
MAUI COUNTY DATA BOOK 2 0 0 0

COUNTY OF MAUI
OFFICE OF ECONOMIC DEVELOPMENT

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Copies of this book are available from the Business Research Library, Suite 136, 590 Lipoa Parkway, Kihei, Maui, Hawaii 96753. The price per copy is \$10.00 when picked up in person, and \$15.00 by first-class mail. This report is also available on personal computer diskettes for \$7.50. An online version is available in Adobe Acrobat format (only) at <http://www.hawaii-sbdc.org/brlprod.htm>. The BRL's *Small BizWeek* newsletter is also available at the site. For further information, call (808) 875-2400, or (800) 509-3100 (in-state only).

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

ABOUT THIS BOOK

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

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

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

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

CONTENTS

ABOUT THIS BOOK	v
CONTENTS	vi
GENERAL STATISTICS	
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 Resident Population by Census Designated Place, Maui County	16
1.3.11 Ethnic Stock, Maui County	17
1.3.12 Components of Change in the Resident Population of Maui County	18
1.3.13 Live Births, Maui County by Districts	18
1.3.14 Population and Economic Projections, Maui County: 1990 to 2010	19
1.4.1 Personal Income, Total and Per Capita, by Counties	20
1.4.2 Cost of Living Comparison	21
1.4.3 Consumer Price Index (All Items Combined), by Type of Consumer, for Honolulu: Semi-annually and Annually	21
1.4.4 Consumer Price Index for All Urban Consumers (CPI-U), by Expenditure Category, Commodity and Service Group, for Honolulu: Annual Averages	22
1.4.5 Estimated Costs of Living by Category, Counties of Hawaii Relative to Washington, DC	24
1.5.1 Capacities of Hospitals, Care Homes and Agencies, Maui County	25
1.5.2 Health Practitioners Licensed in Hawaii by Place of Address	26
EDUCATION	
Introduction	28
2.1 Maui District Public and Private Schools by Island and Location	29

2.2	Schools, Enrollment, and High School Graduates for Public and Private School Systems, Maui County	30
2.3	Public Schools: Enrollment and Grades, Maui District	31
2.4	Private Schools: Enrollment and Grades, Maui District	32
2.5	Library Holdings and Circulation, Hawaii State Library System, Maui Library District	33
2.6	Library Holdings and Circulation, Maui Community College	33
2.7	Degrees and Certificates Earned by Degree and Program at Maui Community College, Fiscal Years Ending June 30	34
2.8	University of Hawaii Distance Learning Course and Registration Counts, by Island	35
2.9	Maui Community College, Number of Students and Faculty	36

GEOGRAPHY & LAND USE

	Introduction	38
3.1.1	Land and Water Area of Counties and Islands	39
3.1.2	General Coastline and Tidal Shoreline of Hawaii, by County and Island	40
3.1.3	Major Named Waterfalls, Maui County	41
3.1.4	Elevations of Major Summits	42
3.1.5	Miscellaneous Geographic Statistics, by Islands	44
3.1.6	Temperature and Precipitation Averages and Extremes, Maui County	45
3.1.7	Monthly Rainfall and Temperature at Specified Locations in Maui County	46
3.1.8	Annual Rainfall and Temperature at Specified Locations, Maui County	48
3.2.1	Trends in Real Property Tax Base, Maui County	49
3.2.2	Land Use Districts, Maui County	50
3.2.3	Estimated Acreage of Land Use Districts, by Islands	51
3.2.4	Map of Land Ownership, Maui County	52
3.2.5	Land Ownership in the State of Hawaii	53
3.2.6	Land in Hawaii Owned by Selected Large Landowners	54
3.2.7	Department of Hawaiian Home Lands Acreage, Lessees, and Applicants, by Islands	54
3.2.8	Single Family Home and Condominium Sales by Area, Maui County	55
3.2.9	Forest Acreage, Maui County	56

GOVERNMENT

	Introduction	58
4.1	Maps of Election Districts	59
4.2	Registered Voters in General Elections, by Judicial District, Maui County	63
4.3	Votes Cast in General Elections by Judicial District, Maui County	63
4.4	Maui County General Election Results, November 3, 1998	64
4.5	Maui County General Election Results, Office of Hawaiian Affairs Trustees and Amendments, November 3, 1998	65
4.6	County Statement of Revenues and Expenditures, All Governmental Fund Types and Expendable Trust Funds, Maui County	66
4.7	State Tax Collections, Maui County Fiscal Years Ending June 30	67
4.8	Estimated Real Property Tax Revenue, Maui County	68
4.9	Real Property Tax Rates, Maui County	69

4.10	State and Local Tax and Fee Burden, Taxes and Fees Related to Population and Personal Income, by State	70
4.11	Public Bonded Debt of State and Maui County Governments	72

AGRICULTURE & AQUACULTURE

Introduction	74
5.1.1 Map of Agricultural Areas, Maui County	75
5.1.2 Tenure and Characteristics of Farm Operators and Types of Farm Organization, Maui County	76
5.1.3 Farms and Land in Farms, Maui County	78
5.1.4 Number of Farms, Farm Acreage, and Farm Employment, Maui County	79
5.1.5 Market Value of Agricultural Products Sold, Hawaii and Maui County	79
5.1.6 Value of Crop and Livestock Sales, Hawaii and Maui County	80
5.1.7 Acreage in Crop and Number of Crop Farms, Maui County	80
5.1.8 Value of Crop Sales and Volume of Crop Marketings, Maui County	81
5.1.9 Pineapple: Number of Farms, Acreage in Crop, Volume of Crop Marketings, Value of Crop Sales, Maui County	81
5.1.10 Sugarcane: Number of Farms, Acreage Yield, Production, Price and Value, Maui Island	82
5.1.11 Sugar Companies, Acreage and Production, Maui County	82
5.1.12 Livestock: Number of Operations, Volume of Marketings, and Value of Sales, Maui County	83
5.1.13 Vegetables, Melons and Taro, Acreage, Production and Value, Maui County	84
5.1.14 Floriculture and Nursery Products, Maui County	86
5.1.15 Floriculture and Nursery Products by Commodity, Maui County	86
5.2.1 Aquaculture Operations and Production, Maui County	87
5.2.2 Aquaculture Production Value, Maui County	87
5.2.3 Commercial Fish Landings, Maui County: 1982 to 1996	88
5.2.4 Sea Species Commonly Caught near Fish Aggregating Devices, Maui County	89
5.3.1 Agricultural Landholdings of Foreign Owners, 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 Automotive Rental and Leasing Without Drivers, State of Hawaii and Maui County	98

6.2.7	Aircraft Operations by Type of Aircraft, Major State-Owned Airports	99
6.2.8	Aircraft Operations by Type of Aircraft, Kahului and Molokai Airports	99
6.2.9	Passengers, Cargo and Mail, Overseas and Interisland, Maui County Airports	100
6.2.10	State Commercial Harbors, Maui County	101
6.2.11	Small Craft Mooring Facilities, Maui County	101
6.2.12	Kahului Harbor Freight Traffic by Commodity	102
6.2.13	Vessel Arrivals for Kahului Harbor	104
6.2.14	Freight Traffic for Kahului Harbor	104

ENERGY & SCIENCE

	Introduction	106
7.1.1	Electric Company Residential Customers, Maui County by Districts	107
7.1.2	Electric Utilities, Maui County	108
7.1.3	Energy Generated, Purchased, Sold and Used by Sugar Plantations, Maui County	110
7.1.4	Gas Utilities, Maui County	111
7.1.5	Hawaii State Energy Data Report, Consumption of Energy by End-Use Sector	112
7.1.6	Water Services and Consumption, Maui County	113
7.2.1	Telescopes at the Summits of Mauna Kea and Haleakala	114

CONSTRUCTION & HOUSING

	Introduction	116
8.1.1	Number and Value of Building Permits, Maui County	117
8.1.2	Building Permits by Type, Maui County	117
8.1.3	Building Permits Issued by District, Maui County	118
8.1.4	Private Residential Construction Authorizations, Maui County	118
8.1.5	Building Permits and Construction Put in Place, Maui County	119
8.1.6	Private Authorizations for New Commercial and Industrial Construction, Maui County	119
8.1.7	Private Residential Construction and Demolition Authorized by Permits, Maui County	120
8.1.8	Hotel Construction Authorizations, Maui County	120
8.1.9	Summary of Private Construction Authorizations, Maui County	121
8.1.10	Construction Establishments by Type and Location, Maui County	122
8.2.1	Components of Change in the Housing Inventory, by Control, Maui County	123
8.2.2	Estimated Value of Land Transactions, by Counties	124
8.2.3	Resident and Non-Resident Housing Units, Maui County	125
8.2.4	Tenure and Control of Housing, Maui County	126
8.2.5	Housing Units Owned by Government Agencies, Maui and Kalawao Counties	127
8.2.6	Selected Housing Characteristics, Maui County	128
8.2.7	Housing Unit Characteristics of Divisions and Census Designated Places (CDP), Maui County	129
8.2.8	Housing Vacancy Characteristics of Divisions and Census Designated Places (CDP), Maui County	130
8.2.9	Owner-Occupied Housing Unit Characteristics of Divisions and Census Designated Places (CDP), Maui County	131

8.2.10	Owner-occupied Housing Unit Values in Divisions and Census Designated Places (CDP), Maui County	132
8.2.11	Renter-occupied Housing Unit Characteristics in Divisions and Census Designated Places (CDP), Maui County	133
8.2.12	Contract Rent of Renter-Occupied Housing Units in Divisions and Census Designated Places (CDP), Maui County	134

FINANCE & LABOR

	Introduction	136
9.1.1	Number of Financial Institutions by Type, Maui County	137
9.1.2	Deposits in Offices of FDIC-Insured Institutions, Maui County	137
9.1.3	Federal Credit Unions by Asset Size, Membership and Loans, Maui County	138
9.1.4	Federal Credit Union Characteristics, Maui County	138
9.2.1	Civilian Labor Force Summary, State of Hawaii and Counties	139
9.2.2	Employment Status of the Civilian Labor Force by Island, Maui County	140
9.2.3	Labor Force by Race and Sex, Maui County	142
9.2.4	Annual Average Jobcount by Industry and Island, Maui County	143
9.2.5	Average Pay Rates for Selected Job Classifications in Private Industry, Maui County	144

VISITOR INDUSTRY & RECREATION

	Introduction	146
10.1.1	Average Daily Visitor Census, by Counties	147
10.1.2	Visitor Arrivals, Maui County	148
10.1.3	Length of Stay and Average Daily Census Eastbound, Westbound and Total, by Island, Maui County	149
10.1.4	Westbound Mainland Visitors to Maui County	150
10.1.5	Visitors to Maui County by Month	152
10.1.6	Nation of Residence of Visitors to Maui County	153
10.2.1	PKF-Hawaii Occupancy and Room Rates, Food and Beverage Sales, Islands of Maui and Molokai	154
10.2.2	PKF-Hawaii Trends in the Hotel Industry, Maui County	155
10.2.3	PKF-Hawaii Quality and Size Report, Maui County	155
10.2.4	PricewaterhouseCoopers Hospitality Report, Maui Island	156
10.2.5	Visitor Plant Inventory by Island and Price, Maui County	156
10.2.6	Visitor Plant Inventory by Island and Type, Maui County	157
10.2.7	Summary of Visitor Plant Inventory by Area and Type, Maui County	158
10.2.8	Visitor Plant Inventory, Maui County	159
10.2.9	Largest Hotels by Number of Sleeping Rooms, Maui County	160
10.3.1	Expenditures Per Day by Visitors from the Mainland and Japan, by Expenditure Type, State of Hawaii	161
10.3.2	Economic Activity Generated by Visitor-related Expenditures, State of Hawaii	162
10.3.3	Visitor Expenditures by Island	162
10.4.1	Summary Characteristics of Westbound and Eastbound Visitors to Maui County	163
10.5.1	Attendance at Museums and Other Cultural Attractions, Maui County	164
10.5.2	National and State Historic Sites, Maui County	165

10.5.3	National, State and County Parks, Maui County	165
10.6.1	Seating Capacities of Selected Facilities, Maui County	166
DOMESTIC TRADE		
	Introduction	168
11.1.1	Manufacturing Kahului and Maui County	169
11.1.2	Map of Industrial Parks, Island of Maui	170
11.2.1	General Excise Tax Base, Maui County	171
11.2.2	Retail Establishments by Type and Location	172
11.2.3	Characteristics of Major Shopping Centers, Maui County	174
11.2.4	Retail Establishments with Payroll, Maui County	174
11.2.5	Summary of Retail Trade by Business Group, Maui County	175
11.2.6	Merchandise Line Sales of Retail Establishments with Payroll, for the State, Oahu and the Rest of the State	176
11.2.7	Commercial Lease Rents, Maui Island	177
11.3.1	Characteristics of Business Establishments by Sector, Maui County	178
11.3.2	Largest Private Corporations, Maui County	180
11.3.3	Characteristics of Business Establishments, Maui County	180
11.3.4	Number of Business Establishments, State of Hawaii and Maui County	181
11.3.5	Service Establishments with Payroll and Subject to Federal Income Tax, for Places with 2,500 Inhabitants or More, Maui County	182
11.3.6	Service Establishments by Type and Location	184
SELECTED SUBJECT DEFINITIONS		186
INDEX		187

Section 1

GENERAL STATISTICS

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

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

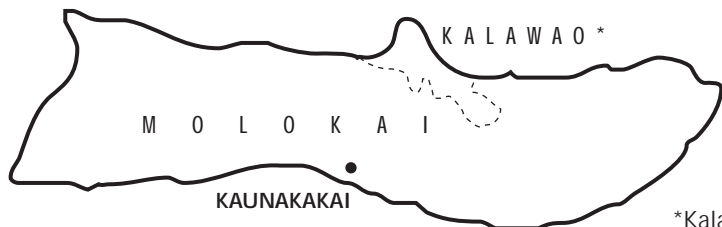
Population statistics are based on the April 1, 1990 census figures modified by provisional estimates supplied by the Federal-State Cooperative Program for Population Estimates.

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

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

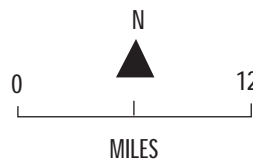
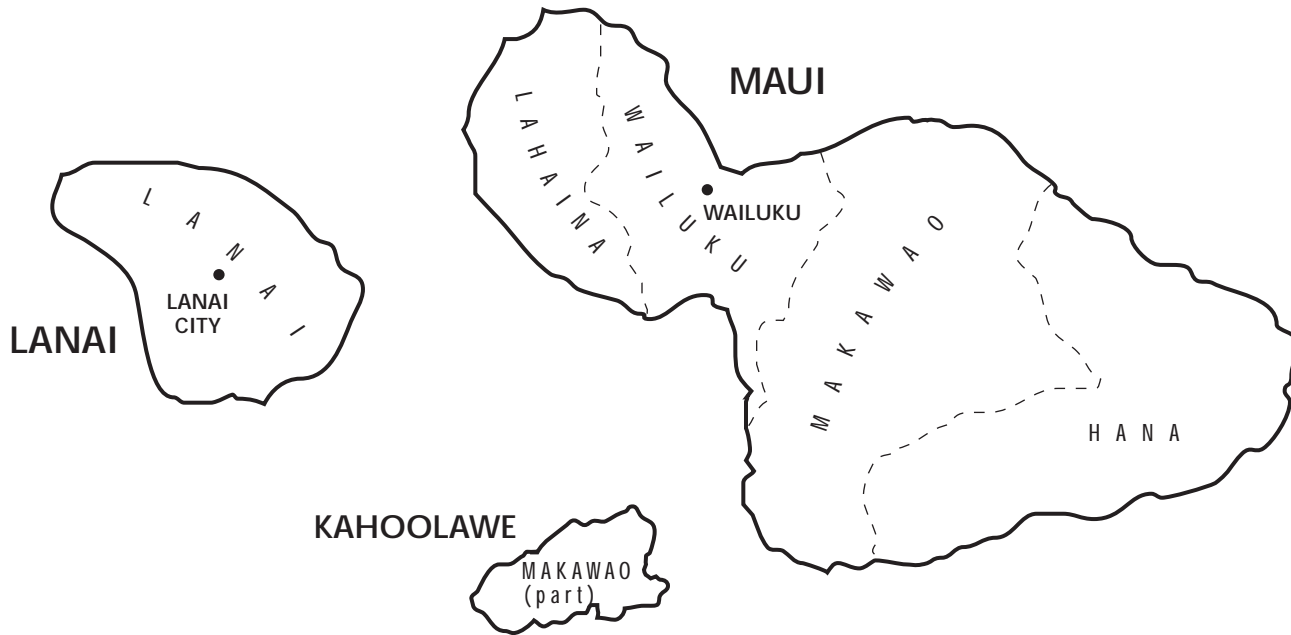
1.1.1

MAUI COUNTY AND DISTRICTS



MOLOKAI

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



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

1.2.1 MAUI COUNTY STATISTICS

	Unit	Period	1994	1995	1996	1997	1998	1999	%Change Annual 98/99	%Change Annual 97/98
Resident Population ^{1p}	Number	July 1	112,711r	115,305r	117,570r	119,129r	120,691r	121,997	1.1	1.3
Civilian Labor Force ^r	Number	Mo. Avg.	65,800	65,800	68,050	69,250r	70,050r	71,650p	2.3	1.2
Employment ^f	Number	Mo. Avg.	61,300	61,000	63,050	64,050	65,250r	67,550p	3.5	1.9
Unemployment ^f	Number	Mo. Avg.	4,500	4,800	4,950	5,200	4,750r	4,100p	-13.7	-8.7
Unemployment rate ^f	Percent	Mo. Avg.	6.8	7.3	7.3	7.5	6.8	5.7p	-1.1*	-0.7*
Total Job Count ^{2r}	Number	Mo. Avg.	54,350	53,950	54,250	55,450r	56,700r	58,350	2.9	2.3
Gross Business Receipts	Mil. \$	Total	2,881.0	2,804.0	2,525.5 ³	1,984.0 ³	2,107.9 ³	3,429.5	62.7	6.2
State Tax Collections ⁵	Thous. \$	Total	173,014	167,476	194,659 ³	193,662 ³	212,588 ³	234,878	10.5	9.8
Estimated Westbound Visitors	Thous.	Total	1,900.3	1,855.7	1,830.1	1,879.3	1,944.2r	1,999.5p	2.8	3.5
Estimated Eastbound Visitors	Thous.	Total	454.3	489.9	494.9	471.0	416.2r	325.0p	-21.9	-11.6
Hotel Inventory	Number	Feb.	18,804	NA	17,824	18,552	18,650	NA	NA	0.5
Hotel Occupancy	Percent	Mo. Avg.	73.2	73.5	73.4	71.6	72.8	77.3	4.5*	-1.8*
Construction Put in Place	Thous. \$	Total	207,770	187,172	180,021	NA	NA	NA	NA	NA
Private Permits	Thous. \$	Total	194,752	215,073	155,955	152,773	163,638	229,162	40.0	7.1
Residential Permits	Thous. \$	Total	123,620	81,231	94,922	86,855	91,291	123,633	35.4	5.1
Non-Residential Permits	Thous. \$	Total	71,132	133,842	61,033	28,437	37,668	60,488	60.6	32.5
Public Contracts Awarded	Thous. \$	Total	101,051	40,153	82,095	NA	NA	NA	NA	NA
Real Estate Resales										
Single Family	Number	Total	372	309	445	505	638r	937p	46.9	26.3
Average Price	Dollars	Avg.	358,073	354,902	367,247	352,772	372,084r	356,591p	-4.2	5.5
Condominium	Number	Total	542	472	572	809	996r	1,321p	32.6	23.1
Average Price	Dollars	Avg.	245,087	236,486	243,362	211,609	230,184r	227,313p	-1.2	8.8
Sugar Production, Raw Sugar 96'	Thous. Ton	Total	241	229	232	224	237	NA	NA	5.8
Pineapple Sales, Fresh Equivalent	Thous. \$	Total	25,150	24,775	27,144	28,295	NA	NA	NA	NA
Diversified Crops/Livestock	Thous. \$	Total	43,539	40,482	42,243	45,413	NA	NA	NA	NA
Diversified Crops	Thous. \$	Total	32,797	29,889	32,100	34,258	NA	NA	NA	NA
Livestock	Thous. \$	Total	10,742	10,593	10,143	11,155	NA	NA	NA	NA

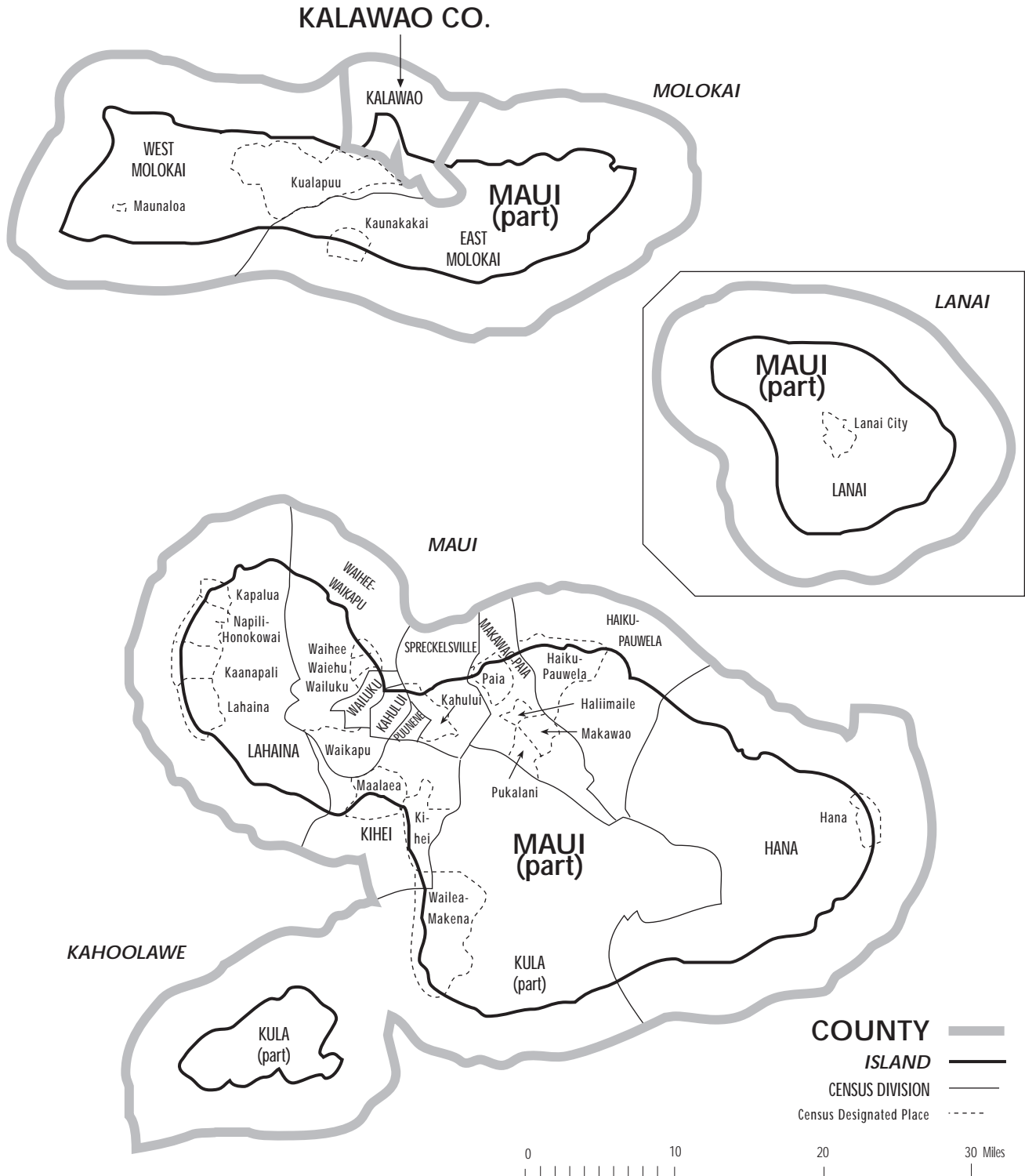
1. Preliminary estimates by the U.S. Bureau of the Census. 2. Refers to number of jobs rather than number of persons employed. Persons with more than one job are counted more than once.
 3. 1996-1997 figures are not comparable to other years due to low allocation to counties of electronically filed tax data. 4. Totals do not include real property taxes.

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

SOURCE: County of Maui, *Maui County Data Book 2000*, after First Hawaiian Bank, *Supplement to Economic Indicators*, September/October 1997.

1.3.1

MAUI COUNTY SUBDIVISIONS AND PLACES



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

1.3.2

RESIDENT POPULATION BY COUNTIES

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

Date	Maui County ¹	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 (revised)	101,588	121,458	51,625	838,032	1,112,703
July 1, 1991 (revised)	105,013	126,684	53,121	846,594	1,131,412
July 1, 1992 (revised)	107,543	130,524	53,975	857,884	1,149,926
July 1, 1993 (revised)	110,424	133,428	54,789	862,867	1,161,508
July 1, 1994 (revised)	112,711	135,547	55,686	869,959	1,173,903
July 1, 1995 (revised)	115,305	137,761	56,055	871,369	1,180,490
July 1, 1996 (revised)	117,570	138,792	56,463	871,609	1,184,434
July 1, 1997 (revised)	119,129	140,824	56,254	873,115	1,189,322
July 1, 1998 (revised)	120,691	141,805	56,208	871,768	1,190,472
July 1, 1999	121,997	142,390	56,539	864,571	1,185,497

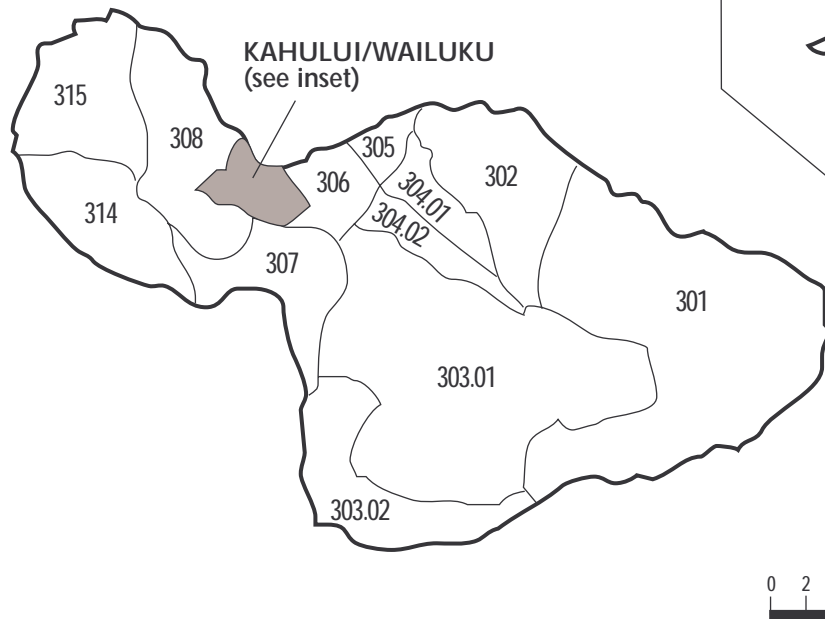
¹ Including Kalawao County (Kalaupapa Settlement).

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

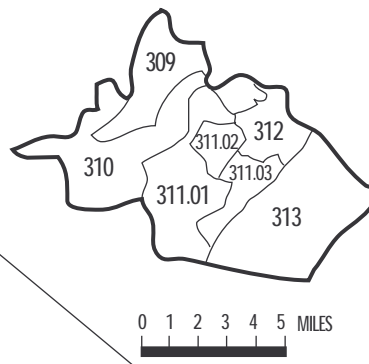
1.3.3

MAUI COUNTY CENSUS TRACTS

ISLAND OF MAUI

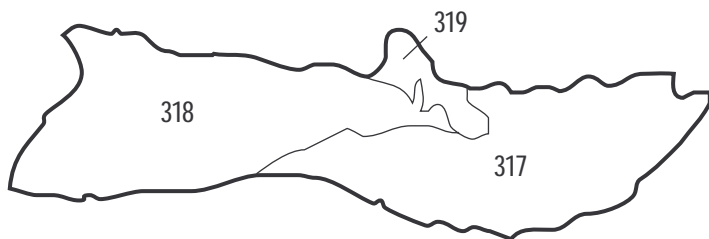


KAHULUI AND WAILUKU

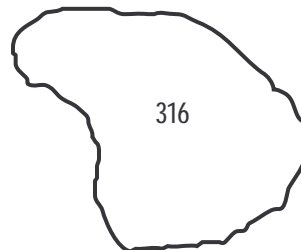


NOTE: Census Tract 303.02 includes the Islands of Kahoolawe and Molokini (not shown).

ISLAND OF MOLOKAI



ISLAND OF LANAI



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

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.

1990 - 1997 figures revised

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

¹ Including Kalawao County (Kalaupapa Settlement). The 1998 defacto population of Kalawao was 74.

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

1.3.5

RESIDENT POPULATION BY COUNTIES AND DISTRICTS

County and District	April 1, 1980	April 1, 1990	July 1, 1995	Percent Change	
				1980 to 1990	1990 to 1995
State Total	964,691	1,108,229	1,179,198	14.9	6.4
Maui County¹	70,991	100,504	115,163	41.6	14.6
Hana	1,423	1,895	2,027	33.2	7.0
Makawao	19,005	29,207	33,854	53.7	15.9
Wailuku	32,111	45,685	53,316	42.3	16.7
Lahaina	10,284	14,574	16,137	41.7	10.7
Lanai	2,119	2,426	2,989	14.5	23.2
Molokai	5,905	6,587	6,745	11.5	2.4
Kalawao	144	130	93	-9.7	-28.5
City & Co. of Honolulu	762,565	836,231	870,761	9.7	4.1
Honolulu	365,048	377,059	369,485	3.3	-2.0
Koolaupoko	109,373	117,694	121,990	7.6	3.7
Koolauloa	14,195	18,443	19,152	29.9	3.8
Waialua	9,849	11,549	11,572	17.3	0.2
Wahiawa	41,562	43,886	48,905	5.6	11.4
Waianae	31,487	37,411	37,966	18.8	1.5
Ewa	191,051	230,189	261,691	20.5	13.7
Hawaii County	92,053	120,317	137,291	30.7	14.1
Puna	11,751	20,781	27,585	76.8	32.7
South Hilo	42,278	44,639	45,790	5.6	2.6
North Hilo	1,679	1,541	1,561	-8.2	1.3
Hamakua	5,128	5,545	5,757	8.1	3.8
North Kohala	3,249	4,291	4,826	32.1	12.5
South Kohala	4,607	9,140	12,098	98.4	32.4
North Kona	13,748	22,284	25,447	62.1	14.2
South Kona	5,914	7,658	8,619	29.5	12.5
Ka'u	3,699	4,438	5,607	20.0	26.3
Kauai County	39,082	51,177	55,983	30.9	9.4
Hanalei	2,668	4,631	5,404	73.6	16.7
Kawaihau	10,497	15,627	17,537	48.9	12.2
Lihue	8,590	10,663	11,237	24.1	5.4
Koloa	8,734	11,368	12,586	30.2	10.7
Waimea	8,593	8,888	9,220	3.4	3.7

NOTE: Based on revised 1995 population estimates.

¹ Including Kalawao County.

SOURCE: U.S. Department of Commerce, Bureau of the Census, 1990 Census of Population and Housing, Population and Housing Unit Counts, Hawaii, 1990 CPH-2-13 (March 1993), table 8; 1995 county estimates from the Federal-State Cooperative Program for Population Estimates; 1995 district estimates by Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division.

1.3.6

**RESIDENT POPULATION, LAND AREA, AND
POPULATION DENSITY OF DIVISIONS AND CENSUS
DESIGNATED PLACES, MAUI COUNTY**

District and Place	All Persons	Land Area (sq. miles)	Persons Per Square Mile
Maui County Total	100,374	1,159.3	86.6
East Molokai division	4,419	119.4	37.0
Kaunakakai CDP	2,658	2.0	1,329.0
Haiku-Pauwela division	5,695	59.9	95.1
Haiku-Pauwela CDP	4,509	15.8	285.4
Hana division	1,895	180.4	10.5
Hana CDP	683	2.2	310.5
Kahului division	16,672	5.8	2,874.5
Kahului CDP (part)	16,672	5.8	2,874.5
Kihei division	12,878	38.8	331.9
Kihei CDP	11,107	10.2	1,088.9
Maalaea CDP	443	4.8	92.3
Wailea-Makena CDP (part)	1,322	0.5	2,644.0
Kula division	8,021	263.5	30.4
Wailea-Makena CDP (part)	2,477	22.1	112.1
Lahaina division	14,574	95.9	152.0
Kaanapali CDP	579	4.9	118.2
Kapalua CDP	408	1.7	240.0
Lahaina CDP	9,073	5.8	1,564.3
Napili-Honokowai CDP	4,332	5.9	734.2
Lanai division	2,426	140.5	17.3
Lanai City CDP	2,400	3.6	666.7
Makawao-Paia division	15,491	43.3	357.8
Haliimaile CDP	841	1.7	494.7
Makawao CDP	5,405	4.7	1,150.0
Paia CDP	2,091	6.1	342.8
Pukalani CDP	5,879	4.4	1,336.1
Puunene division	217	4.6	47.2
Kahului CDP (part)	217	4.6	47.2
Spreckelsville division	213	19.8	10.8
Kahului CDP (part)	-	4.8	-
Waihee-Waikapu division	2,273	54.6	41.6
Waihee-Waiehu CDP (part)	892	3.4	262.4
Waikapu CDP	729	11.0	66.3
Wailuku CDP (part)	368	0.7	525.7
Wailuku division	13,432	5.3	2,534.3
Waihee-Waiehu CDP (part)	3,112	0.9	3,457.8
Wailuku CDP (part)	10,320	4.4	2,345.5
West Molokai division	2,168	127.4	17.0
Kualapuu CDP	1,661	30.5	54.5
Maunaloa CDP	405	0.2	2,025.0

NOTE: "CDP" means Census Designated Place, a "densely settled concentration of population that is identifiable by name." The boundaries of a CDP can differ from the boundaries of a division or a census tract.

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 15.

1.3.7

**RESIDENT POPULATION AND HOUSEHOLDS,
MAUI COUNTY BY DISTRICTS AND CENSUS TRACTS**

District and Census Tract	Population	Households
Maui County Total	100,374	33,145
Hana	1,895	589
301	1,895	589
Makawao	29,207	9,798
302	5,695	1,916
303.01	5,525	1,960
303.02	2,496	1,029
304.01	7,271	2,290
304.02	6,127	1,929
305	2,093	674
Wailuku	45,685	15,017
306	213	85
307	12,869	4,902
307.99 ¹	9	–
308	2,273	655
309	8,372	2,509
310	5,060	1,849
311.01	4,516	1,297
311.02	4,332	1,475
311.03	4,438	1,099
312	3,386	1,099
313	217	47
Lahaina	14,574	4,868
314	9,189	2,683
315	5,385	2,185
Lanai	2,426	847
316	2,426	847
Molokai	6,587	2,026
317	4,419	1,407
318	2,168	619
Kalawao	130	62
319	130	62

¹ Persons living aboard vessels.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *1990 Census of Population and Housing, Summary Tape File 1A*, tabulated by the Hawaii State Data Center, Department of Business, Economic Development and Tourism.

1.3.8

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

	All Persons	SEX		RACE					Hispanic Origin (of any race)
		Male	Female	White	Black	Amer. Indian, Eskimo, or Aleutian	Asian or Pacific Islander	Other Race	
Haiku-Pauwela division	5,695	2,923	2,772	3,446	38	76	1,976	159	619
Haiku-Pauwela CDP	4,509	2,313	2,196	2,634	28	71	1,664	112	536
Hana division	1,895	998	897	737	7	15	1,124	12	174
Hana CDP	683	354	329	163	-	1	515	4	63
Kahului division	16,672	8,259	8,413	2,595	77	41	13,679	280	1,455
Kahului CDP (part)	16,672	8,259	8,413	2,595	77	41	13,769	280	1,455
Kihei division	12,878	6,679	6,199	8,290	104	107	4,157	220	922
Kihei CDP	11,107	5,750	5,357	6,853	87	99	3,869	199	862
Maalaea CDP	443	233	210	386	11	3	40	3	8
Wailea-Makena CDP (part)	1,322	692	630	1,046	6	5	247	18	52
Kula division	8,021	4,047	3,974	5,599	24	37	2,298	63	451
Wailea-Makena CDP (part)	2,477	1,267	1,210	2,006	14	13	422	22	94
Lahaina division	14,574	7,729	6,845	6,514	78	49	7,683	250	946
Kaanapali CDP	579	294	285	495	1	1	78	4	26
Kapalua CDP	408	284	124	343	-	-	59	6	9
Lahaina CDP	9,073	4,739	4,334	2,863	39	22	6,002	147	595
Napili-Honokowai CDP	4,332	2,309	2,023	2,733	37	26	1,445	91	309
Makawao-Paia division	15,491	7,860	7,631	7,285	68	85	7,681	372	1,572
Hallimaile CDP	841	407	434	189	1	8	620	23	111
Makawao CDP	5,405	2,695	2,710	2,927	27	28	2,250	173	628
Paia CDP	2,091	1,090	1,001	724	12	15	1,275	65	276
Pukalani CDP	5,879	2,977	2,902	2,455	22	26	3,272	104	501

1.3.8
CONTINUED

	All Persons	SEX		RACE					Hispanic Origin (of any race)
		Male	Female	White	Black	Amer. Indian, Eskimo, or Aleutian	Asian or Pacific Islander	Other Race	
Puunene division	217	132	85	63	2	1	130	21	36
Kahului CDP (part)	217	132	85	63	2	1	130	21	36
Spreckelsville division	213	108	105	187	-	-	26	-	6
Kahului CDP (part)	-	-	-	-	-	-	-	-	-
Waihee-Waikapu division	2,273	1,163	1,110	629	10	4	1,587	43	151
Waihee-Waiehu CDP (part)	892	454	438	216	1	2	657	16	52
Waikapu CDP	729	366	363	182	6	2	524	15	55
Wailuku CDP (part)	368	187	181	117	-	-	248	3	21
Wailuku division	13,432	6,718	6,714	3,004	60	59	10,085	224	932
Waihee-Waiehu CDP (part)	3,112	1,555	1,557	635	13	15	2,391	58	266
Wailuku CDP (part)	10,320	5,163	5,157	2,369	47	44	7,694	166	666
East Molokai division	4,419	2,216	2,203	753	15	37	3,584	30	228
Kaunakakai CDP	2,658	1,323	1,335	337	6	9	2,292	14	134
West Molokai division	2,168	1,113	1,055	398	9	6	1,734	21	80
Kualapuu CDP	1,661	846	815	249	5	1	1,399	7	32
Maunaloa CDP	405	216	189	71	4	5	314	11	43
Kalawao division	130	80	50	30	-	-	100	-	11
Lanai division	2,426	1,256	1,170	266	2	4	2,141	13	211
Lanai City CDP	2,400	1,243	1,157	256	1	4	2,126	13	211
Maui County Total	100,374	51,201	49,173	39,766	494	521	57,885	1,708	7,781

NOTE: See appendix for selected subject definitions.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *1990 Census of Population and Housing: Summary Population and Housing Characteristics: Hawaii, 1990*, CPH-1-13, table 3.

1.3.9

**SUMMARY BY AGE OF PERSON,
MAUI COUNTY DIVISIONS AND CENSUS DESIGNATED PLACES**

	All Persons	Under 5 yrs	16 yrs and over	18 yrs and over	18 to 20 yrs	21 to 24 yrs	25 to 44 yrs	45 to 54 yrs	55 to 59 yrs	60 to 64 yrs	65 yrs and over	75 yrs and over	85 yrs and over	Median Age
Haiku-Pauwela division	5,695	490	4,111	3,968	184	223	2,324	512	166	168	391	146	29	32.7
Haiku-Pauwela CDP	4,509	346	3,302	3,174	159	187	1,812	415	137	133	331	135	28	32.8
Hana division	1,895	207	1,328	1,254	77	79	616	169	71	67	175	66	13	31.1
Hana CDP	683	76	474	440	46	42	188	54	28	33	49	13	3	26.3
Kahului division	16,672	1,254	12,805	12,332	688	957	4,844	1,668	737	851	2,587	1,032	272	34.0
Kahului CDP (part)	16,672	1,254	12,805	12,332	688	957	4,844	1,668	737	851	2,587	1,032	272	34.0
Kihei division	12,878	901	10,197	9,950	429	733	5,440	1,375	462	478	1,033	288	46	33.5
Kihei CDP	11,107	808	8,716	8,490	397	664	4,718	1,161	383	358	809	225	41	32.7
Maalaea CDP	443	11	412	408	7	12	184	70	31	35	69	22	2	43.3
Wailea-Makena CDP (part)	1,322	82	1,063	1,046	25	57	536	144	48	84	152	41	3	37.2
Kula division	8,021	584	6,205	6,046	179	238	3,101	922	318	317	971	346	96	37.0
Wailea-Makena CDP (part)	2,477	133	2,052	2,016	54	82	995	335	116	135	299	72	9	39.0
Lahaina division	14,574	1,040	11,715	11,329	553	969	5,844	1,364	541	620	1,438	517	82	32.8
Kaanapali CDP	579	28	506	500	8	15	193	74	42	46	122	37	5	44.5
Kapalua CDP	408	13	338	274	36	30	105	35	17	14	37	7	2	25.8
Lahaina CDP	9,073	655	7,144	6,888	376	615	3,293	877	327	416	984	374	62	32.3
Napili-Honokowai CDP	4,332	324	3,587	3,532	127	298	2,178	364	145	138	282	94	11	32.8
Makawao-Paia division	15,491	1,316	11,264	10,784	614	673	5,801	1,500	503	465	1,228	463	101	31.6
Haliimaile CDP	841	58	638	620	37	45	268	63	42	41	124	49	6	33.5
Makawao CDP	5,405	536	3,787	3,636	184	212	2,240	468	119	104	309	110	28	30.4
Paia CDP	2,091	159	1,608	1,544	96	120	749	205	67	62	245	113	27	31.8
Pukalani CDP	5,879	483	4,237	4,064	210	242	2,083	604	230	224	471	161	37	32.4

1.3.9
CONTINUED

	All Persons	Under 5 yrs	16 yrs and over	18 yrs and over	18 to 20 yrs	21 to 24 yrs	25 to 44 yrs	45 to 54 yrs	55 to 59 yrs	60 to 64 yrs	65 yrs and over	75 yrs and over	85 yrs and over	Median Age
Puunene division	217	11	175	172	11	18	63	12	9	10	49	19	4	35.9
Kahului CDP (part)	217	11	175	172	11	18	63	12	9	10	49	19	4	35.9
Spreckelsville division	213	14	171	168	6	7	70	37	10	13	25	10	3	41.7
Kahului CDP (part)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Waihee-Waikapu division	2,273	176	1,633	1,570	84	71	740	231	86	96	262	88	23	34.0
Waihee-Waiehu CDP (part)	892	58	669	643	29	24	278	82	43	54	133	45	12	35.6
Waikapu CDP	729	43	546	526	34	31	203	94	28	33	103	36	11	35.2
Wailuku CDP (part)	368	47	229	223	7	8	169	25	6	1	7	2	-	31.8
Wailuku division	13,432	987	10,261	9,912	466	603	4,449	1,262	510	675	1,947	830	218	34.4
Waihee-Waiehu CDP (part)	3,112	322	2,097	1,991	119	138	1,116	272	84	87	175	56	8	28.8
Wailuku CDP (part)	10,320	665	8,164	7,921	347	465	3,333	990	426	588	1,772	774	210	36.3
East Molokai division	4,419	476	2,983	2,856	146	168	1,202	412	174	185	569	251	62	30.8
Kaunakakai CDP	2,658	281	1,795	1,715	81	92	694	234	111	114	389	172	46	31.1
West Molokai division	2,168	209	1,465	1,380	66	88	570	235	86	97	238	77	15	30.4
Kualapuu CDP	1,661	169	1,127	1,061	56	65	421	182	67	78	192	56	12	30.7
Maunaloa CDP	405	37	254	238	9	22	112	39	13	11	32	21	3	25.7
Kalawao division	130	-	130	130	-	1	24	24	9	28	44	18	6	61.1
Lanai division	2,426	181	1,848	1,770	84	98	619	271	114	138	446	183	27	35.9
Lanai City CDP	2,400	179	1,829	1,751	84	98	611	269	114	138	437	178	27	35.8
Maui County Total	100,374	7,846	76,161	73,491	3,587	4,925	35,683	9,970	3,787	4,180	11,359	4,316	991	33.4

NOTE: See appendix for selected subject definitions.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *1990 Census of Population and Housing: Summary Population and Housing Characteristics: Hawaii*, 1990 CPH-1-13 (August 1991) table 1; pp. 1, 2, and 3.

1.3.10

RESIDENT POPULATION BY CENSUS DESIGNATED PLACE, MAUI COUNTY

Place	Population
County of Maui	100,374
Maui	91,361
Haiku-Pauwela	4,509
Haliimaile	841
Hana	683
Kaanapali	579
Kahului	16,889
Kapalua	408
Kihei	11,107
Lahaina	9,073
Maalaea	443
Makawao	5,405
Napili-Honokowai	4,332
Paia	2,091
Pukalani	5,879
Waihee-Waiehu ¹	4,004
Waikapu	729
Wailea-Makena	3,799
Wailuku	10,688
Molokai	6,717
Kaunakakai	2,658
Kualapuu	1,661
Maunaloa	405
Lanai	2,426
Lanai City	2,400
Kahoolawe	—

NOTE: This table presents data for "census designated places" defined by the Hawaii State Department of Business, Economic Development & Tourism, in cooperation with the Bureau of the Census, for the 1990 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political.

¹ Spelling corrected from that in census report.

SOURCE: Hawaii State Department of Business, Economic Development & Tourism, *State of Hawaii Data Book: A Statistical Abstract, 1992*, table 7, p. 19 and table 11, p. 22.

1.3.11

ETHNIC STOCK, MAUI COUNTY

*Excludes persons in institutions or military barracks, on Niihau, or in Kalawao
Based on a sample survey of 9,205 persons*

Ethnic Stock¹	State Total	Maui County
All Groups	1,148,676	115,668
Unmixed (except Hawaiian)	673,178	61,912
Caucasian	254,421	30,733
Japanese	233,435	16,662
Chinese	35,682	547
Filipino	114,717	13,222
Korean	8,862	36
Black	16,314	592
Puerto Rican	909	–
Samoan/Tongan	8,838	120
Mixed (except Hawaiian)²	238,371	26,958
Hawaiian/part Hawaiian	237,128	26,798

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

² Includes miscellaneous races and not reported (5,341 in 1989).

1.3.12

COMPONENTS OF CHANGE IN THE RESIDENT POPULATION OF MAUI COUNTY

Change	Births	Deaths	Net International Migration	Federal Citizen Movement	Net Domestic Migration	Residual
7/90-7/91	1,857	649	688	2	1,577	-50
7/91-7/92	1,822	705	549	7	912	-55
7/92-7/93	1,864	640	703	5	992	-43
7/93-7/94	1,856	640	511	4	584	-28
7/94-7/95	1,815	696	691	2	830	-48
7/95-7/96	1,891	720	861	0	280	-47
7/96-7/97	1,790	747	894	2	-355	-25
7/97-7/98	1,779	751	531	1	37	-35
7/98-7/99	1,755	734	662	0	-337	-40
4/90-7/99 Total	16,911	6,438	6,214	22	5,135	-351

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

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

1.3.13

LIVE BIRTHS, MAUI COUNTY BY DISTRICTS

Calendar year and place of mother's residence basis

Year	State Total	Maui County ¹	Hana	Makawao	Wailuku	Lahaina	Lanai	Molokai	District Not Reported
1990	20,438	1,885	37	498	855	297	42	129	27
1991	19,880	1,863	39	487	859	291	40	123	24
1992	19,837	1,884	29	467	905	308	54	112	9
1993	19,567	1,889	30	462	906	316	52	119	4
1994	19,348	1,741	29	452	822	282	46	107	3
1995	18,552	1,891	25	466	964	285	45	100	6
1996	18,378	1,865	31	489	876	315	32	113	8
1997	17,326	1,833	34	431	938	286	44	99	1

¹ Kalawao County included with Maui County. No births recorded except 1 in 1996.

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

1.3.14

POPULATION AND ECONOMIC PROJECTIONS, MAUI COUNTY: 1990 TO 2010

Land use constrained forecast, island level

Forecast Variables	Historical 1990	Projected 1995	1996	2000	2005	2010
Population						
Lanai	2,426	2,787	3,311	5,144	5,157	5,148
Molokai	6,717	6,774	6,827	7,068	7,297	7,242
Maui Island	91,361	102,314	104,274	112,349	121,609	127,670
Maui County	100,504	111,875	114,412	124,562	134,064	140,060
Civilian Jobs						
Lanai	1,287	1,488	1,770	2,764	2,789	2,801
Molokai	1,987	2,111	2,149	2,322	2,539	2,680
Maui Island	51,756	54,452	55,752	61,067	66,428	69,086
Total	54,990	58,051	59,671	66,153	71,755	74,567
Households						
Lanai	847	987	1,176	1,841	1,865	1,881
Molokai	2,088	2,132	2,153	2,247	2,344	2,350
Maui Island	30,272	34,235	34,954	37,947	41,521	44,066
Total	33,207	37,355	38,283	42,035	45,730	48,296
Average Visitor Census						
Lanai	68	581	720	1,210	1,210	1,210
Molokai	616	880	892	945	1,008	1,070
Maui Island	38,150	48,539	49,929	55,545	63,082	66,682
Total	38,834	50,000	51,540	57,700	65,300	68,962
Total Visitor Units						
Lanai	113	478	605	1,113	1,128	1,128
Molokai	559	559	559	559	559	659
Maui Island	17,363	22,392	23,236	26,298	26,298	26,298
Total	18,035	23,429	24,400	27,970	27,985	28,085
Visitor Arrivals						
Lanai	45,930	100,983	125,096	210,310	210,310	210,310
Molokai	103,630	91,781	92,998	98,507	105,160	111,563
Maui Island	2,345,060	2,908,186	2,987,099	3,308,718	3,765,438	3,982,878
Maui County	2,389,970	3,038,868	3,133,038	3,509,865	3,972,271	4,196,323

NOTE: The model used for these projections is not designed to make short-term projections over the next one to three years. Instead, it projects the long run trend that is expected to prevail over the next twenty years. Actual results in any given year may exceed or fall short of this long run trend due to normal boom and bust variations in the business cycle.

SOURCE: Community Resources, Inc., *Maui Socio-Economic Forecast Study*, Final Report, January 1994. Prepared for the Maui County Planning Department.

1.4.1

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

Year	State Total	Maui + Kalawao Counties	City and County of Honolulu	Hawaii County	Kauai County
Total (x \$1,000)					
1983	13,193,413	961,071	10,682,576	1,077,408	472,358
1984	14,123,179	1,016,819	11,502,090	1,117,675	486,595
1985	15,069,700	1,110,782	12,255,214	1,179,028	524,676
1986	16,118,094	1,233,740	13,019,439	1,292,649	572,266
1987	17,366,635	1,340,017	14,035,221	1,380,357	611,040
1988	19,236,760	1,524,055	15,451,660	1,525,256	735,789
1989	21,229,766	1,731,872	16,925,649	1,729,327	842,918
1990	23,956,464	1,989,048	19,026,479	1,991,096	949,841
1991	25,097,971	2,076,561	19,884,116	2,119,357	1,017,937
1992	26,372,209	2,274,511	21,191,215	2,224,829	681,654
1993	27,511,237	2,386,974	21,718,951	2,319,360	1,085,952
1994	28,331,447	2,499,916	22,266,490	2,413,550	1,151,491
1995	29,396,283	2,572,967	23,077,867	2,542,388	1,203,061
1996	29,783,921	2,640,050	23,295,684	2,630,310	1,217,877
1997	30,514,427	2,721,436	23,836,437	2,716,033	1,240,521
1998	31,268,323				
Per Capita (\$)					
1983	13,028	12,004	13,538	10,692	11,037
1984	13,740	12,255	14,417	10,796	11,152
1985	14,494	13,045	15,237	11,133	11,828
1986	15,325	14,118	16,065	11,929	12,559
1987	16,262	14,802	17,149	12,354	12,945
1988	17,815	16,254	18,750	13,446	15,156
1989	19,395	17,888	20,360	14,833	16,910
1990	21,529	19,580	22,702	16,393	18,401
1991	22,171	19,780	23,488	16,642	19,156
1992	22,906	21,153	24,683	16,948	12,623
1993	23,638	21,613	25,127	17,284	19,804
1994	24,090	22,171	25,554	17,710	20,682
1995	24,848	22,294	26,434	18,352	21,448
1996	25,086	22,431	26,681	18,825	21,469
1997	25,598	22,827	27,259	19,147	21,941
1998	26,210				

NOTE: County totals do not sum to state total. Latest annual state personal income figures were released in July 1999; latest county figures were released in May 1999.

SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis. State personal income: *State Personal Income 1929-97*, on CD-ROM (September 1998); *Survey of Current Business* (August 1999), pp. D-66, D-67. County personal income: *Regional Economic Information System 1969-1997*, on CD-ROM (May 1999).

1.4.2

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.

1.4.3

CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY AND ANNUALLY

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
1985	106.3	107.4	106.8	107.4	108.4	107.9
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

NOTE: See section introduction (General Statistics) for CPI-U definition.

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/>).

1.4.4

CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY, COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES

1982–1984 average = 100 unless otherwise noted

Group	1995	1996	1997	1998	1999
ALL ITEMS	168.1	170.7	171.9	171.5	173.3
Food and beverages	156.8	156.6	159.2	159.1	162.9
Food	157.0	156.6	159.5	159.1	163.0
Food at home	162.1	159.5	164.2	162.6	166.2
Food away from home	149.2	150.8	152.6	153.3	158.3
Alcoholic beverages	152.3	156.2	155.2	158.8	161.9
Housing	174.7	176.8	177.1	176.0	175.8
Shelter	191.7	193.5	192.4	192.3	191.7
Rent of primary residence	187.0	187.3	185.7	183.5	181.7
Owners' equivalent rent ¹	198.9	200.4	199.0	198.3	197.0
Fuels and utilities	128.4	133.8	137.1	131.0	133.4
Fuels	111.6	115.9	119.8	112.2	114.3
Gas (piped) and electricity	110.8	115.2	119.1	111.8	113.7
Electricity	111.1	114.5	118.6	111.4	113.4
Utility (piped) gas	98.9	114.7	116.1	107.5	109.2
Household furnishings and operation	146.0	146.4	150.0	145.8	146.4
Apparel	117.5	118.5	117.3	112.2	105.4
Transportation	162.4	167.0	166.2	162.5	162.2
Private transportation	162.8	168.2	167.2	161.7	160.4
Motor fuel	125.5	131.9	132.0	129.3	119.9
Gasoline, all types	128.4	134.9	135.1	132.4	122.6
Gasoline, unleaded regular	133.8	141.4	141.9	138.8	128.8
Gasoline, unleaded midgrade ²	100.9	105.9	105.3	103.6	95.5
Gasoline, unleaded premium	118.3	123.8	123.8	121.9	112.4
Medical care	209.8	215.0	217.3	226.1	231.3
Recreation³	No Data	No Data	No Data	100.8	101.9
Education and communication³	No Data	No Data	No Data	99.1	104.5
Other goods and services	216.8	226.5	239.0	256.1	275.6

1.4.4

CONTINUED

Group	1995	1996	1997	1998	1999
Special aggregate indexes					
All items less shelter	158.9	161.8	164.0	163.4	183.0
All items less medical care	165.8	168.3	169.4	168.6	166.2
All items less energy	173.1	175.5	176.7	176.6	170.2
All items less food and energy	177.5	180.5	181.4	181.3	178.7
Commodities	145.1	146.3	148.3	147.5	148.2
Commodities less food	136.6	138.9	140.3	139.1	137.7
Commodities less food and beverages	135.8	138.1	139.6	138.2	136.6
Durables	130.0	131.8	134.2	131.0	129.7
Nondurables	149.1	150.1	152.0	151.9	153.3
Nondurables less food	140.3	143.0	143.9	143.9	142.4
Nondurables less food and beverages	139.6	142.2	143.2	142.9	141.0
Energy	119.0	124.4	126.3	121.0	117.9
Services	188.3	192.1	192.8	192.6	195.3
Services less rent of shelter ¹	186.8	192.9	195.4	195.3	202.0
Services less medical care	186.0	189.7	190.3	189.7	192.2

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.

¹ December 1982 = 100.

² December 1993 = 100.

³ December 1997 = 100.

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

1.4.5

**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	8,675	5,805	5,805	4,175	3,644	22,299	22,299
	Middle	12,981	8,388	8,388	6,304	6,327	34,000	34,000
	Upper	19,323	12,066	12,066	9,466	10,650	51,505	51,505
Maui County, HI	Lower	10,553	9,226	6,725	5,374	4,006	26,658	29,159
	Middle	15,643	12,533	8,722	8,169	6,865	39,399	43,210
	Upper	23,076	14,401	9,646	12,339	11,438	56,499	61,254
Honolulu, HI	Lower	10,123	11,126	8,261	5,545	4,013	27,942	30,807
	Middle	15,049	15,078	9,550	8,404	6,897	39,900	45,428
	Upper	22,264	21,553	13,770	12,664	11,519	60,217	68,000
Hawaii County, HI	Lower	10,083	6,864	5,440	5,595	3,846	24,964	26,388
	Middle	14,979	9,315	6,272	8,500	6,621	36,372	39,415
	Upper	22,148	10,823	7,450	12,838	11,072	53,508	56,881
Kauai County, HI	Lower	10,402	8,611	5,992	5,450	3,786	25,630	28,249
	Middle	15,427	11,519	7,766	8,282	6,581	38,056	41,809
	Upper	22,774	13,123	8,472	12,512	11,081	54,839	59,490

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 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 = \$22,300/yr, middle = \$34,000/yr, and upper = \$51,500/yr. The proportion of spending in each category to the total is deemed constant between locations. Proportions are based on the U.S. Department of Commerce, Bureau of Labor Statistics, Consumer Expenditure Survey, and vary according to income level.

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

SOURCE: U.S. Office of Personnel Management, "Report on 1997 Surveys Used to Determine Cost-of-Living Allowances in Nonforeign Areas," Appendix 21, *Federal Register* vol. 63, no. 203, October 21, 1998, pp. 56505-56506.

1.5.1

CAPACITIES OF HOSPITALS, CARE HOMES AND AGENCIES, MAUI COUNTY

Data are for facilities recognized by the Hawaii State Health Planning and Development Agency, and the Hospital and Medical Facilities Branch

	HOSPITALS, DECEMBER 31, 1996				CARE HOMES 1998		HOME HEALTH CARE AGENCIES 1996
	Total ¹	Acute Care	Long-term Care	Specialty Care	Type I ²	Type II ³	Total ⁴
Facilities							Agencies
State Total	74	23	47	26	499	12	69
Maui	5	2	2	3	11	0	
Molokai	2	1	1	1	5	1	
Lanai	1	1	1	0	0	0	
County Total	8	4	4	4	16	1	13
Beds							Patients Served⁵
State Total	7,712	2,651	3,830	1,231	2,274	393	31,727
Maui	689	182	463	44	53	0	
Molokai	44	8	22	14	24	12	
Lanai	14	4	10	0	0	0	
County Total	747	194	495	58	77	12	4,777

¹ Facilities providing more than one kind of care are counted only once.

² Five beds or fewer.

³ More than five beds.

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

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

SOURCE: Hawaii State Department of Health, State Health Planning and Development Agency, *Inpatient Facilities Utilization Report, 1996*, and Hawaii State Department of Health, Hospital and Medical Facilities Branch, records.

1.5.2

HEALTH PRACTITIONERS LICENSED IN HAWAII BY PLACE OF ADDRESS

	Acupuncturist	Chiropractor	Dental Hygenist	Dentist	Massage Therapist
Maui	50	50	52	70	667
Molokai	0	1	3	3	5
Lanai	0	0	2	0	11
Oahu	190	150	344	769	1,549
Hawaii	52	31	46	95	566
Kauai	15	15	13	39	246
Subtotal Hawaii	307	247	460	976	3,044
Mainland	76	178	188	304	438
Foreign/Other	5	9	4	13	28
Total	388	434	652	1,293	3,510

	Certified Physician's Assistant	Emergency Medical Tech. Basic	Emergency Medical Tech. Paramedic	Physician or Surgeon ¹	Osteopathic Physician and Surgeon
Maui	8	26	35	229	12
Molokai	0	2	5	6	0
Lanai	0	0	0	2	0
Oahu	35	109	179	2,359	76
Hawaii	9	129	68	273	13
Kauai	5	20	15	110	6
Subtotal Hawaii	57	286	302	2,979	107
Mainland	1	0	5	2,141	270
Foreign/Other	0	1	0	44	1
Total	58	287	307	5,164	378

	Licensed Practical Nurse	Registered Nurse	Advanced Practice Registered Nurse	Occupational Therapist	Physical Therapist
Maui	259	841	11	17	49
Molokai	12	34	2	1	1
Lanai	0	11	1	0	0
Oahu	1,560	6,996	181	183	331
Hawaii	349	979	27	32	66
Kauai	200	405	16	12	28
Subtotal Hawaii	2,380	9,266	238	245	475
Mainland	197	1,931	39	15	220
Foreign/Other	13	140	2	1	12
Total	2,590	11,337	279	261	707

	Naturopath	Optometrist	Pharmacist	Podiatrist	Psychologist
Maui	14	17	63	5	29
Molokai	0	0	2	0	0
Lanai	0	0	0	0	0
Oahu	17	161	609	19	294
Hawaii	13	16	77	3	43
Kauai	4	9	39	2	12
Subtotal Hawaii	48	203	790	29	378
Mainland	12	84	550	24	98
Foreign/Other	0	5	7	2	0
Total	60	292	1,347	55	476

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

SOURCE: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, records, 3/6/2000.

Section 2

EDUCATION

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

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

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

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

2.1

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

MAUI

Hana

Hana High and Elementary	K-12
Keanae	K-3

Kihei

Kamalii	K-5
Kihei Elementary	K-5
Lokelani Intermediate	6-8
Montessori Hale O'Keiki	PreK-4

Lahaina

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

Kahului/Wailuku

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

Upcountry/North Shore

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

LANAI

Lanai High and Elementary	K-12
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MOLOKAI

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

SOURCES: Hawaii State Department of Education, records; Hawaii Association of Independent Schools, *Licensed Private Schools 1998-99*.

2.2

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

	Total	Public	Private
Number of Schools			
September 12, 1990	43	28	15
September 12, 1991	44	28	16
September 14, 1992	43	28	15
September 14, 1993	43	28	15
September 14, 1994	44	28	16
September 14, 1995	45	29	16
September 1996	48	30	18
September 1997	46	30	16
Enrollment			
September 12, 1990	20,033	17,829	2,204
September 12, 1991	20,705	18,445	2,260
September 14, 1992	21,276	18,876	2,400
September 14, 1993	21,703	19,527	2,177
September 14, 1994	22,272	20,025	2,247
September 12, 1995	NA	20,992	NA
September 1996	23,626	21,463	2,163
September 1997	24,040	21,712	2,328
Teachers			
September 12, 1990	1,244	1,113	131
September 12, 1991	1,296	1,152	144
September 14, 1992	1,352	1,185	167
September 14, 1993	1,365	1,206	159
September 14, 1994	NA	1,233	NA
September 12, 1995	NA	1,255	NA
September 1996	NA	NA	NA
September 1997	NA	NA	NA
High School Graduates			
1990 to 1991	1,032	934	98
1991 to 1992	1,121	1,011	110
1992 to 1993	1,156	1,016	140
1993 to 1994	NA	1,048	NA
1994 to 1995	NA	1,010	NA
1995 to 1996	NA	NA	NA
1996 to 1997	NA	NA	NA

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

2.3

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

School	1996	1997	1998	1999	Grades
H. Perrine Baldwin High	1,894	1,850	1,721	1,693	9-12
Haiku	450	465	441	436	K-5
Hana High & Elementary	457	440	412	411	K-12
Iao	825	823	849	858	6-8
Kahului	935	911	887	872	K-5
S. Enoka Kalama Intermediate	1,343	1,298	1,185	1,120	6-8
Kamalii	583	754	796	872	K-5
King Kamehameha III	678	665	657	630	K-5
Kaunakakai	360	336	302	290	K-6
Kaunakakai	9	7	10	7	K-3
King Kekaulike High ¹	701	1,030	1,314	1,396	9-12
Kihei	906	775	735	759	K-5
Kilohana	157	148	133	131	K-6
Kualapuu	417	407	421	398	K-6
Kula Elementary	576	522	518	466	K-5
Lahaina Intermediate	585	604	616	641	6-8
Lahainaluna High	820	876	892	889	9-12
Lanai High & Elementary	629	661	683	687	K-12
Lihikai	1,063	1,035	1,045	1,053	K-5
Lokelani Intermediate	647	692	664	678	6-8
Makawao	680	636	590	620	K-5
Maui High	1,757	1,734	1,656	1,709	9-12
Maui Waena Intermediate	936	948	935	935	6-8
Maunaloa	90	90	83	70	K-6
Molokai High & Intermediate	788	808	833	812	7-12
Princess Nahienaena	657	698	694	651	K-5
Paia	244	246	240	224	K-5
Pukalani Elementary	569	558	523	493	K-5
Waihee	855	858	873	867	K-5
Wailuku Elementary	852	837	900	902	K-5
Total Enrollment	21,463	21,712	21,608	21,570	

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

SOURCE: Hawaii State Department of Education, records.

2.4

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

School	1994	1996*	1997	1998	Grades
Christ the King	117	96	105	105	K-6
Clearview Christian Girls School	–	16	17	16	6-8
Doris Todd Memorial Christian	114	108	151	160	PreK-8
Emmanuel Lutheran	160	105	102	110	K-6
Haleakala Waldorf	167	152	178	178	PreK-8
Horizons Academy	–	50	50	50	K-8
Kaahumanu Hou Christian (Maui)	133	125	119	125	K-12
Kaahumanu Hou Christian (Molokai)	–	–	–	20	6-9
Kamehameha Schools (Maui)	–	–	–	120	K-3
Maui Adventist	–	22	21	21	1-8
Maui Christian Academy	–	–	–	160	PreK-8
Molokai Christian Academy	31	30	14	14	PreK-12
Molokai Mission	28	30	22	22	K-8
Montessori Hale o' Keiki	28	31	72	80	PreK-4
Montessori of Maui	59	41	174	190	PreK-6
Sacred Hearts Elementary	202	210	200	200	K-8
St. Anthony Grade School	183	163	208	208	PreK-6
St. Anthony Junior & Senior High	482	391	370	370	7-12
St. Joseph	123	133	139	139	K-6
Seabury Hall	360	380	386	385	6-12
Total Enrollment	2,187	2,083	2,328	2,673	

* Enrollment figures for 1995 are not available.

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

2.5

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

	1995	1996	1997
Library locations, June 30 ¹	8	8	8
Personnel, June 30 ²	41	41	41
Circulation, year ended June 30	723,606	761,186	755,235
Collections, June 30			
Books, Video Tapes & Sound Recordings	384,173	390,578	337,315
Periodical subscriptions	789	800	861

¹ Includes libraries on Lanai (1 location), Maui (6 locations) and Molokai (1 location).

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

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

2.6

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

	Number of volumes, June 30	Circulation, year ended June 30
1991	37,390	26,331
1992	39,050	28,853
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

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

2.7

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

PROGRAM	DEGREES/CERTIFICATES OFFERED			TOTAL EARNED			ASSOCIATE DEGREES			CERTIFICATES OF ACHIEVEMENT		
	(Fall 1999)			1997	1998	1999	1997	1998	1999	1997	1998	1999
TOTAL	AA/AS/AAS	CA	CC	216	206	257	137	123	172	79	82	85
General & Pre-Professional Education	AA	-	-	56	45	81	56	45	81	-	-	-
Vocational Education	AS/AAS	CA	CC	160	160	176	81	78	91	79	82	85
Business Education	AAS	CA	CC	53	32	22	32	20	18	21	12	10
Accounting	AAS	CA	-	33	19	10	20	14	4	13	5	6
Business Careers	AAS	CA	CC	2			2					
Hotel Operations	AAS	CA	CC	7	5	11	3	3	7	4	2	4
Office Administration & Technology	AAS	CA	CC	11	8	11	7	3	7	4	5	4
Food Service Programs (Food Service)	AAS	CA	CC	24	45	47	11	17	19	13	28	28
Health Service Programs (Nursing) ¹	AS	CA	CC	54	57	57	22	21	23	32	36	34
Public Service Programs	AAS	CA	CC	18	15	15	11	14	11	7	1	4
Administration of Justice	AAS	CA	-	9	6	3	5	5	2	4	1	1
Human Services	AAS	CA	CC	9	9	12	6	9	9	3		3
Technology Programs	AAS	CA	CC	11	11	25	5	6	20	6	5	5
Agricultural Careers	AAS	CA	CC	1	1	2	1	1	1			1
Auto Body Repair & Painting	AAS	CA	CC		1						1	
Automotive Technology	AAS	CA	-	7	3		3	2		4	1	
Building Maintenance	-	CA	CC	1	1	2	-	-	-	1	1	2
Carpentry Technology	AAS	CA	-		1						1	
Drafting Technology	-	CA	-		1	1	-	-	-		1	1
Electronic & Computer Engineering Technology ²	AS	CA	-		1	13		1	13			
Fashion Technology	AAS	CA	CC	1	2	1	1	2	1			
Welding Technology	-	CA	CC	1			-	-	-	1		

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

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

SOURCES: University of Hawaii, Institutional Research Office, "Master List of Curricula Offered, University of Hawaii," Fall 1999 (degrees offered); "Degrees and Certificates Earned, University of Hawaii Community Colleges," Fiscal Year 1996-97, Fiscal Year 1997-98 and Fiscal Year 1998-99 (degree counts).

2.8

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

Number of courses being taken, and total headcount

Island	FALL 1999	
	Courses	Registrations
Maui	65	518
Lanai	19	19
Molokai	25	97
Subtotal Maui County	109	634
Island of Hawaii	102	1,299
Kauai	58	244
Oahu	227	2,334
Out of state	13	215
Unspecified locations	15	336
Total	524	5,062

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

SOURCE: University of Hawaii, Institutional Research Office, "University of Hawaii Distance Learning Fall 1999 Classes and Registrations by Receive Site and Delivery Method."

2.9

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

Fall Semester	Total	Full-Time	Part-Time
Students Enrolled			
1986	1,963	646	1,317
1987	1,915	628	1,287
1988	1,995	668	1,327
1989	2,074	741	1,333
1990	2,337	763	1,574
1991	2,589	792	1,797
1992	2,688	851	1,837
1993	2,578	870	1,708
1994	2,809	912	1,897
1995 r	2,765	985	1,780
1996 r	2,854	1,046	1,808
1997 r	2,787	1,062	1,725
1998 r	2,849	1,074	1,775
1999	2,862	1,013	1,849
Number of Faculty			
1986	120	64	56
1987	115	61	54
1988	115	74	51
1989	123	71	52
1990	134	74	60
1991	144	85	59
1992	153	82	71
1993	156	85	71
1994	157	84	73
1995	148	80	68
1996	161	83	78
1997	161	83	78
1998	162	86	76
1999p	165	89	76

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

p: preliminary.

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

Section 3

GEOGRAPHY & LAND USE

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

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

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

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

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

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

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

3.1.1

LAND AND WATER AREA OF COUNTIES AND ISLANDS

County or Island	SQUARE MILES			ACRES ¹	
	Total	Land ²	Inland Water ³	Total	Land
State Total	6,470.8	6,425.2	45.6	4,141,312	4,112,128
Counties⁴					
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 ⁵	620.5	596.3	24.2	397,120	381,632
Kauai ⁵	629.8	619.8	10.0	403,072	396,672
Islands⁴					
Hawaii	4,035.2	4,034.2	1.0	2,582,528	2,581,888
Maui ⁶	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 ⁷	71.1	70.0	1.1	45,504	44,800
Kaula	0.4	0.4	–	256	256

¹ 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.

² 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.

³ 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.

⁴ Because of rounding, island figures may not add to county figures.

⁵ 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).

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

⁷ Includes Lehua, previously reported as 243 acres (0.38 square miles).

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

3.1.2

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

	GENERAL COASTLINE ¹		TIDAL SHORELINE ²	
	Statute Miles	Kilometers ³	Statute Miles	Kilometers
State Total	750	1,207	1,052	1,693
Counties				
Hawaii	266	428	313	504
Maui ⁴	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands				
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

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

² 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.

³ 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.

⁴ Maui totals include Kalawao.

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

3.1.3

MAJOR NAMED WATERFALLS, MAUI COUNTY

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

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

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

3.1.4

ELEVATIONS OF MAJOR SUMMITS

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

Island and Summit	Feet	Meters
Hawaii		
Mauna Kea ¹	13,796	4,205
Mauna Loa ²	13,679	4,169
Hualalai	8,271	2,521
Kaunu o Kaleihoohe	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe		
Puu Moaulanui	1,483	452
Puu Moaulaiki	1,434	437
Molokini		
	160	49
Maui		
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
Lanai		
Lanaihale	3,366	1,026
Molokai		
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
Oahu		
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

C O N T I N U E D

Island and Summit	Feet	Meters
Kauai		
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
Niihau		
Paniau	1,250	381
Lehua		
	699	213
Kaula		
	548	167
Nihoa		
Millers Peak	903	275
Necker Island		
Summit Hill	276	84
French Frigate Shoal		
La Prouse Pinnacles	120	37
Gardner Pinnacles		
	190	58
Maro Reef		
	Awash	Awash
Laysan Island		
	40	12
Lisianski Island		
	40	12
Pearl and Hermes Atoll		
	10	3
Midway Islands		
	12	4
Kure Atoll		
	20	6

¹ 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."

² *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 ¹	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

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

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

3.1.6

TEMPERATURE AND PRECIPITATION AVERAGES AND EXTREMES, MAUI COUNTY

	STATION DATA		Daily Average		Warmest Month			TEMPERATURES Coolest Month			Record High		Record Low	
	Elevation ft.	1st Year of Record	High	Low	High	Low	Month	High	Low	Month	°F	Date	°F	Date
Maui														
Haleakala														
Ranger Station	6,960	1949	62.6	44.4	66.0	47.4	Aug	58.9	41.3	Feb	80	07/25/1953	27	02/26/1965
Hana Airport	61	1950	80.9	67.3	84.0	69.7	Sep	78.2	63.8	Jan	94	11/03/1979	50	01/09/1953
Kahului Airport	48	1954	83.7	67.4	87.5	70.2	Sep	80.1	63.4	Feb	97	08/31/1994	48	01/20/1969
Kailua (NE Maui, inland)	700	1949	77.2	64.3	80.2	66.8	Sep	75.2	61.0	Feb	88	09/18/1968	50	02/21/1962
Lahaina	45	1949	84.9	66.5	88.2	69.5	Sep	81.4	63.1	Feb	97	08/18/1985	52	12/23/1962
Molokai														
Molokai Airport	450	1953	81.5	67.6	85.6	71.0	Sep	77.4	63.1	Feb	96	04/14/1974	46	03/04/1987
Lanai														
Lanai Airport	1,300	1949	79.0	62.5	82.5	65.4	Aug	75.6	58.7	Jan	89	09/05/1954	46	01/22/1955
Lanai City	1,620	1949	75.4	62.5	78.6	65.2	Sep	72.6	59.1	Feb	89	09/07/1994	47	02/22/1973
	Annual Average in.	Days Precip. >=0.01 in.	Wettest Year		Driest Year		Wettest Month		Driest Month		1 Day Record			
			in.	Year	in.	Year	in.	Month	in.	Month	in.	Date		
Maui														
Haleakala Ranger Station	53.94	145	121.16	1980	17.71	1962	8.84	Jan	1.22	Jun	18.50	01/09/1980		
Hana Airport	81.90	271	126.23	1965	49.64	1953	9.30	Mar	4.07	Jun	17.57	04/16/1968		
Kahului Airport	19.78	35	40.63	1989	8.56	1984	3.85	Jan	0.26	Jun	5.82	12/21/1955		
Kailua (NE Maui, inland)	122.46	176	161.82	1969	79.20	1953	12.88	Nov	7.27	Jun	15.20	11/15/1965		
Lahaina	15.68	20	34.78	1950	3.20	1953	3.44	Jan	0.08	Jun	7.01	12/27/1983		
Molokai														
Molokai Airport	26.81	106	43.70	1963	12.92	1984	4.40	Jan	0.57	Jun	9.03	02/12/1989		
Lanai														
Lanai Airport	19.95	30	47.66	1951	5.40	1994	3.88	Dec	0.52	Aug	10.45	11/10/1955		
Lanai City	36.24	114	66.87	1968	16.04	1953	5.36	Jan	1.27	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	1997												Annual	Departure from Normal
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<i>Rainfall¹</i>														
Maui														
Haleakalala R.S.	8.44	5.95	10.50	6.33	1.11	7.74	9.03	1.51	3.95	1.20	10.82	3.61	70.19	12.63
Hana Airport	13.77	4.13	11.12	3.89	9.25	8.73	7.96	2.54	10.74	4.51	6.31	9.36	92.31	9.15
Kahului Airport (WSO)	9.23	1.11	3.06	1.34	0.83	0.71	1.22	0.14	0.09	0.50	3.10	1.75	23.08	2.16
Kapalua-West Maui Airport	10.75	1.05	6.53	1.72	1.24	3.09	2.47	0.57	1.31	0.89	3.93	3.24	36.79	NA
Kihei	9.54	0.50	5.84	0.41	0.78	0.01	0.38	0.00	0.02	0.09	2.06	0.33	19.96	4.91
Kula Branch Stn.	8.31	2.37	8.57	1.34	1.26	1.29	0.94	0.20	1.03	0.92	3.54	0.18	29.95	NA
Kula Hospital	10.45	1.43	7.44	1.33	1.38	2.80	0.69	1.36	4.81	1.65	2.82	1.50	37.66	NA
Lahaina	10.01	0.60	3.99	0.92	0.00	0.07	0.01	0.00	0.00	0.00	1.02	0.06	16.68	0.17
Makena Golf Course	11.32	0.14	4.04	0.34	0.32	0.48	0.81	0.27	2.73	0.62	2.07	0.18	23.32	NA
Puu Kukui	21.60	11.00	46.00	33.25	15.50	79.50	48.00	20.00	30.00	16.80	50.00	36.00	407.65	NA
Wailuku	15.44	1.79	7.29	2.68	3.52	1.76	1.51	0.79	1.04	0.38	7.96	4.84	49.00	16.06
Molokai														
Kalaupapa	12.50	1.38	5.50	5.20	8.71	2.06	4.28	0.00	0.08	0.39	13.57	7.99	61.66	17.06
Molokai Airport	9.09	0.74	6.27	2.45	3.25	1.54	0.75	0.37	0.42	0.93	4.93	3.17	33.91	5.24
Lanai														
Lanai Airport	7.98	0.42	2.40	0.29	0.50	0.56	0.37	1.56	0.53	2.26	2.18	1.86	20.91	NA
Lanai City	13.64	1.75	7.97	1.25	3.52	1.82	0.56	3.37	1.53	1.82	2.87	2.66	42.76	4.11

NA: Not available.

¹ Precipitation for month.

3.1.7
CONTINUED

Station	1997												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<i>Temperature²</i>													
Maui													
Haleakalala R.S.	52.9	51.6	51.9m	52.9	52.9m	55.9	56.3	57.8	57.1	57.2	54.2	52.7m	54.5m
Hana Airport	71.5	73.2	73.0	74.2m	73.1	76.7	77.0m	78.0	77.9	77.5	74.3	72.4	74.9m
Kahului Airport	72.4	73.4	74.6	74.8	75.6	79.5	80.0	80.2	81.3	79.6	75.6	73.2	76.7
Kapalua-West Maui Airport	71.9	73.0	73.4	74.8m	74.5	77.0	77.5	79.4	79.5	78.4	74.5	72.0	75.5m
Kula Branch Stn.	62.4	61.6m	61.7	62.6	63.7	66.1	66.9m	67.6	m	66.9m	64.0m	60.7	m
Kula Hospital	61.8	61.6	62.6	62.6	63.9	66.6	66.7	66.9	67.2	65.8	63.7m	60.3m	64.1m
Lahaina	m	73.4m	m	76.6m	m	79.3m	79.6m	m	m	79.9m	m	m	m
Makena Golf Course	71.8m	72.8m	73.4m	74.4m	74.3	77.7	78.3m	78.5	78.8	77.8	74.4	71.3	75.3m
Puukolii	m	72.1m	m	m	m	77.2m	78.6m	m	79.0m	78.4m	m	m	m
Molokai													
Molokai Airport	69.6	71.2	72.3	72.6	73.0	76.9	77.5	78.4	79.4	77.8	73.6	71.0m	74.4m
Lanai													
Lanai Airport	67.0	68.4m	68.9m	69.7	71.0m	74.3	74.4	73.9	75.6	73.8	71.3	68.4	71.4m
Lanai City	m	m	m	m	m	m	m	m	m	m	m	m	m

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

²Average temperature for month.

SOURCE: U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, National Climatic Data Center, *Climatological Data Annual Summary, Hawaii and Pacific, 1997*.

3.1.8

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

Station	1991	1992	1993	1994	1995	1996	1997
ANNUAL RAINFALL							
Maui							
Haleakala R.S.	50.42	35.10	43.07	43.98	20.28	58.46	70.19
Hana Airport	68.12	84.74	93.90	104.68	55.11	79.20	92.31
Kahului Airport (WSO)	16.09	16.98	12.69	13.93	13.45	31.00	23.08
Kapalua-West Maui Airport	26.11	27.79	27.94	26.90	19.42	38.34	36.79
Kihei	6.62	11.03	5.82	5.61	8.21	22.32	19.96
Kula Branch Stn.	13.97	24.42	28.73	17.03	13.40	39.06	29.95
Kula Hospital	19.47	30.80	28.73	22.97	25.92	44.57	37.66
Lahaina	11.11	9.73	11.76	8.02	6.30	22.81	16.68
Makena Golf Course	11.06	14.42	10.20	7.95	14.90	30.42	23.32
Puukoolii	24.26	22.82	24.81	22.09	12.03	29.53	27.34
Puu Kukui	241.19	232.60	100.68	318.50	129.50	114.20	407.65
Wailuku				34.76	36.74	47.00	49.00
Molokai							
Kalaupapa	35.69	50.25	35.39	43.25	38.87	12.00	61.66
Molokai Airport	19.02	34.04	19.26	16.61	18.92	38.45	33.91
Lanai							
Lanai Airport	NA	NA	12.78	5.40	13.36	43.70	20.91
Lanai City	NA	31.85	29.25	m	22.27	65.78	42.76
AVERAGE ANNUAL TEMPERATURE							
Maui							
Haleakala R.S.	54.0	54.5	53.6	54.3m	54.9m	55.2m	54.5m
Hana Airport	73.4	73.7	m	m	74.6m	75.1m	74.9m
Kahului Airport (WSO)	75.9	76.3	75.9	76.4	76.9	77.0	76.7
Kapalua-West Maui Airport	75.7	75.9	m	75.3m	75.5	74.7m	75.5m
Kula Branch Stn.	m	64.2	63.3	63.9m	64.3m	64.1m	m
Kula Hospital	63.1	63.5	62.4	63.6m	64.0m	65.1m	64.1m
Lahaina	m	m	76.0	m	m	m	m
Makena Golf Course	74.9	75.2	74.4	75.2m	75.7m	m	75.3m
Molokai							
Molokai Airport	74.9	75.0	74.2	75.2m	74.5	74.9	74.4m
Lanai							
Lanai Airport	m	m	m	m	m	71.7m	71.4m
Lanai City	m	m	m	m	m	m	m

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

SOURCE: U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, National Climatic Data Center, *Climatological Data, Annual Summary, Hawaii and Pacific, 1991-1997.*

3.2.1

TRENDS IN REAL PROPERTY TAX BASE, MAUI COUNTY

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

	1993	1994	1995	1996	1997	1998 ¹	1999 ²
Improved Residential							
Land	1,750,295	1,650,565	1,670,430	1,621,075	1,566,094	1,592,910	1,568,983
Improvements	686,675	706,263	754,809	759,784	782,187	803,783	817,079
Unimproved Residential							
Land	331,962	322,954	305,936	286,264	276,221	258,915	282,747
Improvements	5,752	5,582	5,779	5,592	2,003	1,963	1,872
Homeowner¹							
Land	2,353,412	2,306,404	2,373,277	2,396,397	2,379,383	2,283,499	2,225,415
Improvements	1,566,620	1,720,925	1,887,626	1,986,856	2,063,164	2,080,557	2,143,098
Hotel/Resort							
Land	1,094,595	1,165,620	981,115	951,692	954,858	975,562	1,066,582
Improvements	2,871,823	2,526,929	2,306,606	2,210,710	2,358,814	2,346,723	2,681,250
Apartment							
Land	496,935	497,393	467,008	493,105	485,770	500,857	496,335
Improvements	1,201,594	1,170,333	1,156,355	1,173,281	1,075,849	1,032,209	1,096,639
Commercial							
Land	644,974	617,049	605,219	616,468	572,682	572,824	611,007
Improvements	317,841	335,337	345,798	361,715	372,886	382,338	391,668
Industrial							
Land	530,901	529,561	536,368	558,184	571,558	572,949	577,667
Improvements	270,643	295,655	358,267	373,097	396,415	415,419	411,845
Agricultural							
Land	949,878	912,906	922,961	892,324	865,718	880,448	894,855
Improvements	309,105	322,052	346,169	343,226	348,831	362,129	363,055
Conservation							
Land	206,745	195,516	216,124	210,447	240,398	244,888	271,170
Improvements	28,573	31,606	31,012	29,885	30,151	28,128	27,759
TOTAL	15,618,323	15,312,650	15,270,859	15,270,102	15,342,982	15,336,101	15,929,026

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

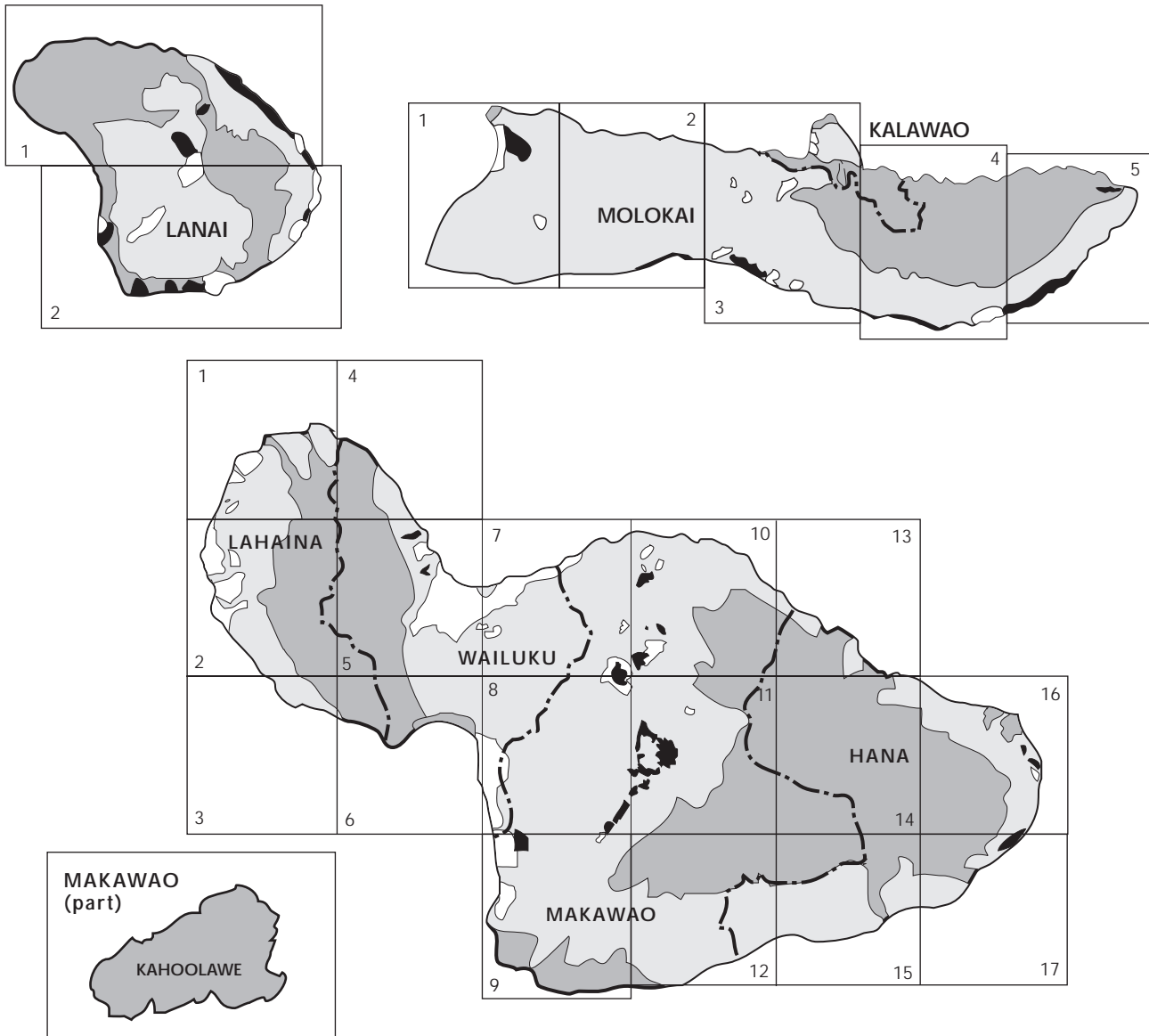
¹ As of April 14, 1998.

² As of April 15, 1999.





SOURCE: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii* (1992-1993 through 1999-2000 Tax Years, annual).

3.2.2

LAND USE DISTRICTS, MAUI COUNTY



LAND USE DISTRICTS

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



District Boundary Map Index



Judicial District Boundary and Name

Scale: 1:593,260



0 4.5 9 miles

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

3.2.3

ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS

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

Island	Total Area ²	CLASSIFICATION BY STATE LAND USE COMMISSION ¹			
		Urban	Conservation	Agricultural	Rural
Maui	465,800	20,640	193,631	247,770	3,759
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,228	38,197	46,678	2,397
Molokai	165,800	2,509	49,768	111,657	1,866
Hawaii	2,573,400	51,754	1,306,520	1,214,485	641
Oahu	386,188	98,140	156,618	131,430	-
Kauai	353,900	13,147	198,715	140,785	1,253
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other Islands ³	1,900	-	1,900	-	-
State Total	4,112,388	189,418	1,974,549	1,938,505	9,916

¹For definitions, see Hawaii Revised Statutes, Section 205-2.

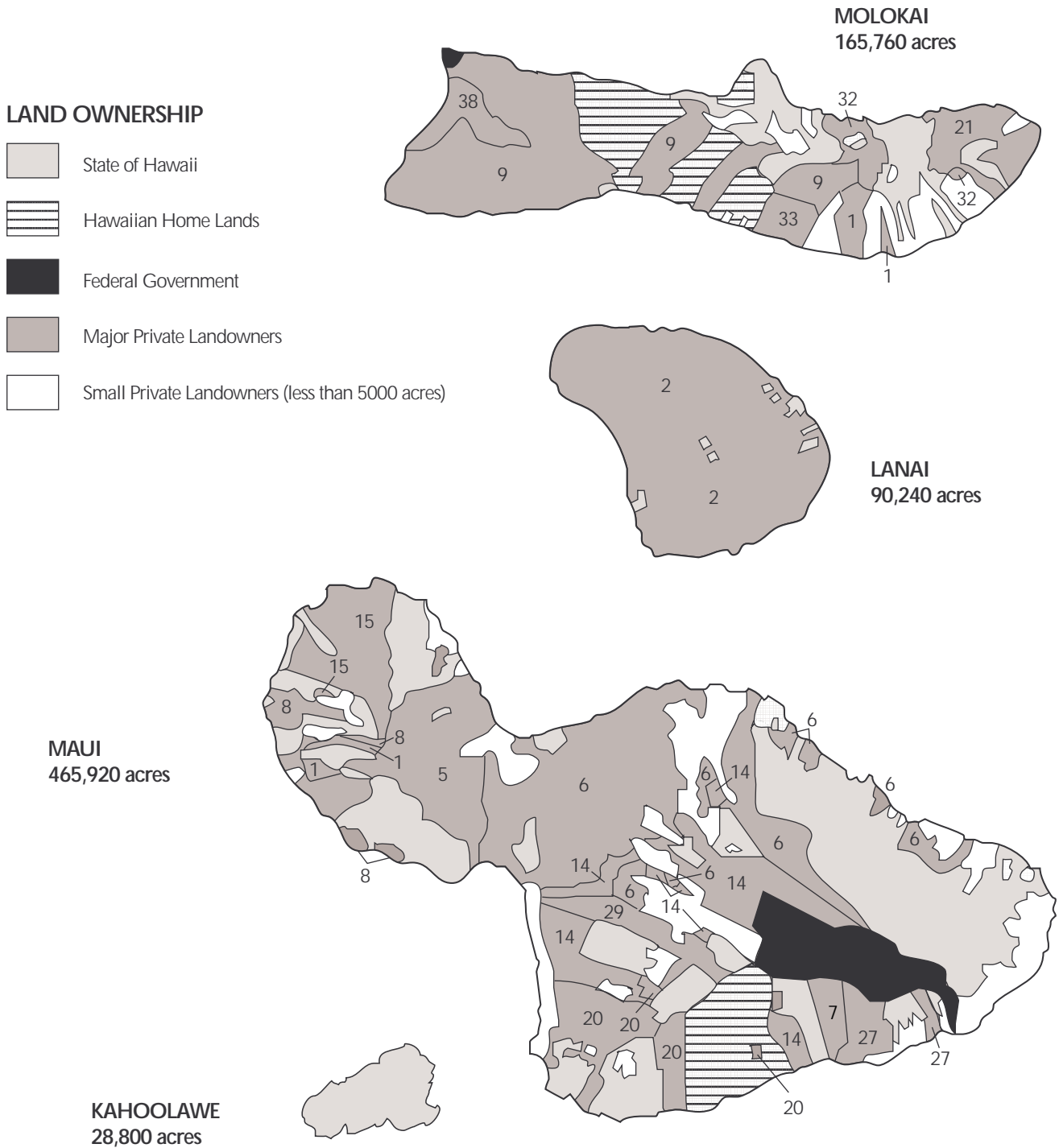
² These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census.

³ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

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

3.2.4

LAND OWNERSHIP, MAUI COUNTY



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

3.2.5

LAND OWNERSHIP IN THE STATE OF HAWAII

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

① = Owns land in Maui County.

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

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

3.2.6

LAND IN HAWAII OWNED BY SELECTED LARGE LANDOWNERS

Ownership	1994	1995	1996	1997
Eight Large Landowners	966,541	999,726	999,063	996,226
Percent of Total Land Area ¹	23.5	24.3	24.3	24.2
Bernice P. Bishop Estate ²	336,270	366,198 ³	366,184	366,098
Richard S. Smart (Parker Ranch)	140,000	137,547 ³	137,007	136,602
Castle and Cooke, Inc.	⁴	101,119	100,510	100,023
Dole Food Company, Inc.	121,982	28,757	28,746	28,745
Samuel M. Damon Estate	121,608	121,608	121,600	121,595
Alexander and Baldwin, Inc.	92,900	90,800	93,160	93,020
C. Brewer and Company, Ltd.	81,997 ⁵	81,997	80,156	79,343
James Campbell Estate	71,784	71,700 ³	71,700	70,800

¹ Based on area of 4,110,966 acres.

² As of July 1.

³ Revised.

⁴ Included in Dole Food Company, Inc. total.

⁵ Excludes 4,126 acres transferred to C. Brewer Homes, Inc.

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

3.2.7

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

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

	Maui	Moloka'i	Hawai'i	Kaua'i	O'ahu	State Total
Acreage ¹	30,266	25,384	114,574	20,130	6,721	197,075
In Homestead Use	447	11,005	27,238	815	959	40,464
Homestead Leases	576	813	1778	464	2,797	6,428
Residential	510	388	1035	415	2,739	5,087
Agricultural	66	399	473	47	58	1,043
Pastoral	0	26	270	2	0	298
Applicant Waiting List ²	5,743	1,630	11,120	3,385	7,284	29,162
Residential	2,723	711	4,839	1,527	6,014	15,814
Agricultural	2,684	780	5,130	1,671	1,270	11,535
Pastoral	336	139	1,151	187	0	1,813

¹ Rounded to nearest acre.

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

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

3.2.8

SINGLE FAMILY HOME AND CONDOMINIUM SALES BY AREA, MAUI COUNTY

Area	Number of Sales		Average Sales Price		Median Sales Price		Total Dollar Volume	
	1999 Sales	% Chg Last Yr	1999 Average	% Chg Last Yr	1999 Median	% Chg Last Yr	1999 Volume	% Chg Last Yr
SINGLE FAMILY HOMES								
Central	189	57%	\$216,891	0%	\$202,288	4%	\$40,992,368	57%
Haiku	69	33%	\$416,540	30%	\$325,000	6%	\$28,741,265	72%
Hana	4	-20%	\$641,250	155%	\$707,500	210%	\$2,565,000	104%
Kaanapali	27	108%	\$762,574	13%	\$650,000	16%	\$20,589,500	135%
Kapalua	4	-20%	\$1,241,875	12%	\$1,287,500	29%	\$4,967,500	-10%
Kihei	181	79%	\$297,251	8%	\$248,000	7%	\$53,802,366	93%
Kipahulu	1	-50%	\$700,000	-28%	\$700,000	-28%	\$700,000	-64%
Kula/Ulupalakua/Kanaio	99	52%	\$363,600	-14%	\$315,440	-12%	\$35,996,370	31%
Lahaina	29	16%	\$346,897	-18%	\$270,000	8%	\$10,060,000	-5%
Lanai	9	-18%	\$124,333	-54%	\$140,000	-13%	\$1,119,000	-63%
Makawao/Olinda/Haliimaile	88	28%	\$240,654	-1%	\$213,000	-7%	\$21,177,550	26%
Maui Meadows	45	29%	\$458,080	3%	\$420,000	5%	\$20,613,600	32%
Molokai	1	N/A	\$45,000	N/A	\$45,000	N/A	\$45,000	N/A
Nahiku	1	N/A	\$179,000	N/A	\$179,000	N/A	\$179,000	N/A
Napili/Kahana/Honokowai	34	70%	\$450,274	-17%	\$246,750	-30%	\$15,309,300	41%
Olowalu	2	N/A	\$475,000	N/A	\$475,000	N/A	\$950,000	N/A
Pukalani	63	40%	\$251,535	0%	\$253,000	1%	\$15,846,700	40%
Sprecklesville/Paia/Kuau	48	30%	\$322,043	-36%	\$234,400	-15%	\$15,458,087	-17%
Wailea/Makena	43	39%	\$1,046,812	-2%	\$695,000	-23%	\$45,012,899	36%
Maui Summary:	937	47%	\$356,591	-4%	\$250,000	-2%	\$334,125,505	41%
CONDOMINIUMS								
Central	68	100%	\$71,157	-14%	\$58,500	-30%	\$4,838,697	72%
Kaanapali	116	16%	\$431,292	18%	\$395,000	14%	\$50,029,925	36%
Kapalua	50	47%	\$413,090	-6%	\$385,000	5%	\$20,654,500	38%
Kihei	470	45%	\$141,239	7%	\$120,500	0%	\$66,382,402	55%
Lahaina	41	41%	\$238,239	22%	\$165,000	43%	\$9,767,783	72%
Lanai	8	60%	\$1,051,875	-30%	\$1,010,000	-41%	\$8,415,000	12%
Maalaea	76	27%	\$167,319	-14%	\$160,900	-2%	\$12,716,250	9%
Napili/Kahana/Honokowai	345	27%	\$176,811	3%	\$155,000	-2%	\$60,999,667	30%
Pukalani	4	N/A	\$209,125	N/A	\$208,500	N/A	\$836,500	N/A
Sprecklesville/Paia/Kuau	3	N/A	\$64,667	N/A	\$72,000	N/A	\$194,000	N/A
Wailea/Makena	140	8%	\$467,472	3%	\$330,000	4%	\$65,446,100	11%
Maui Summary:	1,321	33%	\$227,313	-1%	\$160,000	-2%	\$300,280,824	31%

NOTE: In 1999, no single family home sales were reported in the Keanae and Maalaea areas, and no condominium sales were reported in the Hana, Kula/Ulupalakua/Kanaio, and Makawao/Olinda/Haliimaile areas.

N/A: Not applicable.

SOURCE: Maui Board of REALTORS, MLS Resale Data, December 1999.

3.2.9

FOREST ACREAGE, MAUI COUNTY

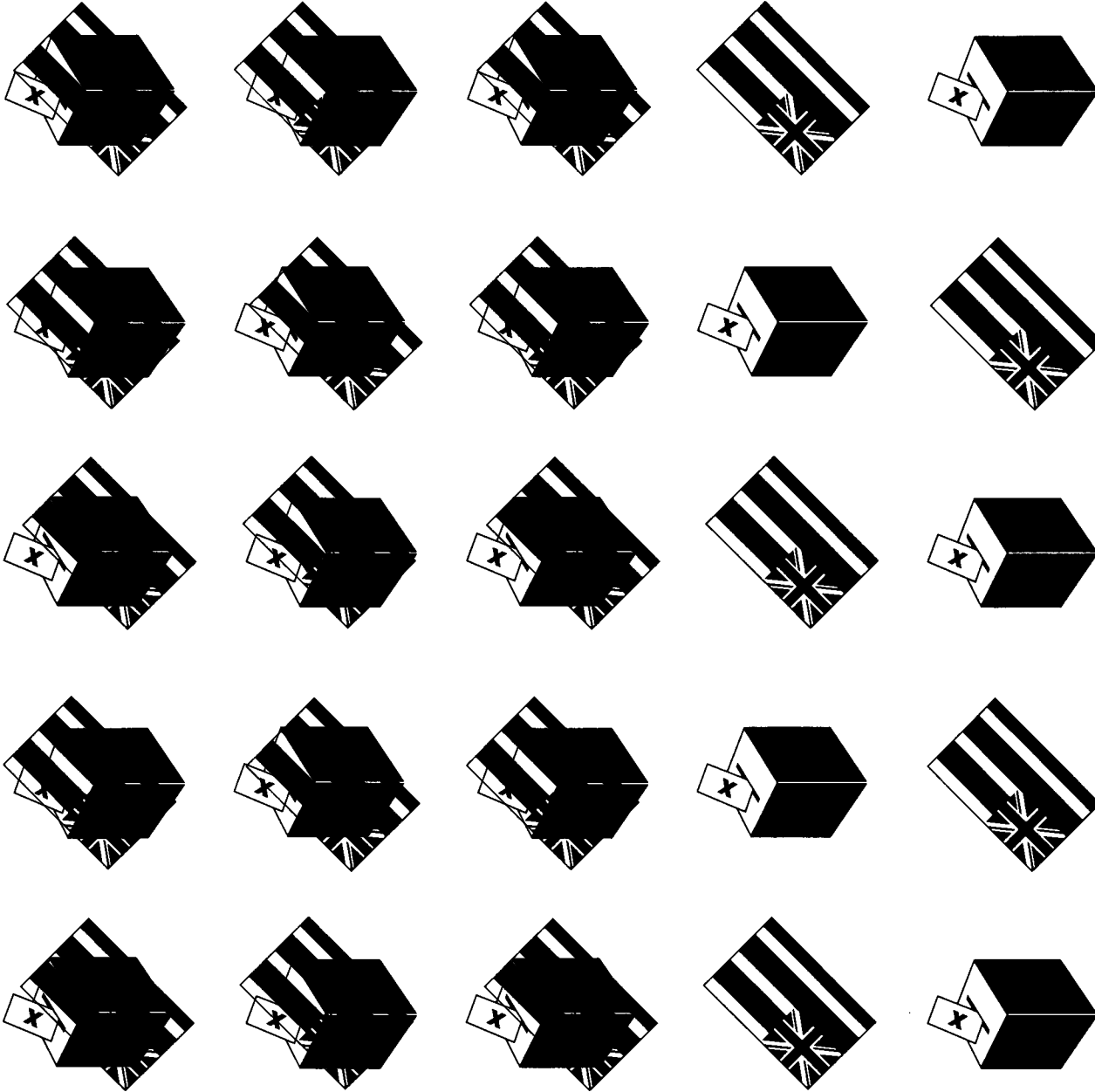
	Acreage
Conservation District Forest Land	
Total	148,587
Forest reserve land ¹	89,257
Private forest land ²	59,330
Planted Forest	
Total	15,638
Planted in preceding year	35
Total standing	15,603
Natural Areas	
Number of areas	6
Acres	20,073

¹ State owned and privately owned lands under surrender agreement in forest reserve system.

² 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



Section 4

GOVERNMENT

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

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

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

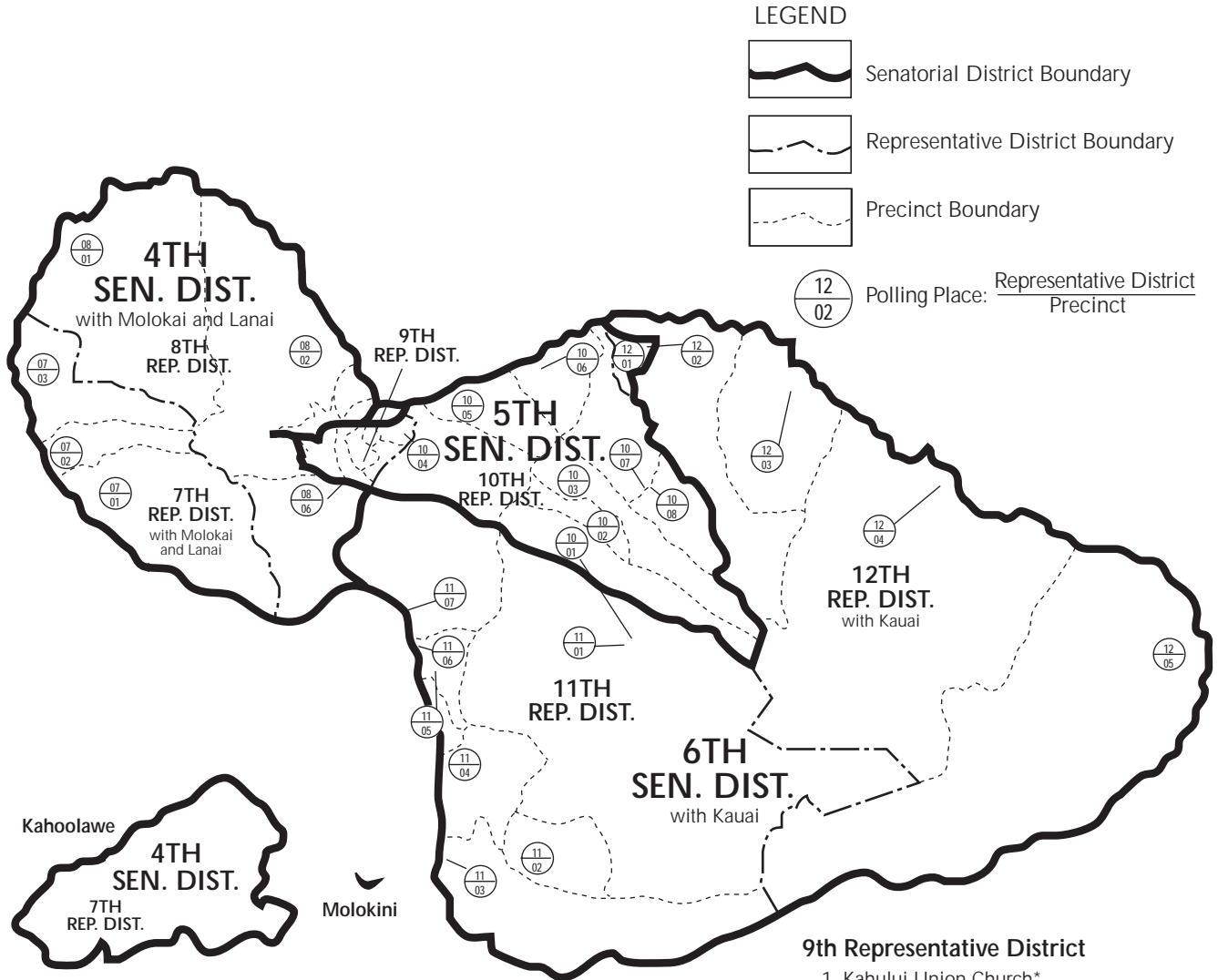
Important sources on statistics on government include: *Government in Hawaii*, Tax Foundation of Hawaii; *Revenue Trends* (monthly tax collection reports), Hawaii State Department of Taxation; *State of Hawaii Data Book*, Hawaii State Department of Business, Economic Development and Tourism; and *Historical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

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

4.1

MAP OF ELECTION DISTRICTS

Islands of Maui and Kahoolawe



POLLING PLACES:

7th Representative District

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

10th Representative District

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

8th Representative District

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

11th Representative District

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

9th Representative District

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

12th Representative District

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

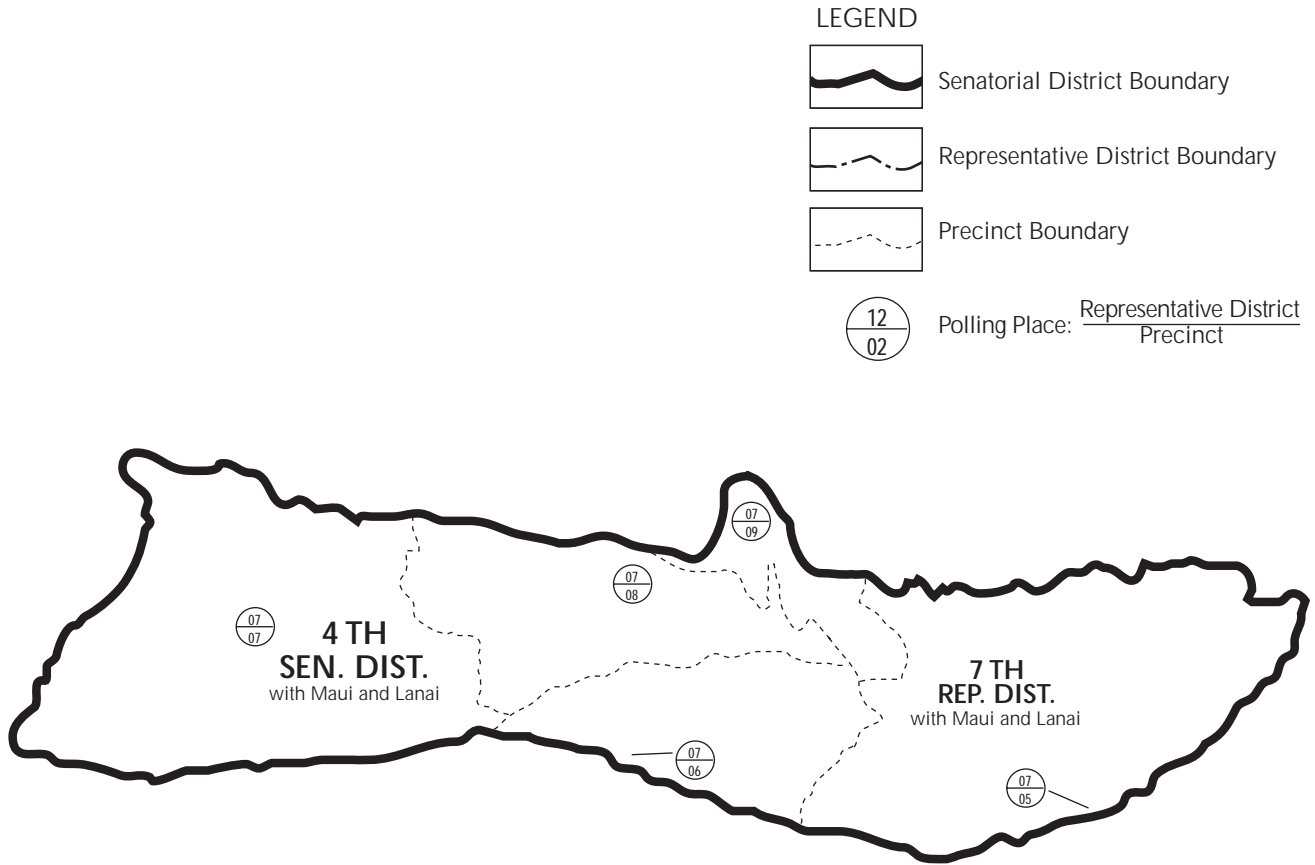
* Not illustrated on map.

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

4.1

MAP OF ELECTION DISTRICTS

Island of Molokai



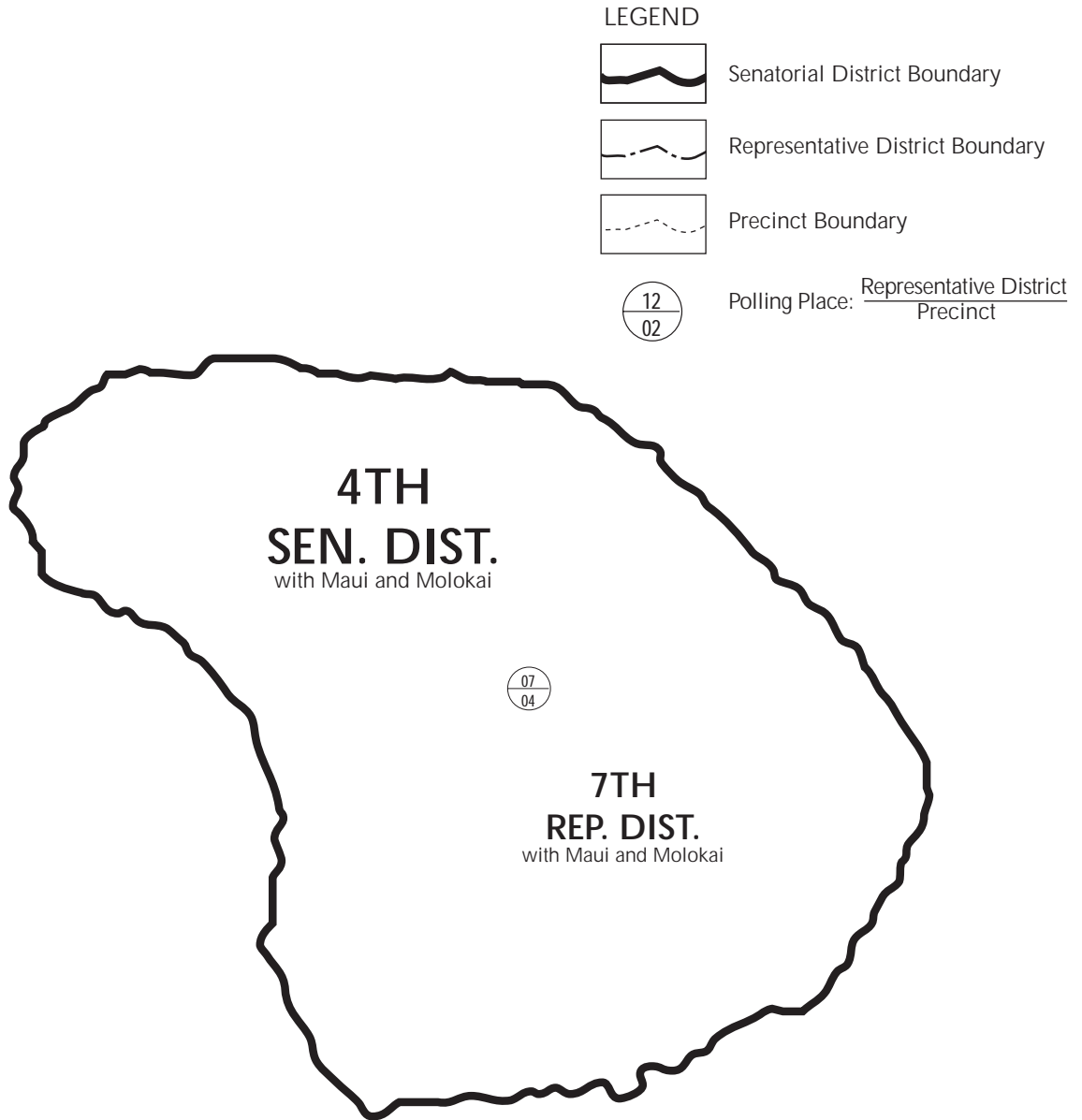
- POLLING PLACES: **7th Representative District**
- 5 Kilohana Community Center
 - 6 Kaunakakai School
 - 7 Maunaloa Community Center
 - 8 Kualapuu Elementary School
 - 9 McVeigh Social Hall

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

4.1

MAP OF ELECTION DISTRICTS

Island of Lanai



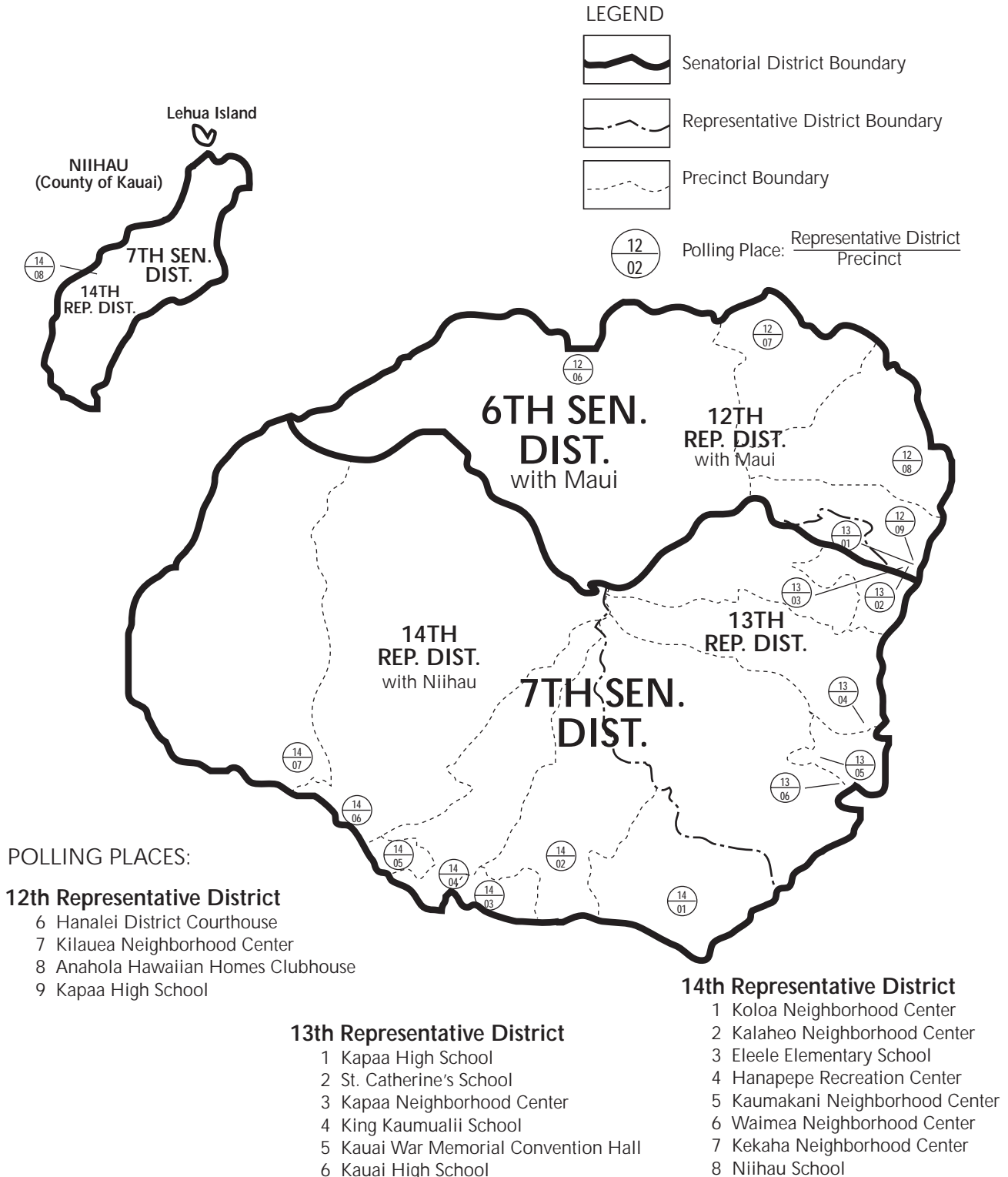
POLLING PLACE: **7th Representative District**
4 Lanai High/Elementary School

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

4.1

MAP OF ELECTION DISTRICTS

Islands of Kauai and Niihau



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

4.2

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

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

* Revised.

¹ Kalawao County included with Maui County.

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

4.3

VOTES CAST IN GENERAL ELECTIONS BY JUDICIAL DISTRICT, MAUI COUNTY

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

* Revised.

¹ Kalawao County included with Maui County.

² Not available by districts.

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

4.4

MAUI COUNTY GENERAL ELECTION RESULTS, NOVEMBER 3, 1998

U.S. SENATOR	Votes	%	U.S. REP - DIST 2	Votes	%
(D) INOUE, Daniel K.	32,326	74.5	(L) CHUN, Noreen Leilehua	2,044	4.7
(L) MALLAN, Lloyd (Jeff)	1,261	2.9	(R) DOUGLASS, Carol J.	9,542	22.0
(R) YOUNG, Crystal	8,086	18.6	(D) MINK, Patsy Takemoto	29,851	68.8
Blank Votes/Over Votes	1,709	3.9	Blank Votes/Over Votes	1,945	4.5
GOVERNOR/LT GOVERNOR	Votes	%	STATE SEN - DIST 4	Votes	%
(D) CAYETANO AND HIRONO	20,777	47.9	(D) BUEN, Jan (Yagi)	9,732	64.8
(R) LINGLE AND KOKI	21,390	49.3	(R) CORBOY, John M.	4,603	30.6
(L) PEABODY AND BARTLEY	572	1.3	Blank Votes/Over Votes	692	4.6
Blank Votes/Over Votes	643	1.5			
STATE SEN - DIST 6	Votes	%	STATE REP - DIST 7	Votes	%
(D) CHUMBLEY, Avery B.	6,111	52.4	(R) BLUNDELL, Brian K.	2,385	34.7
(L) DYER, Michael M.	635	5.4	(D) KAHO'OHALAHALA, Sol	3,979	57.9
(R) LAFOND, Richard	4,162	35.7	Blank Votes/Over Votes	506	7.4
Blank Votes/Over Votes	760	6.5			
STATE REP - DIST 8	Votes	%	STATE REP - DIST 9	Votes	%
(D) SOUKI, Joe	4,249	54.1	(R) KULP, Jack	1,197	14.6
(R) TASSILL, Kalani	3,268	41.6	(D) NAKASONE, Bob	6,292	76.9
Blank Votes/Over Votes	332	4.2	Blank Votes/Over Votes	689	8.4
STATE REP - DIST 10	Votes	%	STATE REP - DIST 11	Votes	%
(R) EVERT, Dan	2,090	24.8	(D) BROWN, Dee	3,153	35.8
(D) MORIHARA, David	5,749	68.2	(R) HALFORD, Chris	5,091	57.8
Blank Votes/Over Votes	590	7.0	Blank Votes/Over Votes	558	6.4
MAYOR - MAUI	Votes	%	STATE REP - DIST 12	Votes	%
(D) APANA, James (Kimo)	22,350	51.6	(R) FURFARO, Jay J.	864	26.6
(R) ARAKAWA, Alan M.	20,101	46.4	(D) MORITA, Hermina	2,124	65.3
Blank Votes/Over Votes	870	2.0	Blank Votes/Over Votes	266	8.2
COUNCIL - WEST	Votes	%	COUNCIL - WAILUKU	Votes	%
(R) JOHNSON, Jo Anne	15,510	35.8	(R) BALL, Carol (Ansai)	17,346	40.0
(D) NAKAMURA, Dennis Y.	22,770	52.6	(D) KANE, Dain P.	21,198	48.9
Blank Votes/Over Votes	5,041	11.6	Blank Votes/Over Votes	4,777	11.0
COUNCIL - KAHULUI	Votes	%	COUNCIL - UPCOUNTRY	Votes	%
(D) DAVIS, Mike	23,057	53.2	(D) MONDEN, Bob	17,129	39.5
(R) FRANCO, Norman Calvin	14,112	32.6	(R) TAVARES, Charmaine	21,878	50.5
Blank Votes/Over Votes	6,152	14.2	Blank Votes/Over Votes	4,314	10.0
COUNCIL - MAKAWAO	Votes	%	COUNCIL - SOUTH	Votes	%
(R) CLARK, Sam	9,751	22.5	(G) BERTRAM, Joe, III	1,615	3.7
(D) ENRIQUES, John Wayne	24,621	56.8	(D) BRITTON, Lynn	18,765	43.3
(G) NIKHILANANDA, Nick	3,490	8.1	(R) NISHIKI, Wayne K.	19,276	44.5
Blank Votes/Over Votes	5,459	12.6	Blank Votes/Over Votes	3,665	8.5
COUNCIL - LANAI	Votes	%	BOE - 2ND DEPT SCH	Votes	%
(R) DE JETLEY, Alberta S.	16,061	37.1	COLLINS, Lance (Kawika)	14,384	33.2
(D) HOKAMA, Riki	21,630	49.9	VICTORINO, Mike	20,574	47.4
Blank Votes/Over Votes	5,630	13.0	Blank Votes/Over Votes	8,424	19.4

SOURCE: Hawaii State Office of Elections, records.

4.5

**MAUI COUNTY GENERAL ELECTION RESULTS,
OFFICE OF HAWAIIAN AFFAIRS TRUSTEES
AND AMENDMENTS, NOVEMBER 3, 1998**

OHA - AT LARGE	Votes	%	OHA - AT LARGE (continued)	Votes	%
AIONA, Darrow L.	768	3.4	KEKAI, Hank (Kupuna)	313	1.4
AIONA, Leonard (Chief)	1,199	5.2	MEYERS, Willy	181	0.8
AKANA, Rowena Noelani	2,552	11.2	MONTGOMERY, Bill	186	0.8
CARPENTER, Dante Keala	871	3.8	NAPEAHI, Kanak	225	1.0
CLUNEY, Sam	555	2.4	PA, Leimamo Josephine	310	1.4
DELA CRUZ, Stewart	206	0.9	PRIGGE, Joseph, Jr.	45	0.2
DESOTO, A. Frenchy	2,280	10.0	SABEY, John L. (Kione)	34	0.1
KALEIKINI, Lovell F.	555	2.4	SHIBATA-KAILIANU, Raynette	134	0.6
KALUA, Virginia Halemano	507	2.2	TRASK, Mililani	3,969	17.3
KAMAU, William K., III	390	1.7	WATSON, B. Mokihana	592	2.6
KAMAUU, Mahealani	1,124	4.9	WONG, Jimmy	442	1.9
KEALOHA, Gard	314	1.4	WONGHAM, Greg	281	1.2
KEALOHA, Samuel L., Jr.	1,288	5.6	Blank Votes/Over Votes	3,563	15.6
OHA - MAUI	Votes	%	OHA - OAHU	Votes	%
CAMPOS, Herbert Kuualoha	1,193	15.6	AGARD, Louis K. (Buzzy)	200	2.6
HAO, Louis	1,295	17.0	AMARAL, Annelle C.	684	9.0
KAHO'OHANO HANO, David E.	1,300	17.0	AMONG, Les A.	133	1.7
KALALAU, Sam III	1,898	24.9	HAO, Reginald	588	7.7
KAMA, Natalie Tasha	741	9.7	HEE, Clayton	2,963	38.8
KIA-KIRLAND, Rose Kaloke	907	11.9	KAMALI'I Kina'u Boyd	2,092	27.4
Blank Votes/Over Votes	294	3.9	KIYOHIRO, Larry Joy	327	4.3
			Blank Votes/Over Votes	641	8.4
CONSTITUTIONAL AMENDMENT: Give State Legislature power to reserve marriage to opposite-sex couples	Votes	%	CONSTITUTIONAL CONVENTION: Should one be held?	Votes	%
YES	29,665	68.4	YES	14,365	33.1
NO	12,419	28.6	NO	25,792	59.5
Blank Votes/Over Votes	1,298	3.0	Blank Votes/Over Votes	3,225	7.4
MAUI CHARTER: Hold 2 non-partisan elections to elect Mayor and Council	Votes	%	MAUI CHARTER: Fill vacancies on County Council by appointment if remaining term is less than 15 months, or by special election if remaining term is 15 months or more	Votes	%
YES	20,923	48.3	YES	28,927	66.8
NO	16,781	38.7	NO	8,721	20.1
Blank Votes/Over Votes	5,617	13.0	Blank Votes/Over Votes	5,673	13.1

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

SOURCE: Hawaii State Office of Elections, records.

4.6

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

In thousands of dollars; for year ended June 30

	1994	1995	1996	1997	1998	1999
Revenues:						
Real Property Taxes	79,327	74,270	72,108	74,141	75,185	74,812
Other Taxes	8,415	8,715	9,980	10,791	11,041	10,911
Intergovernmental Revenues	37,461	39,778	42,014	49,833	50,568	39,213
Charges for Services	18,176	19,572	21,016	21,666	21,866	23,125
Licenses and Permits	6,170	6,149	6,845	6,930	7,042	7,576
Revenues from Use of Money and Property	3,579	4,517	3,591	3,416	3,126	2,442
Fines and Forfeitures	1,182	980	814	822	683	823
Other Sources	4,986	5,818	6,749	5,928	6,658	6,111
Subtotal	159,296	159,798	163,116	173,528	176,169	165,014
Other Sources:						
Bond/Loan Proceeds	24,998	23,390	16,465	7,136	42,192	11,600
TOTAL Revenues + Other Sources	184,294	183,188	179,580	180,664	218,361	176,614
Expenditures:						
Management and Other	33,894	35,225	38,075	39,648	41,598	36,851
Public Safety	31,638	33,813	34,533	35,287	37,461	38,331
Sanitation	15,767	16,807	17,767	17,819	18,912	18,444
Highway and Streets	8,831	8,581	8,865	9,413	9,870	9,105
Social Welfare	14,013	15,874	18,210	18,828	21,545	20,585
Culture and Recreation	9,675	10,588	11,754	12,458	13,085	13,868
Legislative	1,989	2,343	2,189	2,483	3,039	3,103
Capital Outlay	54,317	51,908	36,715	48,454	46,257	38,151
Debt Service: Principal	6,468	6,809	7,070	7,959	8,463	9,604
Interest	5,729	6,738	7,649	8,296	8,862	9,837
Refunding Bond Issuance Cost	173					
TOTAL Expenditures	182,494	188,687	182,827	200,645	209,092	197,878

SOURCE: County of Maui, Department of Finance, *Comprehensive Annual Financial Report* (Fiscal years ending June 30) 1994-1999.

4.7

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

Source of Revenue	1995	1996	1997	1998	1999
Banks/Financial Corporations	(5,904)	3,943	1,157	7,062	17,924
Employment Security Contributions	1,541	272	257	1,727	508
Fuel	3,980,300	4,308,790	4,558,664	5,021,914	5,005,842
General Excise License/Fees ¹	84,136	96,017	89,745	79,087	78,759
General Excise and Use Tax	96,420,134	102,572,429	109,863,184	105,128,667	117,923,716
Income, Corporate					
Declaration of Estimated Taxes	1,957,578	1,867,031	1,942,699	1,901,657	3,031,846
Payment with Returns	296,373	496,805	185,563	256,247	306,127
Refunds	(2,627,231)	(1,204,693)	(1,005,320)	(1,468,719)	(1,503,459)
Income, Individual					
Declaration of Estimated Taxes	13,942,214	11,360,351	14,170,827	16,014,201	20,883,037
Payment with Returns	5,060,270	5,896,058	6,020,561	7,890,511	8,774,885
Withholding Tax on Wages	36,987,160	39,907,885	50,378,741	50,016,699	50,778,036
Refunds	(28,269,877)	(24,224,351)	(26,193,447)	(21,591,253)	(23,703,573)
Liquor and Permits	5,501,888	6,147,984	6,150,059	5,963,129	6,067,932
Motor Vehicle Tax/Fees ²	5,386,392	5,367,076	5,448,308	5,594,869	5,878,030
Public Service Company	7,948,315	8,461,803	9,767,653	10,756,459	10,494,247
Tobacco and Licenses	304,231	300,121	124,063	73,378	68,946
Transient Accommodation Fees /					
Time Share Occupancy Fees ³	1,942	1,861	2,042	2,015	3,070
Transient Accommodation Tax /					
Time Share Occupancy Tax ^{1,3}	19,068,148	21,441,079	20,310,581	12,536,880	20,740,162
All Others ⁴	175	190	185	170	190
TOTAL	166,037,785	182,800,651	201,815,522	198,184,700	224,846,224

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

¹ Gross collection—does not reflect allocation to Special Funds.

² 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.

³ Time Share Occupancy Fees and Taxes were first collected in 1999.

⁴ Includes Fuel Retail Dealer Permits and Penalty & Interest—Fuel.

SOURCE: Hawaii State Department of Taxation, State Tax Collections and Distribution (fiscal year summary tables), 1995-1999.

4.8

ESTIMATED REAL PROPERTY TAX REVENUE, MAUI COUNTY

In thousands of dollars

Assessor's Gross Valuation as of 4/14/99 ¹	15,929,026
Land	7,994,761
Improvement	7,934,265
Exemptions ¹	1,633,290
Assessor's Net Taxable Valuation	14,295,736
Half of Valuation on Appeal	251,246
Number of Appeals	330
Valuation for Tax Rate Purposes	14,044,490
Land	7,448,417
Improvement	6,596,073
Amount to be Raised by Taxation ²	82,430

¹ Data exclude nontaxable properties.

² For fiscal year beginning July 1.

SOURCE: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates and Exemptions, 1999-2000 Tax Year, State of Hawaii* (July 1999).

4.9

**REAL PROPERTY TAX RATES,
MAUI COUNTY**

Dollars per \$1,000 net taxable value

Land Use Class	Rate Fiscal Year 1999-2000
LAND	
Homeowner	3.71
Improved Residential	5.04
Unimproved Residential	5.04
Apartment	5.04
Hotel/resort	8.48
Commercial	6.89
Industrial	6.89
Agricultural	5.04
Conservation	5.04
IMPROVEMENT	
Homeowner	3.71
Improved Residential	5.04
Unimproved Residential	5.04
Apartment	5.04
Hotel and Resort	8.48
Commercial	6.89
Industrial	6.89
Agricultural	5.04
Conservation	5.04

SOURCE: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates and Exemptions, 1999-2000 Tax Year, State of Hawaii* (July 1999).

4.10

**STATE AND LOCAL TAX AND FEE BURDEN,
TAXES AND FEES RELATED TO POPULATION
AND PERSONAL INCOME, BY STATE**

FISCAL YEAR 1994-1995

State	PER CAPITA COLLECTIONS ¹						PER CAPITA TAX BURDEN AS A % OF PER CAPITA INCOME ²			
	Total		Taxes Only		Fees and Assessments		Total		Taxes Only	
	Amount	Rank	Amount	Rank	Amount	Rank	%	Rank	%	Rank
HAWAII	3,868	6	3,058	6	810	8	16.2%	8	12.8%	7
U.S. Average	3,169	—	2,514	—	655	—	14.7%	—	11.7%	—
Alabama	2,536	46	1,713	51	823	7	14.3%	34	9.6%	50
Alaska	5,623	1	4,460	1	1,163	1	23.9%	1	19.0%	1
Arizona	2,722	39	2,292	29	430	49	14.7%	28	12.4%	10
Arkansas	2,307	51	1,765	50	543	38	13.9%	40	10.6%	43
California	3,310	12	2,570	15	739	15	14.9%	23	11.6%	25
Colorado	3,058	21	2,333	26	725	17	14.0%	38	10.7%	41
Connecticut	4,100	4	3,687	4	412	50	14.1%	36	12.7%	8
Delaware	3,634	8	2,704	12	930	3	16.0%	10	11.9%	17
Dist. of Columbia	4,870	2	4,401	2	469	46	15.5%	15	14.0%	3
Florida	2,967	26	2,252	31	714	20	13.9%	39	10.6%	44
Georgia	2,949	29	2,215	32	735	16	14.9%	22	11.2%	33
Idaho	2,739	37	2,062	40	677	26	15.3%	17	11.5%	26
Illinois	3,092	19	2,619	14	473	44	13.2%	47	11.2%	36
Indiana	2,920	31	2,201	34	719	19	14.5%	32	11.0%	39
Iowa	3,253	16	2,466	20	787	9	16.2%	9	12.3%	13
Kansas	3,018	23	2,369	24	648	29	14.6%	30	11.5%	30
Kentucky	2,594	43	2,101	38	493	42	14.7%	27	11.9%	16
Louisiana	2,599	42	1,839	47	761	13	14.8%	24	10.5%	46
Maine	2,908	33	2,466	19	441	48	14.9%	21	12.7%	9
Maryland	3,272	15	2,758	10	514	41	13.3%	45	11.2%	34
Massachusetts	3,528	10	2,980	8	548	36	13.9%	41	11.7%	20
Michigan	3,153	17	2,454	21	699	24	14.3%	33	11.1%	37
Minnesota	3,835	7	2,996	7	839	5	17.4%	3	13.6%	5
Mississippi	2,500	48	1,776	49	724	18	16.0%	12	11.4%	31
Missouri	2,639	40	2,148	36	491	43	12.9%	48	10.5%	45

4.10

CONTINUED

FISCAL YEAR 1994-1995

State	PER CAPITA COLLECTIONS ¹						PER CAPITA TAX BURDEN AS A % OF PER CAPITA INCOME ²			
	Total		Taxes Only		Fees and Assessments		Total		Taxes Only	
	Amount	Rank	Amount	Rank	Amount	Rank	%	Rank	%	Rank
Montana	2,575	45	2,038	42	537	39	14.7%	29	11.6%	22
Nebraska	3,105	18	2,398	23	708	22	15.0%	20	11.6%	23
Nevada	3,307	13	2,567	16	740	14	14.6%	31	11.3%	32
New Hampshire	2,738	38	2,267	30	471	45	11.7%	51	9.7%	49
New Jersey	3,884	5	3,285	5	599	32	14.1%	37	11.9%	18
New Mexico	2,790	35	2,147	37	643	30	16.7%	5	12.9%	6
New York	4,696	3	3,933	3	764	11	18.2%	2	15.3%	2
North Carolina	2,910	32	2,210	33	701	23	15.1%	18	11.5%	27
North Dakota	2,960	28	2,183	35	776	10	16.0%	13	11.8%	19
Ohio	2,962	27	2,405	22	557	34	14.2%	35	11.6%	24
Oklahoma	2,591	44	1,935	44	656	27	14.8%	26	11.1%	38
Oregon	3,072	20	2,309	27	763	12	15.3%	16	11.5%	28
Pennsylvania	2,998	25	2,477	17	521	40	13.5%	44	11.2%	35
Rhode Island	3,049	22	2,660	13	388	51	13.8%	42	12.0%	15
South Carolina	2,812	34	1,922	45	890	4	15.9%	14	10.9%	40
South Dakota	2,382	50	1,914	46	468	47	12.3%	50	9.9%	48
Tennessee	2,468	49	1,790	48	677	25	12.9%	49	9.4%	51
Texas	2,620	41	2,066	39	553	35	13.5%	43	10.7%	42
Utah	2,768	36	2,059	41	709	21	16.5%	6	12.3%	14
Vermont	3,016	24	2,469	18	548	37	15.1%	19	12.4%	11
Virginia	2,941	30	2,307	28	634	31	13.2%	46	10.4%	47
Washington	3,554	9	2,728	11	826	6	16.0%	11	12.3%	12
West Virginia	2,523	47	1,955	43	569	33	14.8%	25	11.5%	29
Wisconsin	3,485	11	2,831	9	654	28	16.8%	4	13.7%	4
Wyoming	3,299	14	2,358	25	941	2	16.3%	7	11.7%	21

¹ Population excluding armed forces overseas at July 1 as estimated by the U.S. Department of Commerce.

² Fiscal year taxes and fees as a percentage of prior calendar year personal income.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *State and Local Government Finance Estimates, by State: 1994-1995*, World Wide Web site <http://www.census.gov/govs/www/esti95.html>, after Tax Foundation of Hawaii, *Government in Hawaii* (1995, annual).

4.11

**PUBLIC BONDED DEBT OF STATE AND
MAUI COUNTY GOVERNMENTS**

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

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

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

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

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

Section 5

AGRICULTURE & AQUACULTURE

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

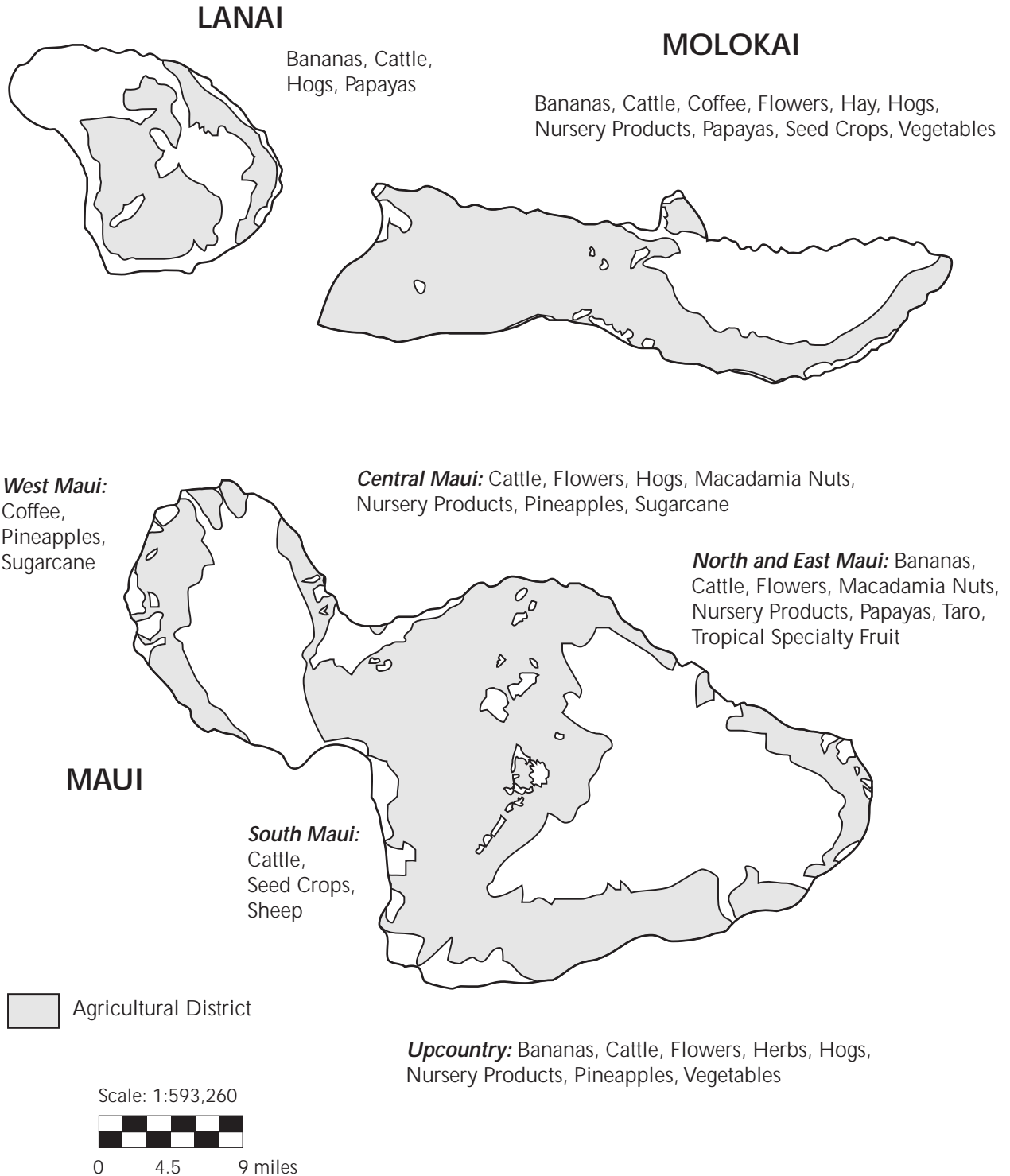
Agriculture remains an important element in Maui County's economy and land use patterns. Sugar and pineapple remain the largest crops, though the trend toward diversification of agriculture continues.

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

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

5.1.1

**AGRICULTURAL AREAS,
MAUI COUNTY**



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

5.1.2

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

	1987	1992	1997
Farms	722	850	806
Land In Farms (acres)	359,310	355,786	292,090
Tenure of Operator			
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
Operator Characteristics			
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
Operator Characteristics (cont.)			
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
Type of Organization			
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
Farms	722	850	806
Land in Farms	359,310	355,786	292,090
Average size of farm (acres)	498	419	362
Median size of farm (acres)	NA	NA	6
Estimated Market Value of Land and Buildings¹			
Average per farm	873,008	1,118,184	818,342
Average per acre	1,754	2,671	2,258
Estimated Market Value of All Machinery and Equipment¹			
Average per farm	81,608	117,143	88,989
Farms by Size			
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
Total Cropland			
Farms	573	733	684
Acres	89,439	D	D
Harvested Cropland			
Farms	496	666	605
Acres	42,952	39,031	32,243
Irrigated Land			
Farms	410	541	480
Acres	67,198	61,549	35,031
Market Value of Agricultural Products Sold (\$1,000)	153,313	164,767	128,385
Crops, including nursery and greenhouse crops	140,722	153,285	116,084
Livestock, poultry, and their products	12,591	11,483	12,301
Average Market Value of Agricultural Products Sold per Farm (\$)	212,345	193,844	159,287

¹ 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

	1992	1993	1994	1995	1996	1997
Number of Farms ¹	700	850r	850r	800r	800r	800
Farm Acreage (1,000) ²	355	350r	320r	295r	290r	290
Farm Employment ³						
Self-employed farm operators	400	300	250	300	300	300
Unpaid workers ⁴	150	100	100	100	150	100
Hired workers	2,300	2,050	2,000	1,850	1,850	1,850

¹ Based on farm definition of \$1,000 or more of agricultural sales.

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

³ Average of quarterly data.

⁴ Includes family members and others working 15 or more hours per week.

r: Revised.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture (1997)*, *Statistics of Hawaiian Agriculture (1992-1996)*.

5.1.5

MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD, HAWAII AND MAUI COUNTY

Subject and Year	State Total	Maui County
Total Sales (\$1,000)		
1978	419,251	103,564
1982	558,608	137,196
1987	609,740	153,313
1992	552,054	164,767
1997	496,935	128,325
Sales Per Farm (\$)		
1978	97,274	166,502
1982	121,569	204,771
1987	125,203	212,345
1992	103,458	193,844
1997	90,798	159,287

SOURCES: U.S. Bureau of the Census, *1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11* (September 1984), chapter 2, table 3; *1987 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC87-A-11* (August 1989), chapter 2, table 2; *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC92-A-11* (1994), chapter 2, table 2; 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 2.

5.1.6

VALUE OF CROP AND LIVESTOCK SALES, HAWAII AND MAUI COUNTY

In thousands of dollars

	All Crops and Livestock	All Crops	Sugar (unprocessed cane)	Pineapple (fresh equivalent)	Other Crops	Livestock
State Total						
1993	506,475	421,593	163,000	79,850	178,423	84,882
1994	503,780	427,150	160,100	78,890	187,840	76,630
1995	492,683r	421,089r	127,700	87,360	206,029r	71,594r
1996	494,565r	428,671r	108,100	95,914	224,657r	65,894r
1997	485,743	418,016	85,500	91,721	240,795	67,727
Maui County						
1993	131,935	118,934	62,700	24,890	27,962	13,001
1994	127,189	116,447	58,500	25,150	28,035	10,742
1995	124,657r	114,064r	59,400	24,775	29,889r	10,593r
1996	126,587r	116,444r	57,200	27,144	32,100r	10,143r
1997	127,608	116,453	53,900	28,295	34,258	11,155

r: Revised.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (1997), pp. 12-14.

5.1.7

ACREAGE IN CROP AND NUMBER OF CROP FARMS, MAUI COUNTY

	1993	1994	1995	1996	1997
Acreage in Crop (1,000 acres)					
Sugarcane	42.1	41.9	42.6	42.3	43.1
Pineapples (land used for pineapple)	10.9	10.8	9.5	9.3	9.1
Vegetables and melons (harvested acreage) ¹	2.6	2.6	2.0	1.5	1.4
Fruits (excluding pineapples)	0.2	0.3	0.2	0.2	0.3
Coffee	D	D	D	D	D
Macadamia nuts	D	D	D	D	D
All other crops ²	1.9	2.1	2.2	1.4	1.2
Number of Crop Farms					
Sugar	2	2	2	2	2
Pineapples ³	5	4	3	6	4
Vegetables and melons	78	85	95	105	105
Fruits (excluding pineapples)	52	61	74	85	86
Coffee	D	D	D	D	D
Macadamia nuts	9	11	D	D	D
Taro	23	21	20	22	15
Flowers and nursery products	102	102	106	111	106

¹ Includes ginger root.

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

³ Includes specialty pineapple.

D: Withheld to avoid disclosure of individual operations.

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

5.1.8

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

	1993	1994	1995	1996	1997
Value of Crop Sales (\$1,000)					
Sugar (unprocessed cane)	62,700	58,500	59,400	57,200	53,900
Pineapples (fresh equivalent)	24,890	25,150	24,775	27,144	28,295
Vegetables, ginger root, herbs & melons	14,371	15,112	13,760	11,652	11,692
Fruits (excluding pineapples)	779	984	1,031	858	1,136
Coffee (parchment)	D	D	D	D	D
Macadamia nuts, in shell	D	D	D	D	D
Taro	D	D	D	D	D
Seed and forage crops	D	D	D	D	D
Flowers and nursery products ¹	9,136	7,912	7,796	7,515	8,320
Total Crops ²	118,934	116,447	114,064	116,444	116,453
Volume of Crop Marketings					
Sugar, unprocessed cane (1,000 tons)	1,900	1,729	1,678	1,702	1,784
Pineapples, fresh equivalent (1,000 tons)	201	199	188	195	188
Veg., ginger, herbs & melons (1,000 lb)	42,660	42,935	36,110	26,570	26,590
Fruits, excluding pineapples (1,000 lb)	1,360	1,860	1,880	1,690	1,990
Coffee, parchment (1,000 lb)	D	D	D	D	D
Macadamia nuts, in shell (1,000 lb)	D	D	D	D	D
Taro (1,000 lb)	D	D	D	D	D

¹ Flowers, foliage, and nursery products.

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

D: Withheld to avoid disclosure of individual operations.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (1997), pp. 10, 12, 13.

5.1.9

PINEAPPLE: NUMBER OF FARMS, ACREAGE IN CROP, VOLUME OF CROP MARKETINGS, VALUE OF CROP SALES, MAUI COUNTY

	1993	1994	1995	1996	1997
Number of farms	5	4	3	6	4
Acreage of farms (1,000 acres)	10.9	10.8	9.5	9.3	9.1
Volume of marketings (fresh equivalent, 1,000 tons)	201	199	188	195	188
Value of sales (\$1,000)	24,890	25,150	24,775	27,144	28,295

NOTE: Includes specialty pineapple.

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

5.1.10

SUGARCANE: NUMBER OF FARMS, ACREAGE YIELD, PRODUCTION, PRICE AND VALUE, MAUI ISLAND

	1993	1994	1995	1996	1997
Number of farms ¹	2	2	2	2	2
Acreege (1,000 acres)					
In crop ¹	42.1	41.9	42.6	42.3	42.4
Harvested for sugar	19.8	19.5	20.6	20.1	19.7
Yield per acre (tons) ²					
Sugarcane	96.0	88.7	81.5	84.7	90.6
Raw sugar 96°	13.25	12.33	11.12	11.55	11.36
Production of cane for sugar (1,000 tons)	1,900	1,729	1,678	1,702	1,784
Farm price (dollars per ton)	33.00	33.80	35.40	33.60	30.20
Value of cane for sugar (\$1,000,000) ³	62.7	58.5	59.4	57.2	53.9
Mill production (1,000 tons)					
Raw sugar 96°	260	241	229	232	224
Molasses ⁴	72	69	74	75	90
Average returns received (dollars per ton) ⁵					
Raw sugar 96°	360	363	387	368	359
Molasses ⁴	43.00	43.00	58.90	55.40	38.00
Value of production (\$1,000,000)					
Raw sugar 96°	93.6	87.5	88.6	85.4	80.4
Molasses ⁴	3.1	3.0	4.4	4.2	3.4
Total	96.7	90.5	93.0	89.6	83.8

¹ At end of year.

² Yield and farm price may not compute exactly due to rounding.

³ 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.

⁴ Commercial.

⁵ Derived from production and value. Prices may not compute exactly due to rounding.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (1997) pp. 22-23; primary data source, Hawaii Agricultural Research Center (formerly Hawaii Sugar Planters' Association).

5.1.11

SUGAR COMPANIES, ACREAGE AND PRODUCTION, MAUI COUNTY

	Total Caneland Acreege	Acres Harvested	Production (short tons)	Tons Sugar Per Harvested Acre
A&B-Hawaii, Inc.				
Hawaiian Commercial & Sugar Company	36,593	16,457	206,217	12.53
AMFAC/JMB Hawaii, Inc.				
Pioneer Mill Co., Ltd.	6,241	3,057	34,299	11.22
Total all companies in State of Hawaii	121,140	64,328	658,538	10.24

SOURCE: Hawaiian Sugar Planters' Association, *Hawaiian Sugar Manual* (1995), p. 3.

5.1.12

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

	1993	1994	1995	1996	1997
Number of Livestock Operations, December 31					
Cattle ¹	200	190	190	190	190
Hogs	60	70	70	70	70
Milk	5	5	5	5	5
Eggs	7	7	7	7	7
Honey ²	4	4	2	5	5
Volume of Livestock Marketings					
Beef (dressed weight; 1,000 lb) ³	3,569	2,721	2,055	2,665	2,844
Pork (dressed weight; 1,000 lb)	1,562	1,491	1,584	1,361	933
Milk (million lb)	D	D	D	D	D
Eggs (million)	D	D	D	D	D
Honey (1,000 lb)	D	D	D	D	D
Value of Livestock Sales (\$1,000)					
Cattle ⁴	6,623	4,500	3,511	2,872	4,345
Hogs ⁵	1,655	1,521	1,668	1,513	1,008
Milk	D	D	D	D	D
Eggs	D	D	D	D	D
Total livestock sales⁶	13,001	10,742	10,585	10,127	11,155

¹ Includes beef, dairy, and dairy replacement operations.

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

³ Includes slaughter cattle, but excludes calves shipped out-of-state.

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

⁵ Excludes interfarm sales; includes out-of-state sales of slaughter animals.

⁶ Sum of individual commodities may not add to total. Includes sheep, wool, turkeys, horses, honey, beeswax, broilers and chickens.

D: Withheld to avoid disclosure of individual operations.

SOURCE: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (1997), pp. 9, 11 and 14.

5.1.13

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

Commodity	1992	1993	1994	1995	1996	1997
HARVESTED ACREAGE¹						
Beans, snap	120	45	25	30	37	45
Cabbage, head	410	400	390	370	315	300
Celery	25	25	20	20	20	20
Corn, sweet	90	95	30	45	50	25
Cucumbers	50	65	60	70	140	155
Lettuce	90	70	30	30	25	15
Onions, dry	115	160	170	205	200	180
Onions, green	20	15	15	15	15	10
Peppers, green	195	245	195	105	15	5
Romaine	85	105	100	110	85	90
Squash, Italian	65	75	60	45	35	40
Sweet potatoes	130	130	145	155	95	70
Tomatoes	130	150	130	190	215	245
Watermelon	595	490	645	360	60	5
Other Vegetables & Melons ²	470	538	536	263	258	250
Total Vegetables & Melons	2,590	2,608	2,551	2,013	1,565	1,455
Taro ³	115	90	75	85	85	85
PRODUCTION (1,000 pounds)						
Beans, snap	465	240	140	220	245	350
Cabbage, head	9,800	9,800	7,900	8,000	7,300	6,700
Celery	560	650	450	380	300	370
Corn, sweet	740	520	130	160	185	130
Cucumbers	830	920	930	900	2,500	2,600
Lettuce	750	640	300	240	200	100
Onions, dry	1,090	1,750	2,070	2,265	1,980	1,690
Onions, green	210	170	150	150	120	105
Peppers, green	2,760	2,470	2,475	1,300	160	60
Romaine	900	1,070	1,150	1,140	960	1,150
Squash, Italian	700	710	600	410	380	350
Sweet potatoes	1,580	1,300	1,500	1,500	1,100	800
Tomatoes	2,430	3,540	3,270	4,900	5,580	8,070
Watermelon	7,690	10,300	13,440	9,950	1,750	95
Other Vegetables & Melons ²	7,480	8,290	8,153	4,355	3,460	3,730
Total Vegetables & Melons	37,985	42,370	42,658	35,870	26,220	26,300
Taro (marketings) ³	1,040	880	980	1,240	1,100	900

5.1.13

C O N T I N U E D

Commodity	1992	1993	1994	1995	1996	1997
	VALUE (\$1,000)					
Beans, snap	438	215	149	228	256	359
Cabbage, head	2,117	1,842	1,659	1,784	1,351	1,380
Celery	140	169	115	118	79	102
Corn, sweet	292	151	104	105	114	98
Cucumbers	382	373	372	342	988	832
Lettuce	300	315	168	106	80	41
Onions, dry	1,226	1,589	2,215	2,587	2,344	1,658
Onions, green	189	163	152	171	132	111
Peppers, green	1,568	1,405	1,309	723	79	30
Romaine	333	380	411	473	341	414
Squash, Italian	290	320	288	209	181	179
Sweet potatoes	569	547	807	816	558	432
Tomatoes	1,446	1,965	1,645	2,239	2,751	4,064
Watermelon	1,192	1,597	2,043	1,602	277	18
Other Vegetables & Melons ²	2,388	2,588	2,919	1,694	1,308	1,351
Total Vegetables & Melons	12,870	13,619	14,356	13,197	10,839	11,069
Taro ³	443	447	502	610	568	450

¹ For vegetables and melons, acreage harvested (e.g., one acre planted and harvested three times during the year equals three harvested acres). For taro, average acreage in crop during the year; does not include acreage used primarily for leaf production..

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

³ Oahu combined with Maui and Molokai to avoid disclosure of individual operations.

SOURCES: Hawaii Agricultural Statistics Service, *Hawaii Vegetables, Annual Report of Harvested Acreage, Production and Farm Values*, October 1998, p. 4; *Statistics of Hawaii Agriculture* (1997), p. 67.

5.1.14

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)
State Total						
1992	686	3,880	22,025	13	1,890	2,497
1993	662	4,565	19,955	21	1,800	2,384
1994	660	3,770	21,600	18	1,690	2,290
1995	705	3,770 ^r	24,215 ^r	15	2,040	2,698
1996	690	2,820	23,405	10	1,600	2,212
1997	670	2,805	23,885	10	1,535	2,158
Maui/Molokai						
1992	104	275	650	*	440	461
1993	102	285	585	0	450	470
1994	102	310	505	0	480	499
1995	106	270	375	0	450	465
1996	111	230	335	0	415	428
1997	106	235	345	0	295	308

* Less than 1/2 acre.

r: Revised.

SOURCE: Hawaiian Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (1997), p. 34.

5.1.15

FLORICULTURE AND NURSERY PRODUCTS, BY COMMODITY, MAUI COUNTY

Value of grower sales (\$1,000)

Commodity	1993	1994	1995	1996	1997
Cut Flowers ¹	1,960	2,283	2,188 ^r	2,371	2,202
Orchids ²	619	487	470 ^r	744	D
Lei Flowers	1,102	1,096	1,331	1,228	D
Foliage ³	D	D	D	D	D
Potted Flowering Plants	D	D	D	D	D
All Other Nursery Products ⁴	5,300	3,710	3,533	2,923	5,807
Unspecified Sales ⁵	155	336	274	249	311
Total	9,136	7,912	7,796^r	7,515	8,320

¹ Cut orchids included in "Orchids" category.

² Excludes orchids used for lei flowers.

³ Includes potted, cut and unfinished.

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

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

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

r: Revised.

SOURCE: Hawaiian Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (1997), p. 27.

5.2.1

AQUACULTURE OPERATIONS AND PRODUCTION, MAUI COUNTY

	Number of operations	Acreage (Dec. 31)	PRODUCTION (1,000 LB.)			
			Total	Shellfish	Finfish	Algae
1989	4	13	7.5	7.2	0.3	NA
1990	5	13	14.3	14.0	0.3	-
1991	8	15	32.0	32.0	NA	NA
1992	9	16	62.5	38.5	19.0	5.0
1993	10	20	29.0	21.0	3.0	5.0
1994	18	30	60.1	46.0	14.1	NA
1995	18	35	50.1	40.0	10.1	-
1996	19	40	75.1	60.0	15.1	NA

SOURCE: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

5.2.2

AQUACULTURE PRODUCTION VALUE, MAUI COUNTY

At farm gate (\$1,000)

Maui	Total	Shellfish	Finfish	Algae	Other ¹
1989	42.9	42.0	0.9	NA	NA
1990	76.9	76.0	0.9	-	NA
1991	145.0	145.0	NA	NA	NA
1992	243.1	188.6	46.0	8.5	NA
1993	128.0	110.0	9.5	8.5	NA
1994	328.1	272.0	56.1	NA	NA
1995	279.1	240.2	38.2	-	0.7
1996	402.8	350.0	52.8	NA	NA

¹ Non-food products, e.g., ornamental fish, seedstock.
NA: Data not reported.

SOURCE: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

5.2.3

COMMERCIAL FISH LANDINGS, MAUI COUNTY

Year ended June 30

Year	Pounds Landed	Pounds Sold	Value (\$)
1982	792,504	734,258	873,251
1983	944,045	899,995	1,109,356
1984	889,715	810,257	1,083,651
1985	862,333	810,599	1,140,578
1986	1,007,255	915,637	1,659,720
1987	1,120,497	1,026,307	1,919,196
1988	961,337	851,858	1,780,096
1989	698,000	596,620	1,363,703
1990	777,385	624,466	1,428,937
1991	744,805	602,325	1,390,838
1992	854,282	692,870	1,596,576
1993	516,909	409,498	1,050,460
1994	624,147	486,682	1,226,805
1995	731,447	586,398	1,597,826
1996	783,394	620,343	1,577,195
1997	705,624	546,863	1,436,087
1998	793,378	638,085	1,627,632

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

5.2.4

SEA SPECIES COMMONLY CAUGHT NEAR FISH AGGREGATING DEVICES, MAUI COUNTY

Pounds landed in year ending June 30

Species	1994	1995	1996	1997
Aku	19,889	41,737	13,497	14,651
Bigeye	868	5,509	353	77
Yellowfin	21,996	112,697	17,665	18,256
Kawakawa	115	147	108	87
Tuna (misc.)	50	1	88	—
Black Marlin	—	—	220	—
Blue Marlin	36,755	6,442	38,679	16,084
Striped Marlin	8,241	3,029	4,994	4,495
Sailfish	—	24	28	27
Shortbill Spearfish	926	604	619	693
Kahala	—	40	—	—
Kaku	—	—	—	23
Kamanu	—	142	57	11
Keokeo	—	—	7	—
Mahimahi	46,755	50,227	30,156	44,824
Mako	350	—	—	—
Mano	5,216	250	1,385	1,095
Ono	7,851	9,901	5,586	9,458
Opelu	—	—	12	137
Uku	—	5	—	—
Other	133	11	73	19
Total	149,145	230,766	113,527	109,937
Devices Available	19	18	14	19

NOTES: 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.

5.3.1

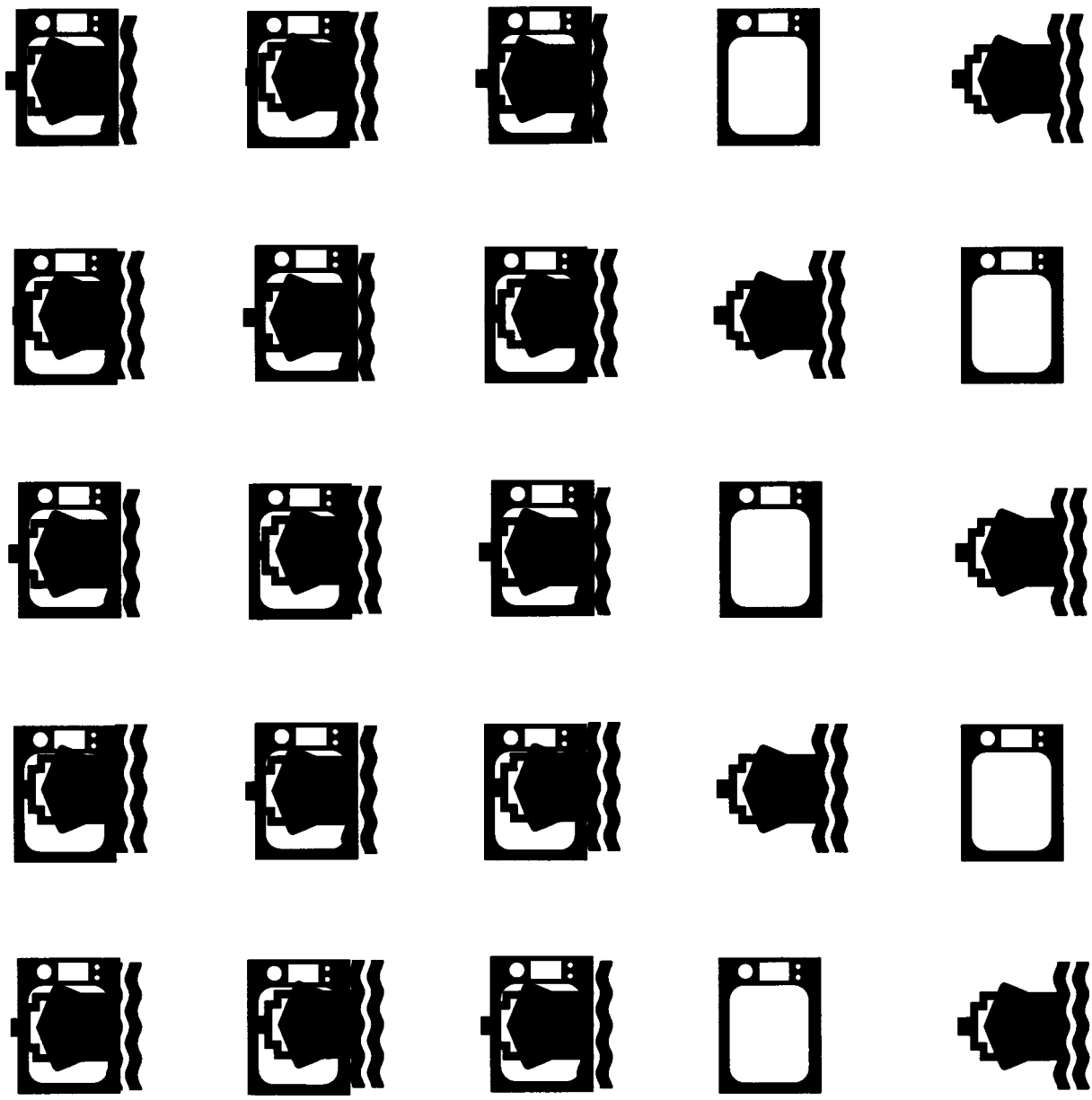
AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS, MAUI COUNTY

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

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

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

Communication & Transportation



Section 6

COMMUNICATION & TRANSPORTATION

This section covers statistics on communications and transportation.

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

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

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

6.1.1

AVERAGE PAID CIRCULATION OF THE MAUI NEWS

For 12 month period ending March 31

Year	Monday-Thursday	Friday	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

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

6.1.2

AVERAGE DISTRIBUTION OF OTHER NEWSPAPERS, MAUI COUNTY

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

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

6.1.3

CABLE TELEVISION COMPANIES, SUBSCRIBERS AND REVENUES, BY COUNTIES

	Maui	Hawaii	Honolulu	Kauai	State Total
Number of Companies¹					
Dec. 31, 1995	2	3	2	2	6
Dec. 31, 1996	2	2	2	2	4
Dec. 31, 1997	2	2	2	1	3
Dec. 31, 1998	3	2	2	1	4
Dec. 31, 1999	3	2	2	1	2
Subscribers					
Dec. 31, 1995	34,652	32,223	251,863	20,100	338,838
Dec. 31, 1996	35,507	32,876	252,261	20,306	340,950
Dec. 31, 1997	35,937	32,926	254,167	17,408	340,438
Dec. 31, 1998	49,761	34,459	256,436	17,679	358,335
Dec. 31, 1999	51,835	34,268	253,981	18,189	358,273
Basic Service Revenue (\$1,000)					
1995	9,589	7,020	48,852	4,261	69,722
1996	9,706	9,068	53,627	4,884	77,285
1997	10,200	9,486	60,045	5,369	85,099
1998	11,797	10,674	65,650	5,615	93,735
1999	12,719	12,107	72,522	5,783	103,131

¹ State totals are unduplicated figures; one company provided service to three counties.

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

6.1.4

RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION, MAUI COUNTY

Station	State Total	Maui County
Commercial Stations		
AM	28	4 ¹
FM	36	9
TV ²	20	5
Non-commercial Stations		
AM	1	–
FM	5	1
TV ²	2	1

¹ Excludes one commercial AM station with studio on Oahu but transmitter on Molokai.

² 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

	1992	1993	1994	1995	1996	1997	1998	1999
Total	90,903	92,744	103,581	108,258	105,444	111,889	111,316	125,852
Gasoline	47,004	48,211	50,324	50,852	51,854	52,863	52,855	54,543
Diesel Oil, Non-highway	34,431	38,421	36,790	37,482	32,694	32,361	26,735	31,191
Diesel Oil, Highway Use	2,441	2,616	3,235	2,920	3,453	3,743	3,987	4,564
Liquid Petroleum Gas, Off Highway	511	515	532	547	569	609	560	602
Liquid Petroleum Gas, Highway Use	40	36	27	30	26	21	22	20
Small Boats, Gasoline			2					
Aviation Fuel ¹	6,475	2,944	12,669	16,426	16,847	22,293	27,157	34,931

¹ 1993 is low due to change in carrier fueling and new fuel storage tank.

SOURCE: Hawaii State Department of Taxation, *Liquid Fuel Tax Base, and Tax Collections, Calendar Year Ending December 31 (1992-1999, annual)*.

6.2.2

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

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

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

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

6.2.3

HIGHWAY DISTANCES, ISLAND OF MAUI

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

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

6.2.4

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

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

	1990	1991	1992	1993	1994	1995	1996	1997
Drivers Licenses in Force (as of December 31)	69,751	73,329	76,261	78,191	80,643	79,639	80,988	82,217
All Vehicles	112,268	115,793	112,596	113,073	113,429	115,312	119,961	119,626
Motor Vehicles	109,593	113,058	110,003	110,344	110,708	112,529	117,214	116,878
Passenger vehicles ¹	87,984	89,902	86,215	86,130	85,857	86,889	91,067	90,573
Ambulances	7	7	9	5	13	12	12	10
Buses	478	469	453	446	422	440	405	328
Trucks ¹	19,885	21,224	21,707	21,913	22,315	23,026	23,610	23,935
Truck tractors	221	224	193	157	144	137	118	111
Truck cranes	118	135	123	110	93	89	86	79
Motorcycles ²	900	1,097	1,303	1,583	1,864	1,936	1,916	1,842
Trailers and Semi-trailers	2,675	2,735	2,593	2,729	2,721	2,783	2,747	2,748

¹ Before 1994, vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, were counted as trucks.

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

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

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

NA: Not available.

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

6.2.6

AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS, STATE OF HAWAII AND MAUI COUNTY

	1987	1992	1995
State Total (SIC 7514)			
Number of establishments	77	64	
Receipts (\$ million)	231.1	320.0	
State Total (SIC 751)			
Number of establishments	101	82	
Receipts (\$ million)	243.3	332.0	
Maui County (SIC 751)			
Number of establishments	23	22	
Receipts (\$ million)	61.4	74.8	
Annual payroll (\$1,000)	8,059	7,996	
Paid employees	490	505	
Maui County			
Number of rental car registrations, (new and renewals)*	—	14,983	17,324

NOTES: 1) State Total—Most of the receipts for SIC 751 were reported in SIC 7514, passenger car rental. Other subgroups under SIC 751 were SIC 7513, truck rental and leasing, without drivers; SIC 7515, passenger car leasing; and SIC 7519, utility trailer and recreational vehicle rental.

2) The number of rental car registrations is the total number of cars registered in the county over the entire fiscal year. It does not reflect the number of rental cars in the county at any given time, which is likely to be lower.

* Fiscal year totals.

SOURCES: Business characteristics: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), tables 1a, 4a, 7 and 8a; *1992 Census of Service Industries, Hawaii*, SC92-A-12 (September 1994), tables 1a and 6. Rental car registrations: Maui County, Department of Finance, Motor Vehicle Registration, records.

6.2.7

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

1999	Kahului	Honolulu International	Kona International (Keahole)	Lihue	Hilo International	Molokai
All Movements	188,385	346,609	82,955	115,523	115,820	49,184
Air Carrier	62,883	197,839	27,500	33,173	22,189	1,469
Air Taxi	92,569	36,985	8,860	58,778	51,875	30,286
General Aviation	29,575	91,743	37,588	18,995	33,248	14,169
Military	3,358	20,042	9,007	4,577	8,508	3,260

SOURCE: Hawaii State Department of Transportation, Airports Division, *Airport Activity Statistics, Calendar Year 1999*.

6.2.8

AIRCRAFT OPERATIONS BY TYPE OF AIRCRAFT, KAHULUI AND MOLOKAI AIRPORTS

	1992	1993	1994	1995	1996	1997	1998	1999
Kahului Airport								
All Movements	178,752	172,265	179,227	179,883	178,590	173,342	180,890	188,385
Air Carrier	57,159	51,648	56,393	65,791	67,136	64,599	63,336	62,883
Air Taxi	68,832	77,212	85,373	80,349	78,722	81,105	84,546	92,569
General Aviation	47,281	37,097	33,292	30,691	29,976	25,211	29,509	29,575
Military	5,480	6,308	4,169	3,052	2,756	2,427	3,499	3,358
Molokai Airport								
All Movements	35,662	39,057	38,369	45,517	49,221	44,667	49,353	49,184
Air Carrier	148	100	1,443	1,194	1,003	1,017	1,163	1,469
Air Taxi	23,644	26,512	25,637	30,365	34,753	31,290	30,080	30,286
General Aviation	9,553	9,465	8,452	9,460	10,744	10,844	15,425	14,169
Military	2,317	2,980	2,833	4,498	2,721	1,516	2,685	3,260

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 1999*.

6.2.9

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

Airport	1995		1996		1997		1998		1999	
	En- planed	De- planed	En- planed	De- planed	En- planed	De- planed	En- planed	De- planed	En- planed	De- planed
Passengers¹										
OGG										
interisl.	2,295,009	2,231,107	2,270,201	2,187,458	2,208,703	2,070,434	2,111,692	1,981,652	2,129,704	2,017,788
OGG										
overseas	737,044	791,601	680,302	768,174	770,110	828,364	837,015	910,058	854,706	969,881
MKK	121,371	121,760	121,872	125,605	125,471	126,766	124,917	127,675	132,540	137,212
LNy	83,138	86,544	82,882	85,037	88,777	89,626	88,035	88,584	88,598	87,043
JHM	74,014	73,284	78,381	78,367	88,485	89,444	72,573	72,355	68,336	66,966
HNM	6,446	6,273	5,441	5,258	5,126	4,955	4,877	4,605	4,184	3,909
LUP	6,211	5,766	4,216	3,885	4,393	4,232	4,546	4,408	4,150	3,996
Cargo (U.S. Tons)										
OGG										
interisl.	6,020	17,294	7,505	19,746	8,984	22,122	5,587	14,517	5,324	14,911
OGG										
overseas	6,092	5,586	7,184	5,776	6,988	5,772	6,804	5,179	6,945	5,937
MKK	162	397	126	555	263	710	319	888	441	967
LNy	6	589	19	509	154	721	136	717	112	665
JHM	249	538	200	480	236	482	237	489	277	360
HNM	1	0	1	0	1	0	4	0	42	11
LUP	0	0	0	0	1	6	8	153	15	174
Mail (U.S. Tons)										
OGG										
interisl.	2,021	3,145	2,287	3,641	2,195	4,643	2,199	7,643	2,263	7,592
OGG										
overseas	10	0	0	0	167	23	642	25	1,102	1
MKK	53	29	8	76	31	35	54	121	35	204
LNy	0	66	6	83	37	31	38	74	15	113
JHM	0	0	0	0	0	0	0	4	0	0
HNM	0	0	0	0	0	0	0	0	0	0
LUP	0	0	1	6	0	0	1	4	1	3

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

AIRPORT KEY:

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

¹ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also includes overseas passengers in transit.

SOURCE: Hawaii State Department of Transportation, Airports Division, *Airport Activity Statistics, Calendar Year 1999*.

6.2.10

STATE COMMERCIAL HARBORS, MAUI COUNTY

	Maui (Kahului)	Molokai (Kaunakakai)
Harbor Entrance Depth	35	23
Harbor Basin Depth	35	23
Pier 1*	35	
Pier 2	27	
Pier 3*	18	
Length	2,400	1,500
Width	2,050	600
Piers (linear feet)	3,019	691
Storage Area (1,000 sq. ft.)		
Shedded	124	8.8
Open	850	128

* Piers 1 and 3 dredged in 1994.

SOURCE: Hawaii State Department of Transportation, Harbors Division, unpublished data, September 26, 1994. Amended by Hawaii State Department of Transportation, Harbors Division, Maui District Office, December 15, 1995.

6.2.11

SMALL CRAFT MOORING FACILITIES, MAUI COUNTY

	Maui	Lanai	Molokai
Catwalks and Piers			
Total	46	28	2
Vacant	0	3	0
Other Moorage			
Total	144	5	27
Vacant	0	0	2
Other Moorage, Not State Operated ¹			
Total	50	10	50

¹ Includes moorings, ramps and dry storage.

SOURCE: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly), and records.

6.2.12

KAHULUI HARBOR FREIGHT TRAFFIC BY COMMODITY

In thousands of tons

Commodity	Grand Total	Foreign Imports	Foreign Exports	Domestic		
				Total	Receipts	Shipments
Grand Total	2,851	3	0	2,849	1,897	952
Petroleum and Petroleum Products Total	520	3	-	518	511	6
2211 Gasoline	143	-	-	143	143	-
2330 Distillate Fuel Oil	225	-	-	225	223	2
2340 Residual Fuel Oil	136	-	-	135	131	5
2350 Lube Oil & Greases	1	-	-	1	1	-
2640 Liquid Natural Gas	15	3	-	12	12	-
2990 Petro. Products NEC	1	-	-	1	1	-
Chemicals and Related Products Total	29	-	-	29	29	0
3110 Nitrogenous Fert.	1	-	-	1	1	-
3190 Fert. & Mixes NEC	21	-	-	21	21	0
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	0	-	-	0	0	-
3285 Perfumes & Cleansers	2	-	-	2	2	0
3286 Plastics	1	-	-	1	1	-
3291 Pesticides	1	-	-	1	1	-
3293 Explosives	0	-	-	0	0	-
Crude Materials, Inedible Except Fuels Total	111	-	-	111	101	10
4189 Lumber	41	-	-	41	34	7
4190 Forest Products NEC	1	-	-	1	1	-
4225 Pulp & Waste Paper	0	-	-	0	0	0
4331 Sand & Gravel	61	-	-	61	61	-
4338 Soil & Fill Dirt	1	-	-	1	1	-
4420 Iron & Steel Scrap	7	-	-	7	4	3
4900 Non-Metal. Min. NEC	1	-	-	1	1	-
Primary Manufactured Goods Total	1,381	-	0	1,381	800	582
5110 Newsprint	2	-	-	2	2	-
5120 Paper & Paperboard	2	-	-	2	1	1
5190 Paper Products NEC	16	-	-	16	16	0
5220 Cement & Concrete	37	-	-	37	37	-
5240 Glass & Glass Prod.	1	-	-	1	1	0
5290 Misc. Mineral Prod.	11	-	-	11	11	-
5360 I&S Bars & Shapes	1	-	-	1	1	0
5370 I&S Pipe & Tube	4	-	-	4	4	0
5429 Smelted Prod. NEC	0	-	-	0	0	-
5480 Fab. Metal Products	1,304	-	-	1,304	723	581
5540 Primary Wood Prod.	5	-	0	5	5	-

6.2.12

CONTINUED

Commodity	Grand Total	Foreign Imports	Foreign Exports	Domestic		
				Total	Receipts	Shipments
Food and Farm Products Total	364	-	-	364	170	194
6134 Fish (Not Shellfish)	0	-	-	0	0	0
6442 Rice	3	-	-	3	3	-
6654 Vegetables & Prod.	11	-	-	11	11	0
6746 Wheat Flour	1	-	-	1	1	-
6747 Grain Mill Products	0	-	-	0	0	-
6781 Hay & Fodder	1	-	-	1	1	-
6782 Animal Feed, Prep.	12	-	-	12	12	-
6811 Meat, Fresh, Frozen	10	-	-	10	10	0
6822 Dairy Products	2	-	-	2	2	0
6839 Animals & Prod. NEC	5	-	-	5	3	2
6857 Fruit & Nuts NEC	1	-	-	1	1	0
6858 Fruit Juices	109	-	-	109	0	109
6861 Sugar	0	-	-	0	0	0
6865 Molasses	76	-	-	76	-	76
6871 Coffee	0	-	-	0	0	0
6885 Alcoholic Beverages	21	-	-	21	21	-
6887 Groceries	9	-	-	9	9	-
6889 Food Products NEC	101	-	-	101	94	7
6899 Farm Products NEC	1	-	-	1	1	0
Mfgd Equipment, Machinery and Products Total	445	-	0	445	285	160
7110 Machinery (Not Elec)	17	-	-	17	9	8
7120 Electrical Machinery	1	-	-	1	1	-
7210 Vehicles & Parts	230	-	-	230	130	99
7220 Aircraft & Parts	0	-	-	0	0	0
7230 Ships & Boats	0	-	-	0	0	0
7400 Manufac. Wood Prod.	3	-	-	3	2	0
7500 Textile Products	0	-	0	0	0	-
7600 Rubber & Plastic Pr.	1	-	-	1	1	0
7900 Manufac. Prod. NEC	194	-	-	194	141	53
Unknown or Not Elsewhere Classified Total	0	-	-	0	0	-
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. *Foreign Exports*: outbound domestic merchandise and re-export of foreign merchandise from a US foreign trade zone destined for foreign countries other than 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 1998.

6.2.13

VESSEL ARRIVALS FOR KAHULUI HARBOR

Excludes domestic fishing craft

	1992	1993	1994	1995	1996	1997	1998
Total Inbound Vessels	1,513	1,257	1,228	1,238	1,333	1,259	1,351
By Type of Vessel							
Self propelled vessels							
Passenger and dry cargo	133	31	35	27	35	22	45
Tanker	5	2	0	0	1	0	3
Towboat or tugboat	552	452	362	443	539	534	584
Non-self propelled vessels							
Dry cargo	753	691	736	687	676	615	618
Tanker	70	81	95	81	82	88	101
By Draft							
18 feet and less	1,387	1,233	1,202	1,211	1,280	1,061	1,152
19 feet and more	126	24	26	27	53	198	199

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 1992-1998.

6.2.14

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

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 1988-1998.

Section 7

ENERGY & SCIENCE

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

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

7.1.1

**ELECTRIC COMPANY RESIDENTIAL CUSTOMERS,
MAUI COUNTY BY DISTRICTS**

	1990	1991	1992	1993	1994	1995
State Total	326,038	328,899	332,863	340,932	346,977	NA
Maui County¹	39,924	41,222	42,812	43,543	44,725	47,820
Hana	580	592	597	602	600	603
Makawao	7,192	7,948	8,780	8,856	8,920	9,405
Wailuku	21,654	21,875	22,127	22,415	23,025	25,182
Lahaina	7,297	7,617	7,918	8,203	8,640	9,010
Lanai	1,004	972	1,107	1,167	1,120	1,140
Molokai	2,197	2,218	2,283	2,300	2,420	2,480

¹ Kalawao County included with Maui County.

SOURCE: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the Hawaiian Electric Co., Inc., Hawaii Electric Light Co., Inc., Maui Electric Co., Ltd., and Molokai Electric Co., Ltd., with additional data for 1994 and 1995 from Maui Electric Co., Inc.

7.1.2

ELECTRIC UTILITIES,
MAUI COUNTY

	1993	1994	1995	1996	1997
CUSTOMERS, DEC. 31					
<i>Total</i>					
Maui Island	47,035	48,388	49,194	49,590	50,385
Molokai	2,766	2,798	2,812	2,816	2,858
Lanai	1,263	1,297	1,333	1,345	1,362
Maui County	51,064	52,483	53,339	53,751	54,605
<i>Residential¹</i>					
Maui Island	40,163	41,292	42,004	42,578	43,159
Molokai	2,270	2,302	2,308	2,319	2,339
Lanai	1,110	1,131	1,162	1,179	1,181
Maui County	43,543	44,725	45,474	46,076	46,679
<i>Other</i>					
Maui Island	6,872	7,096	7,190	7,012	7,226
Molokai	496	496	504	497	519
Lanai	153	166	171	166	181
Maui County	7,521	7,758	7,865	7,675	7,926
GENERATING AND FIRM PURCHASED CAPABILITY, DEC. 31 (MW)					
Maui Island	217.3	217.3	217.3	207.5	207.5
Molokai	8.7	8.7	8.7	9.8	12.1
Lanai	9.7	9.7	9.7	14.1	10.4
Maui County	235.7	235.7	235.7	231.4	230.0
PEAK DEMAND (MW)²					
Maui Island	156.7	163.2	170.7	174.8	174.7
Molokai	6.1	6.4	7.0	6.8	6.6
Lanai	4.5	4.7	4.8	5.0	5.0
POWER SOLD (1,000 kWh)					
<i>Total</i>					
Maui Island	861,002	901,235	937,143	963,625	969,170
Molokai	30,842	33,064	33,920	34,341	33,549
Lanai	23,879	25,818	26,053	26,365	26,050
Maui County	915,723	960,117	997,116	1,024,331	1,028,768
<i>Residential</i>					
Maui Island	286,013	302,085	313,521	327,562	328,582
Molokai	12,199	12,557	12,774	12,951	12,676
Lanai	5,916	5,963	6,147	6,346	6,442
Maui County	304,128	320,605	332,443	346,859	347,700
<i>Other</i>					
Maui Island	574,990	599,151	623,621	636,063	640,587
Molokai	18,643	20,506	21,145	21,390	20,873
Lanai	17,963	19,856	19,906	20,019	19,608
Maui County	611,596	639,513	664,673	677,472	681,068

7.1.2

CONTINUED

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

¹ 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.

² 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.

³ Based on number of customers at end of year.

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

7.1.3

**ENERGY GENERATED, PURCHASED, SOLD
AND USED BY SUGAR PLANTATIONS,
MAUI COUNTY**

Electricity (million kWh)	Generated¹	Purchased	Sold	Used²
1984	249.39	9.76	61.43	197.72
1985	249.06	9.92	94.96	164.02
19.86	272.99	7.40	124.76	155.62
1987	253.00	5.92	105.17	155.62
1988	254.00	5.09	97.56	155.62
1989	247.00	24.56	99.72	172.19
1990	223.68	0.20	96.21	127.68
1991	259.00	2.00	104.68	156.14
1992	253.93	3.87	106.13	151.68
1993	250.32	6.07	104.03	152.36
1994	244.01	7.33	104.72	146.62
1995	274.07	11.70	102.19	183.59
1996	255.52	8.50	87.10	176.92

Gross Heat Values of Boiler Fuels (billions of BTUs)	All Fuels	Bagasse	Fuel Oil	Other Fuels
1984	8,080	6,409	1,530	141
1985	7,477	6,127	1,277	72
1986	8,318	6,460	1,785	73
1987	8,100	6,384	1,495	222
1988	7,925	6,325	1,523	26
1989	7,366	5,448	1,629	289
1990	NA	NA	NA	NA
1991	7,293	4,774	2,294	225
1992	6,344	4,562	1,604	178
1993	7,268	5,007	2,049	212
1994	5,834	4,726	1,108	-
1995	7,134	4,689	2,445	-
1996	6,606	4,440	2,166	-

¹ Includes electricity generated by steam and by hydroelectric or diesel engine generators.

² Includes transmission losses and electricity used to operate power plant auxiliaries.

NA Not available.

SOURCE: Hawaiian Sugar Planters' Association, *Energy Inventory of Hawaii Sugar Plantations 1984-1995* (Energy Reports 24-35, annual); Hawaii Agricultural Research Center, *Energy Inventory of Hawaii Sugar Plantations 1996* (Energy Report 36, annual).

7.1.4

GAS UTILITIES, MAUI COUNTY*Excludes bottled gas*

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

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

² Based on number of customers at end of year.

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

7.1.5

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

In trillion BTU

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

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

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

r: Revised.

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

7.1.6

WATER SERVICES AND CONSUMPTION, MAUI COUNTY

Years ending June 30

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

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

7.2.1

TELESCOPES AT THE SUMMITS OF MAUNA KEA AND HALEAKALA

Location and Facility	Mirror Size (meters)	Year Completed	Primary Use	Local Staff ¹
Mauna Kea				
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
Haleakala (on University of Hawaii land)				
Mees Solar Observatory		1956	Measure solar emissions	2
Lunar Ranging Facility		1976/84	Laser ranging	7
Maui Space Surveillance Site				120
Tracking Telescope (compensated)	1.6	1968	Image near earth objects	
Dual Tracking Telescope	1.2	1968	Track satellites	
Coudé Beam Director	0.8	1987	Project laser beams	
Beam Director	0.6	1975	Project laser beams	
Advanced Electro-Optical System (AEOS)	3.7	1999	Track satellites	55
GEODSS			Track deep space objects	
Primary	1	1982		
Secondary	1	1982		
Auxiliary	0.4	1982		

¹ Based in same county as observatory.

SOURCE: University of Hawaii at Manoa, Institute for Astronomy, 1998 Fact Sheet.

Construction & Housing



Section 8

CONSTRUCTION & HOUSING

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

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

8.1.1

NUMBER AND VALUE OF BUILDING PERMITS, MAUI COUNTY

Ending December 31

Year	Number Issued	Estimated Value (\$1,000)
1989	2,347	237,653
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

SOURCE: Maui County Department of Public Works, records.

8.1.2

BUILDING PERMITS BY TYPE, MAUI COUNTY

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

SOURCE: Maui County Department of Public Works, records.

8.1.3

BUILDING PERMITS ISSUED BY DISTRICT, MAUI COUNTY

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

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

8.1.4

PRIVATE RESIDENTIAL CONSTRUCTION AUTHORIZATIONS, MAUI COUNTY

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

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

8.1.5

BUILDING PERMITS AND CONSTRUCTION PUT IN PLACE, MAUI COUNTY

In thousands of dollars

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

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

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

8.1.6

PRIVATE AUTHORIZATIONS FOR NEW COMMERCIAL AND INDUSTRIAL CONSTRUCTION, MAUI COUNTY

In millions of dollars

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

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

8.1.7

PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, MAUI COUNTY

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

¹ Excludes units destroyed by fire, volcanic activity, high winds, and other disasters.

² Preliminary data.

NA: Not available.

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

8.1.8

HOTEL CONSTRUCTION AUTHORIZATIONS, MAUI COUNTY

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

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

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

8.1.9

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

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

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

8.1.10

CONSTRUCTION ESTABLISHMENTS BY TYPE AND LOCATION, MAUI COUNTY

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

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

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

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

8.2.1

**COMPONENTS OF CHANGE IN THE HOUSING INVENTORY, BY CONTROL,
MAUI COUNTY**

April 1, 1994 to March 31, 1995 County and Control	NEW HOUSING UNITS BUILT			Housing Units Converted ¹	Housing Units Demolished	Housing Units Transferred ²
	In 1-Unit Structures	In 2-Unit Structures	In Multi-Unit Structures			
State Total	4,419	151	3,860	15	893	-
Maui County	689	30	285	-1	6	-
Private ³	689	30	285	(NA)	(NA)	-
Health	-	-	-	-1	6	-4

¹ Number added less number deleted.

² Net gain (+) or loss (-) by purchase, sale, donation, or lease. There were some units in interagency transfer in which the receiving agency was not identified.

³ Based on building permit data, allowing nine months for completion of units in multi-unit structures and three months for all other activity.

NA: Not available.

8.2.2

ESTIMATED VALUE OF LAND TRANSACTIONS, BY COUNTIES

In thousands of dollars

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

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

8.2.3

RESIDENT AND NON-RESIDENT HOUSING UNITS, MAUI COUNTY

Year	Maui Total	Resident ¹	Non-Resident ²
1980	33,154	28,457	4,697
1981	34,887	29,447	5,440
1982	36,108	30,558	5,550
1983	36,539	30,648	5,891
1984	36,665	29,450	7,215
1985	36,687	28,254	8,433
1986	37,303	28,768	8,535
1987	38,579	30,652	7,927
1988	39,646	31,370	8,276
1989	41,168	32,999	8,169
1990	42,261	32,879	9,382
1991	44,262	33,979	10,283
1992	45,941	36,450	9,491
1993	47,219	37,847	9,372
1994	48,087	39,038	9,049
1995	49,151	NA	NA

¹ Estimated as of April 1. Includes all housing units other than condominium units in rental pools and intended for transient occupancy.

² Condominium units in rental pools and intended for transient occupancy, based on survey data from the Hawaii Visitors Bureau. Includes condo/hotel units.

NA: Not available.

SOURCE: Hawaii State Department of Business, Economic Development & Tourism, Research and Economic Analysis Division, *Housing Unit Estimates for Hawaii, 1980–1995*, (Statistical Report 230, September 1996).

8.2.4

TENURE AND CONTROL OF HOUSING, MAUI COUNTY

*Data include condominium unit occupied or intended for occupancy by non-residents
Data also include Kalawao County*

Year	OWNER- OCCUPIED UNITS ¹			RENTER-OCCUPIED AND VACANT UNITS		
	All Housing Units ²	Land Owned	Land Leased	Private ³	Federal ²	State and County
1980	33,365	10,669	618	21,696	26	356
1981	34,887					
1982	37,194	11,099	669	25,061	28	337
1983	38,201	11,385	679	25,783	28	326
1984	38,904	11,598	674	26,148	28	456
1985	39,510	11,959	664	26,381	28	478
1986	40,768	12,142	719	27,423	15	469
1987	42,780	12,585	789	28,935	15	456
1988	44,605	13,043	850	30,247	14	451
1989	46,980	13,626	873	32,002	14	465
1990	42,261	14,036	915	26,873	9	428
1991	44,262	14,429	969	28,267	6	621
1992	45,941	14,971	999	29,346	6	619
1993	47,219	15,725	707	30,162	6	619
1994	48,087	16,472	719	30,271	6	619
1995	49,151	17,242	718	30,506	6	679

¹ As indicated by the number of taxpayers claiming home exemptions as of January 1. The number of owner-occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions.

² As of April 1.

³ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

SOURCE: Hawaii State Department of Business and Economic Development, *Housing Unit Estimates for Hawaii, 1980–1995*, (Statistical Report 230, September 1996); *Housing Unit Estimates for Hawaii, 1980–1992*, (Statistical Report 225, August 1992); *Housing Unit Estimates for Hawaii, 1970–1982* (Statistical Report 156, July 28, 1982), table 2.

8.2.5

HOUSING UNITS OWNED BY GOVERNMENT AGENCIES, MAUI AND KALAWAO COUNTIES

April 1, 1995 Government Unit or Type of Housing	Kalawao County	Maui County
All Agencies	95	590
Federal Government	-	6
Armed Forces	-	6
Coast Guard	-	6
Civilian Agencies ¹	-	-
State Government	95	439
Hawaii Housing Authority	-	411
Rental	-	199
Teachers housing	-	28
HFDC	-	184
Health	95	16
Land & Natural Resources ¹	-	11
University of Hawaii	-	1
County Government	-	145

¹ 1991 data.

SOURCE: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995*, (Statistical Report 230, September 1996), table 6.

8.2.6

SELECTED HOUSING CHARACTERISTICS, MAUI COUNTY

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

All Housing Units	42,160
Units in Structure	
1 unit, detached	25,781
1 unit, attached	2,569
2 to 4 units	1,595
5 to 9 units	1,885
10 or more units	9,652
Mobile home, boat, other	678
Mean Number of Rooms	4.2
Occupied Housing Units	
Total	33,145
With 1.01 or more persons per room	5,411
Vacant Housing Units	
Total	9,015
For seasonal, recreational, or occasional use	5,944
Homeowner Vacancy Rate	1.5
Rental Vacancy Rate	9.9
Owner-Occupied Housing Units	
Total	19,083
Percent of All Occupied Units	57.6
Persons Per Unit	3.23
Mean Number of Rooms	5
Value of Specified Owner-Occupied Housing Units¹	
Total	15,566
Less than \$100,000	1,816
\$100,000 to \$199,999	5,857
\$200,000 to \$299,999	4,623
\$300,000 or more	3,270
Lower Quartile (dollars)	141,500
Median (dollars)	202,100
Upper Quartile (dollars)	284,300
Renter-Occupied Housing Units	
Total	14,062
Persons Per Unit	2.66
Mean Number of Rooms	3.6
Contract Rent of Specified Renter-Occupied Units²	
Total	12,243
Less than \$250	1,368
\$250 to \$499	2,359
\$500 to \$749	3,878
\$750 to \$999	2,639
\$1,000 or more	1,999
Lower Quartile (dollars)	434
Median (dollars)	658
Upper Quartile (dollars)	899

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

² Excludes one-family houses on 10 acres or more.

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

8.2.7

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

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

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

8.2.8

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

Division and Place	VACANT HOUSING UNITS			
	Total	Seasonal, Recreational or Occasional	Homeowner Vacancy Rate	Rental Vacancy Rate
Maui County Total	9,015	5,944	1.5	9.9
Haiku-Pauwela division	158	38	0.8	4.3
Haiku-Pauwela CDP	127	26	0.5	4.4
Hana division	174	104	2.4	5.0
Hana CDP	38	18	3.5	10.4
Kahului division	114	8	0.1	3.4
Kahului CDP (part)	114	8	0.1	3.4
Kihei division	3,018	2,261	6.3	10.6
Kihei CDP	2,364	1,768	6.9	8.5
Maalaea CDP	285	264	0.8	2.5
Wailea-Makena CDP (part)	367	227	4.4	29.6
Kula division	1,341	1,035	1.8	8.4
Wailea-Makena CDP (part)	1,157	987	5.2	7.9
Lahaina division	2,871	2,196	1.4	13.6
Kaanapali CDP	429	318	9.7	38.0
Kapalua CDP	806	762	3.0	1.9
Lahaina CDP	328	197	0.4	4.1
Napili-Honokowai CDP	1,305	918	0.7	21.1
Makawao-Paia division	229	42	0.3	4.9
Haliimaile CDP	6	2	–	4.9
Makawao CDP	66	8	0.5	3.9
Paia CDP	66	14	0.4	16.0
Pukalani CDP	57	3	0.2	2.5
Puunene division	4	–	–	2.1
Kahului CDP (part)	4	–	–	2.1
Spreckelsville division	33	18	5.9	14.0
Kahului CDP (part)	1	–	–	–
Waihee-Waikapu division	36	–	1.1	4.5
Waihee-Waiehu CDP (part)	15	–	1.1	2.3
Waikapu CDP	6	–	0.7	4.0
Wailuku CDP (part)	10	–	2.1	23.1
Wailuku division	172	29	0.4	3.7
Waihee-Waiehu CDP (part)	9	1	0.1	2.5
Wailuku CDP (part)	163	28	0.5	3.8
East Molokai division	368	127	0.4	16.6
Kaunakakai CDP	150	14	0.5	22.8
West Molokai division	337	27	0.3	53.6
Kualapuu CDP	37	8	0.3	3.9
Maunaloa CDP	12	–	–	7.8
Lanai division	160	59	0.2	14.4
Lanai City CDP	130	31	0.2	14.7

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

8.2.9

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

Division and Place	ALL OWNER-OCCUPIED HOUSING UNITS			
	Total	One Unit, Detached or Attached	Persons Per Unit	Mean Number of Rooms
Maui County Total	19,083	16,775	3.23	5.0
Haiku-Pauwela division	1,152	1,111	3.15	4.9
Haiku-Pauwela CDP	908	873	3.15	5.0
Hana division	332	315	3.35	4.2
Hana CDP	110	104	3.93	4.6
Kahului division	2,974	2,829	3.55	5.1
Kahului CDP (part)	2,974	2,829	3.55	5.1
Kihei division	2,490	1,490	2.78	4.6
Kihei CDP	2,059	1,293	2.89	4.7
Maalaea CDP	125	8	1.73	3.4
Wailea-Makena CDP (part)	304	189	2.48	4.9
Kula division	1,772	1,661	2.80	5.5
Wailea-Makena CDP (part)	544	460	2.61	5.6
Lahaina division	2,304	1,707	3.36	4.8
Kaanapali CDP	186	83	2.04	4.9
Kapalua CDP	64	13	2.17	3.8
Lahaina CDP	1,341	1,202	3.84	5.2
Napili-Honokowai CDP	688	385	2.88	4.3
Makawao-Paia division	3,209	3,116	3.29	5.2
Haliimaile CDP	176	166	3.66	5.2
Makawao CDP	1,098	1,069	3.28	5.0
Paia CDP	474	452	3.31	4.9
Pukalani CDP	1,215	1,192	3.32	5.5
Puunene division	-	-	-	-
Kahului CDP (part)	-	-	-	-
Spreckelsville division	48	44	2.73	6.7
Kahului CDP (part)	-	-	-	-
Waihee-Waikapu division	464	445	3.57	5.6
Waihee-Waiehu CDP (part)	181	173	3.45	5.3
Waikapu CDP	137	131	3.74	5.4
Wailuku CDP (part)	94	90	3.56	7.3
Wailuku division	2,600	2,365	3.30	5.2
Waihee-Waiehu CDP (part)	672	652	4.04	4.9
Wailuku CDP (part)	1,928	1,713	3.04	5.3
East Molokai division	896	863	3.39	4.5
Kaunakakai CDP	543	530	3.50	4.6
West Molokai division	380	369	3.60	4.1
Kualapuu CDP	358	355	3.68	4.1
Maunaloa CDP	-	-	-	-
Lanai division	462	460	2.97	5.0
Lanai City CDP	461	459	2.97	5.0

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

8.2.10

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

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

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

8.2.11

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

Division and Place	ALL RENTER-OCCUPIED HOUSING UNITS			
	Total	One Unit, Detached or Attached	Persons Per Unit	Mean Number of Rooms
Maui County Total	14,062	9,423	2.66	3.6
Haiku-Pauwela division	764	713	2.70	3.7
Haiku-Pauwela CDP	614	570	2.68	3.8
Hana division	257	234	2.75	3.3
Hana CDP	69	59	3.06	3.5
Kahului division	1,996	1,397	2.91	3.4
Kahului CDP (part)	1,996	1,397	2.91	3.4
Kihei division	2,412	1,301	2.46	3.5
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
Kula division	1,217	1,088	2.40	3.8
Wailea-Makena CDP (part)	479	394	2.20	3.6
Lahaina division	2,564	1,041	2.56	3.3
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
Makawao-Paia division	1,684	1,547	2.80	4.1
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
Puunene division	47	43	3.21	4.6
Kahului CDP (part)	47	43	3.21	4.6
Spreckelsville division	37	36	2.11	4.1
Kahului CDP (part)	–	–	–	–
Waihee-Waikapu division	191	170	3.24	4.2
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
Wailuku division	1,758	955	2.64	3.4
Waihee-Waiehu CDP (part)	115	102	3.43	4.0
Wailuku CDP (part)	1,643	853	2.58	3.4
East Molokai division	511	361	2.65	3.3
Kaunakakai CDP	304	203	2.40	3.5
West Molokai division	239	212	3.35	4.0
Kualapuu CDP	98	98	3.50	3.5
Maunaloa CDP	118	106	3.43	4.6
Lanai division	385	325	2.73	4.3
Lanai City CDP	376	318	2.74	4.3

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.

8.2.12

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

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

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.

Section 9

FINANCE & LABOR

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

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

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

9.1.1

NUMBER OF FINANCIAL INSTITUTIONS BY TYPE, MAUI COUNTY

As of December 31

	Maui	Lanai	Molokai
Banks			
Firms	5	1	1
Locations	22	1	1
Savings and Loans Associations			
Associations	6	1	2
Locations	13	1	2
Trust Companies			
Firms	1	–	–
Locations	1	–	–
Industrial Loan Licensees			
Firms	9	–	1
Locations	14	–	1

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

9.1.2

DEPOSITS IN OFFICES OF FDIC-INSURED INSTITUTIONS, MAUI COUNTY

In thousands of dollars

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

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

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

9.1.3

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

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

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

9.1.4

FEDERAL CREDIT UNION CHARACTERISTICS, MAUI COUNTY

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

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

9.2.1

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

Annual averages

	Maui County	Hawaii County	Kauai County	City & County of Honolulu	State of Hawaii
Civilian Labor Force					
1993	66,000	65,300	28,350	426,400	586,000
1994*	65,800	65,350	28,650	420,350	580,150
1995	65,800	64,150	28,350	418,150	576,400
1996	68,050	67,250	29,000	429,350	593,600
1997	69,250	68,750	28,600	428,100	594,700
1998	70,050	68,650	28,700	427,650	595,000
1999	71,650	69,900	29,000	424,250	594,800
Employed					
1993	62,500	60,400	24,700	413,250	560,900
1994*	61,300	58,300	24,550	400,850	545,000
1995	61,000	57,600	25,100	398,950	542,650
1996	63,050	60,550	25,450	406,650	555,750
1997	64,050	61,750	25,400	405,450	556,650
1998	65,250	62,050	25,850	404,700	557,850
1999	67,550	63,850	26,800	403,300	561,500
Unemployed					
1993	3,450	4,850	3,600	13,150	25,100
1994*	4,500	7,100	4,100	19,500	35,150
1995	4,800	6,550	3,250	19,200	33,800
1996	4,950	6,650	3,550	22,700	37,850
1997	5,200	7,000	3,250	22,650	38,050
1998	4,750	6,600	2,850	22,950	37,150
1999	4,100	6,050	2,250	20,950	33,350
Percent Unemployed					
1993	5.3	7.5	12.8	3.1	4.3
1994*	6.8	10.8	14.3	4.6	6.1
1995	7.3	10.2	11.4	4.6	5.9
1996	7.3	9.9	12.2	5.3	6.4
1997	7.5	10.2	11.3	5.3	6.4
1998	6.8	9.6	9.9	5.4	6.2
1999	5.7	8.7	7.7	4.9	5.6

* Data beginning 1994 may not be strictly comparable to previous years.

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

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

9.2.2

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

Annual averages

	Maui County	Maui	Molokai	Lanai
Civilian Labor Force				
1983	44,850	40,950	2,750	1,150
1984	44,950	41,250	2,550	1,150
1985	46,950	43,550	2,300	1,050
1986	48,600	45,050	2,500	1,050
1987	51,600	48,050	2,600	1,000
1988	52,750	49,200	2,450	1,050
1989	55,000	51,300	2,250	1,450
1990	56,500	52,400	2,700	1,400
1991	61,500	57,300	2,650	1,550
1992	65,900	61,250	3,050	1,600
1993	66,000	61,600	2,850	1,550
1994*	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	70,050	65,400	2,950	1,700
1999	71,650	66,850	3,050	1,750
Civilian Employment				
1983	41,450	38,150	2,200	1,050
1984	42,250	39,000	2,200	1,000
1985	44,150	41,300	2,000	850
1986	46,050	42,950	2,150	900
1987	49,350	46,250	2,250	850
1988	51,000	47,800	2,250	950
1989	53,550	50,200	2,050	1,300
1990	53,800	50,300	2,200	1,300
1991	58,200	54,350	2,400	1,450
1992	60,250	56,200	2,550	1,500
1993	62,500	58,500	2,600	1,400
1994*	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	65,250	61,150	2,500	1,600
1999	67,550	63,300	2,600	1,650

9.2.2

CONTINUED

	Maui County	Maui	Molokai	Lanai
Civilian Unemployment				
1983	3,400	2,800	550	100
1984	2,700	2,200	350	150
1985	2,800	2,250	300	200
1986	2,550	2,100	350	100
1987	2,250	1,800	300	150
1988	1,750	1,450	200	100
1989	1,450	1,100	200	100
1990	2,700	2,100	500	100
1991	3,300	2,950	250	100
1992	5,650	5,050	500	150
1993	3,450	3,100	250	150
1994*	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	4,100	3,600	450	100
Unemployment Rate				
1983	7.6	6.8	19.4	9.0
1984	6.0	5.4	13.8	11.1
1985	5.9	5.2	13.0	20.1
1986	5.3	4.7	13.4	11.5
1987	4.4	3.7	12.2	14.9
1988	3.3	2.9	8.8	7.5
1989	2.6	2.2	9.8	8.3
1990	4.8	4.1	18.1	5.9
1991	5.4	5.1	10.1	6.7
1992	8.6	8.3	16.0	7.8
1993	5.3	5.0	8.4	8.9
1994*	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	5.7	5.3	14.2	4.4

* Data beginning 1994 may not be strictly comparable to previous years.

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

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

9.2.3

**LABOR FORCE BY RACE AND SEX,
MAUI COUNTY**

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

* Less than 25.

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

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

9.2.4

ANNUAL AVERAGE JOBCOUNT BY INDUSTRY AND ISLAND, MAUI COUNTY

Industry, 1999	Maui County	Maui	Molokai	Lanai
TOTAL NONAGRICULTURAL WAGE & SALARY JOBS	58,350	54,700	2,000	1,600
Total Goods Producing	4,100	3,950	100	50
Construction and Mining	2,400	2,250	50	50
Manufacturing	1,750	1,700	*	*
Durable Goods	300	300	—	—
Lumber & Wood Products	50	50	—	—
Stone, Glass & Clay	150	100	—	—
Nondurable Goods	1,450	1,450	—	—
Food Processing	1,050	1,050	—	—
Printing & Publishing	300	250	—	—
Total Service Producing	54,200	50,750	1,950	1,550
Transportation, Communication and Utilities	4,500	4,350	100	50
Transportation	3,500	3,350	50	—
Air Transportation	950	900	—	—
Communication	550	550	—	—
Utilities	500	450	—	—
Trade	15,800	15,350	250	150
Wholesale	1,500	1,500	*	*
Retail	14,250	13,850	250	150
General Merchandise	1,050	1,000	*	—
Grocery	1,500	1,400	100	—
Apparel & Accessory	950	950	*	—
Eating & Drinking Establishments	6,350	6,250	50	—
Finance, Insurance and Real Estate	3,100	2,750	250	100
Services & Miscellaneous	23,200	21,400	750	1,050
Hotels	10,950	9,950	200	850
Health Services	2,400	2,200	150	—
Hospitals	100	—	100	—
Business Services	2,050	2,050	—	—
Social Services	1,450	1,250	200	—
Educational Services	450	450	*	—
Engineering, Accounting, & Mgmt. Services	650	550	—	—
Government	7,650	6,850	600	200
Federal	550	500	50	*
State	5,250	4,700	400	150
State Education (Dept. Ed. & U. Hawaii)	2,850	2,550	250	100
Local	1,900	1,700	150	50
AGRICULTURAL JOBS	2,150	2,050	100	—

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

* Fewer than 50.

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

9.2.5

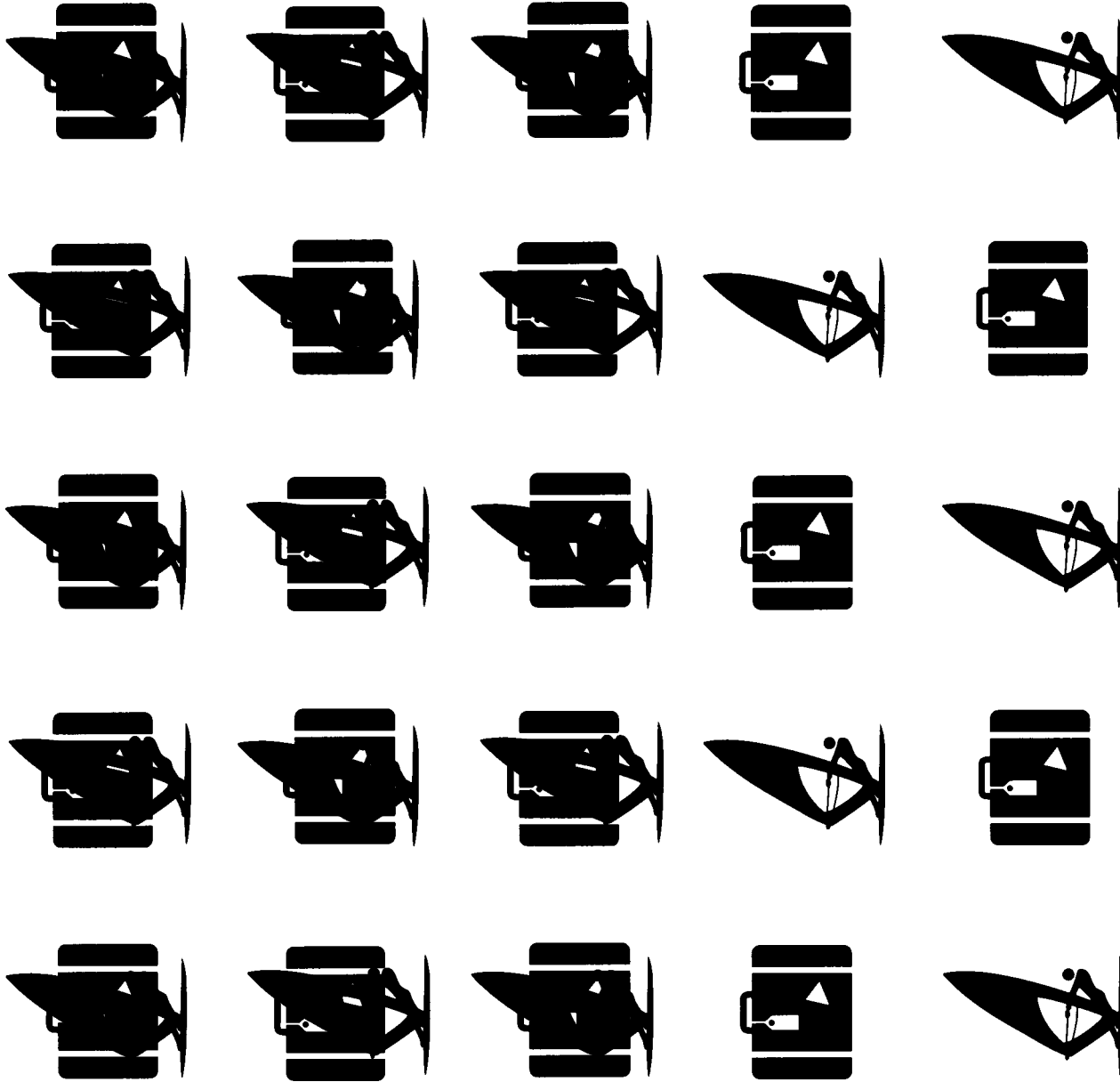
AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, MAUI COUNTY

In dollars

1999 Job Classification ¹	State Average	Maui County
Annual Rates		
Clerk, Intermediate Level	23,258	23,923
Secretary	28,983	29,252
Executive Secretary	35,643	32,627
Switchboard Operator/Receptionist	23,198	26,282
Customer Service Clerk	26,859	29,722
Human Resources Assistant	32,652	37,132
Accounts Payable/Receivable Clerk	25,605	29,338
Accounting Clerk, Senior Level	29,386	34,789
Cashier	26,513	25,899
Teller	19,191	19,296
Hourly Rates		
Housekeeper	11.54	10.77
Kitchen Helper	11.02	9.50
Cook, General	15.00	15.71
Sales Clerk, Non-Commission	8.32	9.33
Groundskeeper	11.08	11.42
Janitor, Light	9.77	9.20
Building Maintenance Repairer	15.48	14.26
Automotive Mechanic	16.78	15.90
Warehouse Worker	11.98	11.69

¹ The 19 job titles listed in this table only a portion of the job classifications in the full report; refer to the source for complete information.

Visitor Industry & Recreation



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 Visitors and Convention Bureau.

10.1.1

AVERAGE DAILY VISITOR CENSUS, BY COUNTIES

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

Year	State Total	Maui County	Hawaii County	Oahu*	Kauai County
1977	83,030	12,468	7,195	57,342	6,025
1978	92,034	14,492	8,094	62,379	7,069
1979	98,676	15,598	7,996	67,688	7,394
1980	96,417	15,363	7,195	66,680	7,259
1981	95,968	15,727	6,561	66,455	7,225
1982	105,310	18,090	6,725	73,445	7,050
1983	108,040	24,670	8,690	66,695	7,990
1984	118,660	32,790	7,570	67,370	10,930
1985	116,700	31,910	8,040	65,280	11,470
1986	132,910	34,330	9,870	73,870	14,840
1987	134,270	33,890	10,210	74,660	15,510
1988	141,410	33,870	10,690	80,450	16,400
1989	169,670	44,020	17,760	88,750	19,140
1990	162,070	39,500	16,970	87,400	18,200
1991	157,590	40,240	18,630	79,700	19,020
1992	153,390	42,220	19,320	78,390	13,460
1993	148,750	42,280	19,110	79,070	8,290
1994	159,200	43,070	19,310	83,400	13,420
1995	159,060	42,970	18,650	83,090	14,350
1996	161,610	42,640	19,150	84,500	15,330
1997 r	158,120	43,250	21,480	77,280	16,110
1998	159,840	44,780	23,120	74,630	17,310
1999 p	163,900	NA	NA	NA	NA

NOTES: Average daily census is based on intention to visit each island. Eastbound and northbound visitors counts are based on a 20 percent sample through 1983 and a 10 percent sample thereafter. Westbound visitor counts are based on the form distributed on all Hawaii-bound flights of all domestic airlines. Data beginning with 1997 are not strictly comparable to previous years.

* All eastbound visitor days were attributed to Oahu through 1988.
r: Revised. p: Preliminary. NA: Not available.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, "December 1999 Arrivals at a Glance;" Hawaii Visitors and Convention Bureau, *HVCB 1998 Annual Research Report*; and records.

10.1.2

VISITOR ARRIVALS, MAUI COUNTY

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

Westbound Visitors			
1971		554,799	
1972		710,050	
1973		766,791	
1974		852,204	
1975		931,863	
1976		1,110,726	
1977		1,257,142	
1978		1,403,054	
1979		1,419,773	
1980		1,378,189	
1981		1,389,892	
1982		1,550,080	
1983		1,645,720	
1984		1,854,690	
1985		1,831,110	
1986		2,001,870	
1987	Eastbound Visitors¹	1,908,780	Total Visitors
1988		1,884,050	
1989	400,860	2,113,100	2,513,960
1990	394,810	1,995,160	2,389,970
1991	396,600	1,925,460	2,322,060
1992	482,660	1,859,680	2,342,340
1993	470,460	1,790,480	2,260,940
1994	454,250	1,900,330	2,354,580
1995	489,900	1,855,730	2,345,630
1996	494,890	1,830,140	2,325,030
1997 r	470,980	1,879,330	2,350,310
1998	416,160	1,944,220	2,360,380
1999 p	325,020	1,999,450	2,324,470

¹ County distribution for eastbound visitors not available before 1989.

r: Revised. p: Preliminary.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, "1999 Monthly Highlights," December 1999; Hawaii Visitors and Convention Bureau, *HVCB 1998 Annual Research Report*; and records.

10.1.3

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

	1994	1995	1996	1997 r	1998	1999 p
Length of Stay (days)¹						
All Visitors						
Maui	6.55	6.52	6.54	6.61	6.84	NA
Molokai	5.48	7.40	6.31	6.66	6.62	NA
Lanai	5.39	7.47	6.80	6.73	5.17	NA
Westbound						
Maui	7.38	7.39	7.37	7.48	7.48	7.34
Molokai	5.79	7.48	6.70	7.59	6.93	5.52
Lanai	5.66	7.56	7.03	7.12	5.35	4.37
Eastbound						
Maui	3.14	3.42	3.45	3.18	3.90	2.86
Molokai	2.17	1.97	2.03	1.48	3.39	2.13
Lanai	2.17	3.67	2.26	2.94	3.15	2.75
Average Daily Census (visitors)						
Total						
Maui	40,740	39,900	39,320	39,930	42,180	NA
Molokai	1,170	1,400	1,460	1,470	1,290	NA
Lanai	1,160	1,670	1,860	1,850	1,310	NA
Westbound						
Maui	36,770	35,410	34,930	35,810	37,720	NA
Molokai	1,130	1,360	1,450	1,420	1,230	NA
Lanai	1,120	1,640	1,840	1,770	1,240	NA
Eastbound						
Maui	3,970	4,490	4,390	4,120	4,460	NA
Molokai	40	40	10	50	60	NA
Lanai	40	30	20	80	70	NA

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

r: Revised p: Preliminary NA: Not available.

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, "1999 Monthly Highlights," December 1999; Hawaii Visitors and Convention Bureau, Market Research Department, *HVCB 1998 Annual Research Report*, and records.

10.1.4

**WESTBOUND MAINLAND VISITORS
TO MAUI COUNTY**

	Maui County	Maui	Molokai	Lanai
Alabama	7,570	7,360	360	470
Alaska	12,660	11,930	830	220
Arizona	43,470	42,320	1,490	2,100
Arkansas	4,990	4,900	160	230
California	579,840	564,290	14,930	21,310
Colorado	43,330	41,980	1,500	1,840
Connecticut	13,440	13,010	410	760
Delaware	1,980	1,920	90	90
Florida	38,950	37,910	2,080	2,720
Georgia	26,220	25,600	840	1,520
Idaho	9,170	8,900	320	390
Illinois	71,880	70,190	2,220	3,420
Indiana	22,320	21,890	790	1,110
Iowa	10,540	10,230	410	420
Kansas	10,320	10,070	320	520
Kentucky	9,450	9,240	410	530
Louisiana	7,750	7,550	340	480
Maine	2,820	2,720	110	160
Maryland	17,670	17,150	730	1,030
Massachusetts	23,760	23,140	830	1,170
Michigan	41,210	40,360	1,350	1,730
Minnesota	30,670	29,850	960	1,090
Mississippi	3,390	3,350	190	200
Missouri	21,290	20,680	740	1,190
Montana	5,660	5,430	350	270

10.1.4

CONTINUED

	Maui County	Maui	Molokai	Lanai
Nebraska	6,760	6,530	250	280
Nevada	19,600	19,060	650	870
New Hampshire	4,000	3,850	190	230
New Jersey	33,540	32,840	1,000	1,870
New Mexico	8,480	8,200	360	470
New York	55,510	54,090	1,740	3,200
North Carolina	16,390	16,050	620	900
North Dakota	2,360	2,330	50	40
Ohio	40,240	39,340	1,690	2,220
Oklahoma	8,890	8,610	380	610
Oregon	52,510	50,540	2,000	1,550
Pennsylvania	31,370	30,680	1,090	1,750
Rhode Island	2,740	2,660	90	130
South Carolina	7,270	7,140	290	430
South Dakota	2,270	2,200	120	80
Tennessee	14,420	14,040	560	790
Texas	72,240	70,130	2,200	4,460
Utah	23,470	22,950	670	850
Vermont	1,570	1,520	90	100
Virginia	23,430	22,700	940	1,460
Washington	115,760	112,370	3,560	3,350
Washington, D.C.	2,370	2,270	100	180
West Virginia	2,480	2,450	110	180
Wisconsin	22,490	21,890	810	1,120
Wyoming	2,250	2,180	60	80

NOTE: Intended visits to islands.

SOURCE: Hawaii Visitors and Convention Bureau, Market Research Department, *HVCB 1998 Annual Research Report*.

10.1.5

VISITORS TO MAUI COUNTY BY MONTH

1999 Preliminary	Maui County	Maui	Molokai	Lanai
Total Visitors				
January	185,990	180,200	5,680	7,430
February	200,540	194,340	7,030	8,660
March	218,640	212,710	5,850	8,660
April	193,420	188,030	5,340	8,730
May	183,370	178,380	4,930	6,590
June	196,170	190,680	6,350	7,380
July	218,260	213,880	5,080	6,780
August	210,470	206,400	5,370	6,140
September	174,940	170,650	4,650	6,350
October	201,230	195,330	7,160	10,310
November	178,430	173,290	5,300	6,970
December	163,010	157,380	5,670	6,720
Total	2,324,470	2,261,270	68,410	90,720
Westbound Visitors				
January	156,540	151,570	5,030	6,860
February	169,410	163,860	6,070	8,080
March	191,790	186,380	5,590	8,200
April	164,910	160,350	5,210	7,970
May	151,350	146,760	4,780	6,240
June	174,460	170,470	4,820	7,010
July	189,480	185,230	4,950	6,650
August	181,420	177,630	5,050	6,000
September	148,530	144,970	4,550	5,450
October	179,410	174,000	6,640	9,950
November	155,640	150,570	4,980	6,780
December	136,510	131,330	5,510	6,400
Total	1,999,450	1,943,120	63,180	85,590
Eastbound Visitors				
January	29,450	28,630	650	570
February	31,130	30,480	960	580
March	26,850	26,330	260	460
April	28,510	27,680	130	760
May	32,020	31,620	150	350
June	21,710	20,210	1,530	370
July	28,780	28,650	130	130
August	29,050	28,770	320	140
September	26,410	25,680	100	900
October	21,820	21,330	520	360
November	22,790	22,720	320	190
December	26,500	26,050	160	320
Total	325,020	318,150	5,230	5,130

SOURCE: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, "1999 Monthly Highlights," January-December 1999, <http://www.state.hi.us.gov/dbedt/monthly/index99.html>.

10.1.6

NATION OF RESIDENCE OF VISITORS TO MAUI COUNTY

1998 Region	MAUI			MOLOKAI			LANAI		
	Westbound	Eastbound	Total	Westbound	Eastbound	Total	Westbound	Eastbound	Total
Total	1,890,960	411,800	2,302,760	66,590	6,320	72,910	86,750	7,640	94,390
U.S.	1,629,790	50,340	1,680,130	54,110	1,240	55,350	74,350	0	74,350
Canada	116,710	7,780	124,490	6,220	280	6,500	6,580	230	6,810
Asia									
China	4,680	2,910	7,590	250	0	250	200	0	200
Hong Kong	1,280	3,600	4,880	80	0	80	140	150	290
Indonesia	520	1,910	2,430	20	0	20	40	0	40
Japan	10,790	312,740	323,530	450	2,260	2,710	540	4,290	4,830
Korea	1,540	2,280	3,820	80	0	80	60	300	360
Philippines	2,020	0	2,020	50	0	50	130	0	130
Singapore	240	1,200	1,440	0	250	250	20	250	270
Taiwan	2,070	7,550	9,620	100	1,100	1,200	30	840	870
Malaysia	90	290	380	10	0	10	10	0	10
Thailand	160	0	160	20	0	20	20	0	20
Other Asia	3,570	660	4,230	160	0	160	130	0	130
Total Asia	26,960	333,130	360,090	1,230	3,610	4,840	1,290	5,820	7,110
Oceania									
Australia	5,450	4,640	10,090	170	0	170	150	0	150
New Zealand ¹	2,410	0	2,410	180	0	180	120	0	120
Other Oceania	1,020	2,820	3,840	80	440	520	40	440	480
Total Oceania	8,880	7,460	16,340	440	440	880	300	440	740
Europe									
United Kingdom	24,790	5,490	30,280	930	510	1,440	1,160	510	1,670
Germany	29,730	5,550	35,280	1,540	0	1,540	1,110	0	1,110
France	5,140	630	5,770	160	0	160	200	630	830
Italy ²	3,070	0	3,070	80	0	80	100	0	100
Switzerland	8,120	580	8,700	320	0	320	330	0	330
Norway	560	0	560	30	0	30	50	0	50
Sweden	2,920	0	2,920	70	0	70	120	0	120
Other Scandinavia	1,360	0	1,360	40	0	40	70	0	70
Other Europe	19,220	80	19,300	920	0	920	600	0	600
Total Europe	94,910	12,330	107,240	4,090	510	4,600	3,740	1,140	4,880
Other Foreign	13,720	760	14,480	500	230	730	490	0	490
Total Foreign	261,170	361,450	622,620	12,480	5,080	17,560	12,400	7,640	20,040

¹ Eastbound New Zealand counts are included in Eastbound Other Oceania.

² Eastbound Italy, Eastbound Norway, and Eastbound Other Scandinavia counts are included in Eastbound Other Europe.

SOURCE: Hawaii Visitors and Convention Bureau, Market Research Department, *HVCB 1998 Annual 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
Maui						
1990	70.10	130.49	62.11	26.30	9.59	13.89
1991	63.35	125.05	58.58	26.36	9.47	14.15
1992	63.49	124.77	79.22	24.30	8.21	14.14
1993	67.56	122.88	83.02	23.04	7.16	14.17
1994	72.69	125.70	91.37	22.72	6.61	14.61
1995	73.53	144.36	106.15	25.72	7.23	15.99
1996	73.37	155.54	114.11	26.32	7.56	17.09
1997	71.58	156.37	111.93	26.92	7.94	17.11
1998	72.81	161.40	117.52	27.12	8.23	17.75
1999	77.25	167.08	129.06	28.62	9.05	19.16
Molokai						
1990	47.83	66.28	32.20	27.57	9.90	10.23
1991	37.47	71.35	33.35	36.79	12.05	10.02
1992	44.24	77.30	34.19	34.10	9.78	9.73
1993	42.66	74.69	31.87	32.27	10.45	10.66
1994	41.19	72.18	29.73	34.52	12.16	8.57
1995	37.47	71.85	26.92	42.40	15.26	10.00
1996	39.00	74.44	29.03	56.65	17.14	10.64
1997	40.42	74.02	29.92	47.17	17.31	10.04
1998	44.18	78.43	34.65	36.62	11.33	10.76
1999	41.08	74.54	30.62	NA	NA	NA

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

NA: Not available.

SOURCE: PKF-Hawaii LLP, *Trends in the Hotel Industry, Hawaii*, December 1999, and records.

10.2.2

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

1999	Total Maui	Kaanapali	West Maui	Other	Molokai
Room Sales for the Total Market					
Percent Occupied	77.25	80.77	78.28	72.31	41.08
Average Daily Room Rate	167.08	170.89	150.26	175.93	74.54
Revenue / Available Room	129.06	138.03	117.63	127.21	30.62
Room Sales for the Hotel Market					
Percent Occupied	78.31	81.57	77.37	73.55	N/A
Average Daily Room Rate	180.20	168.26	169.73	207.72	N/A
Revenue / Available Room	141.12	137.24	131.32	152.77	N/A
Room Sales for the Resort Condo Market					
Percent Occupied	74.91	75.08	79.06	70.15	50.56
Average Daily Room Rate	137.02	191.43	134.18	117.69	78.58
Revenue / Available Room	102.65	143.72	106.08	82.56	39.73
Food Sales for the Total Market					
Average Daily Food per Guest	28.62	22.61	39.96	36.29	N/A
Average Daily Beverage per Guest	9.05	7.33	13.60	10.61	N/A
Average Food Sales Per Cover	19.16	17.23	26.29	19.31	N/A

SOURCE: PKF-Hawaii LLP, *Trends in the Hotel Industry, Hawaii*, December 1999.

10.2.3

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

1999	MAUI					MOLOKAI
	Luxury	First Class	Deluxe	Standard	Budget	Standard
Room Quality						
Percent Occupied	77.22	78.71	77.94	76.08	61.20	40.48
Average Daily Room Rate	250.77	171.29	125.71	79.57	46.84	71.01
Revenue / Available Room	193.63	134.82	97.98	60.54	28.67	28.74
Number of Rooms on Property						
	Under 100	100 - 200	201 - 350	351 - 500	Over 500	Under 100
Percent Occupied	58.07	77.86	75.30	79.31	80.56	49.52
Average Daily Room Rate	143.97	114.31	154.14	209.73	174.74	74.89
Revenue / Available Room	83.61	89.00	116.07	166.34	140.77	37.08

10.2.4

PRICewaterhouseCOOPERS HOSPITALITY REPORT, MAUI ISLAND

1999	Occupancy	Average Daily Rate	Revenue per Available Room
Total Maui	77.4%	160.11	123.93
By Area			
Lahaina/Kaanapali/Kapalua	80.1%	152.64	122.26
Other Maui	73.8%	170.61	125.91
By Price			
Luxury	74.5%	272.20	202.79
Upscale	83.5%	175.16	146.26
Midprice	75.1%	118.91	89.30
Economy	75.4%	83.21	62.74
Budget	73.3%	61.78	45.28

SOURCE: Smith Travel Research in PricewaterhouseCoopers LLP, *Hawaii Hotel Flash Report*, December 1999.
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10.2.5

VISITOR PLANT INVENTORY BY ISLAND AND PRICE, MAUI COUNTY

Class (Price per Night)	1997			1998		
	Units	% of Total	Properties	Units	% of Total	Properties
Maui						
Budget: \$100 or less	3,884	22.3%		3,464	19.7%	
Standard: \$101 to \$250	6,106	35.1%		6,545	37.3%	
Deluxe: \$251 to \$500	6,810	39.1%		6,924	39.5%	
Luxury: Over \$500	608	3.5%		618	3.5%	
All levels	17,408	100.0%	196	17,551	100.0%	200
Molokai						
Budget: \$100 or less	184	43.8%		167	42.9%	
Standard: \$101 to \$250	232	55.2%		218	56.1%	
Deluxe: \$251 to \$500	4	1.0%		4	1.0%	
All levels	420	100.0%	9	389	100.0%	9
Lanai						
Budget: \$100 or less	11	3.0%		12	3.2%	
Standard: \$101 to \$250	25	6.8%		5	1.4%	
Deluxe: \$251 to \$500	290	79.5%		270	73.2%	
Luxury: Over \$500	39	10.7%		82	22.2%	
All levels	365	100.0%	5	369	100.0%	6

SOURCE: Hawaii Visitors and Convention Bureau, Market Research Department, *1997 Visitor Plant Inventory* and *1998 Visitor Plant Inventory*.

10.2.6

VISITOR PLANT INVENTORY BY ISLAND AND TYPE, MAUI COUNTY

	1993 u		1994 u		1996		1997		1998	
	Prop- erties	Available Units	Prop- erties	Available Units	Prop- erties	Available Units	Prop- erties	Available Units	Prop- erties	Available Units
Maui										
Apartment/Hotel	1	39	4	50	4	50	4	50	5	58
Bed & Breakfast	24	203	21	183	21	96	26	115	31	136
Hostel	2	44	1	24	1	24	2	44	2	44
Hotel	28	8,901	30	8,934	26	8,172	24	8,786	27	8,565
Condominium										
Hotel	40	4,441	40	4,362	39	4,346	108	8,095	106	8,007
Condo	91	4,628	90	4,420	93	4,086	-	-	-	-
Individual										
Vacation Unit	-	-	-	-	-	-	46	328	48	331
Bungalow	1	20	1	20	2	65	-	-	-	-
Cottage	13	137	11	105	23	85	-	-	-	-
Lodge	1	5	1	5	1	5	-	-	-	-
Other	3	12	7	38	13	44	21	164	21	570
Total	208	18,443	206	18,141	223	16,973	231	17,582	240	17,711
Molokai										
Bed & Breakfast	-	-	-	-	-	-	1	1	1	1
Hotel	3	272	3	245	3	245	3	226	3	226
Condominium										
Hotel	1	108	1	91	1	81	5	310	5	279
Condo	4	195	4	176	4	149	-	-	-	-
Cottage	-	-	-	-	1	1	-	-	-	-
Other	1	4	1	4	2	5	2	64	2	64
Total	9	579	9	516	11	481	11	601	11	570
Lanai										
Bed & Breakfast	-	-	-	-	2	4	1	3	1	3
Hotel	3	363	3	363	3	363	3	363	3	363
Individual										
Vacation Unit	-	-	-	-	-	-	1	1	2	3
Cottage	2	4	2	4	2	3	-	-	-	-
Other	-	-	-	-	-	-	1	2	-	-
Total	5	367	5	367	7	370	6	369	6	369

NOTES: Categories vary in the way they are reported from year to year. HVCB did not conduct an update survey in 1995. Counts for Maui County between 1989 and 1994 were revised in 1996 due to double counting of certain units. These revisions are *not* reflected in this table.

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. u: Unrevised.

SOURCE: 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

1998 Island/Area/Type	Available Units	Properties
Maui	17,711	240
Hana	166	23
Bed & Breakfast	2	1
Condominium Hotel	18	1
Hotel	93	1
Individual Vacation Unit	31	8
Other	22	12
Kahului-Wailuku	481	9
Bed & Breakfast	7	1
Hostel	44	2
Hotel	402	3
Other	28	3
Kula-Makawao	108	24
Bed & Breakfast	48	13
Condominium Hotel	12	1
Hotel	6	1
Individual Vacation Unit	27	6
Other	15	3
Lahaina-Kaanapali-Napili-Kapalua	9,788	87
Apartment/ Hotel	46	3
Bed & Breakfast	57	9
Condominium Hotel	4,366	50
Hotel	4,755	11
Individual Vacation Unit	75	9
Other	489	5
Maalaea	282	9
Condominium Hotel	277	8
Individual Vacation Unit	5	1
Wailea-Kihei	6,886	88
Apartment/ Hotel	12	2
Bed & Breakfast	22	7
Condominium Hotel	3,334	46
Hotel	3,309	11
Individual Vacation Unit	193	20
Other	16	2
Molokai	570	11
Bed & Breakfast	1	1
Condominium Hotel	279	5
Hotel	226	3
Other	64	2
Lanai	369	6
Bed & Breakfast	3	1
Hotel	363	3
Individual Vacation Unit	3	2

SOURCE: Hawaii Visitors Bureau, Market Research Department, 1998 Visitor Plant Inventory.

10.2.8

**VISITOR PLANT INVENTORY,
MAUI COUNTY**

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

NOTES: Includes hotels and condominiums available for transient rental. Counts for Maui County were revised in 1996 due to double counting of certain units. HVCB did not conduct an update survey in 1995.

r: revised NA: not available.

SOURCE: Hawaii Visitors and Convention Bureau, Market Research Department, *1998 Visitor Plant Inventory*.

10.2.9

LARGEST HOTELS BY NUMBER OF SLEEPING ROOMS, MAUI COUNTY

	Number of Sleeping Rooms & Suites	Maximum Exhibit Area (sq. ft.)	Maximum Meeting/Banquet Seating Capacity	Number of Employees (or FTE)	Number of Restaurants
Hyatt Regency Maui Resort and Spa Lahaina, Maui	806	20,000	1,500	800	5
Grand Wailea Resort Hotel & Spa Wailea, Maui	780	28,000	1,400	975	6
The Westin Maui Lahaina, Maui	756	16,000	1,000	645	6
Maui Marriott Resort Lahaina, Maui	720	DND	1,700	508	5
The Ritz-Carlton Kapalua Kapalua, Maui	548	19,200	1,200	800	4
The Royal Lahaina Resort Lahaina, Maui	511	4,100	250	320	4
Sheraton Maui Lahaina, Maui	510	6,500	300-400	DND	3
Outrigger Wailea Resort Wailea, Maui	475	13,800	1,100	DND	2
Kaanapali Beach Hotel Lahaina, Maui	430	4,030	350	245	3
Kea Lani Hotel Suites & Villas Wailea, Maui	413	12,400	550	420	4
Four Seasons Resort Maui at Wailea Wailea, Maui	380	DND	500	DND	3
Renaissance Wailea Beach Resort Wailea, Maui	349	DND	400	400	4
The Westin Maui Prince Hotel, Makena Wailea, Maui	310	DND	350	DND	5
Maui Park Lahaina, Maui	288	DND	DND	DND	None
Maui Coast Hotel Kihei, Maui	265	750	50	75	2
Embassy Vacation Resort Kaanapali Beach ¹ Lahaina, Maui	413	DND	DND	320	2
The Manele Bay Hotel Lanai City, Lanai	250	6,126	232	364	4
Maui Seaside Hotel Kahului, Maui	225	DND	DND	NA	1
Marc Royal Kahana Resort Lahaina, Maui	198	None	None	43	None
Kapalua Bay Hotel Lahaina, Maui	196	DND	NA	350	3
Maui Lu Kihei, Maui	120	DND	DND	33	DND
Lodge at Koele Lanai City, Lanai	102	4,514	128	165	3

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

¹ Currently in the process of converting to timeshare units.

SOURCE: "Largest Maui County Hotels," *Pacific Business News*, January 14, 2000, p. 27.

10.3.1

EXPENDITURES PER DAY BY VISITORS FROM THE MAINLAND AND JAPAN, BY EXPENDITURE TYPE, STATE OF HAWAII

In dollars; excludes transpacific travel costs

Expenditure Type	VISITORS FROM MAINLAND				VISITORS FROM JAPAN			
	1994	1995	1996	1997	1994	1995	1996	1997
All Items	133.79	132.73	137.04	157.07	340.88	356.15	286.89	279.58
Food and Beverage	30.96	30.39	30.76	31.85	43.78	45.43	39.45	40.09
Restaurants	21.74	20.61	20.61	18.49	23.92	25.24	24.77	21.71
Dinner Shows	2.94	3.16	3.70	5.07	4.54	5.29	3.34	5.81
Dinner or Lunch Cruises	1.02	0.99	1.10	3.02	7.55	6.11	5.32	6.04
Nightclubs/Bars	1.88	2.20	1.92	2.15	0.93	1.04	0.69	0.63
Groceries	3.38	3.43	3.43	3.12	6.84	7.75	5.32	5.89
Entertainment	6.59	6.84	7.44	12.54	13.13	10.28	10.74	15.41
Attractions	2.54	2.57	3.08	7.81	5.06	3.78	5.22	10.18
Sports and Recreation	3.55	3.76	3.90	3.37	7.66	6.01	5.25	5.05
Other Entertainment	0.50	0.51	0.46	1.36	0.41	0.49	0.27	0.18
Transportation	18.36	17.69	20.05	23.96	16.81	18.25	12.21	16.52
Ground Transportation	0.69	0.93	0.69	1.00	1.65	2.63	1.57	2.78
Rental Vehicles	8.74	7.99	8.58	7.29	2.56	2.56	1.24	2.49
Interisland Travel	4.36	4.00	4.71	6.01	6.13	5.66	4.11	3.32
Gasoline Purchased	0.91	0.84	1.01	1.27	0.24	0.15	0.07	0.15
Parking Expense	0.56	0.58	0.55	0.84	0.30	0.21	0.04	0.01
Sightseeing Tours	3.10	3.35	4.51	7.55	5.92	7.04	5.18	7.64
Clothing	8.43	8.49	8.01	8.38	34.44	34.13	30.74	29.19
Other Fashion¹	7.49	5.84	5.95	6.23	78.81	79.79	69.39	66.98
Agriculture	1.64	1.67	1.79	1.79	5.60	5.21	4.58	5.13
Communication	0.74	0.77	0.68	0.64	1.08	1.09	0.62	0.76
Personal service	1.44	1.32	1.32	1.43	3.11	2.97	2.08	2.39
Lodging	49.89	49.07	49.33	59.78	84.45	89.94	73.49	79.60
Souvenirs	3.83	3.98	4.43	5.04	19.30	17.30	12.08	13.60
All other	2.76	4.96	5.56	3.81	8.02	8.25	7.81	7.30
Adjustment²	1.68	1.71	1.72	1.62	32.35	43.51	23.70	2.61

NOTE: Columns may not sum due to rounding.

¹ Jewelry, watches, cosmetics, perfumes, leather goods, etc.

² A per day estimate by each visitor concerning the dollar amount that he/she may have neglected to include in the listed categories.

SOURCE: Hawaii Visitors & Convention Bureau, *HVCB 1997 Annual Research Report*, and records.

10.3.2

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

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

¹ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

² Direct and indirect.

³ Direct and indirect; includes self-employment.

⁴ Preliminary estimate.

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

10.3.3

VISITOR EXPENDITURES BY ISLAND

In thousands of dollars

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

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

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

10.4.1

SUMMARY CHARACTERISTICS OF WESTBOUND AND EASTBOUND VISITORS TO MAUI COUNTY

	Total	Westbound	Eastbound
Planned Destinations			
Maui County	2,360,350	1,944,200	416,150
... Maui	2,302,760	1,890,960	411,800
... Molokai	72,910	66,590	6,320
... Lanai	94,390	86,750	7,640
Oahu	1,096,360	715,550	380,810
Kauai	430,120	370,740	59,380
Big Island	434,790	356,210	78,580
... Kona	353,860	309,440	44,420
... Hilo	199,560	157,560	42,000
One Island Only	1,010,610	983,970	26,640
Maui Only	990,060	963,970	26,090
Molokai Only	9,130	8,940	190
Lanai Only	11,420	11,060	360
Neighbor Is. Only	1,263,990	1,228,650	35,340
Trips to Hawaii			
First trip	945,540	757,930	187,610
Repeat	1,414,810	1,186,270	228,540
Average number of trips	4.02	4.22	3.06
Party Size			
One person	383,200	329,090	54,110
Two persons	1,187,530	1,010,820	176,710
Three or more persons	789,620	604,290	185,330
Average party size	2.01	1.97	2.23
Accommodations			
Hotel	1,513,430	1,163,810	349,620
... Hotel Only	1,330,700	1,005,590	325,110
Condo	702,210	652,020	50,190
... Condo Only	581,510	542,790	38,720
Apartment	32,280	29,900	2,380
Bed & Breakfast	38,080	31,150	6,930
Cruise Ship	63,190	62,650	540
Friends or Relatives	148,420	134,220	14,200
Gender and Age			
Male	1,339,880	1,017,450	322,430
Female	1,020,470	926,750	93,720
Average Age	42.42	43.95	35.28

SOURCE: Hawaii Visitors and Convention Bureau, Market Research Department, *HVCB 1998 Annual Research Report*.

10.5.1

ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS, MAUI COUNTY

Calendar year unless otherwise specified

Island and Cultural Attraction	1995	1996	1997	1998
Maui				
Alexander & Baldwin Sugar Museum	29,831	23,676	27,748	27,832
Halekii-Pihana Heiaus State Monument ¹	6,433	9,050	10,150	NA
Hana Cultural Center (Hale Wai Wai O Hana)	14,052	11,680	NA	NA
Hawaii Nature Center	11,400	10,600	25,200	55,699
Iao Valley State Monument ¹	624,200	651,600	710,000	NA
Kula Botanical Gardens	23,030	22,470	23,100	23,800
Lahaina Restoration Foundation	208,530	202,350	202,556	213,192
Baldwin Missionary Home Museum	53,600	48,250	50,180	56,703
Brig Carthaginian	65,160	65,300	62,688	57,673
Hale Pa'ahao (Old Lahaina Prison)	31,800	30,800	31,800	32,347
Hale Pa'i Printing House	8,430	8,200	10,578	4,020
Wo Hing Temple Museum	49,540	49,800	47,310	62,449
Maui Historical Society Bailey House Museum	13,511	14,140	14,000	14,000
Maui Ocean Center ²	—	—	—	NA
Maui Tropical Plantation	307,774	NA	NA	NA
Maui Zoological & Botanical Gardens ³	60,000	—	—	—
Whale Center of the Pacific	504,061	445,384	436,246	426,132
Molokai				
Kalaupapa Settlement	6,729	8,995	9,589	11,658
Molokai Ranch Wildlife Conservation Park ⁴	1,891	—	—	—

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

¹ Years ending June 30.

² Opened in March 1998.

³ Closed permanently December 31, 1995.

⁴ Closed permanently in 1996.

SOURCE: Hawaii State Department of Business, Economic Development & Tourism, Research and Economic Analysis Division, *State of Hawaii Data Book 1998*, Table 7.34 and records.

10.5.2

NATIONAL AND STATE HISTORIC SITES, MAUI COUNTY

	Maui	Kahoolawe	Lanai	Molokai	Total Maui County
Listed Hawaii Register only	37	-	-	41	78
Listed National Register only	4	1	-	10	15
Listed both Hawaii and National Register	21	-	2	40	63
Eligible for National Register ¹	1	-	-	2	3
Total sites	63	1	2	93	159

¹ 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, 1998.

10.5.3

NATIONAL, STATE AND COUNTY PARKS, MAUI COUNTY

Parks	1990	1991	1992	1993	1994
National Parks¹					
Number of areas	2	2	2	2	2
Acreage	38,252	38,252	38,252	38,252	38,252
Visits	1,289,903	1,261,378	NA	1,346,521	1,556,417
State Parks & Historic Sites²					
Number of areas	13	13	13	10	10
Acreage*	575	582	582	565	565
Visits (1,000)	3,692	2,770	2,259	2,318	1,967
County Parks					
Number of areas	107	109	109	117	135
Acreage	1,030	1,116	1,116	1,193	1,210

¹ As of December 31.

² Declines since 1992 reflect transfer of areas to county.

* Figures rounded.

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

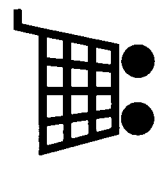
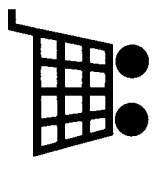
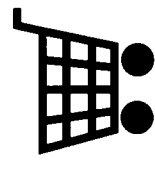
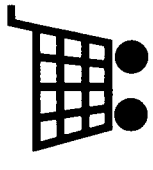
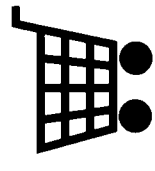
10.6.1

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

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

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

Domestic Trade



Section 11

DOMESTIC TRADE

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

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

11.1.1

MANUFACTURING KAHULUI AND MAUI COUNTY

Includes operating manufacturing establishments and auxiliaries

	MAUI COUNTY		KAHULUI	
	1987	1992	1987	1992
All Establishments¹				
Total (number)	88	98	31	29
With 20 employees or more (number)	16	11	6	4
All Employees				
Number (1,000)	2.8	2.2	1.7	1.0
Payroll (\$1,000,000)	54.9	61.9	31.9	31.0
Production Workers				
Number (1,000)	2.2	1.3	1.5	0.6
Hours (millions)	4.6	3.1	3.0	1.4
Wages (\$1,000,000)	39.0	29.0	25.3	11.6
Value Added by Manufacture²				
(\$1,000,000)	159.0	144.3	59.8	47.6
Cost of Materials³				
(\$1,000,000)	154.9	130.5	102.1	73.7
Value of Shipments³				
(\$1,000,000)	314.2	275.0	161.8	121.1

¹ Includes establishments with payroll at any time during the year.

² Computed using inventory data reported at cost or market prior to adjustment to LIFO cost.

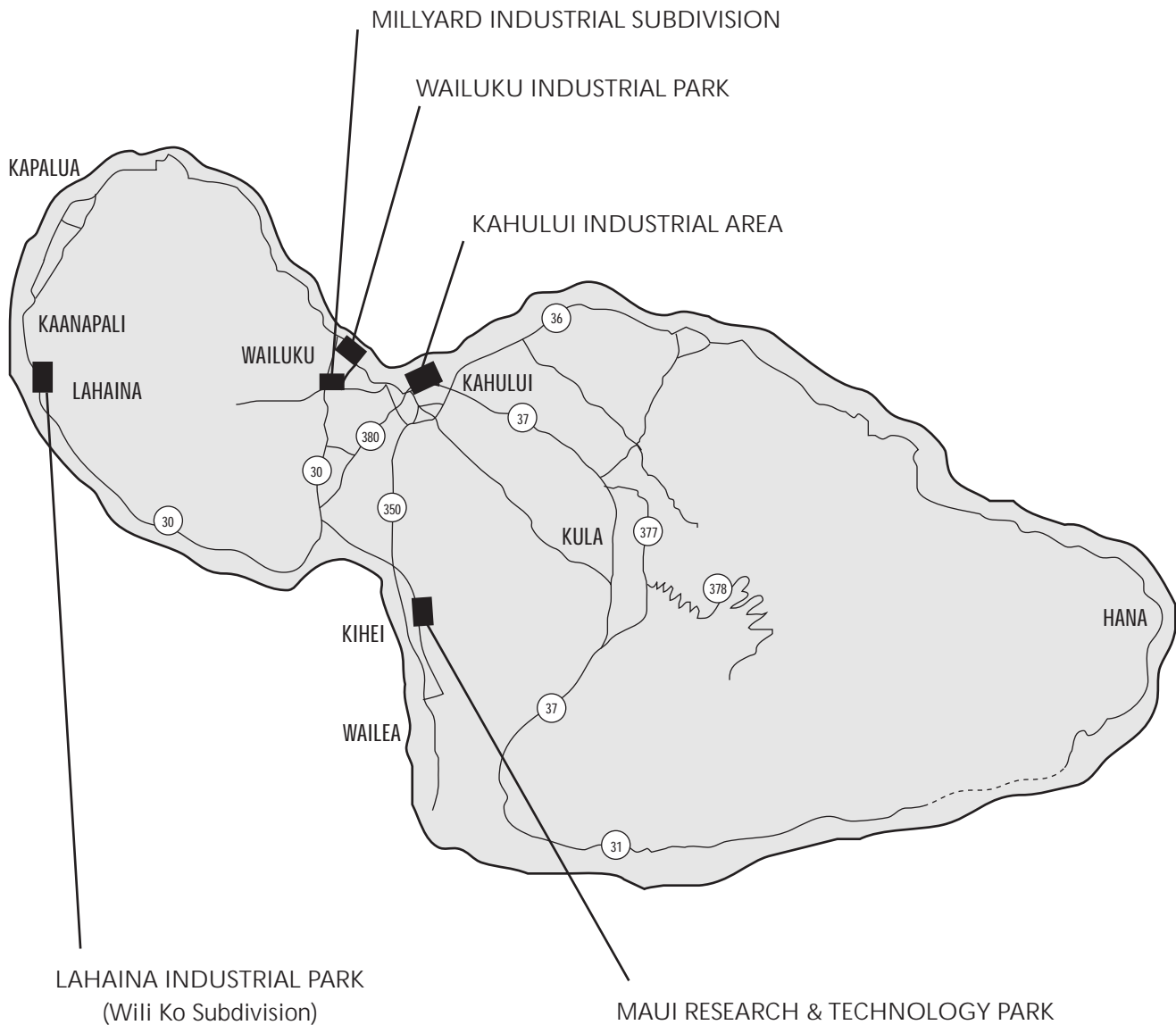
³ Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others.

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

11.1.2

INDUSTRIAL PARKS, ISLAND OF MAUI

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



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

11.2.1

GENERAL EXCISE TAX BASE, MAUI COUNTY

	1992	1993	1994	1995	1996	1997r	1998r	1999
Retailing	812,777,000	904,620,000	966,355,000	953,473,875	833,349,525	621,260,750	649,032,400	1,200,011,150
Services	279,600,000	294,121,000	311,996,000	332,350,025	323,517,975	315,540,900	328,849,125	404,622,650
Contracting	240,578,000	198,535,000	205,115,000	188,497,150	181,665,900	161,468,800	193,365,375	259,711,650
Theater, Amusements, Radio, etc.	6,115,000	6,704,000	6,186,000	6,712,900	6,348,825	5,757,150	6,518,225	15,984,275
Interest	8,671,000	8,734,000	8,203,000	9,019,025	8,360,500	7,568,225	7,794,250	11,002,075
Commissions	37,468,000	41,541,000	46,435,000	45,460,125	55,078,925	53,701,225	64,093,175	82,441,600
Hotel Rentals	219,923,000	287,317,000	301,289,000	302,295,300	326,989,550	219,644,400	192,012,700	332,734,900
All Other Rentals	256,414,000	266,880,000	251,857,000	260,702,375	230,939,550	189,527,750	206,840,275	272,953,600
Use (4%)	36,574,000	36,136,000	27,623,000	23,979,725	16,284,725	6,608,975	9,585,650	32,232,375
All Others (4%)	93,494,000	106,909,000	115,362,000	122,619,650	106,482,875	73,681,600	76,290,300	125,497,600
SUB-TOTAL	1,991,614,000	2,151,497,000	2,240,421,000	2,245,110,150	2,089,018,350	1,654,759,775	1,734,381,475	2,737,191,875
Insurance Solicitors	74,487,000	50,374,000	113,238,000	72,992,667	38,562,000	29,943,333	31,336,665	94,902,666
Sugar Processing	9,266,000	8,557,000	5,186,000	7,760,000	-574,000	85,400	6,800	73,000
Pineapple Canning	4,058,000	2,910,000	3,325,000	3,516,400	353,800	265,400	607,000	2,900,400
Producing	36,877,000	37,680,000	34,511,000	36,475,600	25,030,200	21,713,000	26,281,200	29,412,400
Manufacturing	15,970,000	13,611,000	14,061,000	18,755,400	17,230,800	17,607,400	18,410,800	21,927,400
Wholesaling	342,776,000	294,825,000	300,607,000	269,816,600	247,287,400	191,297,600	209,382,400	328,986,000
Services (Intermediary)	23,615,000	11,259,000	25,429,000	18,455,800	25,437,400	26,346,200	25,449,200	30,991,200
Use (1/2%)	111,293,000	132,644,000	144,160,000	131,134,400	83,113,800	42,011,800	61,979,800	183,129,000
SUB-TOTAL	618,342,000	551,860,000	640,517,000	558,906,867	436,441,400	329,270,133	373,473,865	692,322,066
GRAND TOTAL	2,609,956,000	2,703,357,000	2,880,938,000	2,804,017,017	2,525,459,750	1,984,029,908	2,107,855,340	3,429,513,941

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: 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. The unallocated net collections category includes amounts resulting from collections from electronic fund payments (apparently causing the 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 the county for the above reason and because much income is recorded as Honolulu activity where many businesses operating statewide locate their head office.

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

11.2.2

RETAIL ESTABLISHMENTS BY TYPE AND LOCATION

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

Establishment Type

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

11.2.2

CONTINUED

Establishment Type

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

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

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

11.2.3

CHARACTERISTICS OF MAJOR SHOPPING CENTERS, MAUI COUNTY

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

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

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

11.2.4

RETAIL ESTABLISHMENTS WITH PAYROLL (NAICS BASIS), MAUI COUNTY

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

* For pay period including March 12.

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

11.2.5

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

Sales in thousands of dollars

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

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

11.2.6

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

Merchandise Line	NUMBER OF ESTABLISHMENTS			SALES (\$1,000)		
	State Total	Oahu	Rest of State	State Total	Oahu	Rest of State
TOTAL Retail Trade¹	7,807	5,181	2,626	11,250,217	8,341,630	2,908,587
Groceries and other food items	1,604	1,089	515	1,769,219	1,213,871	555,348
Meals and snacks	2,949	2,032	917	1,651,956	1,241,426	410,530
Alcoholic drinks	1,315	967	348	238,291	172,826	65,465
Packaged alcoholic beverages	836	546	290	242,439	149,852	92,587
Cigars, cigarettes, and tobacco	1,121	717	404	144,649	96,932	47,717
Drugs, health aids, and beauty aids	916	562	354	697,542	522,870	174,672
Soaps, detergents, and cleaners	534	330	204	79,199	55,334	23,865
Paper and related products	502	298	204	59,266	41,697	17,569
Men's wear	1,013	557	456	353,900	267,214	86,686
Women's, juniors', & misses' wear	1,279	751	528	670,350	537,989	132,361
Children's wear	605	287	318	97,474	67,417	30,057
Footwear	707	403	304	188,674	149,304	39,370
Sewing, knitting, & needlework goods	136	95	41	27,953	21,921	6,032
Curtains, draperies, and dry goods	208	132	76	58,992	43,954	15,038
Major household appliances	171	112	59	95,421	66,948	28,473
Small electric appliances	268	164	104	50,823	40,734	10,089
Televisions, video equipment/tapes	205	128	77	99,642	83,638	16,004
Audio equipment, musical instruments	391	255	136	148,984	120,191	28,793
Furniture and sleep equipment	243	161	82	160,795	121,276	39,519
Floor coverings	130	80	50	55,160	38,953	16,207
Computer hardware, software, & supplies	120	78	42	63,612	55,374	8,238
Kitchenware and homefurnishings	767	461	306	163,099	133,711	29,388
Jewelry	1,104	725	379	458,618	382,081	76,537
Books	389	227	162	73,415	54,948	18,467
Photographic equipment and supplies	238	137	101	47,316	35,028	12,288
Toys, hobby goods, and games	529	312	217	80,045	63,632	16,413
Optical goods	189	128	61	37,402	33,780	3,622
Sporting goods	441	277	164	150,661	115,406	35,255
Hardware, tools, plumbing, & elect. suppl.	290	175	115	140,736	103,974	36,762
Lawn and garden equipment	379	234	145	116,711	92,629	24,082
Lumber, millwork, building materials	180	98	82	144,054	86,023	58,031
Paint & related preservatives & supplies	133	68	65	65,021	45,498	19,523
Cars, vans, trucks, powered vehicles	126	84	42	1,143,755	862,929	280,826
Automotive fuels	500	362	138	467,464	297,348	170,116
Automotive lubricants	428	249	179	16,410	12,324	4,086
Automotive tires, batteries, accessories	495	306	189	230,257	170,574	59,683
Household fuels	33	14	19	10,426	8,192	2,234
Pets, pet foods, and pet supplies	253	144	109	35,698	25,415	10,283
All other merchandise	1,458	887	571	494,942	394,287	100,655
Unclassified merchandise	818	535	283	104,109	81,661	22,448
Nonmerchandise receipts	1,300	820	480	314,843	231,850	82,993
Miscellaneous merchandise	X	X	X	894	619	275

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

X: Not applicable.

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

11.2.7

**COMMERCIAL LEASE RENTS,
MAUI ISLAND**

*Compiled by James M. "Mac" Lawson, CCIM PB,
Lawson and Associates*

Location	YEAR 2000		
	RANGE PER SQUARE FOOT PER MONTH		
	Retail	Office	Warehouse
West Maui:			
Lahaina Shopping Centers	\$2.50 to \$5.50	NA	NA
Off Front Street	\$1.75 to \$4.00	\$1.25 to \$1.50	NA
Industrial Area	\$1.00 to \$1.25	\$0.80 to \$1.35	\$1.00 to \$1.25
Front Street	\$10.00 to \$25.00	\$1.50 to \$2.50	NA
Kihei	\$1.25 to \$2.50	\$1.00 to \$3.00	\$0.95 to \$1.10
Wailuku	\$0.85 to \$1.75	\$0.75 to \$1.50	\$0.40 to \$0.85
Kahului	\$0.70 to \$2.75	\$0.95 to \$2.00	\$0.55 to \$1.10
Common area charges (in addition to rent, per square foot rented, all areas):	\$0.05 to \$0.95	\$0.23 to \$0.94	\$0.08 to \$0.35

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

11.3.1

C O N T I N U E D

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

¹ Data refer to establishments in business at anytime during the year.

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

D: Withheld to avoid disclosing data for individual companies.

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

11.3.2

LARGEST PRIVATE CORPORATIONS, MAUI COUNTY

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

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

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

11.3.3

CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, MAUI COUNTY

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

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

¹ Data refer to establishments active anytime during the year.

² For week including March 12.

D: Withheld to avoid disclosing data for individual companies.

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

11.3.4

NUMBER OF BUSINESS ESTABLISHMENTS, STATE OF HAWAII AND MAUI COUNTY

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

Year	State Total	Maui County
1979	20,621	1,858
1980	21,125	1,864
1981	21,264	1,872
1982	21,655	1,988
1983 ¹	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

¹ New definition (see headnote).

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

11.3.5

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

Geographic Area	NUMBER		SALES (\$1000)	
	1987	1992	1987	1992
All Services				
Maui County	725	880	652,792	918,353
Lanai	3	2	D	D
Molokai	20	20	17,641	11,803
Kaunakakai		3		92
Maui				
Haiku-Pauwela		7		715
Kahului	171	195	110,323	128,700
Kihei	66	121	16,496	14,965
Lahaina	116	137	140,715	167,454
Makawao	14	27	D	5,334
Napili-Honokowai		3		3,796
Pukalani	18	17	2,674	6,146
Wailea-Makena		5		D
Wailuku	237	254	67,673	131,363
Balance of County	80	89	295,383	D
Hotels¹				
Maui County	45	67	402,763	D
Lanai	-	-		-
Molokai	2	3	D	D
Kaunakakai		1		D
Maui				
Haiku-Pauwela		1		D
Kahului	3	3	D	D
Kihei	7	17	8,064	112,386
Lahaina	17	20	102,114	118,132
Napili-Honokowai		3		3,796
Wailea-Makena		2		D
Wailuku	1	2	D	D
Balance of County	15	15	268,550	D
Automotive Services²				
Maui County	70	77	73,773	94,709
Lanai		-		-
Molokai	5	3	1,663	1,427
Maui				
Haiku-Pauwela		1		D
Kahului	30	27	57,949	51,466
Kihei	2	2	D	D
Lahaina	7	9	1,558	1,533
Makawao	1	2	D	D
Wailuku	16	23	4,286	7,955
Balance of County	9	10	7,365	31,502

11.3.5

CONTINUED

Geographic Area	NUMBER		SALES (\$1000)	
	1987	1992	1987	1992
Amusement Services³				
Maui County	96	123	37,676	72,681
Lanai		-		-
Molokai	3	3	D	D
Maui				
Haiku-Pauwela		1		D
Kahului	14	20	4,539	9,083
Kihei	18	30	2,964	20,439
Lahaina	27	38	20,813	26,661
Makawao	3	2	D	D
Pukalani	2	2	D	D
Wailuku	12	9	2,815	4,695
Balance of County	17	18	4,848	6,568
Health Services⁴				
Maui County	151	195	45,249	98,513
Lanai	2	2	D	D
Molokai	5	6	D	1,929
Maui				
Kahului	43	53	11,382	23,899
Kihei	9	18	1,183	6,584
Lahaina	14	16	5,001	5,674
Makawao	2	9	D	1,310
Pukalani	9	6	1,964	2,160
Wailuku	63	76	23,778	54,540
Balance of County	4	9	D	D
Legal Services⁵				
Maui County	50	53	14,329	20,846
Lanai	-	-	D	-
Molokai		-		-
Maui				
Kahului	4	5	1,999	D
Kihei	2	3	D	D
Lahaina	3	1	D	D
Makawao		1		D
Wailuku	41	41	11,548	16,571
Balance of County	-	2	-	D

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

² Automotive repairs, services, and parking garages (SIC 75).

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

⁴ Health services, except hospitals (SIC 80, ex. 806).

⁵ Legal services (SIC 81).

D: Withheld to avoid disclosing data for individual companies.

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

11.3.6

SERVICE ESTABLISHMENTS BY TYPE AND LOCATION

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

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

11.3.6

C O N T I N U E D

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

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

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

SELECTED SUBJECT DEFINITIONS

Adhered to by Bureau of the Census

Age. The age classification is based on the age of the person in completed years as of April 1, 1990. Yet, review of detailed 1990 information shows that a number of respondents tended to provide their age as of the date of their completion of the questionnaire, not their age as of April 1, 1990. It is likely that approximately 10 percent of persons in most age groups are actually one year younger.

Family Households (families). Include a householder and one or more other persons living in the same household who are related to the householder by birth, marriage, or adoption. The number of family households always equals the number of families; however, a family household may also include nonrelatives living with the family. Families are classified by type as either a married-couple, family, or other family which is further classified into "male householder" (a family with a male householder and no wife present) or "female householder" (a family with a female householder and no husband present).

Group Quarters. Includes all persons not living in households. Two general categories of group quarters are recognized: (1) institutionalized persons which includes persons under formally authorized, supervised care or custody in institutions such as correctional institutions, nursing homes, and juvenile institutions at the time of enumeration and (2) other persons in group quarters which includes all persons who live in group quarters other than institutions or persons who live in living quarters when there are ten or more unrelated persons living in the unit. Also included are persons residing in certain other types of living arrangements regardless of the number of people sharing the unit.

Hispanic Origin. Persons of Hispanic origin are those who classified themselves in one of the specific Hispanic origin categories listed on the questionnaire—"Mexican," "Puerto Rican," or "Cuban"—as well as those who indicated that they were of "other Spanish/Hispanic" origin. Origin can be viewed as the ancestry, nationality group, lineage, or country of birth of the person or the person's parents or ancestors before their arrival in the United States. Persons of Hispanic origin may be of any race.

Households. Includes all the persons who occupy a housing unit. Persons not living in households are classified as living in group quarters. In 100-percent tabulations, the count of households always equals the count of occupied housing units.

Nonfamily Households. Includes a householder living alone or with nonrelatives only. (For more information, see "Family Households.")

Race. The Bureau of the Census collects and publishes racial statistics as outlined in Statistical Policy Directive No. 15 issued by the Office of Management and Budget. This directive provides standards on ethnic and racial categories for statistical reporting to be used by all Federal agencies. According to the directive, the basic racial categories are American Indian or Alaska Native, Asian or Pacific Islander, Black, and white. (The directive identifies Hispanic origin as an ethnicity.) The concept of race the Bureau of the Census uses reflects self-identification by respondents; that is, the individual's perception of his/her racial identity. The concept is not intended to reflect any biological or anthropological definition. Although the Bureau of the Census adheres to the overall guidelines of Directive No. 15, we recognize that there are persons who do not identify with a specific racial group. The 1990 census race question includes an "Other race" category with provisions for a write-in entry.

INDEX

Acupuncturists	26
Agriculture. (<i>See also</i> Pineapple, Sugar, <i>and</i> specific crops)	
Characteristics of farm operators	76
Cropland	78
Crops and livestock	78, 80, 81, 83, 84
Employment and payrolls	79
Farms by size	78
Farms and farm workers	79, 80, 86
Foreign owners	90
Land use and acreage	76, 78, 79, 80, 81, 82, 84, 86
Production volume	81, 82, 84
Sales/Value	78-83, 85-86
Aircraft	99
Airports and helicopters	99, 100
Air transportation	
Aircraft operations	99
Cargo and mail	100
Facilities	99
Fuel tax base	95
Passengers	100
Ambulance technicians	26
Aquaculture	87
Automobiles. <i>See</i> Motor vehicles.	
Auditoriums	168
Bagasse	110
Banks	137
Beaches	164, 165
Births and birth rates	
Components of population change	18
Live births	18
Boats and boating. (<i>See also</i> Water transportation)	101, 104
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	178-180
Establishments	178-185
Gross business receipts	4, 173
Sales	180, 182-184
Cable television	94
Cattle. <i>See</i> Livestock and livestock products.	
Census designated places or urban places	10, 12, 14, 129, 130, 131, 132, 133, 134
Chiropractors	26
Climate	45, 46, 48
Coastline. <i>See</i> Shoreline.	
Condominiums. (<i>See also</i> Housing and housing units)	4, 55, 155, 157
Construction industry. (<i>See also</i> Housing and housing units)	
Building permits	4, 117, 119
Commercial and industrial	118
Demolitions	120

Construction industry (con't.)	
Employment and payrolls	185
Establishments	122, 185
Nonresidential building projects	121
Private, residential construction	118, 120, 121
Consumer price index. (<i>See also</i> Prices and rates)	21, 22
Credit unions	138
County government	
Bond debt	72
Expenditures	66
Tax collections and other revenues	66
Deaths and death rates	18
Dental hygienists	26
Dentists	26
Diesel fuel	95
Education	
Community college	34, 36
Distance learning	35
Enrollment	30, 31, 32
Graduates	30, 34
Private elementary and secondary schools	29, 30, 32
Public elementary and secondary schools	30, 31
Teachers	30, 36
Elections and elected officials	
Election districts or precincts	59, 60, 61, 62
General election results	64
Voters and votes cast	63, 64
Electricity	
Capacity, consumption, production, and rates	108
Residential customers	107
Revenues	108
Elevations and altitudes. (<i>See also</i> Mountains)	41, 42
Employment and labor force. (<i>See also</i> Labor and individual industries)	
Employment and payroll	4, 79, 140
Government	18
Industry groups	19, 143
Jobcount	4, 19, 143
Labor force	139, 140, 142
Projections	19
Unemployment and unemployed workers	4, 139, 140
Energy and power. (<i>See also</i> Electricity and Utilities)	
Consumption	112
Electric utilities	108, 112
Electricity generation	110
Gas utilities	111
Ethnic origin and race. (<i>See also</i> Population)	12, 17
Excise Tax. <i>See</i> Taxes.	
Farms and farm workers. <i>See</i> Agriculture.	
Finance, insurance, and real estate	
Assets and deposits	137-138
Employment and payrolls	185
Establishments	137-138, 185

Fishing industry	88, 89
Flowers and nursery products	80, 81, 86
Food. (See Agriculture)	
Forests and forest products	56, 102
Freight. See Water transportation.	
Fuel. (See <i>also</i> individual type)	
Consumer price index	22
Consumption	97
Electricity generation	110
Sugar plantations	110
Taxes and tax base	95
Gas utilities	
Consumption, consumers, and use	111
Rates and revenues	111
Gasoline	
Prices	95
Taxes and tax base	95
Geographic data	
Area	39, 44
Elevations	42, 41
Inland waters	39
Shoreline	40, 44
Waterfalls	41
Government. See individual government units.	
Harbors. (See <i>also</i> Moorage facilities)	101, 102
Health care	
Consumer price index	22
Facilities	25
Health services	180, 183
Hospitals and institutions	22
Practitioners	26
Highways and streets	
Fuel consumption	97
Miles and mileage	96, 97
Historic sites	163
Hospitals. See Health care.	
Hotels. (See <i>also</i> Tourism)	
Construction	120
Employment and payrolls	185
Establishments and properties	155, 156, 180, 182, 185
Largest	158
Occupancy rates	4, 154
Revenues	154-156
Room rates	154-156
Taxes and tax base	49
Units	19, 155, 157
Households or families	11
Housing and housing units. (See <i>also</i> Condominiums <i>and</i> Construction industry)	
Building permits	4, 117, 119
Characteristics	123, 129, 131, 133
Consumer price index	22
Construction	118, 120, 121, 123
Contract rent	134

Housing and housing units (con't.)	
Demolitions	120, 123
Government	127
Occupied units	128, 131
Prices of homes	4, 55, 128
Real property tax	49
Resident and non-resident housing units	125
Renter-occupied	126, 128, 133, 134
Sales	55
Tenure, owner or renter-occupied	126
Vacancies	128, 130
Value, owner-occupied	132
Income	
Per capita	20
Personal	19, 70
Projections	19
Taxes	70
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	39
Farms	76, 78, 79
Hawaiian Home Lands, Hawaii State Department of	52
Land use districts	50, 51
Ownership	
Government	52, 54
Hawaiian Home Lands	54
Leased/owned	54
Private/fee simple	52, 54
Real property	49
Value of land transactions	124
Libraries	33
Livestock and livestock products	4, 80, 83
Manufacturing industry.	
Cost of materials	171
Employment and payrolls	171, 185
Establishments	171, 185
Value added and value of shipment	171
Maps	
Census tracts	7
Election districts	59, 60, 61, 62
Industrial parks	172
Land ownership	52
Land use districts	50
Subdivisions and places	5
Massage therapists	26
Medical care. See Health care.	
Migration. See Population.	

Mooring facilities	101
Motorcycles	96
Motor vehicles. (<i>See also</i> Highways and streets)	
Establishments	180, 182
Drivers licenses	96
Fuel consumption	97
Registration	96
Rental and leasing establishments	98
Vehicle miles	97
Sales	180, 182
Mountains, altitudes, and elevations	42, 43, 114
Museums	164
Naturopaths	26
Newspapers	93
Nurses	26
Optometrists	26
Osteopathic physicians	26
Parks	164, 165
Paramedics	26
Pay rates. <i>See</i> Wages and salaries.	
Pharmacists	26
Physical therapists	26
Physicians and surgeons	26
Physician's assistants	26
Piers	101
Pineapple industry	
Acreage	80, 81
Crop sales	4, 80, 81
Production volume	81
Podiatrists	26
Population	
Age	14
Components of change	18
De facto	8, 19
Density	10
Ethnic	17
Household and/or families. <i>See</i> Households or families.	
Geographical location	
Census designated places	10, 12, 14, 16
Counties or island	6, 9
District and census tract	8, 11
Migration	18
Projections	19
Resident	4, 6, 10, 11, 16, 18
Sex	12
Power. <i>See</i> Energy and power.	
Prices	
Estimated Costs of Living	24
Consumer price index	21, 22
Psychologists	26

Radio stations	94
Rainfall	46, 48
Real property. <i>See</i> Housing <i>and</i> 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	177
Sales	55
Recreation.	
Cultural attractions and the performing arts	162
Parks	163, 164, 165
Retail trade.	
Employment and payrolls	143, 174
Establishments	172, 174, 177
Sales	174, 175, 176
Taxes and tax base	171
Savings and loans	137
Service industries	
Establishments	182, 184
Tax base	171
Shopping centers	176
Shoreline	40, 44
Stadiums	168
State government. (<i>See also</i> Elections and elected officials <i>and</i> Taxes)	
Bonded debt	72
Tax collections and other revenues	173
Sugar industry	
Acreage	80, 82
Price	82
Plantation energy	110
Production volume	4, 82
Sales	80
Surf and surfing	164, 165
Taro	80, 81, 84, 85
Tax Base	68, 95, 171
Taxes	
Collections	66, 67
General excise and use	4, 67
Per capita	70
Real property	66, 68, 69
State	4, 67
Telescopes	114
Television stations. (<i>See also</i> Cable television)	94
Temperature	45, 46, 48
Tennis and tennis courts	164, 165
Textile and apparel industry	22
Theaters	168
Tourism. (<i>See also</i> Hotels)	
Attractions	164
Average visitor census	19, 147, 149
Economic activity generated	162
Expenditures	159, 162
Per visitor day	159
Japanese	159

Tourism (con't.)	
Origin of visitors	150, 153
Projections	19
Visitor characteristics	4, 149, 153, 161, 163
Visitor counts	4, 147, 148, 150, 152, 153
Visitor plant inventory	155, 156, 157
Traffic	102, 103
Trailers	96
Transportation	
Consumer price index	22
Employment and payrolls	185
Establishments	185
Trucks	96
Utilities. (<i>See also</i> Electricity and Gas utilities)	107, 108, 111
Vegetables and melons	80, 81, 84, 85
Visitors and visitor industry. <i>See</i> Tourism.	
Voters and voting. (<i>See also</i> Elections and elected officials)	63, 64
Wages and salaries. (<i>See also</i> individual industries)	144
Water. (<i>See also</i> Geographic data)	
Area, inland water	39
Use and consumption	113
Water transportation	
Cargo and freight	102, 103
Harbors and piers	101
Ship arrivals	104
Waterfalls	41
Wildlife sanctuaries	164, 165
Wholesale trade. (<i>See also</i> individual industries)	
Establishments	180, 182, 185
Employment and payrolls	185
Sales	180, 182