140.3	123.4
<b>Medical care</b>	<b>226.1</b>	<b>231.3</b>	<b>239.8</b>	<b>No Data</b>	<b>No Data</b>
<b>Recreation<sup>3</sup></b>	<b>100.8</b>	<b>101.9</b>	<b>102.8</b>	<b>101.6</b>	<b>99.5</b>
<b>Education and communication<sup>3</sup></b>	<b>99.1</b>	<b>104.5</b>	<b>106.9</b>	<b>104.6</b>	<b>107.8</b>
<b>Other goods and services</b>	<b>256.1</b>	<b>275.6</b>	<b>279.7</b>	<b>289.3</b>	<b>302.2</b>

## 1.4.6

### CONTINUED

Group	1998	1999	2000	2001	2002
<b>Special aggregate indexes</b>					
All items less shelter	163.4	183.0	170.5	186.5	174.4
All items less medical care	168.6	166.2	173.0	173.1	176.3
All items less energy	176.6	170.2	180.7	174.9	185.6
All items less food and energy	181.3	178.7	185.1	182.8	189.5
Commodities	147.5	148.2	150.3	152.8	152.0
Commodities less food	139.1	137.7	140.1	141.0	138.5
Commodities less food and beverages	138.2	136.6	138.9	139.7	136.7
Durables	131.0	129.7	128.5	127.1	124.6
Nondurables	151.9	153.3	156.5	160.3	159.9
Nondurables less food	143.9	142.4	147.3	149.9	147.3
Nondurables less food and beverages	142.9	141.0	146.1	148.6	145.2
Energy	121.0	117.9	137.0	140.0	128.0
Services	192.6	195.3	199.1	200.9	205.0
Services less rent of shelter <sup>1</sup>	195.3	202.0	210.4	213.1	218.5
Services less medical care	189.7	192.2	195.5	197.1	200.3

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 AND SPECIALTY CARE BEDS, MAUI COUNTY

*Data are for facilities recognized by the Hawaii State Health Planning and  
Development Agency*

### Type of Beds by Facility For the Period of January 1, 2000 to December 31, 2000

Type/Facility	Licensed Beds	Inpatient Days	Admissions	Avg. Length of Stay	Avg. Daily Census	Percent Occupied
<b>Medical/Surgical</b>						
Kula Hospital	2	65	19	3.4	8.90	8.9
Maui Memorial Hospital	140	44,080	7,578	5.8	86.26	86.3
Moloka'i General Hospital	5	329	99	3.3	18.03	18.0
<b>Critical Care</b>						
Maui Memorial Hospital	15	3,830	636	6.0	69.95	70.0
<b>Obstetric</b>						
Maui Memorial Hospital	23	3,486	1,465	2.4	41.52	41.5
Moloka'i General Hospital	3	52	72	0.7	4.75	4.7
<b>Psychiatric (Psych)</b>						
Maui Memorial Hospital	18	3,647	591	6.2	55.51	55.5
<b>Intermediate Care (ICF)</b>						
Hale Makua	124	43,254	81	534.0	95.57	96.5
<b>SNF/ICF</b>						
Hale Makua	238	85,871	315	272.6	98.85	98.9
Kula Hospital	104	36,247	73	496.5	95.49	95.5
Moloka'i General Hospital	16	4,890	2	2,445.0	83.73	83.7
Lana'i Community hospital	10	3,479	3	1,159.7	95.32	95.3
<b>Acute/SNF</b>						
Moloka'i General Hospital	6	342	12	28.5	15.62	15.6
Lana'i Community Hospital	4	123	42	2.9	8.42	8.4
<b>Mentally Retarded (MR)</b>						
Kula Hospital	9	2,920	1	2,920.0	88.89	88.9
<b>Hansen's Disease</b>						
Kalaupapa Care Home	14	2,386	18	132.6	46.69	46.7
<b>Specialty Care</b>						
Aloha House, Inc.	32	4,632	176	26.3	39.66	39.7
Ho'omaka Hou	26	4,928	47	104.9	51.93	51.9
The Maui Farm Inc.	15	2,852	9	316.9	52.09	52.1
<b>Maui County Total</b>	<b>804</b>	<b>245,166</b>	<b>11,203</b>	<b>21.9</b>	<b>83.54</b>	<b>83.5</b>

SOURCE: Hawaii State Department of Health, State Health Planning and Development Agency, *Inpatient Facilities Utilization Report, 2001*.

1.5.2

**ADULT RESIDENTIAL CARE HOMES,  
MAUI COUNTY**

*Data are for facilities recognized by the Hawaii State Department  
of Health, Office of Health Care Assurance*

<b>Type I (up to 5 beds)</b>		<b>Facilities</b>	<b>Persons<sup>1</sup> Beds</b>	<b>Beds/1,000 age 65+persons age 65+</b>
Kahului	8	37	3,452	10.72
Kihei	1	5	1,261	97
Makawao	1	4	472	8.47
Wailuku	3	15	1,874	8.00
Maui Island Total	13	61	14,566	4.19
Molokai (Kaunakakai)	4	19	586 <sup>2</sup>	32.42
Lanai	0	0	453	0.00
<b>Maui County Total</b>	<b>17</b>	<b>80</b>	<b>14,566</b>	<b>5.49</b>
Hawaii County	39	167	19,432	8.59
Kauai County	15	59	7,980	7.39
City & County of Honolulu	316	1,463	115,946	12.62
State Total	387	1,769	157,997	11.20
<b>Type II (more than 5 beds)</b>				
Maui Island	0	0	0	0.00
Molokai (Kalaupapa)	1	14	73	191.78
Lanai	0	0	453	0.00
<b>Maui County Total</b>	<b>2</b>	<b>19</b>	<b>14,566</b>	<b>1.3</b>
Hawaii County	16	76	19,432	3.91
Kauai County	4	44	7,980	5.51
City & County of Honolulu	136	972	115,946	8.38
State Total	158	1,111	157,997	7.03

<sup>1</sup> Bureau of Census, Census 2000.

<sup>2</sup> Combination of CDPs, Kaunakakai, Kualapuu, and Maunaloa

SOURCE: Hawaii State Department of Health, Office of Health Care Assurance, *Vacancy Report - Adult Residential Care Homes and Expanded Adult Residential Care Homes*, April 4, 2003.

1.5.3

**HEALTH PRACTITIONERS LICENSED IN HAWAII  
BY PLACE OF ADDRESS**

	Acupuncturist	Chiropractor	Dental Hygienist	Dentist	Massage Therapist
Maui	60	71	57	72	829
Molokai	1	2	3	3	11
Lanai	1	0	3	0	10
Oahu	234	181	392	797	1,898
Hawaii	65	38	53	92	662
Kauai	17	16	17	40	327
<b>Subtotal Hawaii</b>	<b>378</b>	<b>308</b>	<b>525</b>	<b>1,004</b>	<b>3,737</b>
Mainland	121	240	188	305	601
Foreign/Other	8	11	5	20	34
<b>Total</b>	<b>507</b>	<b>559</b>	<b>718</b>	<b>1,329</b>	<b>4,372</b>

	Certified Physician's Assistant	Emergency Medical Tech. Basic	Emergency Medical Tech. Paramedic	Physician or Surgeon <sup>1</sup>	Osteopathic Physician and Surgeon
Maui	10	35	32	261	14
Molokai	0	1	5	7	0
Lanai	1	0	0	2	1
Oahu	51	145	201	2,627	96
Hawaii	7	143	75	310	12
Kauai	5	30	14	127	6
<b>Subtotal Hawaii</b>	<b>74</b>	<b>354</b>	<b>327</b>	<b>3,334</b>	<b>129</b>
Mainland	3	1	7	2,912	261
Foreign/Other	1	1	0	53	2
<b>Total</b>	<b>78</b>	<b>356</b>	<b>334</b>	<b>6,299</b>	<b>392</b>

	Licensed Practical Nurse	Registered Nurse	Advanced Practice Registered Nurse	Occupational Therapist	Physical Therapist
Maui	316	943	25	22	67
Molokai	10	33	2	1	1
Lanai	1	12	0	0	0
Oahu	1,703	7,910	349	199	409
Hawaii	380	1,113	44	33	77
Kauai	215	463	25	9	25
<b>Subtotal Hawaii</b>	<b>2,625</b>	<b>10,474</b>	<b>445</b>	<b>264</b>	<b>579</b>
Mainland	266	4,396	105	45	236
Foreign/Other	16	215	1	1	13
<b>Total</b>	<b>2,907</b>	<b>15,085</b>	<b>551</b>	<b>310</b>	<b>828</b>

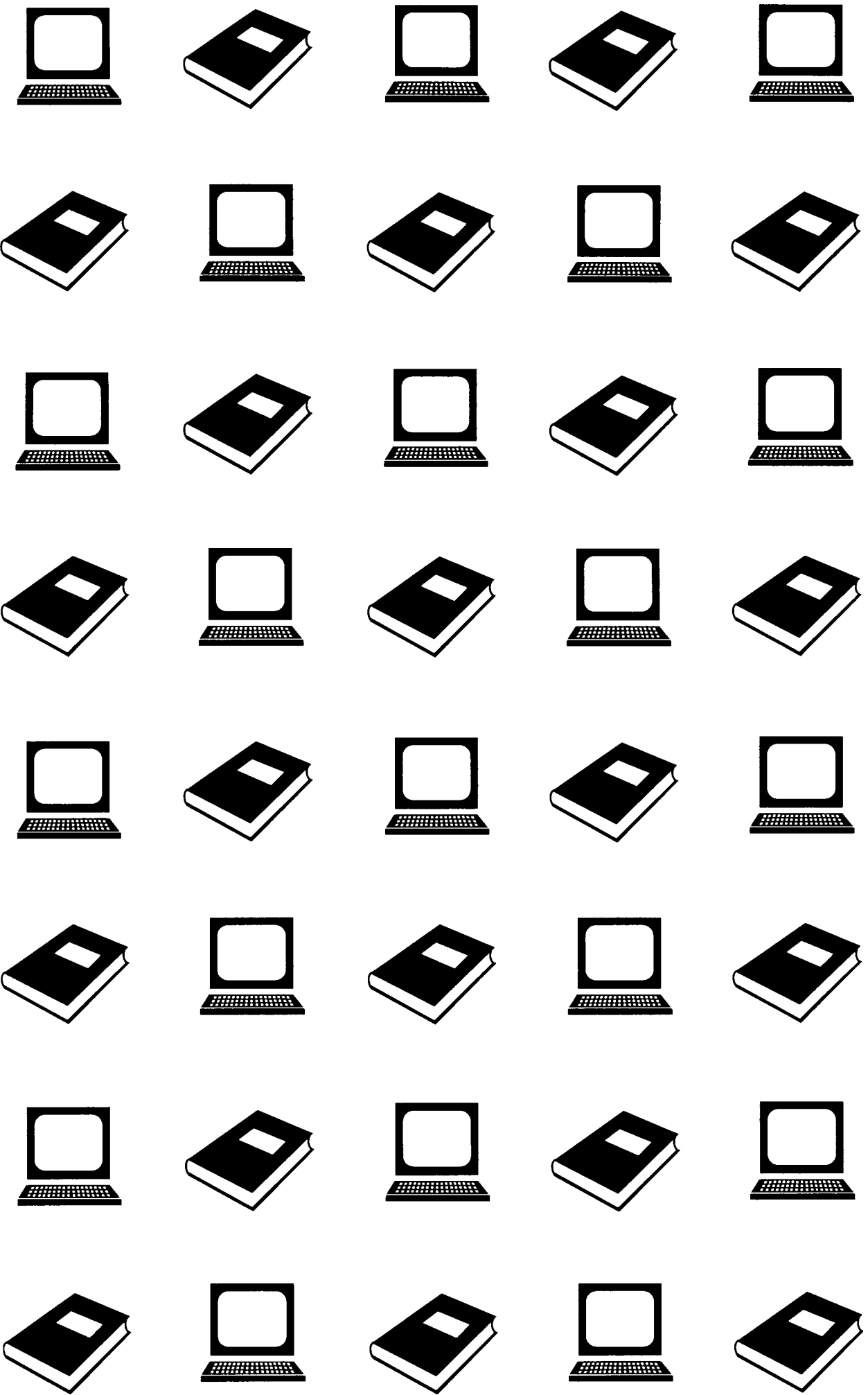
	Naturopath	Optometrist	Pharmacist	Podiatrist	Psychologist
Maui	14	17	77	5	28
Molokai	0	0	2	0	1
Lanai	0	0	1	0	0
Oahu	20	188	699	25	361
Hawaii	15	19	87	3	49
Kauai	8	7	43	2	23
<b>Subtotal Hawaii</b>	<b>57</b>	<b>231</b>	<b>909</b>	<b>35</b>	<b>462</b>
Mainland	25	121	639	41	107
Foreign/Other	0	7	8	3	1
<b>Total</b>	<b>82</b>	<b>359</b>	<b>1,556</b>	<b>79</b>	<b>570</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, 3/27/2003.



# 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 Elementary	K-3

#### Kihei

Kamalii Elementary	K-5
Kihei Elementary	K-5
Kihei Public Charter High	9-12
Lokelani Intermediate	6-8

#### Lahaina

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

#### Kahului/Wailuku

H. Perrine Baldwin High	9-12
Christ the King	K-6
Emmanuel Lutheran	K-6
Iao Intermediate	6-8
Kaahumanu Hou Christian (Maui)	K-12
Kahului Elementary	K-5
Lihikai Elementary	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 Elementary	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 Elementary	K-5
Maui Christian Academy	7-8
Montessori Hale O'Keiki	PreK-4
Montessori of Maui	PreK-6
Paia Elementary	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

Kamehameha Preschool Kalamaula	Preschool only
Kaunakakai Elementary	K-6
Kilohana Elementary	K-6
Kualapuu Elementary	K-6
Maunaloa Elementary	K-6
Molokai Christian Academy	PreK-12
Molokai High and Intermediate	7-12
Molokai Mission	K-8

Sources: Hawaii State Department of Education, records; Hawaii Association of Independent Schools, *Licensed Private Schools 2002-2003*.

## 2.2

**PER PUPIL EXPENDITURES BY SCHOOLS/  
FUNCTIONS, MAUI COUNTY  
2001-2002**

School	Instructional			Operations	Other Commitments
	Instruction	Support	Leadership		
<b>State Average</b>	<b>\$3,252</b>	<b>\$1,419</b>	<b>\$462</b>	<b>\$776</b>	<b>\$886</b>
Baldwin High	2,809	1,700	377	840	1,082
Haiku Elementary	3,582	1,329	558	1,020	1,066
Hana High & Elementary	3,827	3,460	803	1,378	1,144
Iao	2,877	1,292	494	877	1,083
Kahului	3,613	1,521	360	1,081	1,051
Kalama Intermediate	2,915	1,342	408	863	1,043
Kamalii Elementary	2,837	1,122	361	829	1,050
Kamehameha III	3,145	1,299	490	896	1,053
Kaunakakai	4,397	2,478	539	1,474	1,100
Keanae	17,482	1,842	581	5,443	1,066
Kekaulike High	2,486	1,662	385	820	1,066
Kihei Elementary	3,110	1,508	420	986	1,062
Kihei Charter High School	2,910	1,393	107	352	1,027
Kilohana	5,647	3,556	1,086	1,675	1,158
Kualapuu	3,468	2,022	601	1,210	1,070
Kula	3,237	1,482	424	1,011	1,075
Lahaina Intermediate	2,912	1,534	572	1,278	1,066
Lahainaluna High	2,568	1,855	522	868	1,055
Lanai High & Elementary	2,982	2,340	628	1,079	1,096
Lihikai	3,262	1,858	343	873	1,089
Lokelani Intermediate	2,658	1,280	490	834	1,085
Makawao	3,786	1,527	496	1,026	1,088
Maui High	2,760	1,744	418	915	1,066
Maui Waena Intermediate	2,756	1,414	405	842	1,068
Maunaloa	6,363	5,910	2,210	2,833	1,326
Molokai High & Intermediate	3,291	2,435	547	1,145	1,112
Nahienaena	3,101	1,176	407	522	1,055
Paia	3,435	2,338	750	1,306	1,192
Pukalani	3,775	1,253	559	1,009	1,070
Waihee	3,386	1,226	370	834	1,046
Wailuku	3,676	1,429	344	913	1,085

SOURCE: Hawaii State Department of Education, records.

## 2.3

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

School	1999	2000	2001	2002	Grades
H. Perrine Baldwin High	1,693	1,707	1,693	1,726	9-12
Haiku	436	444	429	418	K-5
Hana High & Elementary	411	402	387	389	K-12
Iao	858	887	842	825	6-8
Kahului	872	864	834	842	K-5
S. Enoka Kalama Intermediate	1,120	1,137	1,179	1,132	6-8
Kamalii	872	748	841	809	K-5
King Kamehameha III	630	620	651	642	K-5
Kaunakakai	290	271	264	243	K-6
Keanae	7	3	3	6	K-3
Kihei Elementary	759	779	774	817	K-5
Kihei Charter High School <sup>1</sup>				155	9-12
King Kekaulike High <sup>2</sup>	1,396	1,422	1,459	1,413	9-12
Kilohana	131	118	118	105	K-6
Kualapuu	398	401	387	351	K-6
Kula Elementary	466	451	440	430	K-5
Lahaina Intermediate	641	626	632	642	6-8
Lahainaluna High	889	924	986	1,038	9-12
Lanai High & Elementary	687	688	659	672	K-12
Lihikai	1,053	1,119	1,144	1,134	K-5
Lokelani Intermediate	678	673	718	773	6-8
Makawao	620	551	514	489	K-5
Maui High	1,709	1,734	1,673	1,654	9-12
Maui Waena Intermediate	935	960	1,008	1,007	6-8
Maunaloa	70	73	54	66	K-6
Molokai High & Intermediate	812	782	757	748	7-12
Princess Nahienaena	651	645	636	649	K-5
Paia	224	214	214	207	K-5
Pukalani Elementary	493	509	471	474	K-5
Waihee	867	859	877	828	K-5
Wailuku Elementary	902	934	952	959	K-5
<b>Total Enrollment</b>	<b>21,570</b>	<b>21,645</b>	<b>21,596</b>	<b>21,643</b>	

<sup>1</sup> Kihei New Century PC High School is a Charter School, established in 2001

<sup>2</sup> King Kekaulike first opened in 1995. 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**

<b>School</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>Grades</b>
Christ the King	163	165	188	188	PreK-8
Clearview Christian Girls School	24	24	22	23	6-8
Doris Todd Memorial Christian	141	136	132	134	PreK-8
Emmanuel Lutheran	95	105	130	130	K-7
Haleakala Waldorf School	175	197	220	204	PreK-8
Horizons Academy of Maui, Inc.	50	43	38	29	K-8
Kaahumanu Hou Christian (Maui)	135	160	200	118	PreK-12
Kamehameha Schools (Maui)	176	272	417	736	K-3
Kamehameha Schools (Molokai)				20	Pre
Maui Adventist	31	NR	NR	30	1-8
Molokai Christian Academy	70	75	85	75	PreK-12
Molokai Mission	NR	4	9	7	K-8
Montessori Hale o' Keiki	76	76	60	55	PreK-4
Montessori of Maui	181	189	189	185	PreK-6
Sacred Hearts Elementary	249	247	235	240	K-8
St. Anthony Grade School	196	196	189	236	PreK-6
St. Anthony Junior & Senior High	385	370	330	330	7-12
St. Joseph	116	119	102	108	PreK-6
Seabury Hall	410	394	394	394	6-12
<b>Total Enrollment</b>	<b>2,673</b>	<b>2,772</b>	<b>2,940</b>	<b>3,242</b>	

NR: Failed to respond

Source: Private School Enrollment Report 2002-03. Catholic Schools updated by telephone survey, June 2003.

## 2.5

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

	2000	2001	2002
Library locations, June 30 <sup>1</sup>	8	8	8
Personnel, June 30 <sup>2</sup>	44	44	44
Circulation, year ended June 30	688,105	695,454	786,880
Collections, June 30			
Books, Video Tapes & Sound Recordings <sup>3</sup>	365,577	361,858	369,522
Periodical subscriptions	808	808	844

<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.

<sup>3</sup> Books includes braille. Video tapes include digital video disks (DVDs). Sound recordings include talking books, magnetic tape, recorded cassettes, compact disks and L.P. records.

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
2001	50,416	22,020
2002	51,130	49,432

<sup>1</sup> Includes holdings on Molokai and Lanai, and in Hana.

<sup>2</sup> Circulation also includes in-house and interlibrary loan counts.

<sup>3</sup> Maui circulation for 2002 includes in-house and Interlibrary loan counts.

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 2002)		2000	2001	2000	2001	2000	2001				
	2002	2001	2002	2001	2002	2001	2002	2001				
<b>TOTAL</b>	20	24	28	219	235	296	148	152	198	71	83	98
General and Pre-Professional Education	AA	-	-	51	47	68	51	47	68	-	-	-
Career and Technical Education	AS/AAS	CA	CC	168	188	228	97	105	130	71	83	98
Business Education	AAS	CA	CC	39	36	58	26	25	35	13	11	23
Accounting	AAS	CA	-	16	7	15	15	4	10	1	3	8
Business Careers	AAS	CA	CC	1	5	7	-	3	6	1	2	1
Hotel Operations	AAS	CA	CC	8	8	14	5	7	7	3	1	7
Office Administration & Technology	AAS	CA	CC (2)	14	16	22	6	11	12	8	5	10
Food Service Programs (Food Service)	AAS	CA	CC (7)	43	57	45	21	34	26	22	23	19
Health Service Programs (Nursing) <sup>1</sup>	AS	CA	-	50	65	70	23	27	33	27	38	37
Public Service Programs	AS/AAS	CA	CC	20	16	16	14	10	10	6	6	6
Administration of Justice	AAS	CA	-	3	6	7	3	3	4	0	3	3
Human Services	AS	CA	CC	17	10	9	11	7	6	6	3	3
Trades and Technology Programs	AS/AAS	CA	CC	16	14	34	13	9	21	3	5	13
Horticulture and Landscape Maintenance	AAS	CA	CC	3	1	5	2	0	4	1	1	1
Auto Body Repair & Painting	AAS	CA	CC (2)	0	0	4	0	0	1	0	0	3
Automotive Technology	AAS	CA	CC	4	1	7	4	1	3	0	0	4
Building Maintenance	-	CA	CC (5)	2	1	1	-	-	-	2	1	1
Carpentry Technology	AAS	CA	-	0	0	-	0	0	-	0	0	-
Drafting Technology	-	CA	-	0	0	1	-	-	-	0	0	1
Electronics Engineering	AS	CA	-	5	10	16	5	8	13	0	2	3
Computer Engineering	AS	-	-	0	0	-	-	-	-	0	0	-
Fashion Technology	AAS	CA	CC (3)	2	1	-	2	0	-	0	1	-
Sustainable Technology <sup>2</sup>	AAS	CA	-	-	-	-	-	-	-	-	-	-
Welding Technology	-	CA	CC (3)	0	0	-	-	-	-	0	0	-
Voc. Other (ATS)	-	-	-	-	-	5	-	-	5	-	-	-

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. <sup>2</sup> Program established in April 2001.

Source: University of Hawaii, Institutional Research Office, "Degrees and Certificates Earned, University of Hawaii Community Colleges," Fiscal Years 1999-2000, 2000-01 and 2000-2002 (degree counts) (<http://www.hawaii.edu/cgi-bin/iro/maps?dgccy00.pdf>).



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## 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 2002	
	Courses	Registrations
Maui	126	962
Lanai	21	78
Molokai	73	632
<b>Subtotal Maui County</b>	<b>220</b>	<b>1,672</b>
North Hawaii	5	58
West Hawaii	107	1,098
UH-Hilo	21	130
Kauai	70	354
Oahu	204	2,681
Military	70	1,261
Out of state, mainland	3	15
Out of state, international	18	312
Unspecified locations <sup>1</sup>	75	718
<b>Total</b>	<b>706</b>	<b>7,913</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.

<sup>1</sup> Most of these courses are given internet-only and are not targeted to a specific location.

SOURCE: University of Hawaii, Office of the Vice President for Policy and Planning, "Fall 2002 Distance Learning Report," available at <http://www.hawaii.edu/ovppp/distlearn/policy.htm>.

## 2.9

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

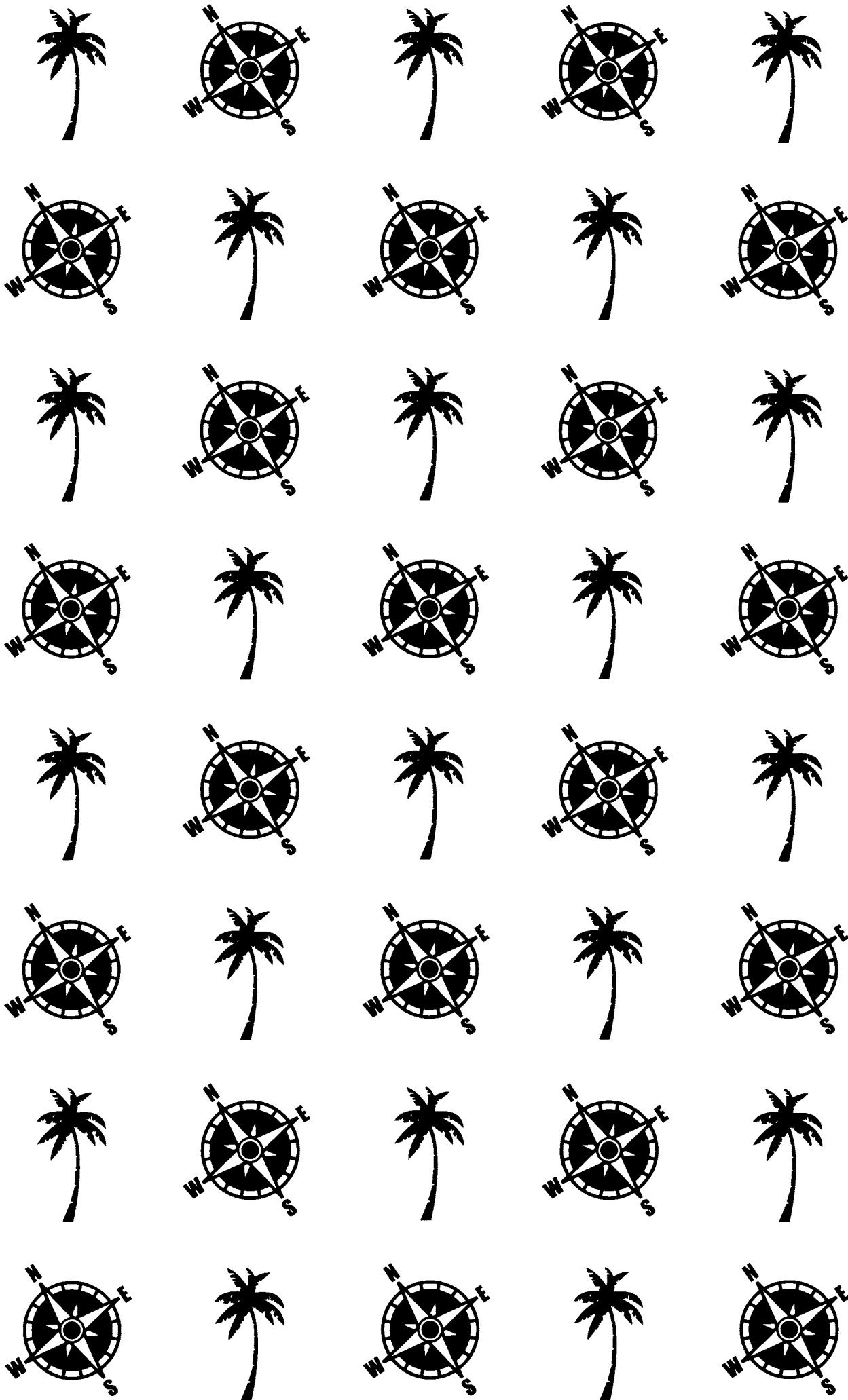
Fall Semester	Total	Full-Time	Part-Time
<b>Students Enrolled</b>			
1989	2,074	741	1,333
1990	2,337	763	1,574
1991	2,589	792	1,797
1992	2,688	851	1,837
1993	2,578	870	1,708
1994	2,809	912	1,897
1995	2,765	985	1,780
1996	2,854	1,046	1,808
1997	2,787	1,062	1,725
1998	2,849	1,074	1,775
1999	2,862	1,013	1,849
2000	2,678	998	1,680
2001	2,699	982	1,717
2002	2,989	1,042	1,947
<b>Number of Faculty</b>			
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
1999 r	165	87	78
2000 r	169	86	83
2001	180	90	90
2002 p	186	93	93

p: preliminary  
r: revised

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).

SOURCE: University of Hawaii, Institutional Research Office, "Fall Enrollment Report, University of Hawaii, Community Colleges, Fall 2002," "Faculty and Staff Report, University of Hawaii, Fall 2001;" 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 81 inches in Hana, to 35 inches in Lanai City, to 20 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, 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*.

### 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 and Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
<b>Islands<sup>4</sup></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
Kaula	2	3	2	3
<b>Northwestern Hawaiian Islands<sup>5</sup></b>	<b>25</b>	<b>40</b>	<b>25</b>	<b>40</b>
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

<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> Data are not available for 4 minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

<sup>5</sup> Excludes the Midway Islands, which are part of the Hawaiian archipelago but not legally part of the State of Hawaii. (Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.)

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	
Wailele	500	150	
Haloku	500	200	
Hipuapua	500	300	
Olupena	300	150	
Moaula	250	200	19.7

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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, and Hawaii State Department of Planning and Economic Development, *Hawai'i, the Natural Environment*(1974),p.18.

### 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, *Hawaii'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				PRECIPITATION												
	Elevation ft.	1st Year of Record	Daily Average		Warmest Month		Coolest Month		Annual Average in.	Days Precip. >=0.01 in.	Wettest Year		Driest Year		Wettest Month		Driest Month		1 Day Record		
			High	Low	High	Low	High	Low			High	Low	in.	Year	in.	Year	in.	Month	in.	Month	in.
<b>Maui</b>																					
Haleakala																					
Ranger Station	6,960	1949	62.6	44.6	66.0	47.5	Aug	59.1	50.3	Feb	90	12/18/2000	27	02/26/1965							
Hana Airport	61	1950	80.8	67.3	91.0	76.7	Sep	78.2	63.8	Feb	94	11/03/1979	50	01/09/1953							
Kahului Airport	48	1954	83.7	67.4	87.2	71.3	Aug	80.1	63.3	Feb	97	08/31/1994	48	01/20/1969							
Kailua (NE Maui, inland)	700	1949	76.8	64.0	79.7	66.4	Sep	74.6	61.6	Mar	88	09/18/1968	50	02/21/1962							
Lahaina	45	1949	84.9	66.4	88.1	69.7	Aug	81.4	63.0	Feb	97	08/18/1985	52	12/23/1962							
<b>Molokai</b>																					
Molokai Airport	450	1953	81.4	67.6	85.2	71.4	Aug	77.3	63.1	Feb	96	04/14/1974	46	03/04/1987							
<b>Lanai</b>																					
Lanai Airport	1,300	1949	79.2	62.7	82.6	65.7	Aug	75.8	59.1	Jan	89	09/05/1954	46	01/22/1955							
Lanai City	1,620	1949	75.4	62.4	78.1	65.8	Aug	72.5	59.5	Jan	89	09/07/1994	47	02/22/1973							
<b>Maui</b>																					
Haleakala Ranger Station	52.97	146	121.16	1980	17.71	1962	8.56	Jan	1.22	Jun	18.50	01/09/1980									
Hana Airport	80.62	269	126.23	1965	49.64	1953	8.95	Mar	4.06	Jun	17.57	04/16/1968									
Kahului Airport	19.94	98	40.63	1989	6.76	1998	3.75	Jan	0.24	Jun	5.82	12/21/1955									
Kailua (NE Maui, inland)	119.45	268	161.82	1969	79.20	1953	12.63	Nov	6.62	Sep	15.20	11/15/1965									
Lahaina	14.62	33	34.78	1950	3.20	1953	3.21	Jan	0.08	Jun	7.01	12/27/1983									
<b>Molokai</b>																					
Molokai Airport	25.59	104	43.70	1963	11.06	2001	4.32	Jan	0.54	Jun	9.03	02/12/1989									
<b>Lanai</b>																					
Lanai Airport	19.12	59	47.66	1951	5.28	1999	3.38	Dec	0.49	Aug	10.45	11/10/1955									
Lanai City	35.37	114	66.87	1968	15.64	1999	5.30	Jan	1.28	Jun	11.25	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	2002												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 Ranger Station	10.53	4.50	5.27	2.40	7.05	0.80	1.06	2.22	0.49	5.54	0.40	2.30	42.56	-10.56
Hana Airport	14.06	2.64	6.63	7.05	6.39	3.85	4.13	3.21	2.56	10.79a	1.64	3.52	66.47	m
Kahului Airport (WSO)	3.75	0.99	1.80	0.64	1.83	0.01	0.66	0.00t	0.00t	4.42	0.42	0.55	15.07	-3.73
Kapalua-West Maui Airport	6.98	1.55	3.19	1.03	2.63	0.52	1.64	0.63	0.21	7.11	0.79	1.70	27.98	1.81
Keanae	10.50	6.00	3.50	1.40a	4.00	2.50	16.00a	15.50	9.40a	10.50	1.93	15.00a	96.23	m
Kihei	2.91	0.25	0.94	1.12	2.29	0.00	0.00	0.00	0.00	5.75	0.00	0.07	13.33	0.70
Kula Hospital	3.76	1.13	5.11	6.42	5.55m	1.24	1.35	1.01	0.20	9.00	0.58	0.01	35.36m	m
Makena Golf Course	3.50	0.33	0.76	2.24	4.02	0.18	0.27	0.10	0.22	6.20	0.33	0.09	18.24	4.64
Puu Kukui	31.20a	20.83	23.00	10.10a	13.00	0.00a	30.00a	29.20	23.14a	25.70	7.57	28.80a	242.54	m
Wailuku	8.15	4.12	4.06	1.61	3.03	0.53	0.91	0.51	0.03	0.00	0.00a	m	m	m
<b>Molokai</b>														
Kalaupapa	11.55a	3.31	6.36	1.25	3.38	0.54	0.71	1.01a	0.02	7.51	2.89	1.25	39.78	m
Molokai Airport	5.33	2.00	2.22	1.74	2.15	0.22	0.43	0.25	0.16	6.64	1.52	0.29	22.95	-1.69
<b>Lanai</b>														
Lanai Airport	5.58	0.62	4.80	2.26	2.08	1.19	0.90	0.58	0.78	5.39	1.58	0.73	26.49	10.05
Lanai City	10.38a	2.32	4.13	3.26a	5.12	1.96	1.15	0.66	2.09a	9.56	0.94	1.01a	42.58	m

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

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

a: accumulated amount, may be from previous month(s).

NA: Not available.

### 3.1.7

#### CONTINUED

2002

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>TEMPERATURE<sup>2</sup></b>													
<b>Maui</b>													
Haleakalala Ranger Station	52.8m	52.2	51.9m	54.7	56.1m	58.4m	60.0m	58.2m	55.1	57.1	56.6	54.1m	55.6m
Hana Airport	71.4m	69.9m	71.3	73.2	74.7	75.8m	75.9m	77.5m	76.5m	76.3m	75.0m	72.8m	74.2m
Kahului Airport	71.9	70.8	72.2	74.2	75.7	78.0	78.4	79.7	77.9	77.5	75.0	73.1	75.4
Kailua	65.4	63.9	64.8	67.0	67.6m	69.1	68.9	70.1	68.6	69.1	67.2	65.5	67.3m
Kapalua-West Maui Airport	72.0	70.6	72.0	74.6	76.1	77.4	77.3	78.9	78.6	77.6	75.3	73.8	75.4
Kula Branch Stn.	61.3	59.5	61.4	62.9	64.4	65.5	66.8	67.6	66.3	66.4	63.9	62.0	64.0
Kula Hospital	60.8m	58.8m	60.7m	62.3	64.1m	65.2m	66.0m	67.0	66.0	66.0	63.2	60.7	63.4m
Makena Golf Course	72.3	70.5m	72.7m	74.9	75.8m	77.4m	78.0m	78.8m	78.0m	77.3m	74.9m	72.4m	75.2m
Oheo	73.3	71.9	73.0m	75.2	75.3m	76.0	76.2	77.5m	77.0m	77.3m	76.5m	74.5m	75.3m
<b>Molokai</b>													
Kalaupapa	72.5m	71.9	72.4	75.4	76.8	m	m	m	82.3	77.1	74.2	73.8	m
Molokai Airport	71.4m	70.1	70.9	73.2	75.6	77.5	77.4	79.4	78.0	77.5	74.6	72.6	74.9m
<b>Lanai</b>													
Lanai Airport	69.3	67.6	69.6	70.2	72.6m	73.6	74.5	75.5	73.9m	74.0	71.2	68.2	71.7m
Lanai City	m	m	m	67.6m	m	m	71.8m	73.6m	m	72.2m	m	m	m

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

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

SOURCE: U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, National Climatic Data Center, *Climatological Data Annual Summary, Hawaii and Pacific*, 2002.

### 3.1.8

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

Station	1996	1997	1998	1999	2000	2001	2002
<b>ANNUAL RAINFALL</b>							
<b>Maui</b>							
Haleakala Ranger Station	58.46	70.19	34.16	52.24	37.3	40.62	42.56
Hana Airport	79.2	92.31	56.44	60.44	86.85	48.37	66.47
Kahului Airport (WSO)	31	23.08	6.76	9.66	9.72	10.53	15.07
Kapalua-West Maui Airport	38.34	36.79	19.2	21.66	18.92	20.61	27.98
Keanae	m	m	m	79.90m	94.50m	82.1	96.23
Kihei	22.32	19.96	4.47	7.13	3.26	6.2	13.33
Kula Branch Station	39.06	29.95	10.12	12.38	11.89	15.83	30.31
Lahaina	22.81	16.68	1.86	2.62	6.01	NA	NA
Makena Golf Course	30.42	23.32	5.58	10.16	7.47	7.01	18.24
Puu Kukui	114.2	407.65	446.45	379.88	320.67m	307.26	242.54
Wailuku	47	49	17.16	18.57	16.14	24.58	m
<b>Molokai</b>							
Kalaupapa	12	61.66	m	30.81	29.62	m	39.78
Molokai Airport	38.45	33.91	12.66	13.52	11.38	11.06	22.95
<b>Lanai</b>							
Lanai Airport	43.7	20.91	10.69	5.28	10.6	17.58	26.49
Lanai City	65.78	42.76	19.85	15.64	18.39	m	42.58
<b>AVERAGE ANNUAL TEMPERATURE</b>							
<b>Maui</b>							
Haleakala Ranger Station	55.2m	54.5m	53.7	53.8m	54.9	54.9	55.6m
Hana Airport	75.1m	74.9m	74.0m	m	m	m	74.2m
Kahului Airport (WSO)	77	76.7	75.1	75.1	75.3	75.7	75.4
Kapalua-West Maui Airport	74.7m	75.5m	74.3m	74.5m	75.0m	75.3m	75.4
Kula Branch Stn.	64.1m	m	63.2m	62.2m	63.8m	64.2m	64
Kula Hospital	65.1m	64.1m	62.6m	62.8m	m	63.8m	63.4m
Lahaina <sup>1</sup>	m	m	m	m	m	NA	NA
Makena Golf Course	m	75.3m	74.4m	74.8m	75.4m	75.7m	75.2m
<b>Molokai</b>							
Molokai Airport	74.9	74.4m	73.9	73.8	m	m	74.9m
<b>Lanai</b>							
Lanai Airport	71.7m	71.4m	71.0m	70.9m	71.8m	72.0m	71.7m
Lanai City	m	m	m	68.4m	m	m	m

<sup>1</sup> Lahaina station no longer in service as of 2001.

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 Weather Service Forecast Office, Honolulu.

### 3.2.1

## TRENDS IN REAL PROPERTY TAX BASE, MAUI COUNTY

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

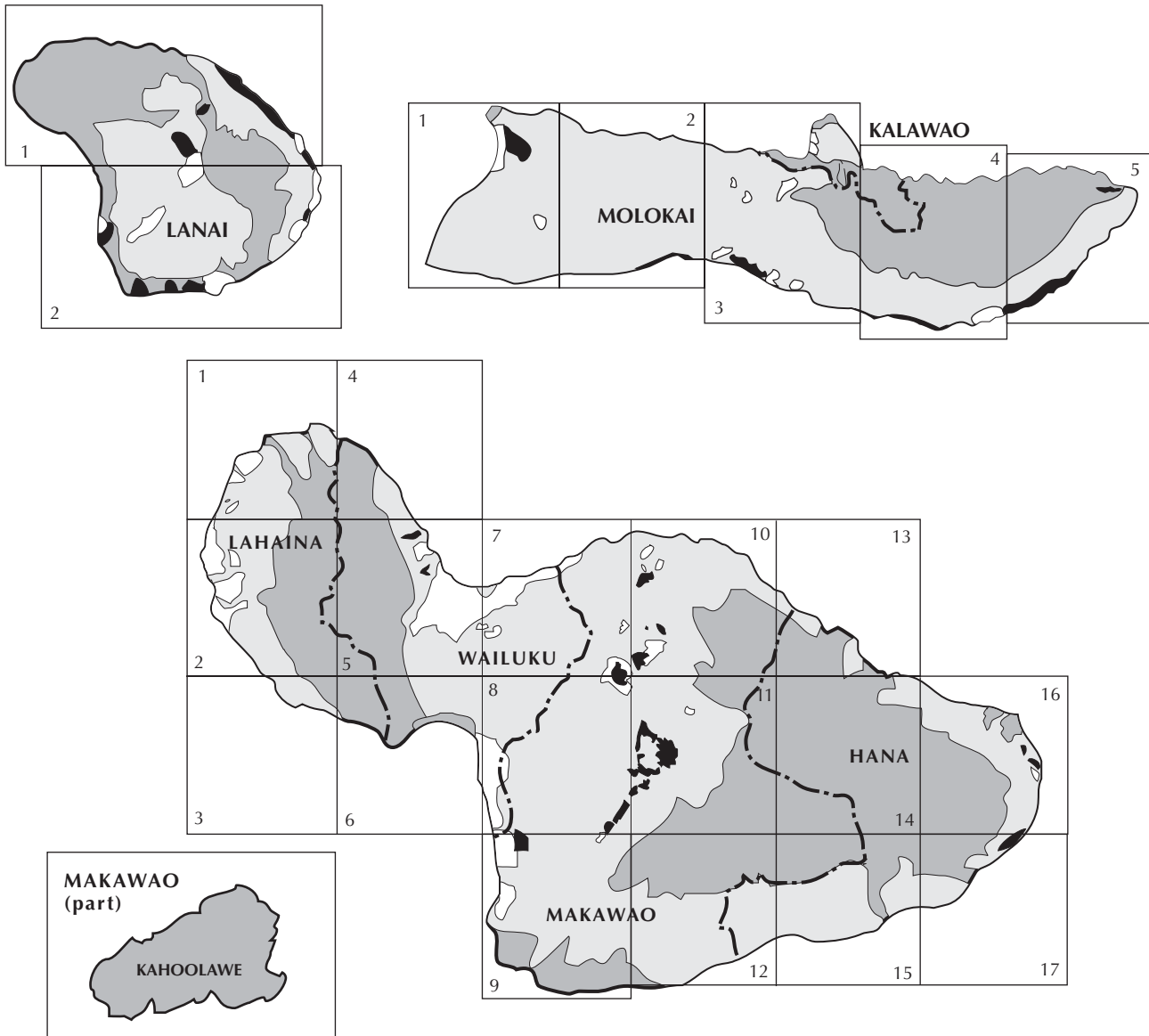
	1997	1998	1999	2000	2001	2002	2003
<b>Improved Residential</b>							
Land	1,566,094	1,592,910	1,568,983	1,629,787	1,778,535	2,105,914	2,229,559
Improvements	782,187	803,783	817,079	883,993	980,638	1,147,963	1,221,288
<b>Unimproved Residential</b>							
Land	276,221	258,915	282,747	327,362	312,704	291,068	295,995
Improvements	2,003	1,963	1,872	122	2,373	348	10,245
<b>Homeowner</b>							
Land	2,379,383	2,283,499	2,225,415	2,383,931	2,645,650	3,068,710	3,448,058
Improvements	2,063,164	2,080,557	2,143,098	2,253,350	2,494,417	2,753,442	3,024,256
<b>Hotel/Resort</b>							
Land	954,858	975,562	1,066,582	1,066,560	1,118,337	1,212,092	1,178,686
Improvements	2,358,814	2,346,723	2,681,250	2,841,594	3,173,969	3,424,136	3,739,235
<b>Apartment</b>							
Land	485,770	500,857	496,335	570,516	576,269	660,144	630,001
Improvements	1,075,849	1,032,209	1,096,639	1,220,117	1,429,635	1,677,822	1,895,848
<b>Commercial</b>							
Land	572,682	572,824	611,007	631,941	672,344	698,764	675,803
Improvements	372,886	382,338	391,668	393,739	471,205	492,228	509,617
<b>Industrial</b>							
Land	571,558	572,949	577,667	593,621	607,145	600,716	539,019
Improvements	396,415	415,419	411,845	416,315	439,790	471,526	468,954
<b>Agricultural</b>							
Land	865,718	880,448	894,855	944,608	1,024,089	1,128,381	1,152,951
Improvements	348,831	362,129	363,055	379,565	422,948	450,050	500,406
<b>Conservation</b>							
Land	240,398	244,888	271,170	278,967	289,466	340,554	328,518
Improvements	30,151	28,128	27,759	29,723	29,829	30,985	33,323
<b>TOTAL</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>	<b>20,554,842</b>	<b>21,881,760</b>

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





SOURCE: County of Maui, Department of Finance, Real Property Tax Division, records.

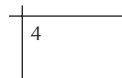
3.2.2

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



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, 2002					
Maui	465,800	21,409	194,836	245,777	3,778
Molokai	165,800	2,539	49,768	111,627	1,866
Lanai	90,500	3,257	38,197	46,639	2,407
Kahoolawe	28,800	—	28,800	—	—
Hawaii	2,573,400	52,083	1,304,684	1,214,669	728
Oahu	386,188	100,447	156,619	129,122	—
Kauai	353,900	14,550	198,769	139,328	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>195,495</b>	<b>1,973,973</b>	<b>1,932,862</b>	<b>10,058</b>

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

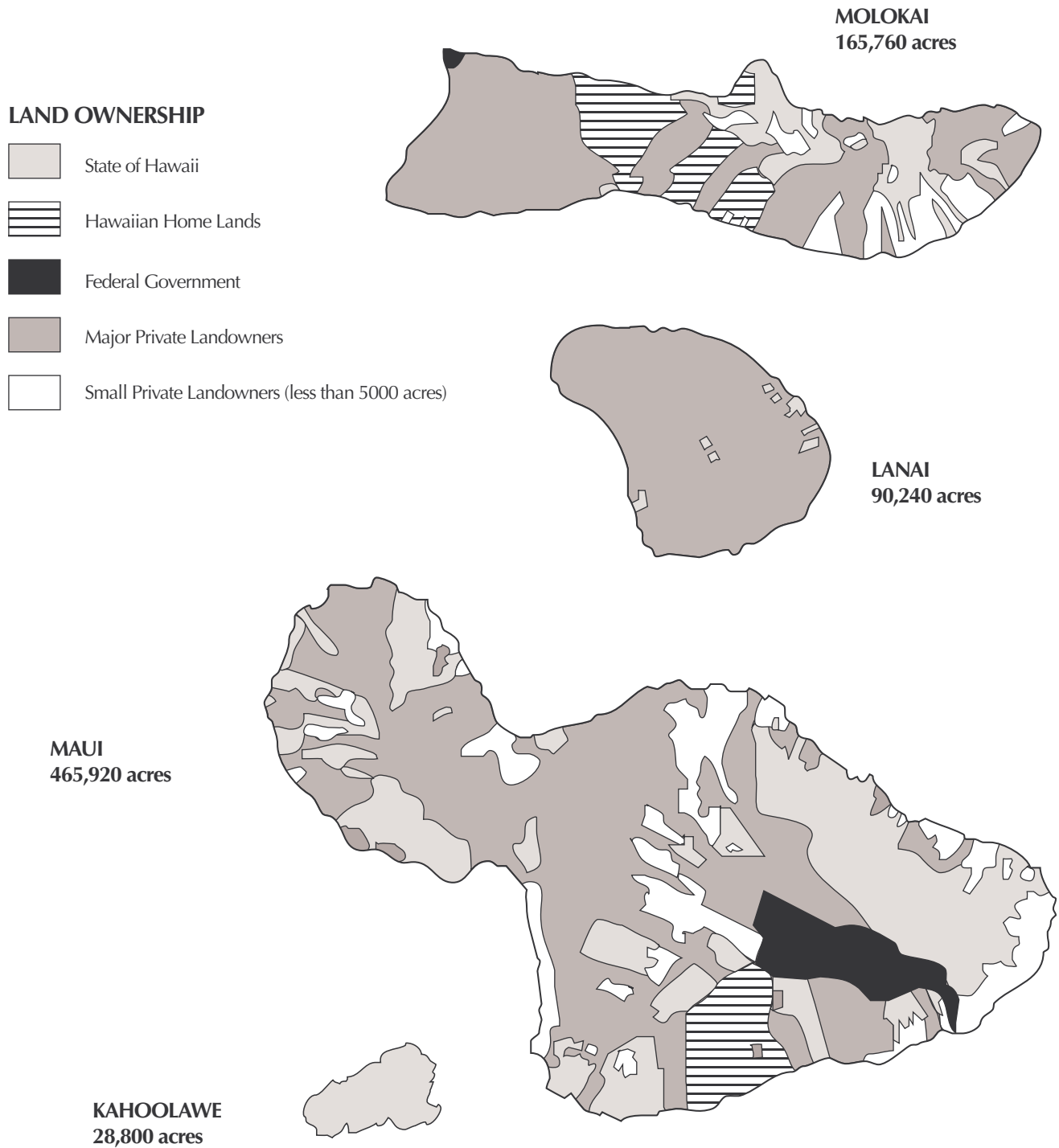
<sup>2</sup> These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census.

<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

## NATIONAL AND STATE HISTORIC PLACES, MAUI COUNTY

<b>Island of Maui</b>	<b>Island of Maui (continued)</b>	<b>Island of Molokai</b>
Alae Petroglyphs	Kama'ole House Site	Ahina Heiau
Alena Habitation Site	Kauhihale Complex	Fishponds (mostly submerged):
Bank of Hawaii - Haiku Branch	Ka'umi'umiua Heiau	Fishponds (numerous)
Cave of Seven Coffins	Keone'oio Archaeological District	Mikiawa Fishpond
Chinese Society Halls:	Kilolani Congregational Church	Weheleau'ulu Fishpond
Wo Hing Society Hall	Kipahulu Historic District	Halemahana Fishpond
Ket Hing	Kipapa Archaeological District	Ualapu'e Fishpond
Crater Historic Dist. - Haleakala	Lahaina Historic District (60 Sites)	Kalua'aha Fishpond
Frank Baldwin/H.F. Rice Res	Lo'alo'a Heiau	Mahilika Fishpond
Gomes Residence	Luala'ilua Cave	Panahana Fishpond
Ha'iku Mill	Luala'ilua Heiau	Ipukaiole Fishpond
Hale Ho'ike'ike	Luala'ilua Terrace Complex	Kainalu Fishpond
Hale Pa'I	Lufkin Residence	Kahinapohaku Fishpond
Haleki'i-Pihana Heiau	Makawao Union Church	Honouliwai Fishtrap
Hale-o-Lono Heiau	Maui Jinsha Mission	Hokukano-'Ualapu'e Complex
Hamoia Complex	Molohai heiau	Keawanui Fishpond
Hana Belt Road	Paia School	Kukui Heiau
Hana Police Station & Courthouse	Papakea heiau	Pu'u 'Olelo Heiau
Hana Store	Papakea Petroglyphs	Kaluakapi'ioho Heiau
Hanamau'uloa Complex	Pi'ilanihale Heiau	Kahokukano Heiau
Hardy House	Schools:	Pakui Heiau
Holy Ghost Catholic Church	Wailuku School	Kalauonakukui Heiau
Hongwanji Temple	Puunene School	'Ualapu'e Fishpond
Honokalani Village	Henry Perrine Baldwin HS	'Ili'ili'opae Heiau
Honokowai Petroglyphs	Paia School	Kalua'aha Church
Iao Theater	Keanae School	Kilohana School
Ka'ahumanu Church	Kaupo School	St. Joseph Catholic Church
Kahikinui House	Wahene Platform	
Kaiapuni Ho'a	Waiale Bridge	<b>Island of Lanai</b>
Kaimupe'elua Heiau	Waihe'e Church	Kealiakapu Compex
Kalepolepo Fishpond	Waikapu Stone Church	Pu'upehe Platform
Kaluakakalioa Cave	Wailuku Civic Center	
Kaluanui Heiau Complex	Wananalua Cong. Church	<b>Island of Kahoolawe</b>
		Kaho'olawe Archaeolical District

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

### 3.2.6

## LAND IN HAWAII OWNED BY SELECTED LARGE LANDOWNERS

Ownership	1999	2000	2001	2002
Eight Large Landowners	981,844	976,693	NA	954,207
Percent of Total Land Area <sup>1</sup>	23.9	23.8	NA	23.2
Kamehameha Schools <sup>2</sup>	366,252	366,042	366,458	365,794
Richard S. Smart (Parker Ranch)	136,406	136,332	136,686	135,312
Castle and Cooke, Inc.	99,761	95,200	NA	94,760
Dole Food Company, Inc.	28,518	28,515	NA	28,507
Samuel M. Damon Estate	121,360	121,360	121,360	121,357
Alexander and Baldwin, Inc.	91,226	91,100	91,000	90,900
C. Brewer and Company, Ltd.	75,891	75,744	71,188	55,377
James Campbell Estate	62,400	62,400	62,200	62,200

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

<sup>2</sup> As of July 1. Formerly known as the Bernice P. Bishop Estate.

NA Not available.

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*

June 30, 2002	Maui	Molokai	Lanai	Hawaii	Kauai	Oahu	State Total
Acreage <sup>1</sup>	31,688	25,386	50	116,963	20,588	7,015	201,660
Homestead Leases	764	829	-	1,765	513	3,122	7,292
Residential	622	390	-	1,294	464	3,064	5,834
Agricultural	66	411	-	494	47	58	1,076
Pastoral	76	27	-	277	2	-	382
Applicant Waiting List <sup>2</sup>	6,191	1,671	-	11,923	3,457	9,400	32,642
Residential	2,902	698	-	4,877	1,467	7,369	17,213
Agricultural	3,043	824	-	5,667	1,778	2,031	13,343
Pastoral	346	149	-	1,379	212	-	2,086

<sup>1</sup> Data based on latest figures from the trust resolution project. Acreages are rounded to the nearest acre and include 13,127 acres of new lands out of the 16,518-acre land transfer from the Public Land Trust and 225 acres from the Hawaiian Home Lands Recovery Act. DHHL purchased 57.160 acres at Waiehu Kou, Maui, and 60,433 acres at Kealahou, Hawaii. Oahu total includes 14.4 acres of Kalawahine land provided under Act 150, SLH 1990, 1,356 acres at Lualualei under Executive Orders to the the U.S. Navy, 53.615 acres at Princess Kahanu Estates, and 20.114 acres at Waianae Kai. Act 95, SLH 1996, also transferred 51.324 acres at Kealahou (La'i'opua) and 37.839 acres at Kapolei, Oahu, as part of the land claims settlement.

<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 estimates the unduplicated Statewide total number of applicants at about 19,641. 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	
	2002 Sales	% Chg Last Yr	2002 Average	% Chg Last Yr	2002 Median	% Chg Last Yr	2002 Volume	% Chg Last Yr
<b>SINGLE FAMILY HOMES</b>								
Central	214	11%	\$311,516	15%	\$286,750	18%	\$66,664,452	28%
Haiku	69	-12%	\$548,188	21%	\$460,000	16%	\$37,825,000	7%
Hana	2	-87%	\$288,000	-49%	\$288,000	-22%	\$576,000	-93%
Kaanapali	36	125%	\$1,159,965	3%	\$944,400	10%	\$41,758,737	131
Kahakuloa	1	N/A	\$175,000	N/A	\$175,000	N/A	\$175,000	N/A
Kapalua	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Keanae	1	N/A	\$60,000	N/A	\$60,000	N/A	\$60,000	N/A
Kihei	216	43%	\$424,649	24%	\$385,000	24%	\$91,724,104	77%
Kipahulu	1	0%	\$1,875,000	92%	\$1,875,000	92%	\$1,875,000	92%
Kula/Ulupalakua/Kanaio	116	-47%	\$512,797	55%	\$419,500	77%	\$59,484,467	-17%
Lahaina	34	-6%	\$401,794	16%	\$355,500	19%	\$13,661,010	10%
Lanai	8	-11%	\$162,375	-32%	\$159,000	6%	\$1,299,000	-39%
Makawao/Olinda/Haliimaile	78	-5%	\$323,558	17%	\$295,000	17%	\$25,237,500	11%
Maui Meadows	29	-17%	\$633,021	-5%	\$620,000	-5%	\$18,357,500	-21%
Molokai	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Nahiku	2	100%	\$325,000	81%	\$325,000	81%	\$650,000	261%
Napili/Kahana/Honokowai	48	-2%	\$627,257	17%	\$495,000	22%	\$30,108,330	15%
Olowalu	1	N/A	\$450,000	N/A	\$450,000	N/A	\$450,000	N/A
Pukalani	55	-15%	\$343,504	6%	\$340,000	11%	\$18,892,713	-11%
Sprecklesville/Paia/Kuau	28	17%	\$561,679	-6%	\$365,000	4%	\$15,727,000	10%
Wailea/Makena	39	39%	\$1,433,699	4%	\$950,000	8%	\$55,917,280	45%
<b>Maui Summary:</b>	<b>978</b>	<b>-3%</b>	<b>\$491,248</b>	<b>21%</b>	<b>\$375,000</b>	<b>27%</b>	<b>\$480,440,215</b>	<b>18%</b>
<b>CONDOMINIUMS</b>								
Central	112	26%	\$111,921	13%	\$120,000	20%	\$12,535,183	42%
Hana	1	-67%	\$55,000	-54%	\$55,000	-49%	\$55,000	-85%
Kaanapali	121	-23%	\$604,654	11%	\$510,000	-5%	\$73,163,095	-15%
Kapalua	47	-36%	\$769,011	-37%	\$495,000	-62%	\$36,143,500	-59%
Kihei	616	14%	\$188,428	6%	\$158,000	8%	\$116,071,447	21%
Kula/Ulupalakua/Kanaio	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Lahaina	39	11%	\$347,916	85%	\$225,000	73%	\$13,568,734	106%
Lanai	6	-45%	\$1,362,167	17%	\$1,125,000	-2%	\$8,173,000	-36%
Maalaea	69	30%	\$259,777	18%	\$250,000	22%	\$17,924,605	54%
Napili/Kahana/Honokowai	409	41%	\$226,854	-3%	\$215,000	8%	\$92,783,479	36%
Pukalani	7	75%	\$316,143	-3%	\$320,000	-2%	\$2,213,000	70%
Sprecklesville/Paia/Kuau	1	-50%	\$129,000	52%	\$129,000	52%	\$129,000	-24%
Wailea/Makena	123	40%	\$764,776	18%	\$515,000	16%	\$94,067,500	64%
<b>Maui Summary:</b>	<b>1551</b>	<b>15%</b>	<b>\$300,985</b>	<b>-7%</b>	<b>\$195,000</b>	<b>2%</b>	<b>\$466,827,543</b>	<b>6%</b>

N/A: Not applicable.

SOURCE: Maui Board of REALTORS, MLS Resale Data, December 2002.

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### 3.2.9

## FOREST ACREAGE, MAUI COUNTY

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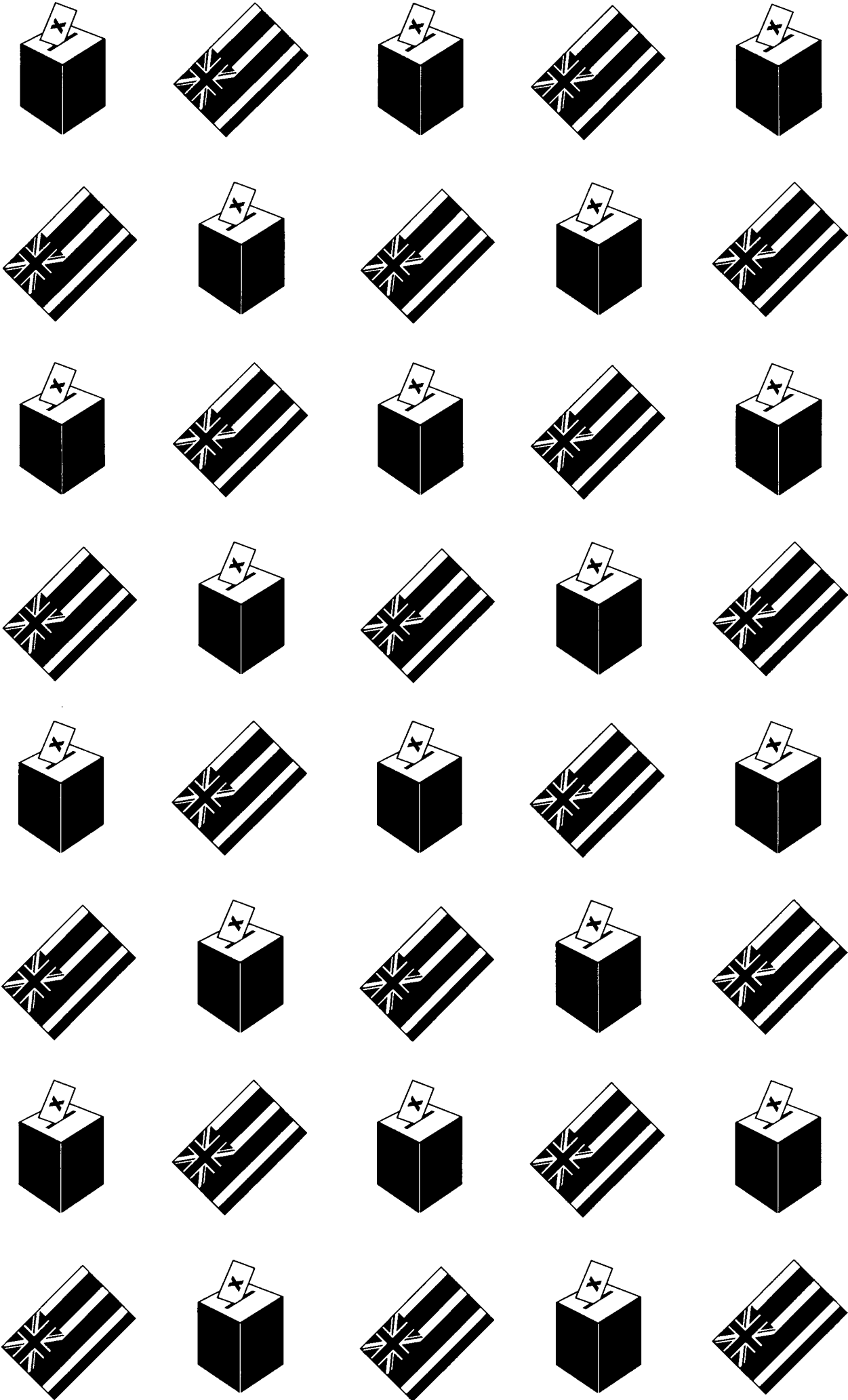
	Acreage
Conservation District Forest Land	
Total	148,587
Forest reserve land <sup>1</sup>	83,788
Private forest land <sup>2</sup>	64,779
Planted Forest	
Total	15,638
Planted in preceding year	0
Total standing	15,638
Natural Areas	
Number of areas	6
Acres	20,073

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<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 May 2002.

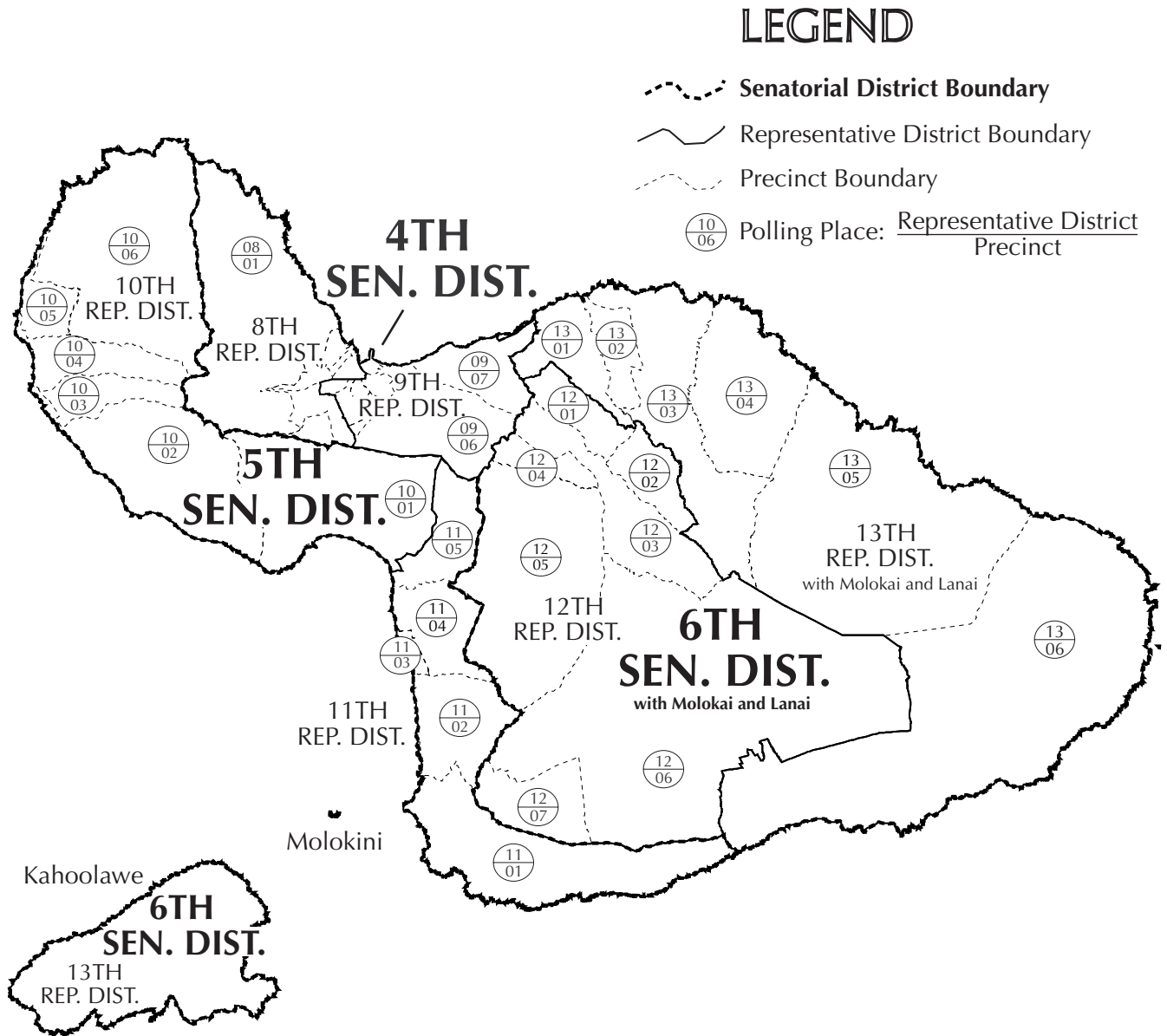
Important sources on statistics on government include: *Government in Hawaii*, Tax Foundation of Hawaii; *Revenue Trends* (monthly tax collection reports), Hawaii State Department of Taxation; *State of Hawaii Data Book*, Hawaii State Department of Business, Economic Development and Tourism; and *Historical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



# MAPS OF ELECTION DISTRICTS

*Islands of Maui and Kahoolawe*




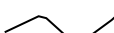
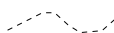

SOURCE: County of Maui, Geographic Information Systems, September 2002.

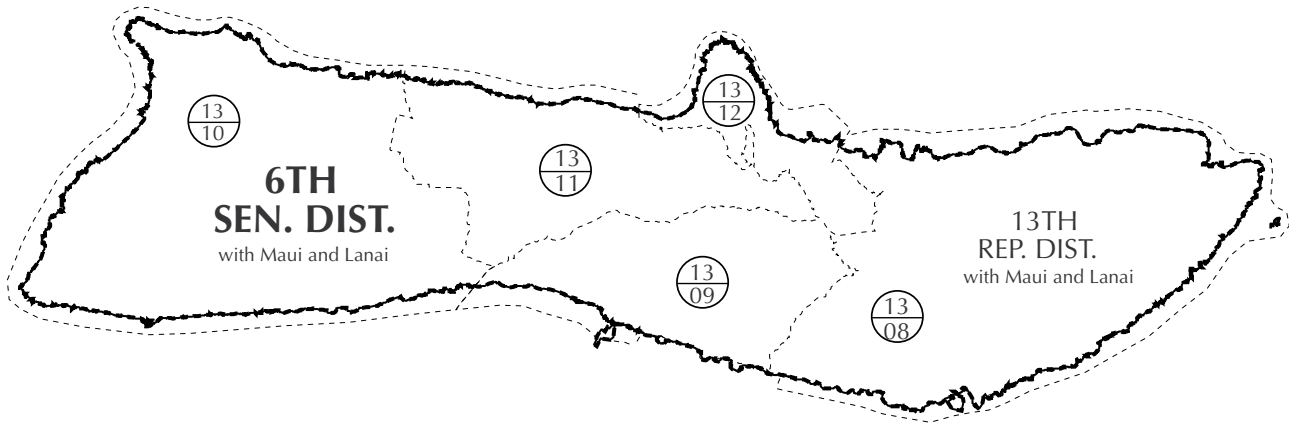
4.1

MAPS OF ELECTION DISTRICTS

*Island of Molokai*

LEGEND

-  Senatorial District Boundary
-  Representative District Boundary
-  Precinct Boundary
-  Polling Place:  $\frac{\text{Representative District}}{\text{Precinct}}$



SOURCE: County of Maui, Geographic Information Systems, September 2002.

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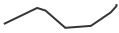


4.1

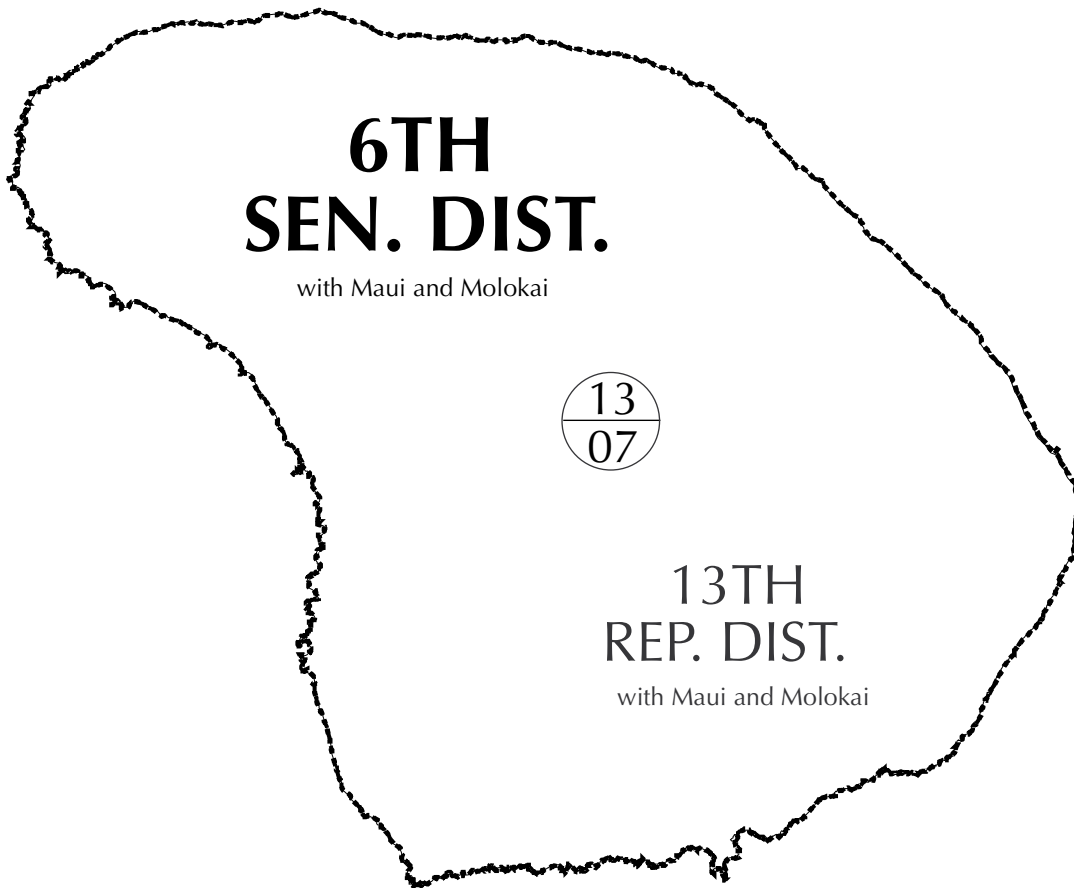
**MAPS OF ELECTION DISTRICTS**

*Island of Lanai*

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**LEGEND**

-  **Senatorial District Boundary**
-  **Representative District Boundary**
-  **Precinct Boundary**
-  **Polling Place:** Representative District  
Precinct



SOURCE: County of Maui, Geographic Information Systems, September 2002.

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## 4.1

# MAPS OF ELECTION DISTRICTS

### *List of Polling Places*

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#### **8th Representative District**

##### **Kahakuloa, Waihee, Waiehu**

1. Waihee Elementary School
2. Wailuku Community Center
3. Baldwin High School
4. Paukukalo Hawaiian Homes Community Center
5. Wailuku Elementary School
6. Waikapu Community Center
7. Maui Economic Opportunity Center

#### **9th Representative District**

##### **Wailuku, Kahului, Spreckelsville**

1. Iao School
2. Maui Waena Intermediate School
3. Lihikai Elementary School
4. Kahului Union Church
5. Kahului Elementary School
6. Kahului Hongwanji Mission
7. Kaunoa Senior Center

#### **10th Representative District**

##### **Lahaina, Maalaea, North Kihei**

1. Kenolio Recreation Center
2. King Kamehameha III Elementary School
3. Lahaina Intermediate School
4. Princess Nahienaena Elementary School
5. Lahaina Civic Center
6. Honolulu Methodist Church

#### **11th Representative District**

##### **Kihei, Wailea**

1. Kealahou Congregational Church
2. Kamalii Elementary School
3. Kihei Community Center
4. Kihei Elementary School
5. Trinity Episcopal Church by the Sea

#### **12th Representative District**

##### **Haliimaile, Pukalani, Makawao, Kula, Ulupalakua**

1. Kalama Intermediate School
2. Eddie Tam Memorial Center
3. Pukalani Elementary School
4. Hannibal Tavares Community Center
5. Kula Community Center
6. Kula Elementary School
7. Merton Kekiwi Garage

#### **13th Representative District**

##### **Paia, Haiku, Keanae, Hana, Molokai and Lanai**

1. Paia Community Center
  2. Haiku Elementary School
  3. Haiku Community Center
  4. Kaulanapueo Church
  5. Keanae Elementary School
  6. Hana High and Elementary School
  7. Lanai High and Elementary School
  8. Kilohana Community Center
  9. Kaunakakai School
  10. Maunaloa Elementary School
  11. Kualapuu Community Center
  12. Kalaupapa Settlement
- 

SOURCE: State of Hawaii, Office of Elections. "2002 Polling Places," factsheet.

## 4.2

**REGISTERED VOTERS AND VOTES CAST IN  
THE NOVEMBER 5, 2002 GENERAL ELECTION**

District #	Precinct Name	Registered Voters	Votes Cast	Turnout
8-1	Waihee Elementary School	1,262	559	44.29%
8-2	Wailuku Comm Center	3,305	1,266	38.31%
8-3	Baldwin High School	1,682	618	36.74%
8-4	Paukukalo Comm Center	1,786	493	27.60%
8-5	Wailuku Elementary School	2,090	760	36.36%
8-6	Waikapu Comm. Center	737	351	47.63%
8-7	Maui Econ. Opp. Center	990	370	37.37%
9-1	Iao School	1,165	434	37.25%
9-2	Maui Waena Int. School	2,495	1,162	46.57%
9-3	Lihikai Elementary School	2,380	958	40.25%
9-4	Kahului Union Church	2,475	978	39.52%
9-5	Kahului Elementary School	2,256	980	43.44%
9-6	Kahului Hongwanji	227	107	47.14%
9-7	Kaunoa Senior Center	942	380	40.34%
10-1	Kenolio Rec. Center	1,616	437	27.04%
10-2	King Kam III Elementary School	1,953	657	33.64%
10-3	Lahaina Int. School	2,006	822	40.98%
10-4	Princess Nahienaena Elementary School	1,483	529	35.67%
10-5	Lahaina Civic Center	3,200	966	30.19%
10-6	Honolua Methodist Church	2,046	882	43.11%
11-1	Kealawai Congregational Church	92	37	40.22%
11-2	Kamalii Elementary School	4,546	1,509	33.19%
11-3	Kihei Comm. Center	3,752	1,069	28.49%
11-4	Kehei Elementary School	3,015	908	30.12%
11-5	Trinity Episcopal School	3,049	1,041	34.14%
12-1	Kalama Intr. School	2,990	1,147	38.36%
12-2	Eddie Tam Memorial Center	2,094	835	39.88%
12-3	Pukalani Elementary School	2,811	1,192	42.40%
12-4	Hannibal Tavares Comm Center	3,107	1,361	43.80%
12-5	Kula Comm. Center	1,183	492	41.59%
12-6	Kula Elementary School	2,532	1,100	43.44%
12-7	Merton Kekiwi Garage	172	74	43.02%
13-1	Paia Comm. Center	964	411	42.63%
13-2	Haiku Elementary School	2,170	944	43.50%
13-3	Haiku Comm. Center	2,703	1,095	40.51%
13-4	Kaulanapueo Church	460	197	42.83%
13-5	Keanae Elementary School	217	70	32.26%
13-6	Hana High & Elementary School	1,101	463	42.05%
13-7	Lanai High & Elementary School	1,747	797	45.62%
13-8	Kilohana Comm Center	601	252	41.93%
13-9	Kaunakakai School	2,113	703	33.27%
13-10	Maunaloa Elementary School	360	125	34.72%
13-11	Kualapuu Comm. Center	1,096	42	
13-12	Kalaupapa Settlement	74	48	
	Absentee turnout		11,598	
	Totals	79,045	41,602	52.63%

SOURCE: Hawai'i State Office of Elections, records.

## 4.3

## MAUI COUNTY GENERAL ELECTION RESULTS, NOVEMBER 5, 2002

<b>U.S. Representative, District 2</b>	Votes	%	<b>BOE 2nd Dept Sch</b>	Votes	%
MINK, Patsy Takemoto (D)	22,402	53.90%	KING, Kelly Takaya	15,697	37.80%
McDERMOTT, Bob (R)	14,435	34.70%	COCHRAN, Mary J.	15,318	36.90%
MALLAN, Jeff (L)	1,170	2.80%	BLANK VOTES	10,528	25.30%
BEDWORTH, Nicholas (NL)	559	1.30%	OVER VOTES	11	0.00%
BLANK VOTES	2,960	7.10%	<b>Mayor, Maui</b>		
OVER VOTES	28	0.10%	ARAKAWA, Alan M.	20,887	50.30%
<b>Governor/Leutenant Governor</b>			APANA, James (Kimo)	19,784	47.70%
LINGLE/AIONA (R)	20,738	49.90%	BLANK VOTES	821	2.00%
HIRONO/MATSUNAGA (D)	19,513	47.00%	OVER VOTES	14	0.00%
HILL/STONE (NL)	530	1.30%	<b>Councilmember, East Maui</b>		
RYAN/VAUGHAN (L)	152	0.40%	CARROLL, Robert (Bob)	27,471	66.20%
BREWER/ING (N)	142	0.30%	BLANK VOTES	14,035	33.80%
CUNNINGHAM/POWELL (F)	69	0.20%	OVER VOTES	0	0.00%
BLANK VOTES	342	0.80%	<b>Councilmember, West Maui</b>		
OVER VOTES	68	0.20%	JOHNSON, Jo Anne	19,789	47.70%
<b>State Senator, District 5</b>			FALCONER, James (Kimo)	15,720	37.90%
BAKER, Roz (D)	5,556	49.10%	BLANK VOTES	5,989	14.40%
COUCH, Don (R)	5,249	46.30%	OVER VOTES	8	0.00%
BLANK VOTES	517	4.60%	<b>Councilmember, Wailuku-Waihee-Waikapu</b>		
OVER VOTES	4	0.00%	KANE, Dain P.	25,216	60.80%
<b>State Representative, District 8</b>			KAMA, Natalie (Tasha)	10,544	25.40%
SOUKI, Joe (D)	3,887	55.80%	BLANK VOTES	5,739	13.80%
MARTIN, Cindi (Mahina) (R)	2,319	33.30%	OVER VOTES	7	0.00%
BLANK VOTES	752	10.80%	<b>Councilmember, Kahului</b>		
OVER VOTES	3	0.00%	PONTANILLA, Joseph (Joe)	18,525	44.60%
<b>State Representative, District 9</b>			CARROLL, D. Mele	16,178	39.00%
NAKASONE, Bob (D)	4,186	57.10%	BLANK VOTES	6,793	16.40%
SHISHIDO, Allen T. (R)	2,464	33.60%	OVER VOTES	10	0.00%
BLANK VOTES	679	9.30%	<b>Councilmember, South Maui</b>		
OVER VOTES	3	0.00%	NISHIKI, Wayne K.	23,170	55.80%
<b>State Representative, District 10</b>			CLUBB, G. Lehua (Mahi)	13,795	33.20%
BLUNDELL, Brian K. (R)	3,088	59.00%	BLANK VOTES	4,530	10.90%
ROUSE, Jim (D)	1,876	35.80%	OVER VOTES	11	0.00%
BLANK VOTES	274	5.20%	<b>Councilmember, Makawao-Haiku-Paia</b>		
OVER VOTES	0	0.00%	MOLINA, Mike	24,352	58.70%
<b>State Representative, District 11</b>			HOLTER, Lance	11,582	27.90%
HALFORD, Chris (R)	3,670	60.30%	BLANK VOTES	5,563	13.40%
ZARRO, Gene (D)	2,071	34.00%	OVER VOTES	9	0.00%
BLANK VOTES	343	5.60%	<b>Councilmember, Upcountry</b>		
OVER VOTES	4	0.10%	TAVARES, Charmaine	29,957	72.20%
<b>State Representative, District 12</b>			JOHNSON, Bradish V.	6,016	14.50%
BUKOSKI, Kika (R)	4,659	54.00%	BLANK VOTES	5,523	13.30%
YAMASHITA, Kyle T. (D)	3,316	38.50%	OVER VOTES	10	0.00%
BLANK VOTES	645	7.50%	<b>Councilmember, Lanai</b>		
OVER VOTES	2	0.00%	HOKAMA, Riki	19,103	46.00%
<b>State Representative, District 13</b>			KAWAMURA, Georgina Kau	16,188	39.00%
KAHO'OHALAHALA, Sol P. (D)	3,929	53.70%	BLANK VOTES	6,208	15.00%
DAVIS, Ron (R)	2,697	36.90%	OVER VOTES	7	0.00%
BLANK VOTES	684	9.40%	<b>Councilmember, Molokai</b>		
OVER VOTES	3	0.00%	MATEO, Danny	19,520	47.00%
			PAUOLE-MOORE, Beverly E.	15,571	37.50%
			BLANK VOTES	6,409	15.40%
			OVER VOTES	6	0.00%

SOURCE: Hawaii State Office of Elections, records.

## 4.4

**MAUI COUNTY GENERAL ELECTION RESULTS,  
MAUI COUNTY CHARTER AMENDMENTS,  
NOVEMBER 5, 2002**

<b>Charter Amendments</b>			
<b>Maui: Article 1</b>			
YES	29,852	72.20%	
NO	6,414	15.50%	
BLANK VOTES	5,064	12.20%	
OVER VOTES	18	0.00%	
<b>Four Year Council Terms</b>			
YES	14,011	33.90%	
NO	24,059	58.20%	
BLANK VOTES	3,257	7.90%	
OVER VOTES	21	0.10%	
<b>Responsibilities of Corporation Council</b>			
YES	27,703	67.00%	
NO	8,353	20.20%	
BLANK VOTES	5,276	12.80%	
OVER VOTES	16	0.00%	
<b>Rename Dept. of Public Work/Waste</b>			
YES	27,506	66.50%	
NO	9,690	23.40%	
BLANK VOTES	4,138	10.00%	
OVER VOTES	14	0.00%	
<b>Rename Dept. of Fire Control</b>			
YES	22,237	53.80%	
NO	14,066	34.00%	
BLANK VOTES	5,032	12.20%	
OVER VOTES	13	0.00%	
<b>Responsibilities of Dept. of Planning</b>			
YES	23,003	55.60%	
NO	11,977	29.00%	
BLANK VOTES	6,359	15.40%	
OVER VOTES	9	0.00%	
<b>Role of Citizen Advisory Commission</b>			
YES	22,410	54.20%	
NO	12,887	31.20%	
BLANK VOTES	6,010	14.50%	
OVER VOTES	41	0.10%	
<b>Role of Citizen Advisory Commission Alternate</b>			
YES	21,376	51.70%	
NO	13,393	32.40%	
BLANK VOTES	6,553	15.80%	
OVER VOTES	26	0.10%	
<b>Powers of Civil Service Commission</b>			
YES	27,629	66.80%	
NO	8,268	20.00%	
BLANK VOTES	5,436	13.10%	
OVER VOTES	15	0.00%	
<b>Initiative</b>			
YES	22,681	54.90%	
NO	11,847	28.70%	
<b>More Autonomy Dept. of Water</b>			
YES	17,543	42.40%	
NO	17,785	43.00%	
BLANK VOTES	5,975	14.50%	
OVER VOTES	45	0.10%	
<b>Dept. Water Under Mayor Administration</b>			
YES	21,568	52.20%	
NO	13,318	32.20%	
BLANK VOTES	6,440	15.60%	
OVER VOTES	22	0.10%	
<b>Create County Dept. of Transportation</b>			
YES	21,077	51.00%	
NO	14,526	35.10%	
BLANK VOTES	5,731	13.90%	
OVER VOTES	14	0.00%	
<b>Staggered Terms Salary Commission</b>			
YES	23,922	57.90%	
NO	9,768	23.60%	
BLANK VOTES	7,649	18.50%	
OVER VOTES	9	0.00%	
<b>1% Real Property Tax for Open Space</b>			
YES	25,818	62.40%	
NO	9,596	23.20%	
BLANK VOTES	5,923	14.30%	
OVER VOTES	11	0.00%	
<b>Meetings, Boards/Commissions</b>			
YES	21,122	51.10%	
NO	14,462	35.00%	
BLANK VOTES	5,749	13.90%	
OVER VOTES	15	0.00%	
<b>Housekeeping Changes</b>			
YES	25,364	61.30%	
NO	8,979	21.70%	
BLANK VOTES	6,993	16.90%	
OVER VOTES	12	0.00%	
<b>Public Record Request</b>			
YES	23,368	56.50%	
NO	10,337	25.00%	
BLANK VOTES	7,632	18.50%	
OVER VOTES	11	0.00%	
<b>Nomination Boards/Commission</b>			
YES	27,710	67.00%	
NO	7,687	18.60%	
BLANK VOTES	5,939	14.40%	
OVER VOTES	12	0.00%	
BLANK VOTES	6,807	16.50%	
OVER VOTES	13	0.00%	

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

SOURCE: Hawaii State Office of Elections, records.

**MAUI COUNTY GENERAL ELECTION RESULTS,  
OFFICE OF HAWAIIAN AFFAIRS TRUSTEES  
AND STATE CONSTITUTIONAL AMENDMENTS,  
NOVEMBER 5, 2002**

**OHA - At Large**

WAIHE'E, John D. IV	13,827	11.10%
AKANA, Rowena M. Noela	12,941	10.40%
AIONA, Darrow L. Kanak	9,741	7.80%
STENDER, Oswald (Oz)	9,368	7.50%
KAMALI'I, Adrian Kamal	5,764	4.60%
HANOHANO, Mike (Happy)	5,660	4.50%
NAKOA, Charles M.L.S.	4,765	3.80%
BENHAM, Roy Ilikea	3,248	2.60%
KELIIHOLOKAI, Demetriu	2,132	1.70%
KAWELO, Frankie Kay	1,854	1.50%
UNDER VOTES	55,245	44.30%
OVER VOTES	39	0.00%

**OHA - Maui**

MOSSMAN, Boyd P.	20,716	49.90%
WILCOX, Robert K., IV	3,515	8.50%
KAIMIOLA, George Manulani	3,381	8.10%
KAHAIALII, Wilmont K., Jr.	3,118	7.50%
BLANK VOTES	10,757	25.90%
OVER VOTES	67	0.20%

**OHA - Oahu**

CARPENTER, Dante Keala	6,200	14.90%
KALIMA, Leona Mapuana	4,500	10.80%
ROSE, Charles (Kale Loke)	3,047	7.30%
SHIM, Marion Heen	2,323	5.60%
FREEMAN, Jerry K.M.	1,985	4.80%
CHANG, A.K.U. (Tony)	1,929	4.60%
AGARD, Louis (Buzzy)	1,323	3.20%
REZENTES, M. Kehaulani	1,281	3.10%
KUPAU, Orrin	1,220	2.90%
BLANK VOTES	17,638	42.40%
OVER VOTES	108	0.30%

**State of Hawaii Constitutional Amendments:****Candidate Residency**

YES	32,688	78.70%
NO	5,573	13.40%
BLANK VOTES	3,248	7.80%
OVER VOTES	45	0.10%

**Felony Prosecutions**

YES	19,649	47.30%
NO	16,811	40.50%
BLANK VOTES	5,053	12.20%
OVER VOTES	41	0.10%

**Not-For-Profit Schools**

YES	21,538	51.80%
NO	16,179	38.90%
BLANK VOTES	3,798	9.10%
OVER VOTES	39	0.10%

Note: Descriptions of Constitutional Amendments 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*

	1998	1999	2000	2001	2002
<b>Revenues:</b>					
Real Property Taxes	75,185	74,812	84,651	88,078	100,348
Other Taxes	11,041	10,911	11,736	12,132	13,739
Intergovernmental Revenues	50,568	39,213	35,796	43,440	42,941
Charges for Services	21,866	23,125	29,210	30,733	28,733
Licenses and Permits	7,042	7,576	8,704	9,601	8,603
Revenues from Use of Money and Property	3,126	2,442	2,938	3,324	2,849
Fines and Forfeitures	683	823	800	822	970
Assessments <sup>1</sup>					2,272
Other Sources	6,658	6,111	6,240	6,495	2,109
Subtotal	176,169	165,014	180,075	194,625	202,564
<b>Other Sources:<sup>2</sup></b>					
Bond/Loan Proceeds	42,192	11,600	15,479	12,707	26,439
<b>TOTAL Revenues + Other Sources</b>	<b>218,361</b>	<b>176,614</b>	<b>195,554</b>	<b>207,332</b>	<b>229,003</b>
<b>Expenditures:</b>					
Management and Other	41,598	36,851	37,510	39,045	47,694
Public Safety	37,461	38,331	39,335	40,241	42,085
Sanitation	18,912	18,444	19,070	19,589	20,981
Highway and Streets	9,870	9,105	9,136	9,270	10,821
Social Welfare	21,545	20,585	19,948	21,323	27,383
Culture and Recreation	13,085	13,868	15,065	14,725	17,220
Legislative	3,039	3,103	2,964	3,323	3,328
Capital Outlay	46,257	38,151	24,624	24,503	30,655
Debt Service: Principal	8,463	9,604	11,507	12,034	12,969
Interest	8,862	9,837	10,303	10,594	9,817
<b>TOTAL Expenditures</b>	<b>209,092</b>	<b>197,878</b>	<b>189,462</b>	<b>194,647</b>	<b>222,954</b>

<sup>1</sup> Revenue category as of 2002.

<sup>2</sup> G. O. Bonds and State Revolving fund Proceeds.

SOURCE: County of Maui, Department of Finance, *Comprehensive Annual Financial Report*, (Fiscal years ending June 30) 1998-2002.

## 4.7

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

Source of Revenue	1998	1999	2000	2001	2002
Banks/Financial Corporations	7,062	17,924	15,059	15,579	30,144
Employment Security Contributions	1,727	508	24	1,652	1,333
Fuel	5,021,914	5,005,842	5,424,191	5,976,114	6,684,901
General Excise License/Fees	79,087	78,759	88,206	92,072	81,254
General Excise and Use Tax <sup>1</sup>	105,128,667	117,923,716	129,339,853	136,218,134	133,864,675
Income, Corporate					
Declaration of Estimated Taxes	1,901,657	3,031,846	6,524,065	6,473,192	5,719,001
Payment with Returns	256,247	306,127	422,033	391,932	337,254
Refunds	(1,468,719)	(1,503,459)	(1,364,843)	(1,665,303)	(2,671,821)
Income, Individual					
Declaration of Estimated Taxes	16,014,201	20,883,037	26,959,486	25,625,262	25,098,625
Payment with Returns	7,890,511	8,774,885	8,466,766	9,864,533	8,318,967
Withholding Tax on Wages	50,016,699	50,778,036	51,809,665	53,518,907	52,231,756
Refunds	(21,591,253)	(23,703,573)	(25,370,663)	(28,143,999)	(32,311,148)
Liquor and Permits	5,963,129	6,067,932	6,211,674	5,929,013	6,057,897
Motor Vehicle Tax/Fees <sup>2</sup>	5,594,869	5,878,030	6,133,256	6,417,979	5,889,412
Public Service Company	10,756,459	10,494,247	11,090,896	10,891,789	9,077,684
Tobacco and Licenses	73,378	68,946	43,842	1,264,034	2,123,163
Transient Accomodation Fees/ Time Share Occupancy Fees <sup>3</sup>	2,015	3,070	3,835	3,418	3,380
Transient Accomodation Tax/ Time Share Occupancy Tax <sup>3</sup>	12,536,880	20,740,162	27,471,444	27,193,207	22,608,181
All Others <sup>3</sup>	170	190	0	155	140
<b>TOTAL</b>	<b>198,184,700</b>	<b>224,846,224</b>	<b>253,268,788</b>	<b>260,067,670</b>	<b>243,144,800</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), 1998-2002.

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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 1/1/2002	21,881,760,400
Land	10,478,589,100
Improvement	11,403,171,300
Exemptions <sup>1</sup>	1,903,818,400
Assessor's Net Taxable Valuation	19,977,942,000
Half of Valuation on Appeal	107,591,048
Number of Appeals	342
Valuation for Tax Rate Purposes	19,870,350,952
Land	9,972,446,989
Improvement	9,897,903,964
Amount to be Raised by Taxation <sup>2</sup>	116,697,176

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

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

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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 2003-2004</b>
<b>LAND</b>	
Homeowner	3.55
Improved Residential	5.86
Unimproved Residential	5.86
Apartment	5.86
Hotel/Resort	8.30
Commercial	6.75
Industrial	6.75
Agricultural	4.93
Conservation	4.93
<b>IMPROVEMENT</b>	
Homeowner	3.55
Improved Residential	5.86
Unimproved Residential	5.86
Apartment	5.86
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, *Estimated Real Property Tax Revenue, Maui County, Assessment Year 2003, Fiscal year 2003-2004.*

## 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 and all counties)	State Debt	Maui County
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	7,078.0	5,126.1	188.4
1996	7,098.6	5,051.3	194.3
1997	7,239.3	5,258.1	188.2
1998 <sup>2</sup>	7,829.9	5,795.5	223.8
1999 <sup>2</sup>	7,708.8	5,522.8	235.1
2000 <sup>2</sup>	7,956.3	5,678.3	236.8
2001 <sup>3</sup>	7,790.9	5,416.5	234.9
2002 <sup>3</sup>	8,856.6	6,072.0	246.3

<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.

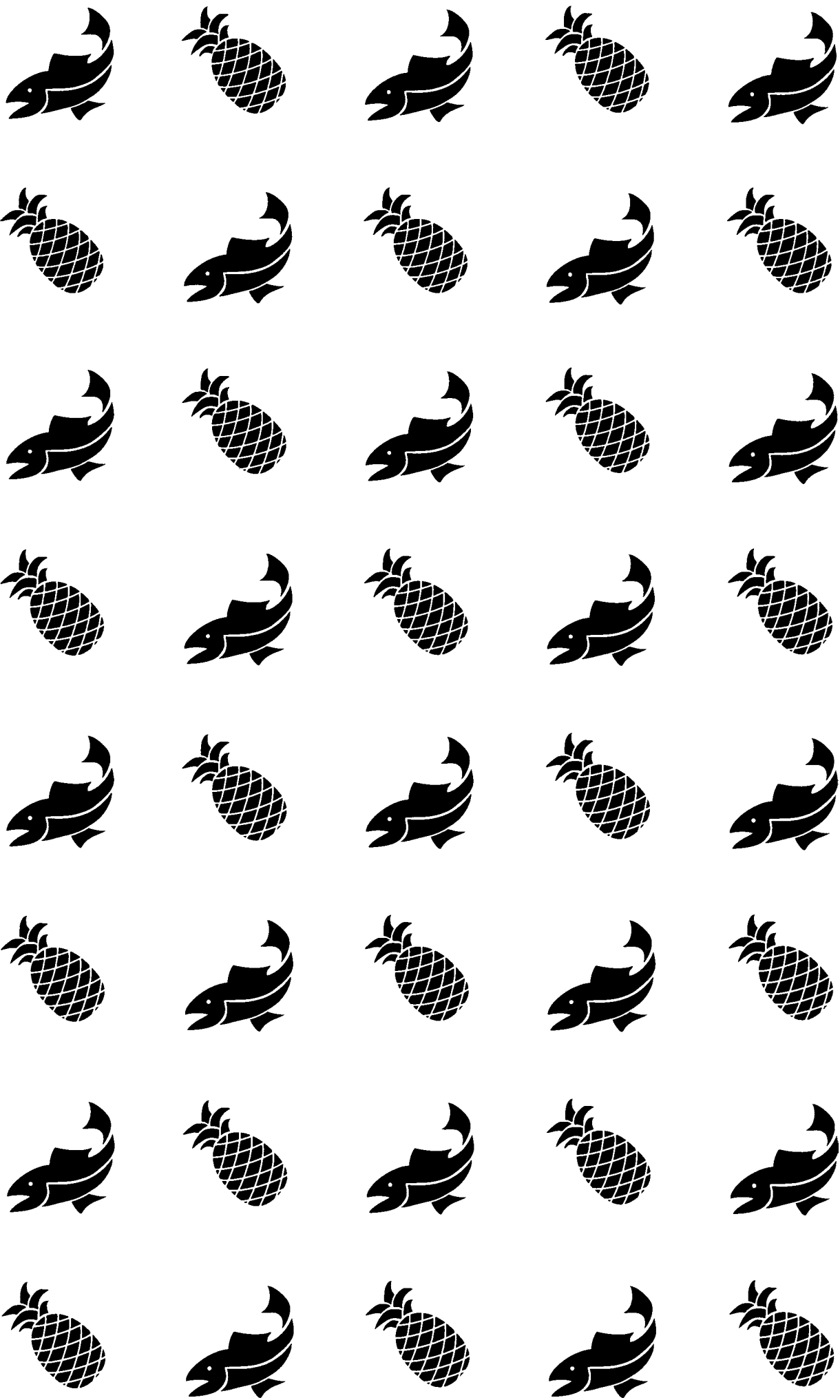
<sup>2</sup> Revised as of June 30.

<sup>3</sup> As of June 0

SOURCE: Tax Foundation of Hawaii, unpublished compilations of Hawaii State Department of Accounting and General Services, Annual Report of the Comptroller (annual) and of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports); Tax Foundation of Hawaii, *Government in Hawaii*, table 52; 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. 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.

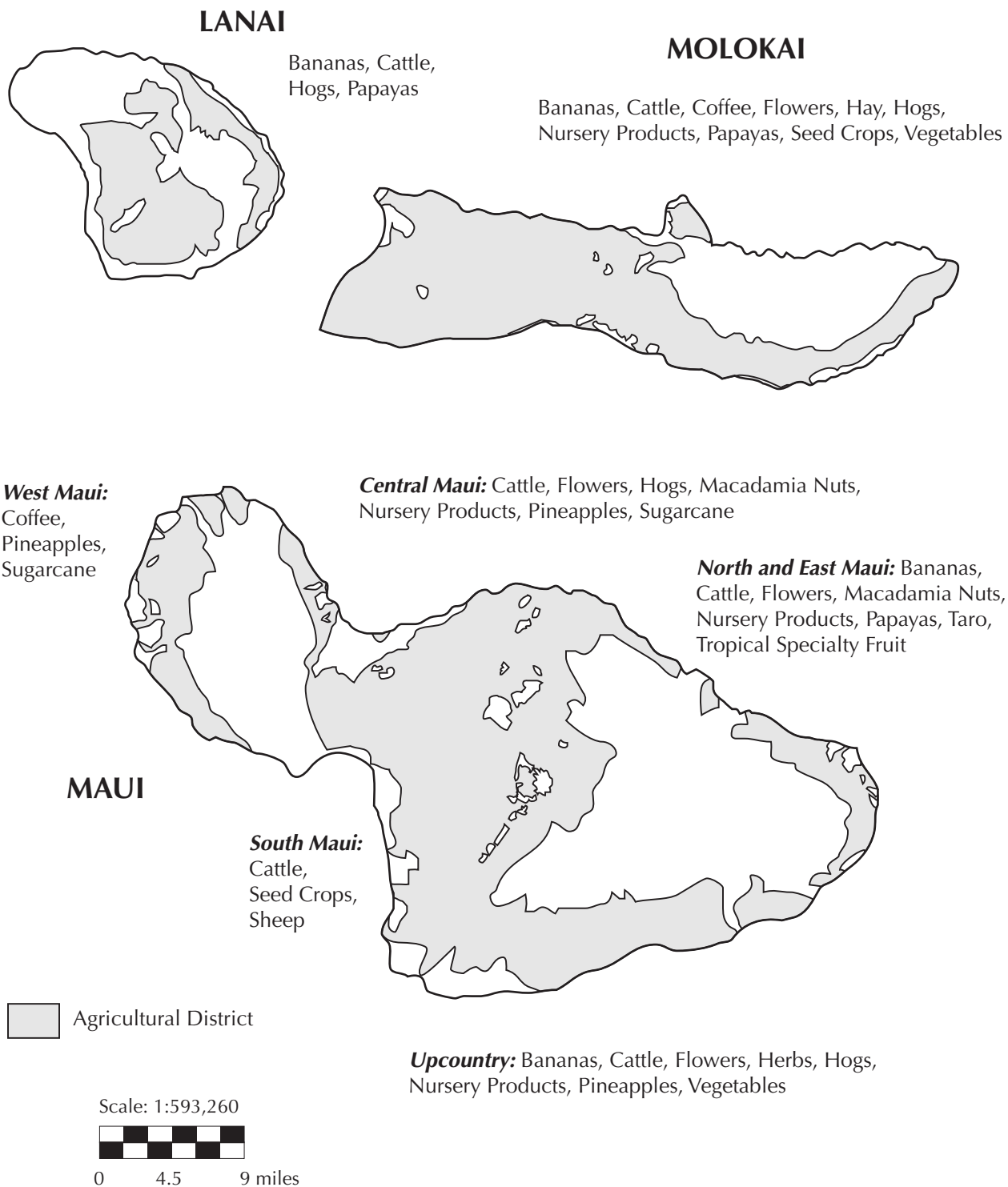
The value of commercially caught fish has been generally declining since 1986 and this trend continued through 1993, although there has been a rise since 1994. Commercial aquaculture continues to grow in importance.

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*, 2000.

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

	1996	1997	1998	1999	2000	2001
Number of Farms <sup>1</sup>	800	800	800	800	800	800
Farm Acreage (1,000) <sup>2</sup>	290	290	290	290	290	290
Farm Employment <sup>3</sup>						
Self-employed farm operators	300	300	350	450	500	500
Unpaid workers <sup>4</sup>	150	100	150	200	150	150
Hired workers	1,850	1,850	1,950	2,200	2,000	1,800

<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.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2001* (annual, [http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm)).

### 5.1.5

## LIVESTOCK: NUMBER OF OPERATIONS AND VALUE OF SALES, MAUI COUNTY

	1997	1998	1999	2000	2001
<b>Number of Livestock Operations, December 31</b>					
Cattle <sup>1</sup>	180	180	170	170	170
Hogs	60	50	60	60	60
Milk	5	5	4	4	4
Eggs	7	8	8	8	8
Honey	5	D	D	D	D
<b>Value of Livestock Sales (\$1,000)</b>					
Cattle <sup>2</sup>	3,003	3,641	2,865	3,230	2,438
Hogs <sup>3</sup>	1,008	825	894	935	839
Milk	D	D	D	D	D
Eggs	D	D	D	D	D
<b>Total livestock sales<sup>4</sup></b>	<b>9,813</b>	<b>10,557</b>	<b>5,890</b>	<b>6,395</b>	<b>5,419</b>

D: Withheld to avoid disclosure of individual operations.

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

<sup>2</sup> Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

<sup>3</sup> Excludes interfarm sales; includes out-of-state sales of slaughter animals.

<sup>4</sup> Sum of individual commodities may not add to total. Includes sheep, wool, turkeys, horses, honey, beeswax, broilers and chickens.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2001* (annual, [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

### CROPS: ACREAGE, NUMBER OF FARMS, AND VALUE OF SALES, MAUI COUNTY

	1997	1998	1999	2000	2001
<b>Acreage in Crop (1,000 acres)</b>					
Sugarcane	43.1	42.9	43.3	36.9	35.4
Pineapples (land used for pineapple)	9.1	9.6	9.1	11.6	9.1
Vegetables and melons (harvested acreage) <sup>1</sup>	1.4	1.6	1.4	1.3	1.2
Fruits (excluding pineapples)	0.3	0.3	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>	1.7	1.9	1.9	1.9	2.1
<b>Number of Crop Farms</b>					
Sugar	2	2	2	1	1
Pineapples <sup>3</sup>	4	5	5	5	2
Vegetables and melons	105	114	145	120	100
Fruits (excluding pineapples)	86	262	251	231	193
Coffee	D	D	D	D	D
Macadamia nuts	D	D	D	D	D
Taro	15	14	13	15	25
Flowers and nursery products	106	145	150	140	150
<b>Value of Crop Sales (\$1,000)</b>					
Sugar (unprocessed cane)	53,900	58,700	60,200	43,900	44,900
Pineapples (fresh equivalent)	28,295	28,413	28,325	29,445	27,115
Vegetables, ginger root, herbs, and melons	11,762	11,755	9,519	9,569	10,125
Fruits (excluding pineapples)	1,136	1,051	1,056	1,102	921
Coffee (parchment)	D	D	D	D	D
Macadamia nuts (in-shell)	D	D	D	D	D
Taro	D	D	D	D	D
Seed crops	D	D	D	D	D
Flowers and nursery products <sup>4</sup>	8,219	8,951	9,851	9,947	9,866
Total crops <sup>5</sup>	121,072	124,816	125,375	110,603	108,860

D: Withheld to avoid disclosure of individual operations.

<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.

<sup>4</sup> Flowers, foliage, and nursery products.

<sup>5</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.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2001* (annual, [http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm)).

## 5.1.7

## SUGARCANE, MAUI ISLAND

	1997	1998	1999	2000	2001
<b>Number of farms<sup>1</sup></b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>Acreage (1,000 acres)</b>					
In crop <sup>1</sup>	42.4	42.9	43.3	36.9	35.4
Harvested for sugar	19.7	19.0	21.5	18.6	15.1
<b>Yield per acre (tons)<sup>2</sup></b>					
Sugarcane	90.6	93.8	91.9	86.7	98.7
Raw Sugar 96°	11.36	12.48	11.86	11.29	12.7
<b>Production of cane for sugar (1,000 tons)</b>	<b>1,784</b>	<b>1,783</b>	<b>1,975</b>	<b>1,613</b>	<b>1,491</b>
<b>Farm price (dollars per ton)</b>	<b>30.20</b>	<b>32.90</b>	<b>30.50</b>	<b>27.20</b>	<b>30.10</b>
<b>Value of cane for sugar (\$1,000,000)<sup>3</sup></b>	<b>53.9</b>	<b>58.7</b>	<b>60.2</b>	<b>43.9</b>	<b>44.9</b>
<b>Mill Production (1,000 tons)</b>					
Raw Sugar 96°	224	237	255	210	191
Molasses <sup>4</sup>	90	85	99	71	72
<b>Average returns received (dollars per ton)<sup>5</sup></b>					
Raw Sugar 96°	359	369	352	311	352
Molasses <sup>4</sup>	38.00	23.10	13.20	26.20	49.00
<b>Value of production (\$1,000,000)</b>					
Raw Sugar 96°	80.4	87.5	89.8	65.3	67.2
Molasses <sup>4</sup>	3.4	2.0	1.3	1.9	3.5
Total	83.8	89.5	91.1	67.2	70.7

<sup>1</sup> At end of year.

<sup>2</sup> Yield and farm price may not compute exactly due to rounding.

<sup>3</sup> Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges by independent producers.

<sup>4</sup> Commercial.

<sup>5</sup> Derived from production and value. Prices may not compute exactly due to rounding.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2001* (annual, [http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm)); primary data source, Hawaii Agricultural Research Center (formerly Hawaii Sugar Planters' Association).

## 5.1.8

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

Commodity	1996	1997	1998	1999	2000	2001
<b>HARVESTED ACREAGE<sup>1</sup></b>						
Beans, snap	37	45	95	90	70	55
Cabbage, head	315	300	280	210	190	170
Celery	20	20	20	25	25	25
Corn, sweet	50	25	40	55	D	D
Cucumbers	140	155	170	145	160	155
Lettuce	25	15	15	D	D	D
Onions, dry	200	180	235	190	190	150
Onions, green	15	10	15	D	D	D
Peppers, green	15	5	D	D	D	D
Romaine	85	90	110	95	55	55
Squash, Italian	35	40	50	70	65	60
Sweet potatoes	95	70	65	70	65	50
Tomatoes	215	245	155	D	D	D
Watermelon	60	5	10	D	D	D
Other Vegetables & Melons <sup>2</sup>	258	250	280	450	495	485
<b>Total Vegetables &amp; Melons</b>	<b>1,565</b>	<b>1,455</b>	<b>1,540</b>	<b>1,400</b>	<b>1,315</b>	<b>1,205</b>
Taro (acreage in crop) <sup>3</sup>	85	85	95	90	100	100
<b>PRODUCTION (1,000 pounds)</b>						
Beans, snap	245	350	500	570	550	500
Cabbage, head	7,300	6,700	7,300	5,700	5,300	4,650
Celery	300	370	470	500	350	500
Corn, sweet	185	130	170	240	D	D
Cucumbers	2,500	2,600	2,900	2,300	2,500	2,490
Lettuce	200	100	55	D	D	D
Onions, dry	1,980	1,690	3,000	2,900	2,700	2,150
Onions, green	120	105	125	D	D	D
Peppers, green	160	60	D	D	D	D
Romaine	960	1,150	1,900	1,100	600	550
Squash, Italian	380	350	470	750	980	800
Sweet potatoes	1,100	800	750	600	620	380
Tomatoes	5,580	8,070	5,800	D	D	D
Watermelon	1,750	95	140	D	D	D
Other Vegetables & Melons <sup>2</sup>	3,460	3,730	3,625	7,280	6,625	6,405
<b>Total Vegetables &amp; Melons</b>	<b>26,220</b>	<b>26,300</b>	<b>27,205</b>	<b>21,940</b>	<b>20,225</b>	<b>18,425</b>
Taro (marketings) <sup>3</sup>	1,100	900	1,100	1,400	1,300	1,300



## 5.1.8

CONTINUED

Commodity	1996	1997	1998	1999	2000	2001
	<b>VALUE (\$1,000)</b>					
Beans, snap	256	359	416	496	468	473
Cabbage, head	1,351	1,380	1,314	1,009	970	944
Celery	79	102	120	125	98	152
Corn, sweet	114	98	117	161	D	D
Cucumbers	988	832	1,018	840	988	1,068
Lettuce	80	41	23	D	D	D
Onions, dry	2,344	1,658	2,367	2,062	2,066	1,993
Onions, green	132	111	121	D	D	D
Peppers, green	79	30	D	D	D	D
Romaine	341	414	646	352	244	214
Squash, Italian	181	179	235	334	480	400
Sweet potatoes	558	432	426	360	372	228
Tomatoes	2,751	4,064	2,917	D	D	D
Watermelon	277	18	29	D	D	D
Other Vegetables & Melons <sup>2</sup>	1,308	1,351	1,334	2,911	3,045	3,552
<b>Total Vegetables &amp; Melons</b>	<b>10,839</b>	<b>11,069</b>	<b>11,083</b>	<b>8,650</b>	<b>8,731</b>	<b>9,024</b>
Taro <sup>3</sup>	568	450	577	736	684	691

D: Not reported to avoid disclosure of individual operations.

<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.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2001* (annual, [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>						
1998	745	2,810	24,200	9	2,050	2,679
1999	855	2,810	24,510	7	2,325	2,959
2000	735	3,235	25,180	7	2,060	2,719
2001	790	3,175	26,660	9	2,355	3,049
2002	805	2,690	29,055	10	2,685	3,424
<b>Maui/Molokai</b>						
1998	145	280	475	0	435	452
1999	154	325	605	0	415	436
2000	145	345	685	0	515	539
2001	150	425	730	0	565	592
2002	150	400	685	0	525	181

\* Less than 1/2 acre.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers and Nursery Products (annual, 2001)*, *Statistics of Hawaiian Agriculture (annual, 2000)*, available at [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	1998	1999	2000	2001 <sup>r</sup>	2002
Cut Flowers <sup>1</sup>	2,854	3,051	2,926	2,556	2,895
Orchids	D	999	1,027	1,111	981
Lei Flowers	D	D	D	D	D
Foliage <sup>3</sup>	D	628	543	D	D
Potted Flowering Plants	D	1,229	1,121	1,135	1,112
All Other Nursery Products <sup>4</sup>	5,763	3,589	3,976	4,866	5,533
Unspecified Sales <sup>5</sup>	334	355	325	230	230
<b>Total</b>	<b>8,951</b>	<b>9,851</b>	<b>9,918</b>	<b>9,898</b>	<b>10,751</b>

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

<sup>r</sup> Revised

<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. Beginning 1998, landscape foliage included with "all other nursery products."

<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.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers and Nursery Products (annual, 2002)*, *Statistics of Hawaiian Agriculture (annual, 2002)*, available at [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

## FRUITS: VALUE OF SALES, MAUI COUNTY

1,000 dollars (Fresh weight basis)

	Pineapples	Other	Total
<b>Maui/Molokai/Lanai</b>			
1993	24,890	779	25,669
1994	25,150	984	26,134
1995	24,775	1,031	25,806
1996	27,144	858	28,002
1997	28,295	1,136	29,431
1998	28,413	1,051	29,464
1999	28,325	1,056	29,381
2000	29,445 <sup>R</sup>	1,102	30,497
2001	27,115	921	28,036

<sup>R</sup> Revised

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2001* (annual, [http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm)).

### 5.1.12

## BANANAS, MAUI COUNTY

	1997	1998	1999	2000	2001
<b>Maui/Molokai/Lanai</b>					
Number of Farms	19	35	40	40	30
Acreage in crop <sup>1</sup>	75	85	85	75	85
Acreage harvested <sup>2</sup>	45	50	50	60	60
Yield per acre (1,000 lbs. harvested)	15.6	16.0	17.8	12.5	9.7
Fresh utilization (1,000 pounds)	700	800	890	750	580
Farm price (cents per pound)	54.5	55.0	56.0	60.0	58.0
Value of sales (\$1,000)	382	440	499	451	333

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture 2001* (annual, [http://www.nass.usda.gov/hi/stats/t\\_of\\_c.htm](http://www.nass.usda.gov/hi/stats/t_of_c.htm)).

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## 5.2.1

### COMMERCIAL MARINE LANDINGS, MAUI COUNTY

Year ended June 30

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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
1998	748,149	605,174	1,464,070
1999	725,445	555,477	1,562,511
2000	643,581	501,263	1,502,897
2001	573,566	431,781	1,336,420

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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	1998	1999	2000	2001
Aku	19,809	42,012	18,538	10,642
Bigeye	1,234	1,449	554	—
Yellowfin	33,108	41,447	18,508	29,136
Kawakawa	124	150	105	—
Tuna (misc.)	1,149	598	1,140	—
Blue Marlin	28,230	15,677	20,785	7,204
Striped Marlin	1,393	3,707	2,409	921
Sailfish	59	—	118	—
Shortbill Spearfish	567	2,947	1,345	336
Kahala	—	—	12	—
Kamanu	44	21	13	—
Keokeo	—	—	1	—
Mahimahi	32,634	44,480	37,528	42,905
Mako	—	410	—	—
Mano	824	255	100	—
Ono	8,403	7,785	7,143	9,014
Opelu	—	83	—	—
Uku	—	15	—	—
Other	1,058	119	169	—
<b>Total</b>	<b>128,636</b>	<b>161,155</b>	<b>108,468</b>	<b>100,158</b>
<b>Devices Available</b>	<b>15</b>	<b>16</b>	<b>15</b>	<b>16</b>

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.

### 5.2.3

## FAD CATCHES AND TRIP COUNT, MAUI COUNTY

FAD	Location	No. of Months Station On	Lbs. <sup>1</sup>	No. of Trips <sup>1</sup>	Lbs/ Trip
I	Halona Pt.	12.0	3,571	68	52.5
K	Palaoa	11.5	13,217	334	39.6
M	Hana Bay	12.0	4,780	47	101.7
N	Cape Halawa	9.8	D	D	D
O	Kalaupapa	2.2	D	D	D
Q	Pauwela Pt.	9.8	3,476	63	55.2
CC	Ka'ena Pt.	12.0	6,294	111	56.7
DD	Opana Pt.	12.0	7,588	175	43.4
FF	Pukaulua Pt.	8.3	9,005	61	147.6
HO	Ho'olawa Pt.	12.0	18,996	200	95.0
JJ	Kamohio	9.0	24,698	119	207.5
LA	Lahaina	12.0	3,128	309	19.8
MC	Palaoa	6.0	3,244	57	56.9
NL	Nu'u	12.0	3,117	36	86.6
T2	Kolo Harbor	12.0			
T3	Pala'au	12.0			
T6	Palaoa	12.0			

FAD: Fish Aggregating Device - are non-navigational buoys placed several miles offshore to attract fish.

D: Due to low level of fishermen reporting and to preserve confidentiality, data for these FADs are not listed

<sup>1</sup> Reported numbers are for trolling only.

Source: State of Hawaii, Department of Land and natural Resources, Division of Aquatic Resources, *Commercial Marine Landings, State of Hawaii*, fiscal year report 2001



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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 47,000 tons of cargo and mail passing through Kahului Airport and just under 3,500,000 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
2002	21,214 <sup>1</sup>		26,525	
2003	21,631		26,833	

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NOTE: 1994 to 1997 average year circulation calculated from quarterly averages. The Maui News started publishing a Saturday edition in 2001.  
<sup>1</sup> Monday through Saturday.

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

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### 6.1.2

## AVERAGE DISTRIBUTION OF OTHER NEWSPAPERS, MAUI COUNTY

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Haleakala Times	15,000	bi-monthly
Lahaina News	12,000	bi-weekly
Maui Weekly	32,000	weekly
The Lana'i Times	4,000	monthly
The Molokai Advertiser-News	3,000	weekly

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SOURCE: Maui Weekly, 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, 1997	2	2	2	1	3
Dec. 31, 1998	3	2	2	1	4
Dec. 31, 1999	3	2	2	1	2
Dec. 31, 2000	3	3	1	2	2
Dec. 31, 2001	3	3	1	2	2
Dec. 31, 2002	3	3	1	2	1
<b>Subscribers<sup>2</sup></b>					
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
Dec. 31, 2000	47,695	34,974	262,681	18,451	363,801
Dec. 31, 2001	48,422	36,436	264,871	18,675	368,424
Dec. 31, 2002	49,202	39,753	269,681	21,028	379,664
<b>Basic Service Revenue (\$1,000)</b>					
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
2000	14,409	13,717	78,158	6,547	112,831
2001	15,761	14,482	85,830	7,010	123,083
2002	16,809	15,016	91,301	7,549	130,675

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

<sup>2</sup> Hawaiian Cablevision has redefined multiunit as expressed by Federal rules.

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	5 <sup>1</sup>
FM	40	10
TV <sup>2</sup>	23	5
<b>Non-commercial Stations</b>		
AM	1	—
FM	8	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*

	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</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>	<b>107,449</b>	<b>145,548</b>
Gasoline	50,852	51,854	52,863	52,855	54,543	57,861	56,585	59,380
Diesel Oil, Non-highway	37,482	32,694	32,361	26,735	31,191	28,289	25,580	36,566
Diesel Oil, Highway Use	2,920	3,453	3,743	3,987	4,564	4,097	4,151	4,839
Liquid Petroleum Gas, Off Highway	547	569	609	560	602	634	590	167
Liquid Petroleum Gas, Highway Use	30	26	21	22	20	14	16	19
Small Boats, Gasoline								
Aviation Fuel	16,426	16,847	22,293	27,157	34,931	36,842	20,525	44,561

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections, Calendar Year Ending December 31, 2002" (annual release), and records.

## 6.2.2

### GASOLINE PRICES PER GALLON FOR HAWAII, AND HAWAII RANKING JULY 16, 2002

*Over 60,000 retail gasoline self-serve stations are surveyed daily. Prices are in cents per gallon. Rank of 1 indicates highest price per gallon. Rank is among 50 states and District of Columbia.*

	Regular	Mid	Premium	Diesel
Hawaii	1.717	1.815	1.849	2.017
Hawaii Rank	1	1	1	1
U. S. Average	1.396	1.482	1.535	1.364
Hawaii as percent of U.S. Average	123.0	122.5	120.5	147.9

Source: AAA's Daily Fuel Gauge Report© Copyright, Oil Price Information Service (<http://198.6.95.31/sbsavg.asp>) released and accessed July 16, 2002.

### 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	17.9
Wailuku-Lahaina, via Kahakuloa	38.0
Wailuku-Lahaina, via Olowalu	20.9
Kahului-Kihei	8.2
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*

	1995	1996	1997	1998	1999	2000	2001	2002
Drivers Licenses in Force (as of December 31)	79,639	80,988	82,217	84,980	87,550	90,964	93,595	97,045
All Vehicles	115,312	119,961	119,626	123,596	128,204	135,554	139,546	141,511
Motor Vehicles	112,529	117,214	116,878	120,818	125,404	132,636	136,473	138,058
Passenger vehicles <sup>1</sup>	86,889	91,067	90,573	93,912	97,565	103,329	105,879	106,384
Ambulances	12	12	10	11	13	13	12	12
Buses	440	405	328	328	342	324	308	291
Trucks <sup>1</sup>	23,026	23,610	23,935	24,474	25,268	26,690	27,868	28,696
Truck tractors	137	118	111	104	96	98	99	99
Truck cranes	89	86	79	74	72	68	62	62
Motorcycles <sup>2</sup>	1,936	1,916	1,842	1,915	2,048	2,114	2,245	2,514
Trailers and semi-trailers	2,783	2,747	2,748	2,778	2,800	2,918	3,073	3,453

<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>				
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	7,944.1	9,051
1996	426,370	482	8,005.9	9,050
1997	421,499	477	8,003.0	9,050
1998	422,928	473	8,090.2	9,055
1999	417,374	460	8,215.2	9,058
2000	428,425	455	8,525.7	9,058
2001	455,558	461	8,754.3	9,052
2002	477,518	484	8,937.3	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	1,010.1	8,977
1996	55,346	473	1,049.5	8,968
1997	53,771	461	1,046.0	8,963
1998	56,241	467	1,079.7	8,959
1999	59,560	477	1,119.5	8,958
2000	60,598	459	1,182.6	8,955
2001	61,922	456	1,216.9	8,956
2002	65,142	474	1,231.9	8,958

<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.

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

## 6.2.6

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

2001	Kahului	Honolulu International	Kona International (Keahole)	Lihue	Hilo International	Molokai
All Movements	160,324	327,006	107,793	103,655	96,238	43,806
Air Carrier	55,937	186,000	27,183	30,593	19,450	1,138
Air Taxi	69,635	37,676	10,926	55,586	42,426	26,890
General Aviation	31,816	86,283	55,094	12,230	25,077	12,532
Military	2,936	17,047	14,590	5,246	9,285	3,246

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

	1994	1995	1996	1997	1998	1999	2000	2001
<b>Kahului Airport</b>								
All Movements	179,227	179,883	178,590	173,342	180,890	188,385	174,855	160,324
Air Carrier	56,393	65,791	67,136	64,599	63,336	62,883	63,799	55,937
Air Taxi	85,373	80,349	78,722	81,105	84,546	92,569	77,779	69,635
General Aviation	33,292	30,691	29,976	25,211	29,509	29,575	29,983	31,816
Military	4,169	3,052	2,756	2,427	3,499	3,358	3,294	2,936
<b>Molokai Airport</b>								
All Movements	38,369	45,517	49,221	44,667	49,353	49,184	44,691	43,806
Air Carrier	1,443	1,194	1,003	1,017	1,163	1,469	1,484	1,138
Air Taxi	25,637	30,365	34,753	31,290	30,080	30,286	27,385	26,890
General Aviation	8,452	9,460	10,744	10,844	15,425	14,169	11,869	12,532
Military	2,833	4,498	2,721	1,516	2,685	3,260	3,953	3,246

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, *Airport Activity Statistics, Calendar Year 2001*.

## 6.2.8

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

Airport	1997		1998		1999		2000		2001	
	En-planed	De-planed	En-planed	De-planed	En-planed	De-planed	En-planed	De-planed	En-planed	De-planed
<b>Passengers</b>										
OGG										
interisl.	2,208,703	2,070,434	211,692	1,981,652	2,129,704	2,017,788	2,141,313	2,075,141	1,449,602	2,132,627
OGG										
overseas	770,110	828,364	837,015	910,058	854,706	969,881	965,586	1,009,205	1,067,849	1,079,015
MKK	125,471	126,766	124,917	127,675	132,540	137,212	124,670	128,838	106,898	108,740
LNY	88,777	89,626	88,035	88,584	88,598	87,043	80,761	80,644	72,714	72,822
JHM	88,485	89,444	72,573	72,355	68,336	66,966	61,128	60,187	47,609	47,781
HNM	5,126	4,955	4,877	4,605	4,184	3,909	3,779	3,533	2,933	2,781
LUP	4,393	4,232	4,546	4,408	4,150	3,996	1,148	1,007	1,295	1,252
<b>Cargo (U.S. Tons)</b>										
OGG										
interisl.	8,984	22,122	5,587	14,517	5,324	14,911	6,147	17,872	6,135	17,321
OGG										
overseas	6,988	5,772	6,804	5,179	6,945	5,937	7,390	6,688	7,919	5,511
MKK	263	710	319	888	441	967	485	847	486	836
LNY	154	721	136	717	112	665	76	642	73	612
JHM	236	482	237	489	277	360	273	316	278	304
HNM	1	0	4	0	42	11	25	10	51	16
LUP	1	6	8	153	15	174	12	190	15	170
<b>Mail (U.S. Tons)</b>										
OGG										
interisl.	2,195	4,643	2,199	7,643	2,263	7,592	2,089	7,575	1,977	7,176
OGG										
overseas	167	23	642	25	1,102	1	641	32	1,133	136
MKK	31	35	54	121	35	204	5	171	22	62
LNY	37	31	38	74	15	113	1	99	9	37
JHM	0	0	0	4	0	0	0	0	0	0
HNM	0	0	0	0	0	0	0	0	0	0
LUP	0	0	1	4	1	3	0	5	1	3

NOTE: Interisland traffic is intrastate 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, *Airport Activity Statistics, Calendar Year 2001*.

## 6.2.9

## KAHULUI HARBOR FREIGHT TRAFFIC BY COMMODITY

*In thousands of tons*

2001 Commodity	Grand Total	Foreign Imports	Foreign Exports	Domestic		
				Total	Receipts	Shipments
<b>Grand Total</b>	<b>3,965</b>	–	–	<b>3,539</b>	<b>2,257</b>	<b>1,281</b>
<b>Total Coal</b>						
1100 Coal Lignite	116	116	–	–	–	–
<b>Petroleum and Petroleum Products Total</b>	<b>516</b>	–	–	<b>516</b>	<b>515</b>	<b>1</b>
2211 Gasoline	190	–	–	190	189	1
2330 Distillate Fuel Oil	217	–	–	217	217	–
2340 Residual Fuel Oil	91	–	–	91	91	–
2350 Lube Oil & Greases	2	–	–	2	2	0
2640 Liquid Natural Gas	15	–	–	15	15	–
2990 Petro. Products NEC	1	–	–	1	1	–
<b>Chemicals and Related Products Total</b>	<b>34</b>	–	–	<b>34</b>	<b>34</b>	<b>0</b>
3110 Nitrogenous Fert.	3	–	–	3	3	–
3190 Fert. & Mixes NEC	25	–	–	25	25	–
3274 Sodium Hydroxide	1	–	–	1	1	–
3275 Inorg. Elem., Oxides, & Halogen Salts	0	–	–	0	0	–
3281 Radioactive Material	0	–	–	0	–	0
3282 Pigments & Paints	1	–	–	1	1	0
3284 Medicines	1	–	–	1	1	–
3285 Perfumes & Cleansers	1	–	–	1	1	0
3286 Plastics	2	–	–	2	2	–
3291 Pesticides	0	–	–	0	0	–
3293 Explosives	0	–	–	0	0	–
<b>Crude Materials, Inedible Except Fuels Total</b>	<b>171</b>	–	–	<b>171</b>	<b>140</b>	<b>30</b>
4189 Lumber	70	–	–	70	67	3
4190 Forest Products NEC	1	–	–	1	0	1
4225 Pulp & Waste Paper	5	–	–	5	0	5
4331 Sand & Gravel	79	–	–	79	59	20
4338 Soil & Fill Dirt	1	–	–	1	1	–
4420 Iron & Steel Scrap	14	–	–	14	12	1
4900 Non-Metal. Min. NEC	0	–	–	0	0	–
<b>Primary Manufactured Goods Total</b>	<b>1,872</b>	–	–	<b>1,830</b>	<b>1,036</b>	<b>794</b>
5110 Newsprint	2	–	–	2	2	–
5120 Paper & Paperboard	1	–	–	1	1	–
5190 Paper Products NEC	18	–	–	18	16	2
5220 Cement & Concrete	91	41	–	50	50	–
5240 Glass & Glass Prod.	1	–	–	1	1	–
5290 Misc. Mineral Prod.	20	–	–	20	20	–
5360 I&S Bars & Shapes	2	–	–	2	2	–
5370 I&S Pipe & Tube	3	–	–	3	3	–
5480 Fab. Metal Products	1,734	–	–	1,734	941	792
5540 Primary Wood Prod.	0	–	–	0	0	–



## 6.2.9

CONTINUED

2001 Commodity	Grand Total	Foreign Imports	Foreign Exports	Domestic		
				Total	Receipts	Shipments
<b>Food and Farm Products Total</b>	<b>467</b>	–	–	<b>467</b>	<b>189</b>	<b>278</b>
6134 Fish (Not Shellfish)	0	–	–	0	0	–
6442 Rice	3	–	–	3	3	–
6653 Vegetable Oils	0	–	–	0	0	–
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.	8	–	–	8	8	–
6811 Meat, Fresh, Frozen	6	–	–	6	6	0
6817 Meat, Prepared	0	–	–	0	0	–
6822 Dairy Products	1	–	–	1	1	–
6839 Animals & Prod. NEC	4	–	–	4	2	2
6857 Fruit & Nuts NEC	0	–	–	0	0	–
6858 Fruit Juices	96	–	–	96	1	95
6861 Sugar	105	–	–	105	0	105
6865 Molasses	69	–	–	69	–	69
6871 Coffee	0	–	–	0	0	0
6885 Alcoholic Beverages	22	–	–	22	22	0
6887 Groceries	14	–	–	14	14	–
6889 Food Products NEC	123	–	–	123	117	7
6899 Farm Products NEC	3	–	–	3	3	1
<b>Mfg'd Equipment, Machinery and Products Total</b>	<b>521</b>	–	–	<b>521</b>	<b>343</b>	<b>177</b>
7110 Machinery (Not Elec)	14	–	–	14	6	8
7120 Electrical Machinery	1	–	–	1	1	0
7210 Vehicles & Parts	246	–	–	246	151	96
7220 Aircraft & Parts	0	–	–	0	0	–
7230 Ships & Boats	0	–	–	0	0	0
7300 Ordnance & Access.	0	–	–	0	0	0
7400 Manufac. Wood Prod.	4	–	–	4	4	0
7500 Textile Products	1	–	–	1	1	0
7600 Rubber & Plastic Pr.	1	–	–	1	1	0
7900 Manufac. Prod. NEC	253	–	–	253	180	73
<b>Unknown or Not Elsewhere Classified Total</b>	<b>0</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) Revision 3 commodity codes. *Grand Total*: specifically represents the sum total of all the different traffics, including all domestic and foreign traffic. *Foreign Imports*: inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses originating in foreign countries other than Canada. *Canadian Imports*: inbound domestic merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses originating in Canada. *Domestic*: domestic traffic receiving a carriage over the ocean. *Receipts*: traffic moving from one location to another where the destination is the subject port. *Shipments*: traffic moving from one location to another where the origin is the subject port.

NEC: not elsewhere classified.

I&S: iron and steel.

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 2001.

## 6.2.10

### VESSEL ARRIVALS FOR KAHULUI HARBOR

*Excludes domestic fishing craft*

	1994	1995	1996	1997	1998	1999	2000	2001
<b>Total Inbound Vessels</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>1,453</b>	<b>1,595</b>
<b>By Type of Vessel</b>								
Self propelled vessels								
Passenger and dry cargo	35	27	35	22	45	55	54	69
Tanker	0	0	1	0	3	2	0	2
Towboat or tugboat	362	443	539	534	584	614	665	375
Non-self propelled vessels								
Dry cargo	736	687	676	615	618	656	624	744
Tanker	95	81	82	88	101	115	110	105
<b>By Draft</b>								
18 feet and less	1,202	1,211	1,280	1,061	1,152	1,160	1,198	1,305
19 feet and more	26	27	53	198	199	282	255	220

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 1994-2001.

## 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
2000	3,477
2001	3,695

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 1988-2000.

# 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. Hawaiian Commercial and Sugar sells excess electricity to Maui Electric Company, meeting about 10% of the power needs of Maui's homes and businesses.

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
Laser 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
MAGNUM Telescope <sup>2</sup>	2.0	2001	Monitor Galactic Distances	1
Faulkes Telescope <sup>3</sup>	2.0	2003	Education	n/a
GEODSS			Track deep space objects	
Primary	1	1982		
Secondary	1	1982		
Auxiliary	0.4	1982		

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

<sup>2</sup> MAGNUM = Multicolor Active Galactic Nuclei Monitoring

<sup>3</sup> Under Constuction

\* University of Hawaii

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

## 7.1.2

## ELECTRIC UTILITIES, MAUI COUNTY

	1998	1999	2000	2001	2002
<b>CUSTOMERS, DEC. 31</b>					
<i>Total</i>					
Maui Island	51,035	52,079	53,204	54,405	55,504
Molokai	2,870	2,911	2,903	2,926	2,960
Lanai	1,381	1,420	1,494	1,509	1,519
<b>Maui County</b>	<b>55,286</b>	<b>56,410</b>	<b>57,601</b>	<b>58,840</b>	<b>59,983</b>
<i>Residential<sup>1</sup></i>					
Maui Island	43,694	44,510	45,379	46,320	47,253
Molokai	2,338	2,364	2,351	2,381	2,416
Lanai	1,200	1,227	1,296	1,306	1,310
<b>Maui County</b>	<b>47,232</b>	<b>48,101</b>	<b>49,026</b>	<b>50,007</b>	<b>50,979</b>
<i>Other</i>					
Maui Island	7,341	7,569	7,825	8,085	8,251
Molokai	532	547	552	545	544
Lanai	181	193	198	203	209
<b>Maui County</b>	<b>8,054</b>	<b>8,309</b>	<b>8,575</b>	<b>8,833</b>	<b>9,004</b>
<b>GENERATING AND FIRM PURCHASED CAPABILITY, DEC. 31 (MW)</b>					
Maui Island	233.2	228.9	250.1	250.1	250.1
Molokai	12.1	12.1	12.1	12.1	12.0
Lanai	10.4	10.4	10.4	10.4	10.4
<b>Maui County</b>	<b>255.7</b>	<b>251.4</b>	<b>272.6</b>	<b>272.6</b>	<b>272.5</b>
<b>PEAK DEMAND (MW)<sup>2</sup></b>					
Maui Island	176.0	180.1	185.1	191.0	193.9
Molokai	6.6	7.0	6.5	6.5	6.6
Lanai	5.2	5.0	5.0	5.2	4.9
<b>POWER SOLD (1,000 kWh)</b>					
<i>Total</i>					
Maui Island	967,760	1,002,594	1,042,006	1,071,486	1,096,739
Molokai	34,710	35,576	36,349	35,681	34,942
Lanai	26,085	26,569	27,108	26,905	27,036
<b>Maui County</b>	<b>1,028,556</b>	<b>1,064,739</b>	<b>1,105,463</b>	<b>1,134,072</b>	<b>1,158,717</b>
<i>Residential</i>					
Maui Island	328,598	340,071	354,689	360,025	378,828
Molokai	12,567	12,551	12,687	12,348	12,439
Lanai	6,577	6,620	6,855	7,068	7,358
<b>Maui County</b>	<b>347,742</b>	<b>359,243</b>	<b>374,231</b>	<b>379,440</b>	<b>398,625</b>
<i>Other</i>					
Maui Island	639,162	662,523	687,317	711,462	717,911
Molokai	22,144	23,025	23,661	23,333	22,503
Lanai	19,508	19,949	20,253	19,838	19,678
<b>Maui County</b>	<b>680,814</b>	<b>705,496</b>	<b>731,232</b>	<b>754,633</b>	<b>760,092</b>

## 7.1.2

CONTINUED

	1998	1999	2000	2001	2002
<b>AVERAGE ANNUAL USE (kWh)<sup>3</sup></b>					
<i>Residential</i>					
Maui Island	7,520	7,640	7,816	7,773	8,017
Molokai	5,375	5,309	5,397	5,186	5,149
Lanai	5,481	5,396	5,289	5,412	5,617
<b>Maui County</b>	<b>7,362</b>	<b>7,469</b>	<b>7,633</b>	<b>7,588</b>	<b>7,819</b>
<i>Other</i>					
Maui Island	87,067	87,531	87,836	87,998	87,009
Molokai	41,623	42,093	42,865	42,814	41,366
Lanai	107,779	103,361	102,288	97,722	94,152
<b>Maui County</b>	<b>84,531</b>	<b>84,907</b>	<b>85,275</b>	<b>85,433</b>	<b>84,417</b>
<b>AVERAGE RATE (dollars per kWh)</b>					
<i>Residential</i>					
Maui Island	0.13956	0.15549	0.18232	0.18656	0.17119
Molokai	0.18328	0.19547	0.22787	0.23631	0.22173
Lanai	0.17967	0.19478	0.22184	0.24415	0.22445
<b>Maui County</b>	<b>0.14190</b>	<b>0.15761</b>	<b>0.18459</b>	<b>0.18925</b>	<b>0.17375</b>
<i>Other</i>					
Maui Island	0.12488	0.13866	0.16582	0.17125	0.15684
Molokai	0.17440	0.19053	0.22376	0.22841	0.21110
Lanai	0.18451	0.19737	0.22112	0.24555	0.22480
<b>Maui County</b>	<b>0.12820</b>	<b>0.14201</b>	<b>0.16922</b>	<b>0.17497</b>	<b>0.16020</b>
<b>Revenues (\$1,000)</b>					
<i>Total</i>					
Maui Island	125,677	144,741	178,638	189,003	177,446
Molokai	6,165	6,840	8,186	8,247	7,508
Lanai	4,781	5,227	5,999	6,597	6,075
<b>Maui County</b>	<b>136,623</b>	<b>156,808</b>	<b>192,823</b>	<b>203,847</b>	<b>191,030</b>
<i>Residential</i>					
Maui Island	45,860	52,878	64,668	67,166	64,851
Molokai	2,303	2,453	2,891	2,918	2,758
Lanai	1,182	1,290	1,521	1,726	1,652
<b>Maui County</b>	<b>49,345</b>	<b>56,621</b>	<b>69,080</b>	<b>71,809</b>	<b>69,260</b>
<i>Other</i>					
Maui Island	79,817	91,863	113,970	121,837	112,596
Molokai	3,862	4,387	5,294	5,330	4,750
Lanai	3,599	3,937	4,478	4,871	4,424
<b>Maui County</b>	<b>87,278</b>	<b>100,187</b>	<b>123,743</b>	<b>132,038</b>	<b>121,769</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, 1998-2002.

### 7.1.3

## GAS UTILITIES, MAUI COUNTY

*Excludes bottled gas*

	1998	1999	2000	2001	2002
<b>Island of Maui</b>					
<b>Customers (December 31)</b>					
Residential <sup>1</sup>	319	326	333	329	325
Other	77	79	78	79	75
Total	396	405	411	408	400
<b>Gas Sold (1,000 therms)</b>					
Residential	71	74	78	77	68
Other	682	813	805	786	771
Total	752	887	883	863	839
<b>Average Annual Use (therms)</b>					
Residential	221	228	233	234	210
Other	8,852	10,285	10,320	9,947	10,281
<b>Average Rate (\$ per therm)<sup>2</sup></b>					
Residential	2.15527	1.98769	2.10372	2.43086	2.71343
Other	1.21693	1.14251	1.23916	1.45250	1.36960
<b>Revenues (\$1,000)</b>					
Residential	152	148	163	187	185
Other	829	928	997	1,141	1,056
Total	982	1,076	1,161	1,329	1,241
<b>Island of Molokai<sup>3</sup></b>					
<b>Customers (December 31)</b>					
Total/Residential	96	92	78	71	80
<b>Gas Sold (1,000 therms)</b>					
Total/Residential	20	19	17	15	14
<b>Average Annual Use (therms)</b>					
Total/Residential	205	206	220	205	117
<b>Average Rate (\$ per therm)</b>					
Total/Residential	2.31461	2.23825	2.33821	2.62590	2.84208
<b>Revenues (\$1,000)</b>					
Total/Residential	46	42	40	38	40

<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> Based on number of customers at end of year.

<sup>3</sup> All Molokai customers are residential.

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



## 7.1.4

## HAWAII STATE ENERGY REPORT, ENERGY CONSUMPTION ESTIMATES BY SOURCE

*In billion BTU*

	1995	1996	1997	1998	1999	2000
Asphalt and road oil	2,906.9	2,663.4	2,629.6	2,138.0	2,340.3	4,009.3
Aviation gasoline	1,099.8	833.0	608.8	540.3	293.6	226.3
Distillate fuel	29,226.6	25,736.6	24,973.5	25,298.4	26,252.0	26,439.5
Kerosene-type jet fuel	56,283.6	57,171.9	57,921.6	56,643.3	53,720.0	53,510.8
Naphtha-type jet fuel	74.0	22.0	9.0	0.0	0.0	0.0
Kerosene	2.9	3.0	2.8	1.5	0.9	1.4
Liquified petroleum gasses	4,769.6	4,766.4	870.3	3,050.5	1,358.0	2,027.4
Lubricants	557.7	541.2	571.7	598.5	604.8	595.7
Motor gasoline	49,103.4	48,892.3	48,781.1	48,692.3	46,653.8	48,397.8
Residual fuel	77,631.9	65,253.6	62,112.4	69,319.4	69,910.5	75,291.2
Other petroleum products <sup>1</sup>	13,052.7	15,488.5	15,257.4	12,595.3	12,615.2	11,806.6
<b>Subtotal petroleum products</b>	<b>234,709.2</b>	<b>221,371.8</b>	<b>213,738.2</b>	<b>218,877.5</b>	<b>213,749.1</b>	<b>222,305.9</b>
Geothermal energy	4,992.4	5,120.0	4,683.3	4,983.0	4,437.1	5,515.6
Solar thermal and photovoltaic energy	1,205.2	1,255.0	1,273.0	1,317.7	1,349.5	1,367.6
Wind energy	91.2	123.7	206.2	199.5	170.6	173.4
<b>Subtotal geothermal, solar thermal, photovoltaic and wind energy</b>	<b>6,288.8</b>	<b>6,498.6</b>	<b>6,162.4</b>	<b>6,500.2</b>	<b>5,957.2</b>	<b>7,056.6</b>
Coal	19,914.4 <sup>r</sup>	20,368.5 <sup>r</sup>	20,040.3 <sup>r</sup>	18,706.7 <sup>r</sup>	17,691.3 <sup>r</sup>	17,661.0
Hydroelectric power	1,008.6	1,082.6	1,194.5	1,254.7	1,216.3	1,055.4
Natural gas	2,906.1	2,824.3	2,688.3	2,803.7	2,886.5	2,975.0
Wood and waste	8,008.9	15,996.8	14,779.2	13,301.8	14,571.1	13,782.2
<b>Total energy consumption</b>	<b>257,041.0</b>	<b>251,411.7</b>	<b>241,824.9</b>	<b>246,585.5</b>	<b>241,444.5</b>	<b>264,836.0</b>

NOTE: Totals may not equal sum of components due to independent rounding.

<sup>1</sup> Other petroleum products are aviation gasoline blending components, motor gasoline blending components, petroleum coke, still gas, unfinished oils, and petroleum waxes.

r: Revised

SOURCE: U.S. Department of Energy, Energy Information Administration, Combined State Energy Data System 2000.

7.1.5

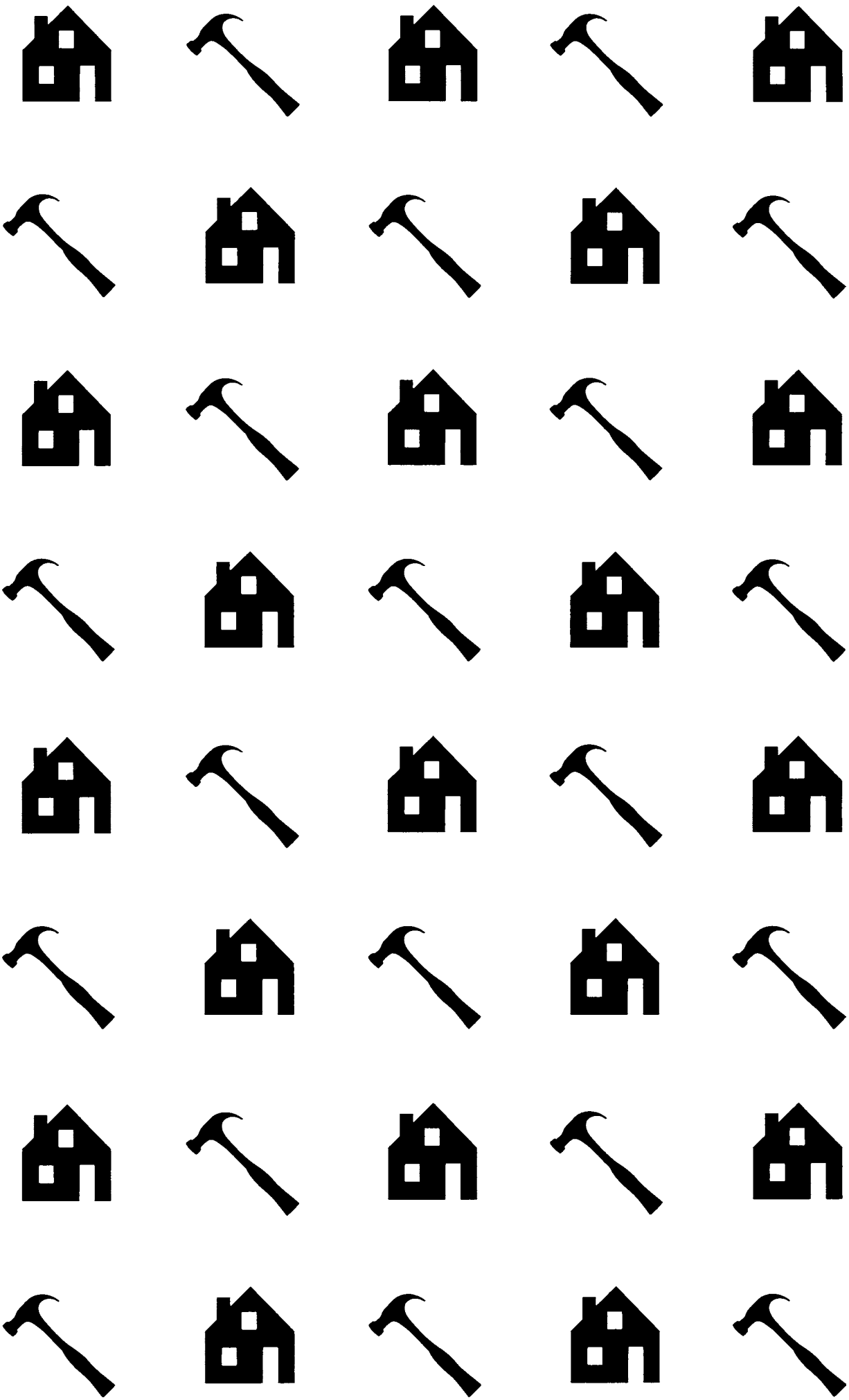
**WATER SERVICES AND CONSUMPTION, MAUI COUNTY**

Years ending June 30

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	<b>NUMBER OF SERVICES</b>										
State Total	216,001	219,596	222,569	226,998	229,989	230,952	233,043	235,799	238,665	242,092	245,397
Maui County	25,408	26,522	27,021	27,460	27,918	28,306	28,720	29,333	29,750	30,414	31,021
Maui	23,957	25,042	25,531	25,960	26,409	26,795	27,205	27,809	28,217	28,872	29,451
Molokai	1,451	1,480	1,490	1,500	1,509	1,511	1,515	1,524	1,533	1,542	1,570
	<b>CONSUMPTION (million gallons)</b>										
State Total	74,118	73,338	73,732	74,990	75,389	71,810	73,301	76,631	76,401	78,748	77,868
Maui County	10,399	10,311	11,177	11,494	11,477	11,485	11,729	12,547	12,719	12,883	12,312
Maui	10,071	9,990	10,822	11,150	11,138	11,110	11,399	12,199	12,388	12,546	11,997
Molokai	328	321	355	344	339	330	369	348	331	337	315

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.

There are approximately 56,000 housing units on Maui of which around 25,000 (44%) are owner-occupied. In 2002, 1,915 building permits were issued.

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### 8.1.1

## NUMBER AND VALUE OF BUILDING PERMITS, MAUI COUNTY

*Ending December 31*

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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
2001	2,456	342,339
2002	1,915	273,716

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SOURCE: Maui County Department of Public Works, records.

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### 8.1.2

## VALUE OF BUILDING PERMITS BY TYPE, MAUI COUNTY

*(In thousands of dollars)*

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Category	2000	2001	2002
Residential	196,310	186,548	186,622
Hotel	12,830	34,000	0
Non-residential	62,325	52,619	38,384
Additions and alterations	83,894	39,570	48,710
<b>Total</b>	<b>355,360</b>	<b>312,737</b>	<b>273,716</b>

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SOURCE: Compiled monthly from county building departments by the Hawaii State Department of Business, Economic Development & Tourism.

### 8.1.3

## PRIVATE RESIDENTIAL CONSTRUCTION AUTHORIZATIONS, MAUI COUNTY

	1998	1999	2000	2001	2002
<b>Authorized Housing Units</b>					
New single-family units	574	647	904	778	787
New multi-family unit	67	247	239	277	397
<b>Total</b>	<b>641</b>	<b>894</b>	<b>1,143</b>	<b>1,055</b>	<b>1,184</b>
<b>Permit Value (\$)</b>					
New single-family units	82,706,434	107,531,515	158,200,160	120,382,575	161,781,500
New multi-family units	8,441,176	15,157,463	50,656,320	19,974,528	24,705,968
<b>Total</b>	<b>91,147,610</b>	<b>122,688,978</b>	<b>208,856,480</b>	<b>140,357,103</b>	<b>186,487,468</b>

SOURCE: U.S. Bureau of the Census, Monthly New Privately-Owned Residential Building Permits, Maui County, 1998-2002. [Http://censtats.census.gov/bldg/bldgprmt.shtml](http://censtats.census.gov/bldg/bldgprmt.shtml).

### 8.1.4

## 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>
1996	608	7	16	109
1997	574	2r	147r	40
1998	563	38r	40r	42
1999	650	42r	218r	86
2000	842	24r	245r	37
2001	767	28	253	43r
2002	807	36	371	34

r: Revised.

SOURCE: Compiled from county building departments by the Hawaii State Department of Business, Economic Development & Tourism using monthly reports and annual surveys.

### 8.1.5

## RESIDENTIAL CONSTRUCTION PROJECTS, MAUI COUNTY

Project	Building Permit Value	Description	Completion Date
Na Hale O Makena	30,000,000	Six 3 and 4 Story Buildings	Dec. 2002
Villas at Kenolio	29,250,000	140 Units, 16 Buildings	Jun. 2004
Napili Villas	21,000,000	Townhouses and Condos	Aug. 2003
Kenolio Ranch Estates	15,171,725	51 Single-family Residences	Dec. 2002
Napili Villas	10,457,000	Townhouses	Jun. 2002
Residence	289,000	New Home	Jun. 2002
Residence	271,000	New Home	Nov. 2002
Residence	230,000	New Home	Mar. 2002

SOURCE: "Residential Construction Projects," Pacific Business News, *Book of Lists 2003*.

### 8.1.6

## COMMERCIAL CONSTRUCTION PROJECTS, MAUI COUNTY

Project	Building Permit Value	Description	Completion Date
Kamehameha Schools	70,000,000	New High School	Aug. 2002
Kamehameha Schools	39,900,000	New Middle School	Aug. 2002
Maui Community College	14,340,000	Culinary Arts Building	Feb. 2002
Kahului Airport	10,000,000	General Improvements	Pending
Aston Kaanapali Shores	3,576,366	Renovations	Jan. 2002
Nisei Veterans Memorial Center	3,000,000	War Memorial	Fall 2002
King Kam III Elm School	1,697,555	Air Conditioning & Mech. Equip. Rooms	Dec. 2002
Waihee Elm School	1,400,000	Library Building & landscaping	May 2002
Maui Waena Inter. School	1,208,685	Administration Building	Apr. 2003
Hoapili Hale	1,200,000	Various repairs	Oct. 2002
Lahainaluna High School	1,125,555	Renovations	Sep. 2002
Haiku Elm School	775,300	Various repairs	Jul. 2002
T&T Office Building	720,000	Office Building & Warehouse	Dec. 2002

SOURCE: "Commercial Construction Projects," Pacific Business News, *Book of Lists 2003*.

### 8.1.7

## PLANNED ADDITIONS TO AND SUBTRACTIONS FROM MAUI VISITOR INDUSTRY PLANT SUPPLY 2002

Name of Facility	Planned Type	Planned Units	Notes
Kaanapali Ocean Resort	Timeshare	280	Project under construction by Starwood Hotels
Kahului Airport Hotel	Hotel	140	Community Plan Amendment, Change in Zoning received from the Council in March 2002. SMA Permit approved by Maui Planning Commission in April 2002. Lead partner: A&B Properties, Inc.
Maui Marriott (Maui Ocean Club)	Timeshare	341	Planned conversion of 720 rooms to 341 timeshare units; construction on subsequent phases occurring during the off season (June - early November).
Maui Palms Redevelopment	Hotel	136	SMA Permit issued in January 2002. Maui Palms wing would be linked to the adjacent Maui Beach Hotel. Developer: Elleair Hawaii.

Source: Hawaii State Department of Business, Economic Development & Tourism, Research and Economic Analysis Division, 2002 Visitor Plant Inventory, Table 10.

### 8.1.8

## AVERAGE WEEKLY WAGES FOR CONSTRUCTION INDUSTRIES, MAUI COUNTY

Industry	Number of Establishments	Average Employment	Total Wages	Average Weekly Wages
Construction	476	3,151	2,260,609	807.00
Construction of Buildings	158	1,011	42,291,509	804.00
Residential Building Construction	126	671	25,539,297	732.00
Nonresidential Building Construction	32	340	16,752,212	948.00
Heavy and Civil Engineering Construction	44	585	28,286,134	930.00
Specialty Trade Contractors	274	1,555	61,682,966	763.00
Building Foundation/Exterior Contractors	55	300	12,103,963	776.00
Building Equipment Contractors	94	571	23,246,817	783.00
Building Finishing Contractors	82	369	15,066,708	785.00
Other Specialty Trade Contractors	43	314	11,265,478	690.00

SOURCE: State of Hawaii, Department of Labor and Industrial Relations, Research and Statistics Office.



## 8.1.9

## CONSTRUCTION ESTABLISHMENTS BY TYPE AND LOCATION, MAUI COUNTY

*Based on primary North American Industry Classification System (NAICS) code and zip code*

Establishment Type		Location / Number		Location / Number		Location / Number		Totals	
<b>Land subdivision &amp; land development (NAICS 2331—)</b>									
	Kahului	1	Makawao	2	Wailuku	1			
	Lahaina	2					Total		6
<b>Residential building construction (NAICS 2332—)</b>									
	Haiku	17	Hana	1	Kahului	5			
	Kihei	18	Kula	13	Lahaina	12			
	Makawao	18	Paia	3	Wailuku	9	Maui subtotal		96
	Kaunakakai	1	Kualapuu	1	Lanai City	2	Total		100
<b>Nonresidential building construction (NAICS 2333—)</b>									
	Haiku	2	Kahului	6	Kihei	6			
	Wailuku	7	Lahaina	1	Makawao	3	Maui subtotal		25
	Lanai City	1					Total		26
<b>Heavy construction (NAICS 234—)</b>									
	Kahului	8	Kihei	2	Kula	1			
	Lahaina	1	Wailuku	3			Total		15
<b>Plumbing, heating &amp; AC contractors (NAICS 2351—)</b>									
	Haiku	2	Kahului	14	Kihei	12			
	Kula	3	Lahaina	4	Makawao	3	Total		41
	Wailuku	3							
<b>Painting &amp; wall covering contractors (NAICS 2352—)</b>									
	Haiku	1	Kahului	1	Kihei	8			
	Kula	4	Lahaina	2	Makawao	2			
	Wailuku	4	Paia	1			Total		23
<b>Electrical contractors (NAICS 2353—)</b>									
	Kahului	8	Kihei	7	Kula	1			
	Lahaina	4	Makawao	6	Paia	1			
	Wailuku	8	Kaunakakai	1			Maui subtotal		35
	Hoolehua	1					Total		37
<b>Masonry, drywall, insulation, tile contractors (NAICS 2354—)</b>									
	Haiku	4	Kahului	4	Kihei	6			
	Kula	7	Lahaina	4	Makawao	6			
	Wailuku	8					Total		39
<b>Carpentry &amp; floor contractors (NAICS 2355—)</b>									
	Haiku	2	Kahului	3	Kihei	11			
	Kula	3	Makawao	5	Wailuku	3	Maui subtotal		28
	Kaunakakai	1	Lahaina	1			Total		29
<b>Roofing, Siding, &amp; Shett metal contractors (NAICS 2356--)</b>									
	Haiku	1	Kahului	2	Kihei	4			
	Makawao	4	Wailuku	3	Lahaina	1	Total		15
<b>Excavation contractors (NAICS 235930)</b>									
	Kahului	3	Kihei	2	Kula	1			
	Makawao	1					Total		7
<b>Other special trade contractors (NAICS 2356—, 57—, 58—, 59— except 235930)</b>									
	Haiku	2	Kahului	12	Kihei	6			
	Kula	1	Lahaina	4	Makawao	4			
	Wailuku	7	Paia	1			Total		37
							<b>Grand Total</b>		<b>375</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 2001*, on CD-ROM.

## 8.1.10

### ESTIMATED VALUE OF LAND TRANSACTIONS, BY COUNTIES

*In thousands of dollars*

Year	Maui County	Hawaii County	Kauai County	City and County of Honolulu	State Total
1970	76,462	111,239	24,522	668,003	880,226
1971	71,480	131,267	28,247	812,545	1,043,539
1972	114,634	170,995	80,274	1,142,699	1,508,602
1973	189,958	212,170	85,687	1,441,073	1,928,888
1974	183,760	156,682	65,518	1,305,257	1,711,217
1975	194,478	138,289	47,790	1,064,559	1,445,116
1976	222,214	141,779	56,088	1,312,981	1,733,062
1977	384,122	209,366	87,570	1,471,172	2,152,230
1978	581,485	288,886	162,725	2,017,774	3,050,870
1979	643,711	545,192	277,753	3,009,059	4,475,715
1980	611,607	546,141	317,869	2,749,190	4,224,807
1981	424,994	397,740	298,858	2,078,739	3,200,331
1982	602,464	293,310	203,575	1,911,711	3,011,060
1983	423,712	359,695	154,878	2,333,882	3,272,167
1984	610,385	467,052	137,773	2,549,352	3,764,563
1985	562,563	359,835	274,002	2,581,678	3,778,078
1986	1,080,487	620,157	326,870	4,182,294	5,911,973
1987	1,169,182	641,667	388,442	4,820,850	7,020,141
1988	1,344,818	971,541	446,136	6,705,645	9,468,113
1989	2,446,997	1,671,483	669,875	8,514,926	13,303,281
1990	2,046,874	2,893,086	558,462	8,764,532	14,262,954
1991	1,028,857	983,728	676,826	4,793,933	7,483,344
1992	1,027,394	886,726	345,950	5,590,377	7,850,447
1993	1,753,255	1,345,225	551,138	8,621,058	12,270,676
1994	1,441,528	1,120,254	677,991	7,461,624	10,701,398
1995	847,727	849,799	261,990	4,465,410	6,424,925
1996	990,129	786,192	376,776	3,640,154	5,793,252
1997	1,057,281	851,136	347,399	4,042,187	6,298,003
1998	1,971,082	1,066,148	499,285	3,904,127	7,440,642
1999	1,683,688	1,201,547	589,624	4,836,187	8,311,047
2000	2,316,618	1,548,501	685,700	5,138,547	9,689,367
2001	2,131,623	1,786,101	802,516	5,447,028	10,167,267
2002	2,164,631	2,053,321	810,053	5,783,195	10,811,198

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

## 8.2.1

## SUMMARY HOUSING CHARACTERISTICS BY COUNTIES, 2000

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

Characteristic	State Total	Hawaii	Honolulu	Kauai	Maui <sup>1</sup>
<b>All housing units</b>	<b>460,542</b>	<b>62,674</b>	<b>315,988</b>	<b>25,331</b>	<b>56,549</b>
Percent—					
Structure built 1990-2000	18.1	26	14.6	29.4	23.8
Structure built before 1940	4.7	6.7	4.4	5.3	4.1
Lacking complete plumbing	1	2.7	0.6	0.9	1
Lacking complete kitchen facilities	1.4	3	1.2	1.6	1.1
Percent with no telephone service <sup>2</sup>	2	3.3	1.7	2.2	2.4
Median number of rooms	4.3	4.6	4.3	4.6	3/ 4.0
All occupied units	403,240	52,985	286,450	20,183	43,622
Percent householder moved into unit					
1999 to March 2000	20.2	19.7	20.1	17.7	22.2
Before 1980	22.6	20.1	23.8	21.7	17.8
Percent of units with occupants per room of 1.51 or more	7.8	5.7	8.2	5.4	8.2
Specified owner-occupied units	173,861	29,914	113,155	10,839	19,953
Median value (dollars)	272,700	153,700	309,000	216,100	249,900
With a mortgage	122,128	19,167	81,606	7,224	14,131
Median monthly costs (dollars)	1,571	1,133	1,653	1,375	1,572
Monthly costs were 35 percent or more of household income	38,510	5,970	24,904	2,435	5,201
Not mortgaged	51,733	10,747	31,549	3,615	5,822
Median monthly costs (dollars)	271	212	289	269	260
Specified renter-occupied units	174,458	18,382	129,907	7,735	18,434
Median gross rent (dollars)	779	645	802	739	788 <sup>3</sup>
Rent was 35 percent or more of household income	50,848	5,637	37,543	2,320	5,348

<sup>1</sup> Includes Kalawao County (172 housing units), not shown separately.

<sup>2</sup> Telephone service not available in the unit from which calls could be made and received. This includes cellular telephones.

<sup>3</sup> Maui County, not including Kalawao County. Median number of rooms for Kalawao County was 2.0. Median gross rent for Kalawao County was \$788. No median available for combined area of Maui and Kalawao County.

SOURCE: U.S. Census Bureau, *Census 2000 Summary File 3 "Table DP-4. Profile of Selected Housing Characteristics: 2000"* (May 2002). (<http://www.census.gov/Press-Release/www/2002/demoprofiles.html>) accessed June 19, 2002.

## 8.2.2

# SELECTED HOUSING CHARACTERISTICS, MAUI COUNTY

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

2000	Maui County	Kalawao County
<b>All Housing Units</b>	<b>56,377</b>	<b>172</b>
Units in Structure		
1 unit, detached	31,593	125
1 unit, attached	3,497	0
2 to 4 units	2,887	21
5 to 9 units	7,191	13
10 or more units	11,058	13
Mobile home, boat, other	151	0
Median Number of Rooms	4.0	2.0
<b>Occupied Housing Units</b>		
Total	43,507	115
With 1.01 or more persons per room	7,166	0
<b>Vacant Housing Units</b>		
Total	12,870	57
For seasonal, recreational, or occasional use	9,746	31
Percent of all vacant units	75.7	54.4
Homeowner Vacancy Rate	1.2	100.0
Rental Vacancy Rate	7.2	0.0
<b>Owner-Occupied Housing Units</b>		
Total	25,039	0
Percent of All Occupied Units	57.6	0.0
Average Household Size	3.13	0.00
<b>Value of Specified Owner-Occupied Housing Units<sup>1</sup></b>		
Total	19,953	0
Less than \$100,000	794	0
\$100,000 to \$199,999	5,292	0
\$200,000 to \$299,999	7,455	0
\$300,000 to \$499,999	4,348	0
\$500,000 to \$999,999	1,511	0
\$1,000,000 or more	553	0
Median (dollars)	249,900	0
<b>Renter-Occupied Housing Units</b>		
Total	18,468	115
Average Household Size	2.62	1.28
<b>Gross Rent of Specified Renter-Occupied Units<sup>2</sup></b>		
Total	18,319	115
Less than \$300	1,055	13
\$300 to \$499	1,754	0
\$500 to \$749	4,829	25
\$750 to \$999	5,267	0
\$1,000 to \$1,499	3,109	0
\$1,500 or more	971	0
No cash rent	1,334	77
Median (dollars)	788	525

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

<sup>2</sup> Includes utilities if paid by renter; excludes one-family, attached and detached houses on 10 acres or more.

SOURCE: U.S. Bureau of the Census, *Census 2000 Profile of General Demographic Characteristics, Hawaii (DP-1)* and *Profile of Selected Housing Characteristics, Hawaii (DP-4)*.

## 8.2.3

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

2000	ALL HOUSING UNITS		OCCUPIED HOUSING UNITS	
	Total	Median Number of Rooms	Total	More than One Person per Room
<b>Maui County</b>	<b>56,377</b>	<b>4.0</b>	<b>43,507</b>	<b>7,166</b>
<b>Kalawao County (Kalaupapa)</b>	<b>172</b>	<b>2.0</b>	<b>115</b>	<b>0</b>
<b>Maui Island</b>				
Haiku-Pauwela CDP	2,455	4.6	2,311	313
Haliimaile CDP	260	4.9	254	45
Hana CDP	239	3.5	184	63
Kaanapali CDP	1,770	3.4	550	2
Kahului CDP	6,044	4.0	5,861	1,464
Kapalua CDP	844	3.5	169	22
Kihei CDP	9,401	3.5	6,178	924
Lahaina CDP	3,056	4.3	2,631	642
Maalaea CDP	599	3.5	261	7
Makawao CDP	2,218	4.5	2,154	288
Napili-Honokowai CDP	4,673	3.1	2,624	411
Paia CDP	891	4.7	784	107
Pukalani CDP	2,543	5.0	2,463	365
Waihee-Waiehu CDP	1,889	5.0	1,864	448
Waikapu CDP	360	5.3	351	46
Wailea-Makena CDP	4,871	4.0	2,510	147
Wailuku CDP	4,820	4.4	4,556	691
<b>Molokai</b>				
Kalawao County (Kalaupapa)	172	2.0	115	0
Kaunakakai CDP	962	4.2	872	209
Kualapuu CDP	591	4.8	568	145
Maunaloa CDP	88	4.7	62	17
<b>Lanai</b>				
Lanai City CDP	1,354	3.9	1,161	269

SOURCE: U.S. Bureau of the Census, *Census 2000 Profile of Selected Housing Characteristics, Hawaii (DP-4)*.

## 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* (DP-1).

## 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* (DP-1).

## 8.2.6

## OWNER-OCCUPIED HOUSING UNIT VALUES BY CENSUS DESIGNATED PLACE (CDP), MAUI COUNTY

2000	SPECIFIED OWNER-OCCUPIED HOUSING UNITS						
	Total	Less than \$100,000	\$100,000 to \$199,000	\$200,000 to \$299,000	\$300,000 to \$499,000	\$500,000 to \$999,000	\$1,000,000 or more
<b>Maui County</b>	<b>19,953</b>	<b>794</b>	<b>5,292</b>	<b>7,455</b>	<b>4,348</b>	<b>1,511</b>	<b>553</b>
<b>Kalawao County (Kalaupapa)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Maui Island</b>							
Haiku-Pauwela CDP	1,171	20	234	329	368	210	10
Haliimaile CDP	169	12	74	73	10	0	0
Hana CDP	126	12	41	41	21	7	4
Kaanapali CDP	190	0	7	11	21	112	39
Kahului CDP	2,827	41	977	1,444	359	6	0
Kapalua CDP	49	2	3	6	12	3	23
Kihei CDP	1,755	23	396	912	348	8	68
Lahaina CDP	1,331	37	249	641	278	67	59
Maalaea CDP	13	0	3	3	0	3	4
Makawao CDP	1,117	36	327	513	197	40	4
Napili-Honokowai CDP	631	0	38	311	199	50	33
Paia CDP	477	14	204	167	41	32	19
Pukalani CDP	1,483	38	222	789	423	11	0
Waihee-Waiehu CDP	1,433	31	615	567	190	22	8
Waikapu CDP	258	9	71	131	45	2	0
Wailea-Makena CDP	855	0	27	131	251	351	95
Wailuku CDP	2,070	109	568	711	530	124	28
<b>Molokai</b>							
Kalawao County (Kalaupapa)	0	0	0	0	0	0	0
Kaunakakai CDP	493	59	353	67	9	5	0
Kualapuu CDP	340	126	158	29	14	9	4
Maunaloa CDP	7	2	5	0	0	0	0
<b>Lanai</b>							
Lanai City CDP	547	114	339	63	14	9	8

SOURCE: U.S. Bureau of the Census, *Census 2000 Profile of Selected Housing Characteristics, Hawaii (DP-4)*.



## 8.2.7

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

2000 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 August 30, 2002. 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

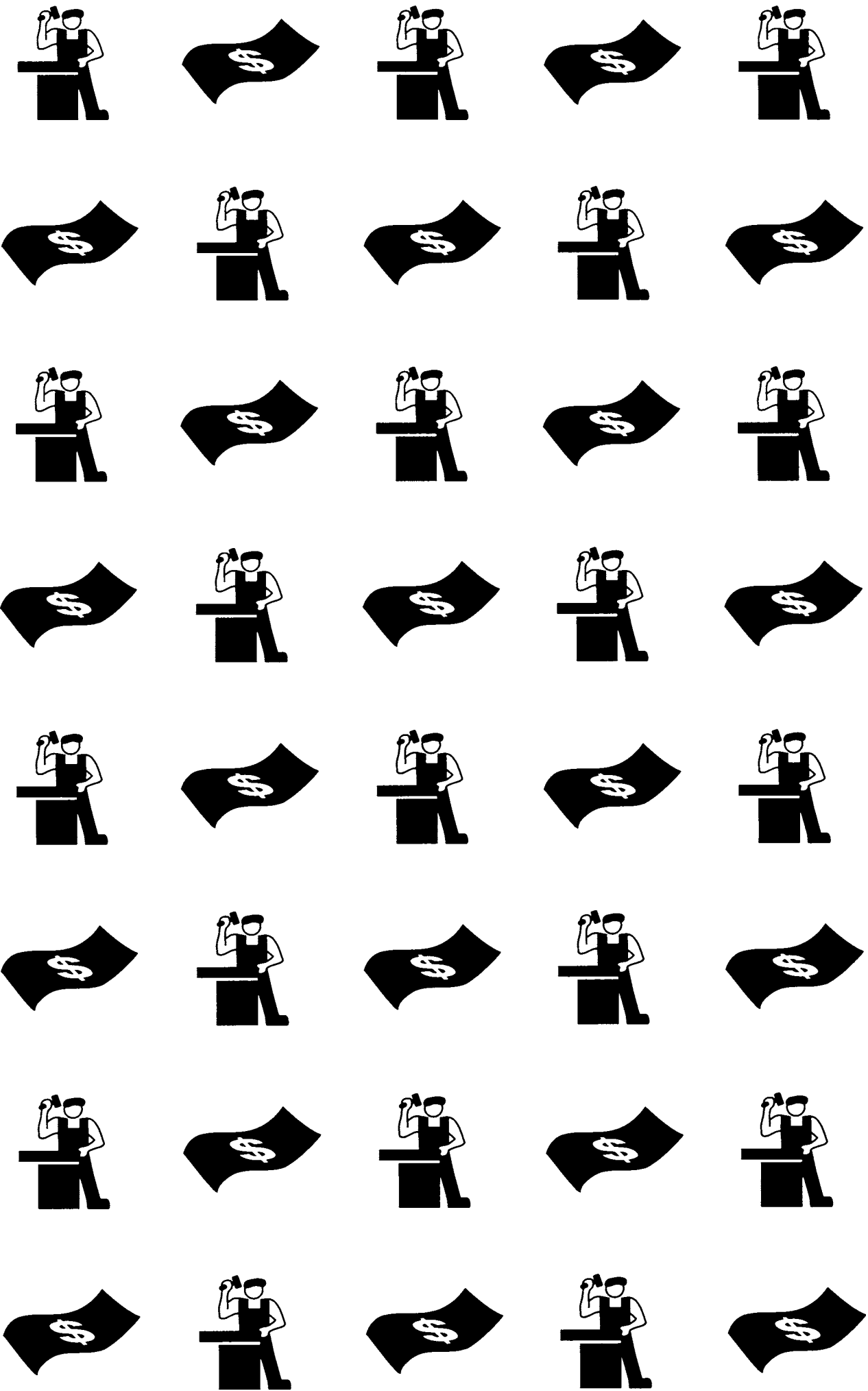
## GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY CENSUS DESIGNATED PLACE (CDP), MAUI COUNTY

2000	SPECIFIED RENTER-OCCUPIED HOUSING UNITS PAYING CASH RENT						
	Total	Less than \$300 <sup>1</sup>	\$300 to \$499	\$500 to \$749	\$750 to \$999	\$1,000 to \$1,499	\$1,500 or more
<b>Maui County</b>	<b>18,319</b>	<b>2,389</b>	<b>1,754</b>	<b>4,829</b>	<b>5,267</b>	<b>3,109</b>	<b>971</b>
<b>Kalawao County (Kalaupapa)</b>	<b>115</b>	<b>90</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Maui Island</b>							
Haiku-Pauwela CDP	917	139	46	219	334	144	35
Haliimaile CDP	74	16	15	7	17	17	2
Hana CDP	49	8	8	23	5	3	2
Kaanapali CDP	149	15	0	3	0	26	105
Kahului CDP	2,672	502	358	1,008	480	297	27
Kapalua CDP	52	2	3	13	6	13	15
Kihei CDP	3,142	162	188	874	1,190	632	96
Lahaina CDP	1,190	142	130	207	371	237	103
Maalaea CDP	144	20	0	23	59	39	3
Makawao CDP	959	134	84	174	341	163	63
Napili-Honokowai CDP	1,490	109	62	321	656	260	82
Paia CDP	265	27	28	79	46	68	17
Pukalani CDP	850	64	21	202	230	251	82
Waihee-Waiehu CDP	331	129	20	63	52	37	30
Waikapu CDP	73	5	9	28	21	10	0
Wailea-Makena CDP	1,127	103	9	164	430	279	142
Wailuku CDP	1,877	231	227	811	374	197	37
<b>Molokai</b>							
Kalawao County (Kalaupapa)	115	90	0	25	0	0	0
Kaunakakai CDP	337	107	69	86	65	10	0
Kualapuu CDP	115	41	10	37	21	6	0
Maunaloa CDP	55	3	9	33	7	3	0
<b>Lanai</b>							
Lanai City CDP	584	119	270	109	69	17	0

<sup>1</sup> Includes no cash rent.

SOURCE: U.S. Bureau of the Census, *Census 2000 Profile of Selected Housing Characteristics, Hawaii* (DP-4).

# 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 2002 was 71,500 and the number of employed was 68,350. The unemployment rate decreased 0.290% between 2001 and 2002.

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

### 9.1.1

## FINANCIAL INSTITUTIONS WITH LOCATIONS IN MAUI COUNTY

*As of December 31, 2002*

	Maui	Molokai	Lanai
Banks			
Firms	5	1	2
Locations	24	1	2
Savings and Loans Associations			
Associations	2	1	–
Locations	10	1	–
Financial Services Loan Companies (depository and non-depository)			
Firms	7	1	–
Locations	10	1	–
Escrow Depository Companies			
Firms	7	–	–
Locations	15	–	–

SOURCE: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, *2002 Annual Report*.

### 9.1.2

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

*In thousands of dollars*

Location	TOTAL DEPOSITS AS OF JUNE 30					
	1997	1998	1999	2000	2001	2002
Hana	2,744	2,707	2,833	3,281	3,340	3,995
Kahului	501,977	510,333	507,291	531,188	543,692	586,703
Kihei	147,638	160,858	170,478	140,741	219,287	226,882
Lahaina	204,676	217,163	232,856	267,538	264,335	276,877
Pukalani	89,515	96,238	102,084	111,115	119,224	125,990
Paia	20,017	21,649	23,666	25,630	28,011	30,576
Wailuku	206,596	205,942	230,293	219,754	224,091	219,942
Kaunakakai	45,018	48,378	49,609	49,474	50,446	49,839
Lanai City	24,502	23,382	23,411	24,368	25,276	26,214
<b>Total</b>	<b>1,242,683</b>	<b>1,286,650</b>	<b>1,342,521</b>	<b>1,373,089</b>	<b>1,477,702</b>	<b>1,547,018</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 the glossary accompanying the Reports of Condition and Income instructions for the 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 2002	Location	County Rank	State Rank	Assets (dollars)	Loans (dollars)	Members
Maui County Employees	Wailuku	1	13	99,199,838	40,715,294	9465
Valley Isle Community	Kahului	2	18	55,673,152	15,401,753	7539
Kahului	Kahului	3	26	41,151,396	14,346,215	4974
Maui Land & Pine	Kahului	4	28	40,554,093	14,247,131	5776
Kula Community	Kula	5	40	26,207,747	12,048,354	3675
Wailuku	Wailuku	6	42	25,324,357	10,120,634	3694
West Maui Community	Lahaina	7	45	22,175,452	3,331,082	1936
Maui Teachers	Wailuku	8	47	19,873,122	2,159,295	1665
Lanai	Lanai City	9	52	18,624,942	2,651,069	2228
Molokai Community	Kaunakakai	10	68	10,123,472	4,766,160	3334
Lahaina	Lahaina	11	78	6,285,382	2,564,420	2338
Kulia Ohana	Wailuku	12	88	3,831,095	2,231,219	947
First Hawaiian Homes	Hoolehua	13	98	1,734,840	969,039	916
<b>Maui County Total</b>				<b>370,758,888</b>	<b>125,551,665</b>	<b>48,487</b>
<b>Statewide Total</b>				<b>5,396,606,043</b>	<b>2,457,737,063</b>	<b>679,056</b>

SOURCE: National Credit Union Administration, "Call Report Data Files under FOIA for December 2002 (final)."

### 9.1.4

## FEDERAL CREDIT UNION CHARACTERISTICS, MAUI COUNTY

	1999	2000	2001	2002
Number of Credit Unions	13	13	13	13
Total Members	43,367	44,709	46,904	48,487
Total Assets	265,469,171	271,511,009	321,517,593	370,758,888
Total Shares and Deposits	217,693,077	220,905,762	268,250,700	313,559,880
Number of Share and Deposit Accounts	51,388	53,503	57,258	60,461
Total Loans	99,771,476	108,913,023	119,344,751	125,551,665
Number of Loans	12,368	12,607	12,875	12,675

SOURCE: National Credit Union Administration, "Call Report Data Files under FOIA (final)", December 1999, 2000, 2001 and 2002.

## 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>					
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 r	72,350	70,000	29,400	423,700	595,450
2001	74,200	72,250	29,850	429,250	605,500
2002	71,500	70,200	28,400	412,100	582,200
<b>Employed</b>					
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 r	69,300	65,350	27,500	407,800	569,900
2001	70,650	67,300	27,750	411,750	577,450
2002	68,350	66,150	26,850	396,050	557,400
<b>Unemployed</b>					
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 r	3,050	4,650	1,900	15,900	25,500
2001	3,500	4,950	2,100	17,500	28,100
2002	3,150	4,000	1,550	16,000	24,700
<b>Percent Unemployed</b>					
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 r	4.2	6.7	6.5	3.8	4.3
2001	4.8	6.8	7.0	4.1	4.6
2002	4.4	5.7	5.4	3.9	4.2

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

SOURCE: Hawaii State Department of Labor and Industrial Relations, records and website (<http://www.state.hi.us/dlir/rs/loihi/LFR/>)

## 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>				
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	69,950	65,350	2,950	1,650
1999 r	71,400	66,650	3,000	1,750
2000 r	72,350	67,600	2,900	1,850
2001	74,200	69,400	2,900	1,900
2002	71,500	67,450	2,350	1,700
<b>Civilian Employment</b>				
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	65,200	61,100	2,500	1,600
1999 r	67,300	63,100	2,550	1,650
2000 r	69,300	65,050	2,500	1,800
2001	70,650	66,300	2,550	1,800
2002	68,350	64,550	2,150	1,650



## 9.2.2

CONTINUED

	Maui County	Maui	Molokai	Lanai
<b>Civilian Unemployment</b>				
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	4,750	4,250	450	50
1999	4,050	3,550	450	100
2000	3,050	2,550	450	50
2001	3,500	3,100	350	100
2002	3,150	2,900	200	100
<b>Unemployment Rate</b>				
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	6.8	6.5	14.9	3.5
1999 r	5.7	5.3	14.4	4.4
2000 r	4.2	3.8	14.9	3.4
2001	4.8	4.4	12.5	4.5
2002	4.4	3.7	8.6	4.7

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

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

r: Revised.

SOURCE: Hawaii State Department of Labor and Industrial Relations, records and website (<http://www.state.hi.us/dlir/rs/loihi/LFR/>).

### 9.2.3

## LABOR FORCE BY RACE AND SEX, MAUI COUNTY

Race or Sex, 2002				PERCENT DISTRIBUTION			Unem- ployment Rate
	Civilian Labor Force	Employed	Un- employed	Civilian Labor Force	Employed	Un- employed	
Both sexes (incl. Hispanic)	71,500	68,350	3,150	100.0%	100.0%	100.0%	4.4%
White	28,450	27,250	1,150	39.8	39.9	37.0	4.1
Black/African American	250	250	*	0.4	0.4	0.3	3.3
American Indian/Alaskan Native	300	300	*	0.4	0.4	0.7	7.5
Asian	20,550	20,000	550	28.8	29.3	17.4	2.7
Native Hawaiian/Pacific Islander	6,900	6,250	650	9.6	9.1	20.7	9.5
Some Other Race	1,050	1,050	*	1.5	1.5	0.1	0.4
Two or More Races	14,000	13,250	750	19.6	19.4	23.8	5.4
Minority Group	43,100	41,100	2,000	60.2	60.1	63.0	4.6
Hispanic or Latino	4,900	4,600	300	6.8	6.7	9.0	5.9
Females (incl. Hispanic)	33,450	32,150	1,350	100.0%	100.0%	100.0%	4.0%
White	12,650	12,150	550	37.9	37.8	39.9	4.2
Black/African American	100	100	*	0.3	0.3	0.7	8.3
American Indian/Alaskan Native	150	150	*	0.4	0.4	0.9	9.0
Asian	10,100	9,900	150	30.2	30.9	12.8	1.7
Native Hawaiian/Pacific Islander	3,250	2,950	300	9.7	9.2	23.1	9.4
Some Other Race	400	400	0	1.2	1.3	0.0	0.0
Two or More Races	6,750	6,450	300	20.2	20.1	22.5	4.4
Minority Group	20,800	20,000	800	62.1	62.2	2.5	3.8
Hispanic or Latino	2,200	2,050	150	6.6	6.4	9.6	5.8
Females as a percent of both sexes	46.8%	47.0%	41.9%				

\* Less than 25.

Note: Totals may not add due to rounding.

SOURCE: Hawaii Department of Labor and Industrial Relations, Labor Force Estimates from 2002 Annual Local Area Unemployment Statistics (LAUS), based on 2000 Census.

## 9.2.4

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

Industry, 2002	Maui County	Maui	Molokai	Lanai
<b>TOTAL NONAGRICULTURAL WAGE &amp; SALARY JOBS</b>	<b>61,900</b>	<b>58,600</b>	<b>1,750</b>	<b>1,500</b>
<b>Total Private</b>	53,400	50,950	1,150	1,300
Total Goods Producing	4,750	4,650	*	100
Natural Resources & Mining & Construction	3,100	3,000	*	100
Manufacturing	1,650	1,650	*	0
Durable Goods	300	300		
Non-Durable Goods	1,350	1,300		
<b>Total Service-Providing</b>	57,150	53,950	1,700	1,450
<b>Trade, Transportation &amp; Utilities</b>	12,800	12,350	300	150
Wholesale Trade	1,100	1,100	*	*
Retail Trade	8,750	8,450	200	100
Food & Beverage Stores	1,800	1,700	100	*
Clothing & Clothing Accessories	1,400	1,400	50	
General Merchandise	1,400	1,400		
Transportation, Warehousing & Utilities	2,950	2,800		50
Air Transportation	800	750	*	*
<b>Information</b>	950	900	*	0
Telecommunications	400	400		
<b>Financial Activities</b>	2,600	2,450	50	150
Finance & Insurance	800	750	*	*
<b>Professional &amp; Business Svcs</b>	4,900	4,700	*	200
Professional, Scientific & Technology Services	1,250	1,250	*	*
Administration & Support & Waste Mgmt.	3,300	3,300		
<b>Education &amp; Health Services</b>	4,750	4,400	300	*
Education Services	700	700	300	
Health Care & Social Assistance	4,050	3,700		*
<b>Leisure and Hospitality</b>	20,050	19,050	300	700
Arts, Entertainment & Recreation	1,900	1,800	*	100
Accommodation & Food Services	18,150	17,250	300	600
Accommodation	10,850	10,100	200	550
Food Services and Drinking Places	7,300	7,150	100	*
Full-Service Restaurants	4,950	4,900	*	*
<b>Other Services</b>	2,550	2,450	100	*
<b>Total Government</b>	8,500	7,650	600	200
Federal Government	600	550	*	*
Department of Defense	*	*		
State Government	5,700	5,150	400	150
State Education (DOE & UH)	3,200	2,850	250	100
Local Government	2,150	1,950	150	*
<b>AGRICULTURE JOBS</b>	2,050	1,950	100	

\* Fewer than 50.

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

SOURCE: Hawaii State Department of Labor and Industrial Relations (<http://www.hawaii.gov/workforce>).

9.2.5

**ANNUAL PAY RANGES FOR THE 10 MOST COMMON OCCUPATIONS, MAUI COUNTY**

Occupation	Estimated Employees	ESTIMATED ANNUAL WAGE, 2001		Entry Wage	Experienced Wage
		Median Maui	Median State		
Waiters and Waitresses	2,860	\$16,607	\$14,973	\$12,623	\$25,182
Retail Salespersons	2,770	\$19,322	\$17,680	\$14,496	\$25,836
Maids and Housekeeping Cleaners	2,490	\$25,667	\$17,680	\$20,654	\$27,142
Cashiers	2,070	\$17,267	\$17,243	\$13,460	\$21,177
Comb. Food Prep & Serving Workers, Incl Fast Food	1,850	\$16,337	\$13,429	\$14,085	\$18,934
Cooks, Restaurant	1,410	\$26,941	\$24,623	\$20,218	\$31,402
Janitors & Cleaners, Excl Maids & Housekeeping Cleaners	1,320	\$21,686	\$19,185	\$15,539	\$23,755
Landscaping and Groundskeeping Workers	1,220	\$23,865	\$23,488	\$18,347	\$26,598
Office Clerks, General	1,130	\$23,420	\$22,660	\$17,073	\$29,063
First-Line Supervisors/Mgrs of Retail Sales Workers	1,000	\$30,498	\$29,802	\$20,398	\$40,003
Total All Occupations	60,180	\$26,607	\$27,347	\$16,659	\$37,973

SOURCE: State of Hawaii, Department of Labor and Industrial Relations, Research and Statistics Office, Employment and Wages (ES-202), Annual Period 2001.

9.2.6

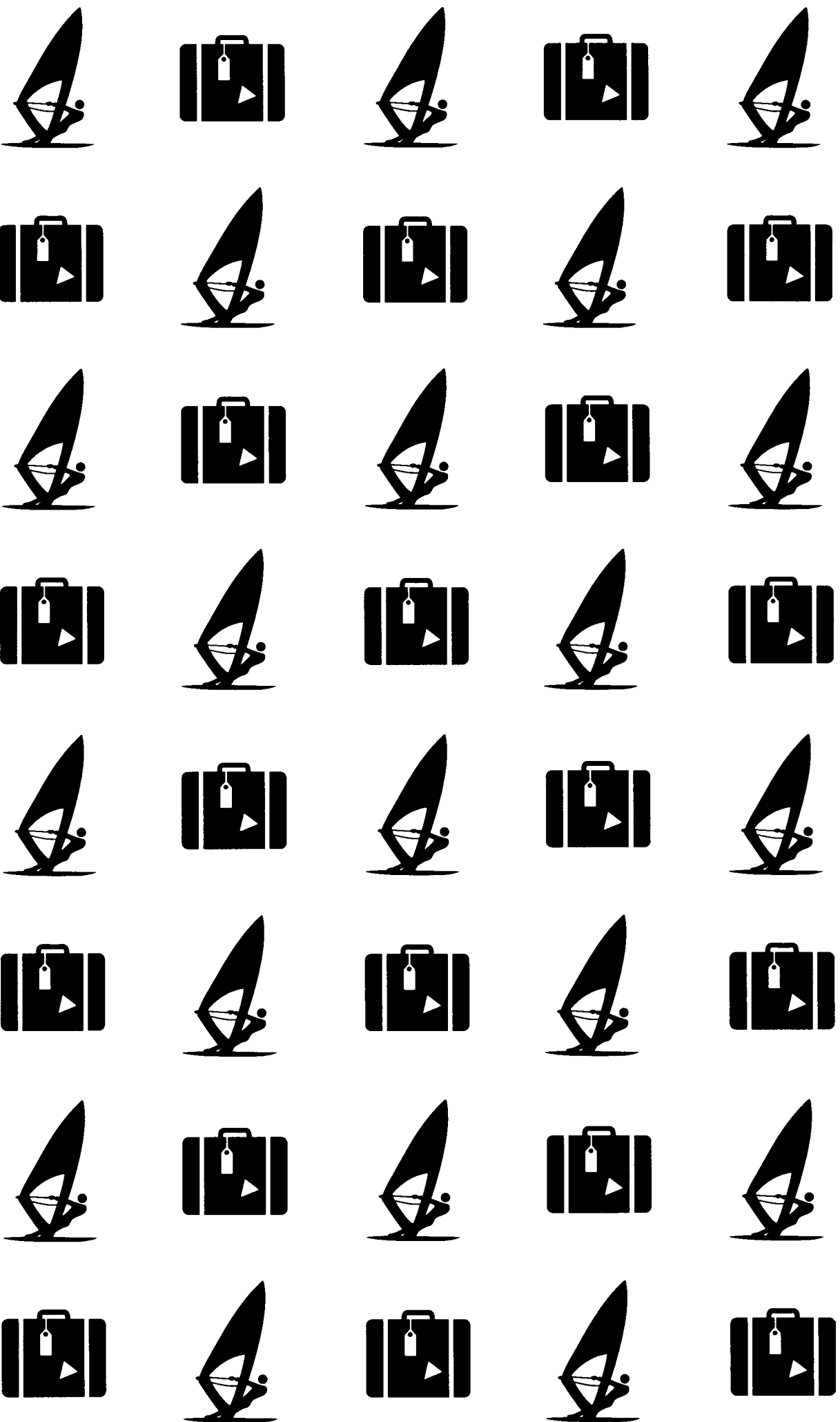
**AVERAGE WEEKLY WAGES FOR THE TOP 10 PAYING INDUSTRIES, MAUI COUNTY**

Maui Rank	Industry	No. of Establishments	Avg. Maui Employment	Avg. State Employment	State Rank	Avg. Weekly Wages-Maui	Avg. Weekly Wages-State
1	Telecommunications	12	380	4,936	27	1,139.00	1,027.00
2	Nondepository Credit Intermediation	15	58	878	9	1,106.00	1,233.00
3	Nonmetallic Mineral Product Mfg	11	134	245	14	1,042.00	1,108.00
4	Offices of Physicians	92	1,090	10,351	17	1,041.00	1,079.00
5	Scientific Research & Development Svc	16	153	1,654	32	1,030.00	982.00
6	Support Activities for Transportation	11	98	3,163	68	1,021.00	837.00
7	Petroleum Merchant Wholesalers	6	52	365	37	1,017.00	945.00
8	Security & Commodity Inv. Activity	8	102	NA	NA	961.00	NA
9	Nonresidential Building Construction	32	340	3,570	15	948.00	1,104.00
10	Computer Systems Design & Rel Serv.	25	37	2,488	36	931.00	949.00

NA: Not Available

SOURCE: State of Hawaii, Department of Labor and Industrial Relations, Research and Statistics Office, Employment and Wages (ES-202), Annual Period 2001.

# Visitor Industry & Recreation



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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

**VISITORS TO MAUI COUNTY BY MONTH**

<b>2002</b>	<b>Maui</b>	<b>Molokai</b>	<b>Lanai</b>	<b>Total Maui County</b>
<b>Total Visitors</b>				
January	147,588	4,358	5,644	151,838
February	166,907	5,237	6,002	172,416
March	186,446	7,605	6,765	193,838
April	151,595	3,871	6,605	156,399
May	162,739	4,391	6,595	166,756
June	196,023	6,017	6,934	200,246
July	212,840	8,305	7,240	219,543
August	202,706	8,942	10,484	212,205
September	148,159	5,610	5,392	152,439
October	165,149	6,977	6,884	170,727
November	160,581	6,205	6,046	164,974
December	172,317	7,618	6,285	178,046
<b>Total</b>	<b>2,073,051</b>	<b>75,134</b>	<b>80,874</b>	<b>2,139,427</b>
<b>Domestic Visitors</b>				
January	117,392	3,588	4,777	120,844
February	132,069	3,789	4,880	136,244
March	153,002	3,238	5,274	156,638
April	128,032	3,026	4,851	131,194
May	140,647	3,670	5,386	144,160
June	171,740	4,596	5,507	175,432
July	182,539	5,842	5,756	186,796
August	172,334	5,756	6,672	176,657
September	123,409	3,917	4,659	126,513
October	140,956	5,204	6,015	145,037
November	126,661	5,078	5,036	130,152
December	136,270	5,450	5,620	140,436
<b>Total</b>	<b>1,725,051</b>	<b>53,152</b>	<b>64,433</b>	<b>1,770,103</b>
<b>International Visitors</b>				
January	30,196	770	867	30,994
February	34,838	1,448	1,122	36,172
March	33,445	4,367	1,491	37,200
April	23,564	845	1,754	25,205
May	22,092	721	1,209	22,596
June	24,283	1,422	1,426	24,814
July	30,301	2,463	1,484	32,747
August	30,373	3,186	3,811	35,548
September	24,750	1,693	733	25,926
October	24,193	1,773	869	25,690
November	33,919	1,127	1,010	34,823
December	36,047	2,168	665	37,610
<b>Total</b>	<b>348,001</b>	<b>21,983</b>	<b>16,441</b>	<b>369,323</b>

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, 2002 Annual Visitor Research Report.

10.1.2

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

	1997	1998	1999	2000	2001	2002
<b>Length of Stay (days)<sup>1</sup></b>						
<b>All Visitors</b>						
Maui	6.45	6.58	6.71	6.81	6.90	7.17
Molokai	6.99	5.61	4.98	5.13	4.32	4.64
Lanai	4.71	6.48	4.75	4.34	4.72	4.71
<b>Domestic</b>						
Maui	7.05	7.12	7.20	7.35	7.41	7.63
Molokai	6.54	5.37	5.07	5.51	5.03	5.47
Lanai	6.08	4.48	4.12	4.90	5.02	4.92
<b>International</b>						
Maui	4.48	4.76	4.84	4.75	4.83	4.89
Molokai	8.99	6.83	4.42	2.74	2.23	2.63
Lanai	8.39	6.19	5.56	3.53	2.85	3.88
<b>Average Daily Census (people)</b>						
<b>All Visitors</b>						
Maui	39,971	40,440	41,918	41,819	38,724	40,744
Molokai	1,530	1,157	950	905	831	955
Lanai	1,883	1,267	1,124	1,130	1,096	1,043
<b>Domestic</b>						
Maui	33,509	33,671	35,750	35,817	33,330	36,081
Molokai	1,173	920	830	837	721	797
Lanai	1,461	1,011	909	1,022	1,002	868
<b>International</b>						
Maui	6,462	6,768	6,167	6,002	5,394	4,662
Molokai	356	237	121	67	110	158
Lanai	422	255	215	109	95	175

NOTE: Totals may not add due to rounding.

<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.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *2002 Annual Visitor Research Report*; "Historical Visitor Data," spreadsheet (<http://www.state.hi.us/dbedt/monthly/historical-r.xls>).



### 10.1.3

## AVERAGE DAILY VISITOR CENSUS, BY COUNTIES

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

Year	Maui County	Hawaii County	Kauai County	Oahu	State Total
1977	12,468	7,195	6,025	57,342	83,030
1978	14,492	8,094	7,069	62,379	92,034
1979	15,598	7,996	7,394	67,688	98,676
1980	15,363	7,195	7,259	66,680	96,417
1981	15,727	6,561	7,225	66,455	95,968
1982	18,090	6,725	7,050	73,445	105,310
1983	24,670	8,690	7,990	66,695	108,040
1984	32,790	7,570	10,930	67,370	118,660
1985	31,910	8,040	11,470	65,280	116,700
1986	34,330	9,870	14,840	73,870	132,910
1987	33,890	10,210	15,510	74,660	134,270
1988	33,870	10,690	16,400	80,450	141,410
1989	44,020	17,760	19,140	88,750	169,670
1990	37,657	16,698	17,378	82,783	154,516
1991	37,060	17,535	17,720	75,008	147,323
1992	41,854	19,297	13,516	77,999	152,666
1993	42,132	18,974	8,283	78,108	147,498
1994	42,933	18,902	13,268	81,526	156,630
1995	42,751	18,547	14,439	81,362	157,098
1996	42,724	19,337	15,615	81,054	158,730
1997	43,383	21,656	15,999	76,150	157,188
1998	42,864	23,993	17,909	72,623	157,389
1999	43,992	22,736	18,214	79,497	164,439
2000	43,854	21,831	18,041	84,911	168,637
2001	40,651	21,064	16,830	79,702	158,247
2002	42,742	22,277	17,432	82,121	164,572

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.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *2002 Annual Visitor Research Report*; "Historical Visitor Data," spreadsheet (<http://www.state.hi.us/dbedt/monthly/historical-r.xls>).

10.1.4

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

2002	Maui	Molokai	Lanai	Total Maui County	Total State
Albuquerque	4,368	146	155	4,464	11,557
Anchorage	6,325	336	159	6,664	24,012
Atlanta	18,910	525	873	19,389	42,764
Austin	6,671	185	353	6,862	15,920
Bakersfield	4,216	133	142	4,331	11,713
Bellingham	2,212	49	51	2,271	5,870
Boise	4,030	84	113	4,117	9,897
Boston	26,723	815	1,118	27,284	57,367
Charlotte	4,017	109	188	4,103	9,058
Chicago	55,736	1,249	2,178	56,843	111,368
Cincinnati	9,779	221	363	9,932	19,565
Cleveland	9,677	308	392	9,930	20,152
Colorado Springs	4,445	180	191	4,585	12,273
Columbus	5,630	180	189	5,731	12,152
Dallas	33,432	857	1,390	34,149	72,560
Denver	35,984	1,116	1,267	37,016	85,486
Detroit	22,413	596	738	22,848	46,141
Eugene	3,641	165	136	3,808	10,119
Fresno	6,529	182	248	6,698	16,555
Grand Rapids	4,077	92	135	4,166	8,171
Hartford	4,959	149	162	5,058	10,749
Houston	17,486	540	807	18,004	43,661
Indianapolis	7,121	200	242	7,253	14,044
Kansas City	8,987	184	374	9,161	19,666
Las Vegas	14,536	662	605	15,043	44,201
Los Angeles	251,932	6,632	8,709	258,552	646,800
Miami	7,564	283	455	7,745	16,274
Milwaukee	7,498	261	288	7,680	15,097
Minneapolis	23,519	563	937	24,177	55,119
Modesto	4,940	123	126	5,053	12,151

## 10.1.4

CONTINUED

2002	Maui	Molokai	Lanai	Total Maui County	Total State
Nashville	3,880	83	147	3,949	8,837
New York	71,328	2,093	3,642	73,124	147,091
Norfolk	3,355	169	193	3,445	12,889
Oklahoma City	3,660	98	164	3,731	9,309
Omaha	3,118	98	129	3,217	7,468
Orlando	5,102	151	220	5,186	12,189
Philadelphia	17,709	463	787	18,136	38,019
Phoenix	33,091	979	1,206	33,841	79,896
Pittsburgh	5,804	215	204	5,950	12,775
Portland	35,500	1,091	1,071	36,580	94,183
Provo	3,402	98	168	3,485	11,272
Raleigh	3,782	100	150	3,872	9,003
Reno	5,504	118	173	5,639	13,786
Sacramento	37,104	966	885	37,900	92,909
Saint Louis	12,501	349	416	12,708	25,068
Salinas	5,421	182	231	5,551	14,199
Salt Lake City	16,190	485	451	16,558	44,775
San Antonio	4,295	190	240	4,444	12,842
San Diego	45,554	1,685	1,917	47,147	138,330
San Francisco	208,481	5,497	6,291	213,854	533,730
San Luis/Obispo	4,548	189	95	4,677	11,469
Santa Barbara	6,759	297	282	7,029	19,270
Seattle	78,063	1,987	1,954	79,979	201,240
Spokane	4,885	170	112	5,000	12,406
Stockton	6,443	216	179	6,617	17,051
Tampa	6,077	208	278	6,212	14,300
Tucson	6,495	183	279	6,702	17,043
Tulsa	3,752	119	119	3,821	8,710
Washington D.C.	30,240	1,173	1,463	31,146	89,837
<b>Top US MSAs as % of Total Visitors</b>	<b>74.7</b>	<b>69.2</b>	<b>72.2</b>	<b>74.7</b>	<b>73.2</b>

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *2002 Annual Visitor Research Report*.

## 10.1.5

### VISITOR ARRIVALS, MAUI COUNTY

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

<b>Westbound Visitors</b>				
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	469,239	1,815,623		2,284,862
1991	483,224	1,692,382		2,175,606
1992	569,241	1,754,371		2,323,612
1993	569,204	1,693,910		2,263,114
1994	531,610	1,808,906		2,340,516
1995	564,092	1,762,705		2,326,797
1996	586,576	1,732,034		2,318,610
1997	542,018	1,788,366		2,330,384
1998	527,950	1,776,165		2,304,115
1999	480,471	1,866,531		2,347,002
			<b>Arrivals by Ship</b>	
2000	470,035	1,834,631	32,288	2,336,954
2001	418,518	1,685,960	41,288	2,145,766
2002	369,323	1,770,103	58,853	2,198,280

<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.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *2002 Annual Visitor Research Report*; "Historical Visitor Data," spreadsheet (<http://www.state.hi.us/dbedt/monthly/historical-r.xls>); and records.

## 10.1.6

## NATION OF RESIDENCE OF VISITORS TO MAUI COUNTY

2002 MMA <sup>1</sup>	MAUI			MOLOKAI			LANAI		
	Domestic	International	Total	Domestic	Int'l.	Total	Domestic	Int'l.	Total
<b>Total</b>	<b>1,725,051</b>	<b>348,000</b>	<b>2,073,051</b>	<b>53,152</b>	<b>21,983</b>	<b>75,134</b>	<b>64,433</b>	<b>16,441</b>	<b>80,875</b>
<b>U.S.</b>	<b>1,599,161</b>	<b>29,037</b>	<b>1,628,197</b>	<b>47,468</b>	<b>1,550</b>	<b>49,018</b>	<b>58,482</b>	<b>1,572</b>	<b>60,055</b>
<b>Canada</b>	<b>14,892</b>	<b>70,192</b>	<b>85,084</b>	<b>697</b>	<b>3,342</b>	<b>4,039</b>	<b>715</b>	<b>3,579</b>	<b>4,294</b>
<b>Asia</b>									
China	3,499	1,344	4,843	263	245	508	276	314	590
Hong Kong	370	1,000	1,369	32	46	78	38	0	38
Japan	2,331	184,013	186,343	110	13,710	13,820	117	6,399	6,515
Korea	1,218	9,727	10,946	104	589	693	89	611	700
Singapore	186	991	1,177	18	0	18	17	0	17
Taiwan	395	2,234	2,629	29	108	137	38	160	198
<b>Total Asia</b>	<b>7,999</b>	<b>199,309</b>	<b>207,307</b>	<b>555</b>	<b>14,698</b>	<b>15,253</b>	<b>575</b>	<b>7,484</b>	<b>8,059</b>
<b>Oceania</b>									
Australia	1,592	17,572	19,164	48	1,318	1,366	56	1,381	1,437
New Zealand	416	2,011	2,427	31	134	165	31	90	121
<b>Total Oceania</b>	<b>2,008</b>	<b>19,582</b>	<b>21,591</b>	<b>79</b>	<b>1,452</b>	<b>1,532</b>	<b>87</b>	<b>1,471</b>	<b>1,558</b>
<b>Europe</b>									
United Kingdom	14,717	4,135	18,852	603	163	766	776	125	901
Germany	9,174	1,599	10,773	466	19	485	347	49	395
France	1,885	96	1,982	128	0	128	83	0	395
Italy	1,760	263	2,022	106	0	106	78	44	121
Switzerland	2,648	231	2,879	149	0	149	79	0	79
<b>Total Europe</b>	<b>30,185</b>	<b>6,324</b>	<b>36,509</b>	<b>1,452</b>	<b>182</b>	<b>1,634</b>	<b>1,362</b>	<b>217</b>	<b>1,892</b>
<b>Latin America</b>									
Argentina	575	13	588	37	0	37	36	0	36
Brazil	1,351	177	1,528	102	0	102	112	13	125
Mexico	2,702	261	2,963	143	0	143	159	0	159
<b>Total Latin America</b>	<b>4,628</b>	<b>451</b>	<b>5,079</b>	<b>282</b>	<b>0</b>	<b>282</b>	<b>307</b>	<b>13</b>	<b>321</b>
<b>Other Foreign</b>	<b>66,179</b>	<b>23,105</b>	<b>89,285</b>	<b>2,618</b>	<b>758</b>	<b>3,376</b>	<b>2,905</b>	<b>2,104</b>	<b>5,009</b>
<b>Total Foreign</b>	<b>125,890</b>	<b>318,964</b>	<b>444,854</b>	<b>5,684</b>	<b>20,433</b>	<b>26,116</b>	<b>5,951</b>	<b>14,869</b>	<b>21,133</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 .

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, 2002 Annual Visitor Research Report.

## 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>						
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
2001	74.50	210.29	156.66	27.68	8.59	18.78
2002	72.41	205.90	149.10	29.35	9.20	19.44
<b>Molokai</b>						
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
2001	47.36	92.09	43.62	NA	NA	NA
2002	50.58	93.67	47.38	NA	NA	NA

NOTES: 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. There are no participants on Lanai.

SOURCE: PKF-Hawaii LLP, *Trends in the Hotel Industry, Hawaii*, December 2002, and records.

## 10.2.2

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

2002	Total Maui	Kaanapali	West Maui	Other	Molokai
<b>Room Sales for the Total Market</b>					
Percent Occupied	72.41	75.13	72.76	70.49	50.58
Average Daily Room Rate	205.90	175.76	179.87	240.99	93.67
Revenue / Available Room	149.10	132.04	130.88	169.87	47.38
<b>Room Sales for the Hotel Market</b>					
Percent Occupied	75.02	77.19	73.37	73.52	59.67
Average Daily Room Rate	225.98	171.10	186.86	289.27	103.11
Revenue / Available Room	169.53	132.07	138.98	121.66	61.52
<b>Room Sales for the Resort Condo Market</b>					
Percent Occupied	66.93	64.05	71.09	64.51	44.11
Average Daily Room Rate	158.45	205.93	172.27	132.37	84.58
Revenue / Available Room	106.05	131.90	122.47	85.39	37.31
<b>Food Sales for the Total Market</b>					
Average Daily Food per Guest	29.35	19.61	25.55	37.48	N/A
Average Daily Beverage per Guest	9.52	6.27	8.99	11.95	N/A
Average Food Sales Per Cover	19.44	14.12	22.60	21.52	N/A

SOURCE: PKF-Hawaii LLP, *Trends in the Hotel Industry, Hawaii*, December 2002.

## 10.2.3

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

2002	MAUI					MOLOKAI
	Luxury	First Class	Deluxe	Standard	Budget	Standard
<b>Room Quality</b>						
Percent Occupied	68.53	74.99	75.50	68.65	NA	51.72
Average Daily Room Rate	299.31	169.50	120.63	81.91	NA	74.66
Revenue / Available Room	205.13	127.11	93.49	56.23	NA	38.61
<b>Number of Rooms on Property</b>						
	Under 100	100 - 200	201 - 350	351 - 500	Over 500	Under 100
Percent Occupied	53.40	69.44	69.28	82.32	71.54	50.58
Average Daily Room Rate	178.73	145.77	189.80	223.88	228.86	93.67
Revenue / Available Room	95.45	101.22	131.49	184.29	163.72	43.62

SOURCE: PKF-Hawaii LLP, *Trends in the Hotel Industry, Hawaii, Quality and Size Report*, December 2002.

## 10.2.4

### HOSPITALITY ADVISORS LLC HAWAII HOTEL FLASH REPORT, MAUI ISLAND

2002	Occupancy	Average Daily Rate	Revenue per Available Room
<b>Total Maui</b>	<b>71.0%</b>	<b>181.25</b>	<b>184.13</b>
<b>By Area</b>			
Lahaina/Kaanapali/Kapalua	71.0%	177.95	179.77
Other Maui	71.0%	185.02	189.51
<b>By Price</b>			
Luxury	67.2%	314.53	211.36
Upscale	75.6%	192.68	145.67
Midprice	69.0%	146.79	101.29
Economy	79.1%	95.54	75.57
Budget	62.3%	74.44	46.38

SOURCE: Hospitality Advisors LLC, *Hawaii Hotel Flash Report*, December 2002.  
©2002 Hospitality Advisors LLC.

## 10.2.5

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

Class (Price per Night)	2001			2002		
	Units	% of Total	Properties	Units	% of Total	Properties
<b>Maui</b>						
Budget: \$100 or less	2,654	15.5%		2,494	14.7%	
Standard: \$101 to \$250	6,564	38.5%		5,816	34.4%	
Deluxe: \$251 to \$500	6,558	38.4%		6,977	41.2%	
Luxury: Over \$500	1,294	7.6%		1,630	9.6%	
<b>All levels</b>	<b>17,070</b>	<b>100.0%</b>	<b>223</b>	<b>16,917</b>	<b>100.0%</b>	<b>221</b>
<b>Molokai</b>						
Budget: \$100 or less	62	21.2%		56	25.6%	
Standard: \$101 to \$250	104	35.6%		98	44.4%	
Deluxe: \$251 to \$500	126	43.2%		66	30.0%	
<b>All levels</b>	<b>292</b>	<b>100.0%</b>	<b>10</b>	<b>220</b>	<b>100.0%</b>	<b>10</b>
<b>Lanai</b>						
Budget: \$100 or less	7	1.9%		7	2.0%	
Standard: \$101 to \$250	10	2.7%		10	2.7%	
Deluxe: \$251 to \$500	160	43.5%		174	47.2%	
Luxury: Over \$500	191	51.9%		177	48.2%	
<b>All levels</b>	<b>368</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, *2002 Visitor Plant Inventory* and *2002 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

	1998		1999		2000		2001		2002	
	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	5	58	5	58	6	74	6	93	7	103
Bed & Breakfast	31	136	27	125	30	134	26	115	23	113
Hostel	2	44	2	44	3	50	2	30	2	30
Hotel	27	8,565	27	8,583	28	8,577	29	8,399	29	8,413
Condominium										
Hotel	106	8,007	105	7,991	104	7,767	107	7,987	102	7,548
Individual										
Vacation Unit	48	331	47	327	56	327	65	409	63	584
Other	21	570	18	554	14	544	16	541	16	613
<b>Total</b>	<b>240</b>	<b>17,711</b>	<b>231</b>	<b>17,682</b>	<b>241</b>	<b>17,473</b>	<b>251</b>	<b>17,574</b>	<b>242</b>	<b>17,404</b>
<b>Molokai</b>										
Bed & Breakfast	1	1	1	1	1	1	1	1	1	1
Hotel	3	226	3	222	2	183	1	45	1	45
Condominium										
Hotel	5	279	5	231	4	117	4	116	4	101
Individual										
Vacation Unit	–	–	–	–	1	2	2	4	2	66
Other	2	64	2	104	2	126	2	126	2	7
<b>Total</b>	<b>11</b>	<b>570</b>	<b>11</b>	<b>558</b>	<b>10</b>	<b>429</b>	<b>10</b>	<b>292</b>	<b>10</b>	<b>220</b>
<b>Lanai</b>										
Bed & Breakfast	1	3	1	3	–	–	1	3	1	3
Hotel	3	363	3	363	3	362	3	362	3	362
Condominium										
Individual										
Vacation Unit	2	3	2	3	3	6	2	3	2	3
Other	–	–	–	–	–	–	–	–	–	–
<b>Total</b>	<b>6</b>	<b>369</b>	<b>6</b>	<b>369</b>	<b>6</b>	<b>368</b>	<b>6</b>	<b>368</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: 1999-2001: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *1999 Visitor Plant Inventory*, *2000 Visitor Plant Inventory* and *2002 Visitor Plant Inventory*. 1997-1998: 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**

2002 Island/Area/Type	Properties	Available Units
<b>Maui Island</b>	<b>242</b>	<b>17,404</b>
<b>Hana</b>	<b>23</b>	<b>134</b>
Bed & Breakfast	2	4
Condominium Hotel	1	16
Hotel	2	70
Individual Vacation Unit	15	29
Other	3	15
<b>Kahului-Wailuku</b>	<b>9</b>	<b>468</b>
Bed & Breakfast	1	10
Hostel	2	30
Hotel	3	402
Individual Vacation Unit	1	6
Other	2	20
<b>Kula-Makawao</b>	<b>26</b>	<b>96</b>
Bed & Breakfast	5	28
Condominium Hotel	1	16
Hotel	1	6
Individual Vacation Unit	18	41
Other	1	5
<b>Lahaina-Kaanapali-Napili-Kapalua</b>	<b>87</b>	<b>9,512</b>
Apartment/ Hotel	4	82
Bed & Breakfast	8	47
Condominium Hotel	47	4,141
Hotel	12	4,615
Individual Vacation Unit	10	110
Other	6	517
<b>Maalaea</b>	<b>7</b>	<b>252</b>
Condominium Hotel	7	252
<b>Wailea-Kihei</b>	<b>90</b>	<b>6,942</b>
Apartment/ Hotel	3	21
Bed & Breakfast	7	24
Condominium Hotel	46	3,123
Hotel	11	3,320
Individual Vacation Unit	19	398
Other	4	56
<b>Molokai</b>	<b>10</b>	<b>220</b>
Bed & Breakfast	1	1
Condominium Hotel	4	101
Hotel	1	45
Individual Vacation Unit	2	7
Other	2	66
<b>Lanai</b>	<b>6</b>	<b>368</b>
Bed & Breakfast	1	3
Hotel	3	362
Individual Vacation Unit	2	3

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, 2002 Visitor Plant Inventory.

10.2.8

**VISITOR PLANT INVENTORY,  
MAUI COUNTY**

<b>Year</b>	<b>Available Units</b>
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
2001	18,234
2002	17,992

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, *2002 Visitor Plant Inventory*.

10.2.9

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

2002	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%
The Royal Lahaina Resort Lahaina, Maui	511	4,100	500	320	85.0%
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%
Sheraton Maui Resort Lahaina, Maui	510	6,560	500	410	88.0%
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%
Aston Kaanapali Shores Lahaina, Maui	463	NA	NA	DND	89.6%
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 Kaanapali Villas Lahaina, Maui	205	NA	NA	DND	DND
Maui Seaside Hotel Kahului, Maui	225	DND	DND	DND	DND
Kapalua Bay Hotel Lahaina, Maui	210	6,800	200	263	80.8%
Aston at Papakea Resort Lahaina, Maui	157	NA	NA	DND	DND
Aston at the Maui Banyan Kihei, Maui	152	NA	NA	DND	DND
The Whaler on Kaanapali Beach Lahaina, Maui	147	NA	NA	DND	DND
Maui Lu Kihei, Maui	120	NA	NA	DND	92.8%
Lodge at Koele Lanai City, Lanai	102	NA	220	NA	NA

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

SOURCE: *Pacific Business News*, "Largest Maui County Hotels," *Book of Lists 2003*.

### 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 EAST		US WEST		JAPAN	
	2001	2002	2001	2002	2001	2002
<b>GRAND TOTAL</b>	<b>152.34</b>	<b>162.99</b>	<b>135.99</b>	<b>141.91</b>	<b>227.05</b>	<b>233.13</b>
<b>Total Food &amp; Beverage</b>	<b>36.36</b>	<b>35.22</b>	<b>33.54</b>	<b>31.46</b>	<b>34.60</b>	<b>40.20</b>
Food at Restaurant	24.99	25.45	22.49	21.64	27.28	29.96
Dinner Shows and Cruises	5.45	5.01	3.89	4.13	0.00	3.01
Groceries	5.92	4.76	7.16	5.69	7.31	7.22
<b>Total Entertainment &amp; Recreation</b>	<b>10.89</b>	<b>10.68</b>	<b>9.52</b>	<b>8.90</b>	<b>4.95</b>	<b>6.01</b>
<b>Total Transportation</b>	<b>16.84</b>	<b>21.27</b>	<b>13.69</b>	<b>18.42</b>	<b>11.96</b>	<b>11.45</b>
Interisland Travel	4.38	6.59	2.02	3.68	4.01	3.38
Ground Transportation	1.41	1.28	1.04	0.98	4.86	5.04
Rental Vehicles	8.96	11.46	8.73	11.88	2.69	2.70
Gasoline, Parking, etc.	2.09	1.93	1.90	1.89	.041	0.34
<b>Total Shopping Expenditures</b>	<b>23.76</b>	<b>24.41</b>	<b>17.31</b>	<b>20.09</b>	<b>80.33</b>	<b>82.16</b>
Fashion and Clothing	8.64	8.54	7.36	7.64	18.05	17.93
Jewelry and Watches	7.48	6.76	4.05	4.50	9.22	10.10
Cosmetics and Perfumes	0.40	0.36	0.34	0.46	4.66	4.70
Leather Goods	0.36	0.41	0.23	0.37	23.66	24.66
Hawaii Food Products	1.77	2.14	1.55	1.97	1.92	1.76
Total Souvenir	5.11	6.20	3.79	4.84	22.82	23.00
<b>Total Lodging<sup>1</sup></b>	<b>53.27</b>	<b>56.36</b>	<b>52.69</b>	<b>51.34</b>	<b>66.49</b>	<b>62.77</b>
All Other/Miscellaneous	6.87	9.37	6.99	7.78	11.87	11.38
Tour Packages	4.37	5.68	2.25	3.93	16.86	19.15

NOTE: Categories marked 'NA' (not applicable) reflect differences between questionnaires given to visitors from the United States and Japan.

<sup>1</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, *2002 Annual Visitor Research Report*.

10.3.2

**VISITOR SPENDING, MAUI AND MOLOKAI**

Spending per Person per Day	MAUI				MOLOKAI	LANAI
	All Visitors	U.S. East	U.S. West	Canada	All Visitors	All Visitors
<b>Total Lodging</b>	<b>62.02</b>	<b>72.61</b>	<b>56.78</b>	<b>60.30</b>	<b>28.41</b>	<b>173.22</b>
<b>Total Food &amp; Beverage</b>	<b>33.68</b>	<b>39.69</b>	<b>31.04</b>	<b>26.24</b>	<b>20.71</b>	<b>36.34</b>
Food at Restaurants	22.55	28.15	20.25	13.86	10.49	34.13
Dinner Shows	4.32	5.38	3.95	2.04	0.18	0.24
Groceries	6.81	6.16	6.84	10.34	10.04	1.96
<b>Total Entertainment</b>	<b>10.94</b>	<b>13.41</b>	<b>10.32</b>	<b>5.56</b>	<b>4.85</b>	<b>8.87</b>
<b>Total Transportation</b>	<b>17.21</b>	<b>18.98</b>	<b>16.53</b>	<b>14.59</b>	<b>12.44</b>	<b>5.85</b>
Ground transportation	0.59	0.74	0.48	0.57	0.73	1.90
Rental vehicles	14.92	16.20	14.42	12.51	9.72	3.68
Other transportation	1.71	2.03	1.62	1.50	1.99	0.27
<b>Total Shopping</b>	<b>21.29</b>	<b>25.35</b>	<b>19.44</b>	<b>13.46</b>	<b>10.96</b>	<b>10.57</b>
Fashion and clothing	8.63	9.58	8.06	7.36	4.45	5.21
Jewelry / watch	4.65	6.00	4.18	1.47	1.00	2.98
Cosmetics/perfumes	0.44	0.42	0.50	0.24	0.13	0.21
Leather goods	0.40	0.35	0.36	0.18	0.01	0.00
Hawaii food products	1.66	1.76	1.64	1.20	1.75	0.44
Souvenirs	5.51	7.24	4.70	3.01	3.61	1.73
<b>Tour packages</b>	<b>7.74</b>	<b>10.53</b>	<b>6.54</b>	<b>3.96</b>	<b>2.67</b>	<b>10.00</b>
<b>Cruise</b>	<b>0.26</b>	<b>0.52</b>	<b>0.12</b>	<b>0.00</b>	<b>0.36</b>	<b>0.66</b>
<b>All Other</b>	<b>7.85</b>	<b>8.20</b>	<b>7.54</b>	<b>3.61</b>	<b>2.87</b>	<b>1.87</b>
<b>Total spending</b>	<b>160.99</b>	<b>189.28</b>	<b>148.31</b>	<b>127.71</b>	<b>83.28</b>	<b>247.37</b>

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, 2002 Annual Visitor Research Report.

## 10.4.1

### SUMMARY VISITOR CHARACTERISTICS, MAUI COUNTY

2002	Total	Domestic	International
<b>Planned Destinations</b>			
Maui County	2,139,427	1,770,103	369,323
... Maui	2,073,051	1,725,051	348,001
... Molokai	75,134	53,152	21,983
... Lanai	80,874	64,433	16,441
Oahu	867,499	604,845	262,653
Kauai	356,852	304,333	52,519
Big Island	380,311	307,455	72,856
... Kona	289,239	232,438	56,801
... Hilo	201,873	160,279	41,593
Maui Only	1,041,012	953,544	87,468
Molokai Only	7,427	6,834	593
Lanai Only	10,137	9,241	896
<b>Trips to Hawaii</b>			
First trip	791,711	632,079	159,632
Repeat	1,347,716	1,138,024	209,692
Average number of trips	4.27	4.33	3.99
<b>Party Size</b>			
One person	310,912	268,745	42,167
Two persons	983,978	853,448	130,530
Three or more persons	844,537	647,910	196,627
Average party size	2.13	2.06	2.43
<b>Accommodations</b>			
Hotel	1,326,996	1,048,076	278,920
... Hotel Only	1,099,959	854,012	245,947
Condo	559,733	496,394	63,339
... Condo Only	434,100	394,188	39,912
Timeshare	153,990	142,778	11,212
... Timeshare Only	108,050	102,865	5,185
Apartment	17,220	9,209	8,011
Bed & Breakfast	28,737	24,422	4,315
Cruise Ship	126,251	115,393	10,858
Friends or Relatives	143,309	116,924	26,385

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, 2002 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>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>
<b>Maui</b>				
Alexander & Baldwin Sugar Museum	36,528	34,909	31,004	33,386
Halekii-Pihana Heiaus State Monument <sup>1</sup>	NA	7,200	NA	NA
Hana Cultural Center (Hale Wai Wai O Hana)	16,117	16,963	NA	NA
Hawaii Nature Center	91,470	58,567	41,003	NA
Iao Valley State Monument <sup>1</sup>	NA	741,000	NA	NA
Kula Botanical Gardens	24,100	24,200	24,200	27,050
Lahaina Restoration Foundation	208,466	218,400	210,349	154,898
Baldwin Missionary Home Museum	57,837	52,632	45,106	37,438
Brig Carthaginian	51,329	44,656	39,476	19,343
Hale Pa'ahao (Old Lahaina Prison)	32,150	30,255	29,877	24,632
Hale Pa'i Printing House	5,950	5,177	3,184	2,101
Wo Hing Temple Museum	61,200	85,680	92,706	71,384
Maui Historical Society Bailey House Museum	14,352	14,196	11,681	12,780
Maui Ocean Center <sup>2</sup>	NA	NA	NA	NA
Maui Tropical Plantation	256,491	240,763	NA	NA
Whaler's Village Museum <sup>3</sup>	345,144	189,149	177,024	186,500
<b>Molokai</b>				
Kalaupapa Settlement	10,068	8,644	8,956	14,178

NA: Not available, open.

<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 2002*, Table 7.40; and records.



## 10.5.2

### NATIONAL AND STATE HISTORIC SITES, MAUI COUNTY

2001	Maui	Kahoolawe	Lanai	Molokai	Total Maui County
Listed Hawaii Register only	30	–	–	41	71
Listed National Register only	4	1	–	10	15
Listed both Hawaii and National Register	31	–	2	40	73
Eligible for National Register <sup>1</sup>	1	–	–	2	3
<b>Total sites</b>	<b>66</b>	<b>1</b>	<b>2</b>	<b>93</b>	<b>162</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, 2001.

## 10.5.3

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

Parks	1998	1999	2000	2001	2002
<b>National Parks<sup>1</sup></b>					
Number of areas	2	2	2	2	2
Acreage	27,642	29,116	28,991	28,991	39,747
Visits	1,589,398	2,050,180	1,736,160	1,503,068	1,610,996
<b>State Parks &amp; Historic Sites<sup>2</sup></b>					
Number of areas	10	10	10	10	NA
Acreage	566	566	566	566	NA
Visits (1,000)	1,921	1,921	1,921	1,747	NA
<b>County Parks</b>					
Number of areas	132	132	143	143	143
Acreage	1,142	1,142	1,198	1,198	1,198

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

<sup>2</sup> As of June 30.

NA: Not available for 2002

SOURCES: U.S. Department of the Interior, National Park Service, Public Use Statistics Office, acreage and visitation reports, database at <http://www2.nature.nps.gov/stats>; 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**

Facility	Capacity
<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>	
Iao Theater	400
Lahaina Civic Center Convention Hall	4,050
Maui Academy of Performing Arts	60
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
Hannibal Tavares Community Center	559
Kihei Community Center (new)	500
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)	
Maui Mall Theaters (12 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.



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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 1,870 employees, and sales of \$156 million in 2002. 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*

1997	MAUI COUNTY		KAHULUI	
	All	Food	All	Food
<b>All Establishments<sup>1</sup></b>				
Total (number)	100	34	27	8
With 20 employees or more (number)	9	6	2	1
<b>All Employees</b>				
Number	1,919	1,000 to 2,499	798	692
Payroll (\$1,000)	51,302	D	19,931	17,005
<b>Production Workers</b>				
Number	1,509	D	733	649
Hours (1,000)	2,830	D	1,240	1,094
Wages (\$1,000)	36,296	D	16,597	14,699
<b>Value Added by Manufacture<sup>2</sup></b>				
(\$1,000)	123,343	D	41,776	34,490
<b>Cost of Materials<sup>3</sup></b>				
(\$1,000)	135,369	D	60,245	56,813
<b>Value of Shipments<sup>3</sup></b>				
(\$1,000)	259,608	D	102,128	91,323
<b>Total Capital Expenditures</b>				
(\$1,000)	4,020	D	2,893	D

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

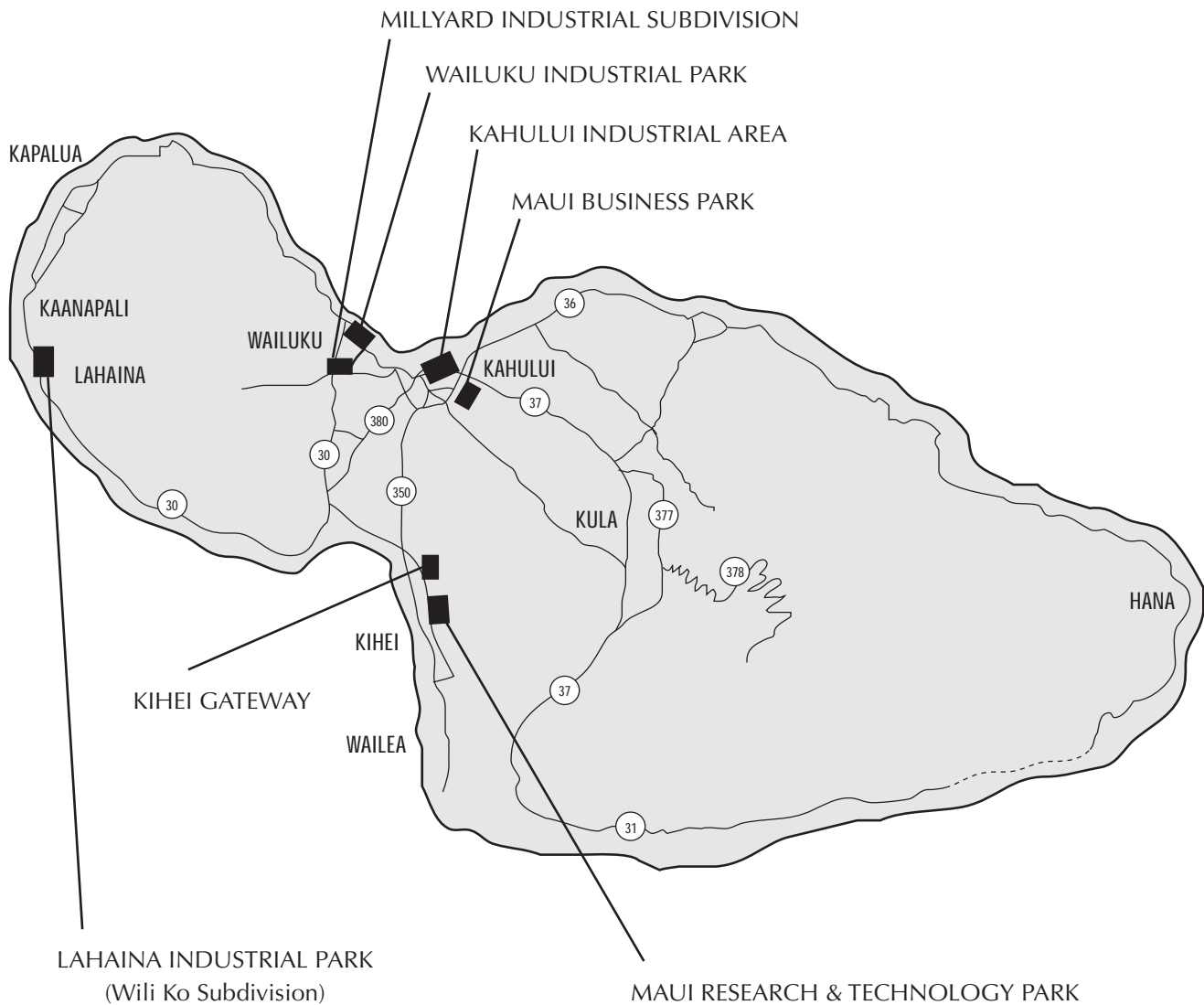
<sup>2</sup> Computed using inventory data reported at cost or market prior to adjustment to LIFO cost.

<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.

## 11.1.2

### INDUSTRIAL PARKS, ISLAND OF MAUI

	Size	Location	Types of industries
Maui Research & Technology Park	330 acres	Kihei	High technology
Kahului Industrial Area	200 acres	Kahului	Light industrial and commercial
Maui Business Park	75 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
Kihei Gateway	30 acres	Kihei	Light industrial and 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

	1995	1996	1997	1998	1999	2000	2001	2002
Retailing	953,473,875	833,349,525	621,260,750	649,032,400	1,200,011,150	1,357,279,775	1,363,859,275	1,288,265,075
Services	332,350,025	323,517,975	315,540,900	328,849,125	404,622,650	445,827,275	480,773,575	497,605,975
Contracting	188,497,150	181,665,900	161,468,800	193,365,375	259,711,650	326,777,275	360,568,625	364,438,350
Theater, Amusements, Radio, etc.	6,712,900	6,348,825	5,757,150	6,518,225	15,984,275	16,659,825	19,942,250	20,309,700
Interest	9,019,025	8,360,500	7,568,225	7,794,250	11,002,075	12,191,625	16,204,050	18,674,475
Commissions	45,460,125	55,078,925	53,701,225	64,093,175	82,441,600	102,188,000	108,053,925	105,181,525
Hotel Rentals	302,295,300	326,989,550	219,644,400	192,012,700	332,734,900	373,941,925	318,051,550	321,252,400
All Other Rentals	260,702,375	230,939,550	189,527,750	206,840,275	272,953,600	284,930,450	291,789,000	289,637,275
Use (4%)	23,979,725	16,284,725	6,608,975	9,585,650	32,232,375	44,145,100	36,581,075	25,138,275
All Others (4%)	122,619,650	106,482,875	73,681,600	76,290,300	125,497,600	119,762,625	118,982,400	117,366,800
<b>SUB-TOTAL</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>	<b>3,114,805,725</b>	<b>3,047,869,850</b>
Insurance Solicitors	72,992,667	38,562,000	29,943,333	31,336,665	94,902,666	41,309,334	121,564,668	59,276,000
Sugar Processing	7,760,000	-574,000	85,400	6,800	73,000	147,600	57,400	82,000
Pineapple Canning	3,516,400	353,800	265,400	607,000	2,900,400	2,376,000	2,210,000	1,978,400
Producing	36,475,600	25,030,200	21,713,000	26,281,200	29,412,400	28,193,200	25,924,400	23,407,000
Manufacturing	18,755,400	17,230,800	17,607,400	18,410,800	21,927,400	27,228,200	29,517,200	29,829,600
Wholesaling	269,816,600	247,287,400	191,297,600	209,382,400	328,986,000	367,046,000	384,273,200	358,084,800
Services (Intermediary)	18,455,800	25,437,400	26,346,200	25,449,200	30,991,200	37,430,000	38,642,600	47,747,000
Use (1/2%)	131,134,400	83,113,800	42,011,800	61,979,800	183,129,000	233,743,000	224,557,800	216,882,000
<b>SUB-TOTAL</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>826,747,268</b>	<b>737,286,800</b>
<b>GRAND TOTAL</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>	<b>3,941,552,993</b>	<b>3,785,156,650</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 1995 to 2002 (annual).

## 11.2.2

### RETAIL ESTABLISHMENTS BY TYPE AND LOCATION

*Based on primary North American Industrial Classification System (NAICS) code and zip code*

2001 Establishment Type		Location / Number		Location / Number		Location / Number		Totals	
<b>Motor vehicle &amp; parts dealers (NAICS 441—)</b>									
	Kahului	21	Lahaina	4					
	Kihei	5	Makawao	2	Wailuku	9	Maui subtotal	41	
	Kaunakakai	1	Lanai City	2			Total	44	
<b>Furniture &amp; home furnishing stores (NAICS 442—)</b>									
	Haiku	1	Kihei	4	Lahaina	7			
	Kahului	18	Kula	1	Wailuku	6	Total	37	
<b>Electronics &amp; appliance stores (NAICS 443—)</b>									
	Kahului	10	Lahaina	5	Kula	1			
	Kihei	9	Makawao	1	Wailuku	4	Total	30	
<b>Building material &amp; garden equipment &amp; supplies dealers (NAICS 444—)</b>									
	Haiku	1	Kula	1	Wailuku	7			
	Kahului	19	Lahaina	5	Hana	1			
	Kihei	6	Makawao	2	Lanai City	1	Maui subtotal	42	
	Hoolehua	1	Kaunakakai	2			Total	46	
<b>Food &amp; beverage stores (NAICS 445—)</b>									
	Haiku	3	Kula	1	Paia	5			
	Kahului	21	Lahaina	21	Wailuku	14			
	Kihei	12	Makawao	5	Lanai City	3	Maui subtotal	82	
	Kaunakakai	6	Kualapuu	1			Total	92	
<b>Health &amp; personal care stores (NAICS 446—)</b>									
	Haiku	1	Kula	1	Paia	1			
	Kahului	16	Lahaina	19	Wailuku	4			
	Kihei	4	Makawao	1			Maui subtotal	47	
	Kaunakakai	1					Total	48	
<b>Gasoline stations (NAICS 447—)</b>									
	Haiku	2	Kihei	6	Makawao	1			
	Hana	1	Kula	1	Paia	1			
	Kahului	13	Lahaina	9	Wailuku	3	Maui subtotal	37	
	Kaunakakai	2	Lanai City	1			Total	40	



## 11.2.2

CONTINUED

2001 Establishment Type							
Location	Number	Location	Number	Location	Number	Totals	
<b>Clothing &amp; clothing accessories stores (NAICS 448—)</b>							
Hana	1	Kula	3	Paia	4		
Kahului	45	Lahaina	125	Wailuku	9		
Kihei	39	Makawao	5	Lanai City	1	Maui subtotal	231
Kaunakakai	3					Total	235
<b>Sporting goods, hobby, book &amp; music stores (NAICS 451—)</b>							
Kula	1	Paia	1	Wailuku	4		
Kahului	20	Lahaina	14				
Kihei	8	Makawao	1			Maui subtotal	49
Kalaupapa	1	Kaunakakai	1			Total	51
<b>General merchandise stores (NAICS 452—)</b>							
Hana	1	Lahaina	4	Wailuku	2		
Kahului	8	Makawao	1	Haiku	1		
Kihei	1	Paia	1			Maui subtotal	19
Kaunakakai	4	Lanai City	1			Total	24
<b>Miscellaneous store retailers (NAICS 453—)</b>							
Hana	2	Kula	4	Paia	3		
Kahului	22	Lahaina	77	Wailuku	11		
Kihei	26	Makawao	13	Haiku	1	Maui subtotal	159
Maunaloa	1	Lanai City	1	Kaunakakai	1	Total	162
<b>Nonstore retailers (NAICS 454—)</b>							
Kihei	1	Kula	2				
Kahului	4	Lanai City	1			Maui subtotal	7
Hoolehua	1					Total	9
						<b>Grand Total</b>	<b>818</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 2001*, on CD-ROM.

### 11.2.3

## CHARACTERISTICS OF MAJOR SHOPPING CENTERS, MAUI COUNTY

	Location	Stores	Year Built/ Last Renovated	Gross Leasable Area
Queen Kaahumanu Center	Kahului	87	1972/1995	572,896
Maui Marketplace	Kahului	23	1997	317,000
Maui Mall	Kahului	50	1971/1995	182,000
The Shops At Wailea	Kahului	100	2000	160,000
Piilani Shopping Center	Kihei	30	2000	150,000
Lahaina Center Factory Stores	Lahaina	NA	1990	150,000
Wailuku Shopping Center	Wailuku	NA	NA	134,557
Lahaina Cannery Mall	Lahaina	55	1987/1999	128,000
Kahului Shopping Center	Kahului	35	1951/1960	112,066
Whalers Village	Lahaina	37	1971	79,000
Lahaina Shopping Center	Lahaina	21	1995	77,000
[unnamed]	Lahaina	NA	1997	74,000
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
Lipoa Center	Kihei	NA	1989/1991	42,309
Kukui Mall	Kihei	NA	1987	40,073
Pioneer Inn	Lahaina	13	NA	35,632
Dickenson Square	Lahaina	NA	NA	23,500
Kealia Beach Center	Kihei	NA	1983	20,350
Banyan Inn Marketplace	Lahaina	9	1975	20,028
Kai Nani Village	Kihei	14	1975	13,878
Pukalani Square	Pukalani	NA	1986	6,600
Napili Plaza	Lahaina	NA	NA	NA
West Maui Center	Lahaina	NA	NA	NA

SOURCE: National Research Bureau, 2002 database supplied to Claritas, Inc.

## 11.2.4

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

*Sales in thousands of dollars*

1997	Estab- lishments	Sales (\$1,000)	Employees	Annual Payroll (\$1,000)
Retail trade (NAICS 44-45)	805	1,359,298	8,244	150,721
Automobile dealers (NAICS 4411—)	9	D	250 to 499	D
Other motor vehicle dealers (NAICS 4412—)	5	D	20 to 99	D
Automotive parts, accessories & tire stores (NAICS 4413—)	26	D	100 to 249	D
Furniture stores (NAICS 4421—)	10	13,066	65	1,958
Home furnishings stores (NAICS 4422—)	24	16,334	141	2,873
Electronics & appliance stores (NAICS 4431—)	18	11,698	85	1,669
Building material & supplies dealers (NAICS 4441—)	41	84,469	433	10,598
Lawn & garden equipment & supplies stores (NAICS 4442—)	8	23,150	60	1,482
Grocery stores (NAICS 4451—)	59	280,592	1,571	30,316
Specialty food stores (NAICS 4452—)	19	7,243	78	1,191
Health & personal care stores (NAICS 4461—)	45	91,494	506	12,211
Gasoline stations (NAICS 4471—)	44	116,487	593	9,120
Clothing stores (NAICS 4481—)	165	133,999	1,154	17,009
Shoe stores (NAICS 4482—)	23	14,847	128	2,147
Jewelry, luggage & leather goods stores (NAICS 4483—)	65	51,577	336	7,989
Sporting goods, hobby, musical instrument stores (NAICS 4511—)	41	28,996	293	4,689
Book, periodical & music stores (NAICS 4512—)	15	11,751	90	1,314
Other general merchandise stores (NAICS 4529—)	22	118,418	475	9,176
Florists (NAICS 4531—)	13	9,098	135	1,488
Office supplies, stationery & gift stores (NAICS 4532—)	80	52,418	474	6,142
Used merchandise stores (NAICS 4533—)	9	3,743	58	995
Other miscellaneous store retailers (NAICS 4539—)	40	30,068	215	4,246

SOURCE: U.S. Bureau of the Census, 1997 Economic Census CD-ROM Vol. 1, Release 1F.

11.2.5

**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
TOTAL Retail Trade <sup>1</sup>	5,088	3,269	1,819	11,317,752	8,264,716	3,053,036
Groceries and other food items	1,298	819	479	1,910,787	1,263,171	647,616
Meals and snacks	430	260	170	119,935	87,075	32,860
Packaged liquor, wine, & beer	743	465	278	280,830	187,484	93,346
Cigars, cigarettes, & tobacco	976	594	382	193,535	131,361	62,174
Drugs, health aids, & beauty aids	1,035	621	414	776,494	575,064	201,430
Soaps, detergents, & household cleaners	547	345	202	95,687	63,240	32,447
Paper and related products	634	383	251	117,699	83,618	34,081
Men's wear	931	548	383	468,259	362,435	105,824
Women's, juniors', & misses' wear	1,113	708	405	936,203	784,649	151,554
Children's wear	511	285	226	139,497	102,878	36,619
Footwear (including accessories)	773	458	315	298,683	249,530	49,153
Sewing, knitting, & needlework goods	154	109	45	21,438	13,077	8,361
Curtains, draperies, and dry goods	185	112	73	63,319	42,421	20,898
Major household appliances	106	62	44	92,644	60,999	31,645
Small electric appliances	180	117	63	30,988	22,220	8,768
Televisions, video equipment/tapes	217	143	74	67,820	50,461	17,359
Audio equipment, musical instruments	320	219	101	119,940	95,304	24,636
Furniture & sleep equipment	214	123	91	125,314	95,291	30,023
Flooring & floor coverings	94	54	40	60,348	42,942	17,406
Computer hardware, software, & supplies	112	81	31	124,338	116,881	7,457
Kitchenware and homefurnishings	609	359	250	132,298	96,102	36,196
Jewelry	1,056	661	395	498,437	404,117	94,320
Books	404	260	144	89,691	64,338	25,353
Photographic equipment & supplies	247	161	86	33,259	24,219	9,040
Toys, hobby goods, & games	453	312	141	116,057	89,859	26,198
Optical goods	278	189	89	45,595	35,890	9,705
Sporting goods	406	239	167	163,942	117,948	45,994
Hardware, tools, plumbing, & elect. suppl.	385	225	160	294,216	210,819	83,397
Lawn and garden equipment	449	274	175	150,684	76,180	74,504
Lumber, millwork, building materials	168	86	82	204,318	141,276	63,042
Paint & related preservatives & supplies	153	71	82	71,393	46,514	24,879
Wallpaper & other flexible wallcoverings	14	7	7	596	254	342
Cars, vans, trucks, powered vehicles	96	60	36	1,274,548	1,005,722	268,826
Automotive fuels	380	241	139	538,555	331,662	206,893
Automotive lubricants (oil, greases, etc)	590	348	242	39,541	26,967	12,574
Automotive tires, batteries, accessories	483	293	190	312,323	211,064	101,259
Household fuels (oil, LP gas, wood, & coal)	44	14	30	34,238	20,173	14,065
Pets, pet foods, & pet supplies	341	205	136	64,066	46,536	17,530
All other merchandise	1,749	1,091	658	699,275	528,980	170,295
Unclassified merchandise	754	447	307	193,773	116,402	77,371
Nonmerchandise receipts	958	586	372	316,673	239,551	77,122

<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, 1997 Economic Census CD-ROM Vol. 1, Release 1F.

## 11.2.6

### 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 2003	RANGE PER SQUARE FOOT PER MONTH		
		Retail	Office	Warehouse
West Maui:				
Lahaina Shopping Centers		\$1.25 to \$3.50	NA	NA
Off Front Street		\$2.00 to \$5.00	\$1.25 to \$1.75	NA
Industrial Area		\$1.25 to \$2.00	\$1.00 to \$1.75	\$1.00 to \$1.75
Front Street		\$10.00 to \$25.00	\$1.50 to \$2.50	NA
Kihei		\$1.75 to \$3.50	\$1.50 to \$2.50	\$0.95 to \$1.20
Wailuku		\$1.75 to \$2.25	\$1.25 to \$2.00	\$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 \$0.95	\$0.08 to \$0.55

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>Forestry, fishing, hunting, and agriculture support</b>	<b>9</b>	<b>62</b>	<b>1,342</b>
<b>Mining</b>	<b>3</b>	<b>20-99</b>	<b>D</b>
<b>Utilities</b>	<b>9</b>	<b>250-499</b>	<b>D</b>
<b>Construction</b>	<b>385</b>	<b>2,719</b>	<b>102,080</b>
Building, developing & general contracting	135	991	35,905
Heavy construction	17	175	8,734
Special trade contractors	233	1,553	57,441
<b>Manufacturing</b>	<b>112</b>	<b>1,734</b>	<b>52,060</b>
Food mfg	37	1,168	35,719
Beverage & tobacco product mfg	2	20-99	D
Textile product mills	4	0-19	D
Apparel manufacturing	7	20-99	D
Wood product mfg	6	129	2,321
Printing & related support activities	11	84	2,082
Chemical mfg	7	20-99	D
Plastics & rubber products mfg	2	0-19	D
Nonmetallic mineral product mfg	7	100-249	D
Primary metal mfg	1	0-19	D
Fabricated metal product mfg	5	0-19	D
Machinery mfg	3	0-19	D
Furniture & related product mfg	3	22	430
Miscellaneous mfg	17	69	1,500
<b>Transportation &amp; warehousing</b>	<b>114</b>	<b>2,777</b>	<b>67,765</b>
Air transportation	11	784	20,909
Water transportation	6	20-99	D
Truck transportation	24	353	11,792
Transit & ground passenger transportation	15	299	3,355
Scenic & sightseeing transportation	40	1,053	22,242
Transportation support activities	11	105	3,913
Couriers & messengers	7	100-149	D
<b>Information</b>	<b>68</b>	<b>696</b>	<b>27,253</b>
Publishing industries	20	100-249	D
Motion picture & sound recording industries	15	143	2,416
Broadcasting & telecommunications	29	316	15,207
Information & data processing services	4	20-99	D
<b>Accommodation &amp; food services</b>	<b>414</b>	<b>18,128</b>	<b>420,653</b>
Accommodation	66	10,725	311,240
Food services & drinking places	348	7,403	109,413
<b>Wholesale trade</b>	<b>163</b>	<b>1,660</b>	<b>45,942</b>
Wholesale trade, durable goods	67	435	14,365
Wholesale trade, nondurable goods	96	1,225	31,577
<b>Retail trade</b>	<b>820</b>	<b>9,204</b>	<b>198,027</b>
Motor vehicle & parts dealers	44	619	25,415
Furniture & home furnishing stores	37	265	7,729

### 11.3.1

CONTINUED

Industry	Number of Establishments <sup>1</sup>	Number of Employees <sup>2</sup>	Annual Payroll (\$1,000)
Electronics & appliance stores	30	147	3,067
Bldg material & garden equip & supp dealers	47	507	12,742
Food & beverage stores	92	1,934	38,566
Health & personal care stores	47	637	14,371
Gasoline stations	40	557	10,085
Clothing & clothing accessories stores	237	1,964	33,859
Sporting goods, hobby, book & music stores	51	515	8,584
General merchandise stores	25	950	22,521
Miscellaneous store retailers	161	1,064	20,345
Nonstore retailers	9	45	743
<b>Finance &amp; insurance</b>	<b>139</b>	<b>787</b>	<b>27,988</b>
Credit intermediation & related activities	79	500-999	D
Security, commodity contracts & like activity	23	20-99	D
Insurance carriers & related activities	37	100-249	D
<b>Real estate &amp; rental &amp; leasing</b>	<b>255</b>	<b>2,300</b>	<b>68,783</b>
Real estate	190	1,000-2,499	D
Rental & leasing services	64	500-999	D
Lessors of other nonfinancial intangible asset	1	0-19	D
<b>Professional, scientific &amp; technical services</b>	<b>284</b>	<b>1,013</b>	<b>35,607</b>
<b>Management of companies &amp; enterprises</b>	<b>10</b>	<b>176</b>	<b>7,804</b>
<b>Admin, support, waste mgmt, remediation svcs</b>	<b>254</b>	<b>3,401</b>	<b>69,212</b>
Administrative & support services	240	3,199	64,063
Waste management & remediation services	14	202	5,119
<b>Educational services</b>	<b>56</b>	<b>620</b>	<b>13,218</b>
<b>Health care and social assistance</b>	<b>307</b>	<b>4,236</b>	<b>158,684</b>
Ambulatory health care services	229	1,873	83,868
Hospitals	4	500-999	D
Nursing & residential care facilities	10	250-499	D
Social assistance	64	1,001	20,820
<b>Arts, entertainment &amp; recreation</b>	<b>103</b>	<b>1,347</b>	<b>27,921</b>
Performing arts, spectator sports, & related inds	22	192	4,802
Museums, historical sites & like institutions	10	167	3,598
Amusement, gambling & recreation industries	71	988	18,891
<b>Other services (except public administration)</b>	<b>416</b>	<b>2,747</b>	<b>54,801</b>
Repair & maintenance	82	394	9,446
Personal & laundry services	90	786	13,843
Religious, grantmaking, civic, prof. etc. orgs	244	1,567	31,512
Auxiliaries (exc corp, subsidiary & regional mgmt)	7	100-249	D
<b>Unclassified establishments</b>	<b>27</b>	<b>20-99</b>	<b>D</b>
<b>Total</b>	<b>3,955</b>	<b>54,155</b>	<b>1,406,686</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 2001*, on CD-ROM.

### 11.3.2

## LARGEST PRIVATE CORPORATIONS, MAUI COUNTY

Company	State Rank		Sales (\$ million)		Employees
	2003	2002	2002	2001	
Maui Land & Pineapple Co.	37	32	155.5	172.6	1,870
TS Restaurants of Hawaii & California	82	77	83.6	79.7	1,500
Valley Isle Motors Ltd.	89	90	74.2	73.0	141
Four Seasons Resort	94	91	72.0	72.0	643
VIP Foodservice	131	127	53.0	55.0	127
Dorvin D. Leis Co. Inc.	147	175	46.0	32.0	210
Maui Marriott	169	185	34.0	30.0	412
Maui Toyota	183	219	29.7	24.0	35
Maui Petroleum Inc.	184	172	29.7	32.2	15
MINIT STOP Sores	190	180	28.4	30.8	178
Donald M. Zwade Inc.	211	230	24.0	22.0	79
Hale Makua	216	218	23.9	24.0	450
Fresh Island Fish Co. Inc.	234	NR	20.0	14.1	80
Maui Medical Group Inc.	242	229	17.5	22.2	216
Maui Clothing Co. Inc.	NR	NR	13.6		75

NR: Not ranked.

SOURCE: "Top 250," *Hawaii Business*, August 2003.

### 11.3.3

## CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, MAUI COUNTY

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

Characteristics	2001		2000	
	State Total	Maui	State Total	Maui
Number of establishments <sup>1</sup>	30,853	3,955	29,853	3,889
Number of employees <sup>2</sup>	441,856	54,155	432,092	52,250
Payroll—First quarter (\$1,000)	3,136,371	344,818	2,982,367	323,832
Payroll—Annual (\$1,000)	12,684,140	1,406,686	12,331,233	1,374,260

<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 2001*, on CD-ROM.



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### 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*

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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
1998 <sup>2</sup>	29,603	3,746
1999	29,569	3,790
2000	29,853	3,889
2001	30,853	3,955

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

<sup>2</sup> Start of data collection on NAICS basis. NAICS (North American Industry Classification System) replaces the old SIC (Standard Industrial Classification) codes.

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*, CD-ROM 2001 (annual).

## 11.3.5

## SERVICE ESTABLISHMENTS FOR PLACES WITH 2,500 INHABITANTS OR MORE, MAUI COUNTY

Geography	Number of establishments	Sales, Shipments, Receipts, or revenue (\$1,000)	Number of employees	Annual Payroll (\$1,000)
<b>Professional, scientific, and technical services (NAICS 54)</b>				
Maui County	227	75,165	754	25,731
Kaunakakai, Molokai	2	D	0 to 19	D
Haiku-Pauwela	8	545	3	115
Kahului	27	10,423	78	3,277
Kihei	31	6,994	89	2,059
Lahaina	14	3,444	42	1,118
Makawao	7	1,387	24	622
Napili-Honokowai	1	D	0 to 19	D
Pukalani	9	1,733	24	700
Wailea-Makena	11	1,211	12	317
Wailuku	96	45,325	447	16,527
Balance of Maui County	21	D	20 to 99	D
<b>Administrative and support and waste management and remediation services (NAICS 56)</b>				
Maui County	194	89,936	2,022	34,218
Kaunakakai, Molokai	2	D	0 to 19	D
Haiku-Pauwela	4	794	15	217
Kahului	34	26,652	800	10,895
Kihei	28	5,649	107	2,171
Lahaina	30	17,525	363	6,288
Makawao	4	417	4	77
Napili-Honokowai	3	258	6	161
Pukalani	5	849	13	361
Waihee-Waiehu	1	D	0 to 19	D
Wailea-Makena	14	6,804	170	3,965
Wailuku	40	17,948	302	6,278
Balance of Maui County	29	D	100 to 249	D
<b>Educational services (NAICS 61)</b>				
Maui County	33	4,859	91	1,227
Haiku-Pauwela	2	D	0 to 19	D
Kahului	7	952	15	172
Kihei	5	742	8	272
Lahaina	5	707	9	121
Makawao	2	D	0 to 19	D
Pukalani	1	D	0 to 19	D
Wailea-Makena	2	D	0 to 19	D
Wailuku	7	830	17	152
Balance of Maui County	2	D	0 to 19	D
<b>Health care and social assistance (NAICS 62)</b>				
Maui County	230	138,377	1,561	63,875
Lanai	1	D	0 to 19	D
Kaunakakai, Molokai	5	1,220	36	329
Haiku-Pauwela	4	515	3	325
Kahului	60	29,376	355	12,446
Kihei	23	9,386	132	3,327
Lahaina	17	8,516	106	4,949
Makawao	9	1,704	30	595
Pukalani	9	3,552	50	1,127
Wailea-Makena	3	686	3	345
Wailuku	82	77,680	735	38,055
Balance of Maui County	17	D	100 to 249	D

**11.3.5**  
CONTINUED

Geography	Number of establishments	Sales, Shipments, Receipts, or revenue (\$1,000)	Number of employees	Annual Payroll (\$1,000)
<b>Arts, entertainment, and recreation (NAICS 71)</b>				
Maui County	80	78,144	945	20,139
Haiku-Pauwela	1	D	0 to 19	D
Kahului	6	3,359	61	931
Kihei	18	11,712	186	3,505
Lahaina	21	35,398	260	8,327
Makawao	2	D	0 to 19	D
Napili-Honokowai	1	D	0 to 19	D
Pukalani	2	D	20 to 99	D
Wailea-Makena	5	D	100 to 249	D
Wailuku	8	D	100 to 249	D
Balance of Maui County	16	D	20 to 99	D
<b>Accommodation and foodservices (NAICS 72)</b>				
Maui County	420	1,130,702	17,951	364,380
Lanai	2	D	20 to 99	D
Molokai	4	3,922	143	1,540
Kaunakakai, Molokai	5	D	20 to 99	D
Haiku-Pauwela	3	932	28	199
Kahului	63	56,199	1,162	15,285
Kihei	74	82,830	1,639	27,889
Lahaina	100	218,043	3,514	60,212
Makawao	7	D	20 to 99	D
Napili-Honokowai	22	76,654	1,123	21,087
Pukalani	10	4,534	129	1,083
Wailea-Makena	19	209,787	2,725	66,079
Wailuku	51	D	250 to 499	D
Balance of Maui County	60	454,709	6,885	165,067
<b>Other services (except public administration) (NAICS 81)</b>				
Maui County	163	54,180	884	16,187
Lanai	1	D	0 to 19	D
Kaunakakai, Molokai	2	D	0 to 19	D
Haiku-Pauwela	4	960	11	178
Kahului	35	18,293	341	6,323
Kihei	18	3,952	52	1,099
Lahaina	19	4,539	65	1,212
Makawao	3	D	0 to 19	D
Napili-Honokowai	2	D	0 to 19	D
Pukalani	8	1,051	14	213
Wailea-Makena	8	1,856	28	537
Wailuku	46	18,164	321	5,686
Balance of Maui County	17	D	20 to 99	D

D: Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of Census, 1997 Economic Census, Economic-Wide Key Statistics: 1997

## 11.3.6

### SERVICE ESTABLISHMENTS BY TYPE AND LOCATION

*Based on primary North American Industrial Classification System (NAICS) code and zip code*

<b>Establishment Type, 2001</b>							
<b>Location / Number</b>		<b>Location / Number</b>		<b>Location / Number</b>		<b>Totals</b>	
<b>Professional, scientific &amp; technical services (NAICS 541—)</b>							
Haiku	17	Kula	8	Paia	9		
Kahului	43	Lahaina	18	Wailuku	111		
Kihei	43	Makawao	27			Maui subtotal	276
Kaunakakai	4	Maunaloa	1	Lanai City	2	Total	283
<b>Management of companies &amp; enterprises (NAICS 551—)</b>							
Kahului	3	Kihei	1	Lahaina	6		
Wailuku	1					Total	11
<b>Administrative &amp; support services (NAICS 561—)</b>							
Haiku	9	Kihei	53	Makawao	19		
Hana	2	Kula	6	Paia	5		
Kahului	47	Lahaina	46	Wailuku	45	Maui subtotal	232
Kaunakakai	5	Lanai City	2			Total	239
<b>Waste management &amp; remediation services (NAICS 562—)</b>							
Kahului	4	Makawao	2	Wailuku	5		
Kihei	2					Maui subtotal	13
Hoolehua	1					Total	14
<b>Educational services (NAICS 611—)</b>							
Haiku	4	Kula	4	Paia	1		
Kahului	9	Lahaina	7	Wailuku	9	Maui subtotal	55
Kihei	11	Makawao	10	Kaunakakai	1	Total	56
<b>Ambulatory health care services (NAICS 621—)</b>							
Haiku	3	Kihei	28	Makawao	17		
Hana	2	Kula	5	Paia	4		
Kahului	54	Lahaina	20	Wailuku	85	Maui subtotal	218
Kaunakakai	6	Kualapuu	1	Lanai City	3	Total	228
<b>Hospitals (NAICS 622—)</b>							
Wailuku	2	Lanai City	1			Maui subtotal	2
Kaunakakai	1					Total	4
<b>Nursing &amp; residential care facilities (NAICS 623—)</b>							
Kahului	4	Lahaina	2	Wailuku	1		
Kihei	1	Makawao	2			Total	10
<b>Social assistance (NAICS 624—)</b>							
Hana	1	Kula	1	Paia	4		
Kahului	11	Lahaina	5	Wailuku	17		
Kihei	5	Makawao	7	Haiku	1		
Hoolehua	1	Kaunakakai	7	Kualapuu	1	Maui subtotal	52
Lanai City	2					Total	63
<b>Performing arts, spectator sports, &amp; related industries (NAICS 711—)</b>							
Haiku	2	Kula	2	Makawao	3		
Kahului	2	Lahaina	7	Wailuku	2		
Kihei	3	Paia	1			Total	22

### 11.3.6

CONTINUED

Establishment Type, 2001						
Location / Number		Location / Number		Location / Number		Totals
<b>Museums, historical sites &amp; like institutions (NAICS 712—)</b>						
Hana	2	Kula	1	Wailuku	3	
Kahului	2	Makawao	1			Maui subtotal 9
Kualapuu	1					Total 10
<b>Amusement, gambling &amp; recreation industries (NAICS 713—)</b>						
Hana	2	Kula	2	Paia	1	
Kahului	17	Lahaina	19	Wailuku	5	
Kihei	20	Makawao	4			Maui subtotal 71
Maunaloa	1	Haiku	1			Total 72
<b>Accommodation (NAICS 721—)</b>						
Haiku	3	Kihei	21	Lahaina	30	
Hana	2	Kula	1	Wailuku	1	
Kahului	2					Maui subtotal 60
Kaunakakai	2	Maunaloa	4	Lanai City	1	Total 67
<b>Food services &amp; drinking places (NAICS 722—)</b>						
Haiku	3	Kihei	74	Makawao	21	
Hana	1	Kula	8	Paia	14	
Kahului	65	Lahaina	99	Wailuku	48	
Hoolehua	2	Kaunakakai	6	Maunaloa	1	Maui subtotal 333
Lanai City	3	Kualapuu	1			Total 346
<b>Repair &amp; maintenance (NAICS 811—)</b>						
Haiku	3	Kula	1	Makawao	3	
Kahului	37	Lahaina	4	Wailuku	28	
Kihei	4					Maui subtotal 80
Kaunakakai	2					Total 82
<b>Personal &amp; laundry services (NAICS 812—)</b>						
Haiku	3	Kula	1	Makawao	6	
Kahului	18	Lahaina	18	Wailuku	18	
Kihei	25	Paia	1			Total 90
<b>Religious, grantmaking, civic, prof &amp; like organizations (NAICS 813—)</b>						
Haiku	2	Kihei	65	Makawao	7	
Hana	2	Kula	5	Paia	6	
Kahului	31	Lahaina	71	Wailuku	40	Maui subtotal 229
Hoolehua	2	Kaunakakai	8	Maunaloa	2	Total 246
Lanai City	5					
<b>Grand Total</b>						<b>1,843</b>

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Zip Code Business Patterns 2001*, on CD-ROM.



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## INDEX

Acupuncturists .....	28
Agriculture. ( <i>See also</i> specific crops)	
Characteristics of farm operators .....	78
Cropland .....	80
Crops and livestock .....	77, 80, 81, 82, 83, 84-85, 87
Employment .....	81
Farms by size .....	80
Farms and farm workers .....	81, 82
Land use and acreage .....	78, 80, 81, 82, 86
Production volume .....	82, 83, 84, 86, 87
Sales/Value .....	82-87
Aircraft .....	98
Airports .....	98,99
Air transportation	
Aircraft operations .....	98
Cargo and mail .....	99
Facilities .....	98
Passengers .....	99
Ambulance technicians .....	28
Automobiles. ( <i>See</i> Motor vehicles)	
Auditoriums .....	158
Banks .....	129
Births and birth rates	
Components of population change .....	17
Live births .....	17
Buildings. ( <i>See</i> Construction industry <i>and</i> Housing and housing units)	
Business enterprises. ( <i>See also</i> individual types of business and industry)	
Employment and payrolls .....	170-172
Establishments .....	170-177
Gross business receipts .....	4, 174-175
Sales .....	167, 168, 172, 174-175
Cable television .....	94
Cattle. ( <i>See</i> Livestock and livestock products)	
Census designated places or urban places .....	10, 12, 14, 121, 122, 123, 124, 125, 126
Chiropractors .....	28
Climate .....	47, 48, 50
Coastline. ( <i>See</i> Shoreline)	
Condominiums. ( <i>See also</i> Housing and housing units) .....	4, 57, 149-150, 155
Construction industry. ( <i>See also</i> Housing and housing units)	
Building permits .....	4, 113-115
Demolitions .....	114
Employment and payrolls .....	116, 167
Establishments .....	117, 164, 167
Nonresidential building projects .....	113, 115
Private, residential construction .....	113, 115
Consumer price index. ( <i>See also</i> Prices and rates) .....	23, 24
Credit unions .....	130

County government	
Bond debt .....	73
Expenditures .....	69
Tax collections and other revenues .....	69-72
Deaths and death rates .....	17
Dental hygenists .....	28
Dentists .....	28
Diesel fuel .....	95
Education	
Community college .....	36, 38
Distance learning .....	37
Enrollment.....	33-34, 38
Graduates .....	36
Private elementary and secondary schools .....	31, 33, 34
Public elementary and secondary schools .....	31, 32, 33
Teachers .....	38
Elections and elected officials	
Election districts or precincts .....	61-65
General election results .....	66-67
Voters and votes cast .....	65-68
Electricity	
Capacity, consumption, production, and rates .....	106
Residential customers .....	106
Revenues.....	107
Elevations and altitudes. ( <i>See also</i> Mountains) .....	44
Employment and labor force. ( <i>See also</i> Labor and individual industries)	
Employment and payroll .....	4, 81, 132
Government .....	18, 135
Industry groups .....	18, 135-136
Jobcount.....	4, 18, 135
Labor force .....	131-134
Projections .....	18
Unemployment and unemployed workers .....	4, 131, 133-134
Energy and power. ( <i>See also</i> Electricity and Utilities)	
Consumption .....	106, 109
Electric utilities .....	106
Electricity generation .....	106
Gas utilities .....	108
Ethnic origin and race. ( <i>See also</i> Population) .....	12, 16
Excise Tax. ( <i>See</i> Taxes).	
Farms and farm workers. ( <i>See</i> Agriculture)	
Finance, insurance, and real estate	
Assets and deposits .....	129-130
Employment and payrolls .....	171
Establishments .....	129-130, 171
Fishing industry .....	88, 89, 90
Flowers and nursery products .....	86
Food. ( <i>See</i> Agriculture)	
Forests and forest products .....	58, 100
Freight. <i>See</i> Water transportation.	
Fuel. ( <i>See also</i> individual type)	
Consumer price index .....	23, 24



Consumption .....	97
Electricity generation .....	106
Taxes and tax base .....	95
Gas utilities	
Consumption, consumers, and use .....	108
Rates and revenues .....	108
Gasoline	
Prices .....	95
Taxes and tax base .....	95
Geographic data	
Area .....	41,42
Elevations .....	44
Inland waters .....	41
Shoreline .....	42
Waterfalls .....	43
Government. ( <i>See individual government units</i> )	
Harbors .....	102
Health care	
Consumer price index .....	24
Facilities .....	26, 27
Health services .....	171, 174, 176
Practitioners .....	28
Highways and streets	
Fuel consumption .....	97
Miles and mileage .....	96, 97
Historic sites .....	157
Hospitals. <i>See Health care.</i>	
Hotels. ( <i>See also Tourism</i> )	
Construction .....	116
Employment and payrolls .....	152, 177
Establishments and properties .....	147, 148, 152, 172, 175, 177
Largest .....	152
Occupancy rates .....	4, 146-148, 152
Revenues .....	146-148
Room rates .....	146-148
Taxes and tax base .....	51
Units .....	18, 147-152
Households or families .....	11
Housing and housing units. ( <i>See also Condominiums and Construction industry</i> )	
Building permits .....	4, 113
Characteristics .....	115, 122-126
Consumer price index .....	24
Construction .....	116-118
Contract rent .....	126
Demolitions .....	116
Occupied units .....	120-124
Prices of homes .....	4, 57, 120, 124
Real property tax .....	51
Resident and non-resident housing units .....	120-126
Renter-occupied .....	120, 125, 126
Sales .....	57
Vacancies .....	120, 122
Value, owner-occupied .....	124

Income	
Per capita .....	19
Personal .....	19
Insurance. (See Finance, insurance, and real estate)	
Jobcount. (See Employment and labor force)	
Labor. (See Employment and labor force)	
Land and land use. (See also Maps)	
Area	
Census designated places .....	10
Counties and islands .....	41
Farms .....	78, 80-83
Hawaiian Home Lands, Hawaii State Department of .....	56
Land use districts .....	52, 53
Historic Places .....	55
Ownership	
Government .....	54
Hawaiian Home Lands .....	56
Leased/owned .....	56
Real property .....	51
Value of land transactions .....	119
Libraries .....	35
Livestock and livestock products .....	4, 80, 81
Manufacturing industry.	
Cost of materials .....	161
Employment and payrolls .....	161, 170
Establishments .....	161, 170
Value added and value of shipment .....	161
Maps	
Agricultural Areas .....	77
Census tracts .....	7
Election districts .....	61, 62, 63, 64
Industrial parks .....	162
Land ownership .....	54
Land use districts .....	52
Subdivisions and places .....	5
Massage therapists .....	28
Medical care. See Health care.	
Migration. See Population.	
Motorcycles .....	96
Motor vehicles. (See also Highways and streets)	
Establishments .....	170, 172, 174
Drivers licenses .....	96
Fuel consumption .....	97
Registration .....	96
Vehicle miles .....	97
Sales .....	172, 174
Mountains, altitudes, and elevations .....	44-46
Museums .....	156
Naturopaths .....	28
Newspapers .....	93
Nurses .....	28

Optometrists .....	28
Osteopathic physicians .....	28
Parks .....	156-157
Paramedics .....	28
Pay rates. ( <i>See</i> Wages and salaries)	
Pharmacists .....	28
Physical therapists .....	28
Physicians and surgeons .....	28
Physician's assistants .....	28
Podiatrists .....	28
Population	
Age .....	14
Components of change .....	17
De facto .....	8, 18
Density .....	10
Ethnic .....	16
Household and/or families. ( <i>See</i> Households or families)	
Geographical location	
Census designated places .....	5, 10, 12, 14
Counties or island .....	6, 9
District and census tract .....	7, 11
Migration .....	17
Projections .....	18
Resident .....	4, 6, 8, 10, 11
Sex .....	12
Power. ( <i>See</i> Energy and power)	
Prices	
Estimated Costs of Living .....	22
Consumer price index .....	23, 24
Psychologists .....	28
Radio stations .....	94
Rainfall .....	47, 48, 50
Real property. ( <i>See</i> Housing and Land and land use)	
Real property taxes. ( <i>See</i> Taxes)	
Real estate. ( <i>See also</i> Finance, insurance and real estate.)	
Commercial lease rates .....	169
Sales .....	57
Recreation	
Cultural attractions and the performing arts .....	156
Parks .....	156, 157
Retail trade	
Employment and payrolls .....	135, 167, 170, 172, 174
Establishments .....	164, 166-168, 170, 172-174
Sales .....	167, 168, 174
Taxes and tax base .....	163
Savings and loans .....	129
Service industries	
Establishments .....	164, 171-175
Tax base .....	163
Shopping centers .....	166
Shoreline .....	42
Stadiums .....	158

---

State government. ( <i>See also</i> Elections and elected officials <i>and</i> taxes)	
Bonded debt .....	73
Tax collections and other revenues .....	69-70
Taro .....	82, 84, 85
Tax Base .....	71, 95, 163
Taxes	
Collections .....	69, 71, 72
General excise and use .....	4, 70, 163
Real property .....	69, 71, 72
State .....	4, 70
Telescopes .....	105
Television stations. ( <i>See also</i> Cable television) .....	94
Temperature .....	47, 48, 50
Theaters .....	156
Tourism. ( <i>See also</i> Hotels)	
Attractions .....	158
Average visitor census .....	18, 140-141
Economic activity generated .....	154
Expenditures .....	153, 154
Per visitor day .....	153
Japanese .....	153
Origin of visitors .....	142, 145
Projections .....	18
Visitor characteristics .....	4, 140, 144-145, 153-155
Visitor counts .....	4, 139-145
Visitor plant inventory .....	116, 147-152
Transportation	
Consumer price index .....	24
Employment and payrolls .....	170
Establishments .....	170
Trucks .....	96
Utilities. ( <i>See also</i> Electricity <i>and</i> Gas utilities) .....	106-109
Vegetables and melons .....	82, 84-85
Visitors and visitor industry. <i>See</i> Tourism.	
Voters and voting. ( <i>See also</i> Elections and elected officials) .....	65-67
Wages and salaries. ( <i>See also</i> individual industries) .....	136
Water. ( <i>See also</i> Geographic data)	
Area, inland water .....	41
Use and consumption .....	110
Water transportation	
Cargo and freight .....	99-102
Ship arrivals .....	102
Waterfalls .....	43
Wholesale trade. ( <i>See also</i> individual industries)	
Establishments .....	164, 166-168, 170, 172-174
Employment and payrolls .....	135, 167, 170, 172, 174
Sales .....	167-168