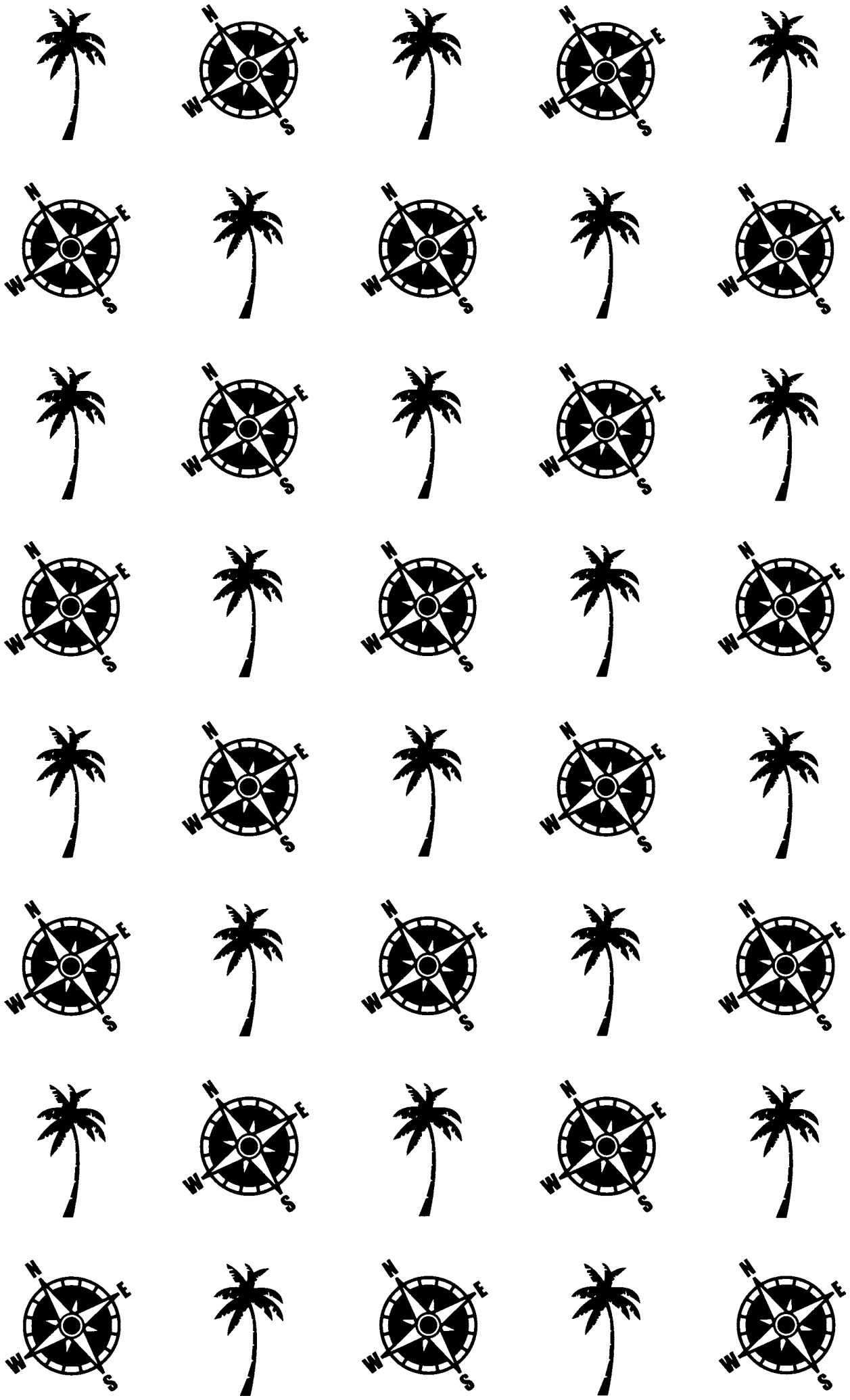


Geography & Land Use



Section 3

GEOGRAPHY & LAND USE

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

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

The climate of Maui County is defined by average temperatures ranging from 79.2 degrees in the warmest month at Kahului Airport, Maui, to 71.5 degrees in the coolest month. Rainfall varies greatly. Annual averages for rainfall in the county range from 81 inches in Hana, to 35 inches in Lanai City, to 20 inches in Kihei.

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

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

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

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

3.1.1

LAND AND WATER AREA OF COUNTIES AND ISLANDS

County or Island	SQUARE MILES			ACRES 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*.

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 and Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands⁴				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands⁵	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

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

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

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

3.1.3

MAJOR NAMED WATERFALLS, MAUI COUNTY

Waterfall¹	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	
Wailele	500	150	
Haloku	500	200	
Hipuapua	500	300	
Olupena	300	150	
Moaula	250	200	19.7

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

3.1.4

ELEVATIONS OF MAJOR SUMMITS

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

Island and Summit	Feet	Meters
Hawaii		
Mauna Kea ¹	13,796	4,205
Mauna Loa ²	13,679	4,169
Hualalai	8,271	2,521
Kaunu o Kaleihoochie	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
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

CONTINUED

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 Perouse 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, *Hawaii'i, the Natural Environment* (1974), p. 19; and U.S. Geological Survey, *Elevations and Distances in the United States* (1978), p. 4-5.

3.1.7

MONTHLY RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS
IN MAUI COUNTY

Station	2002												Departure from Normal	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Annual
RAINFALL¹														
Maui														
Haleakalala Ranger Station	10.53	4.50	5.27	2.40	7.05	0.80	1.06	2.22	0.49	5.54	0.40	2.30	42.56	-10.56
Hana Airport	14.06	2.64	6.63	7.05	6.39	3.85	4.13	3.21	2.56	10.79a	1.64	3.52	66.47	m
Kahului Airport (WSO)	3.75	0.99	1.80	0.64	1.83	0.01	0.66	0.00t	0.00t	4.42	0.42	0.55	15.07	-3.73
Kapalua-West Maui Airport	6.98	1.55	3.19	1.03	2.63	0.52	1.64	0.63	0.21	7.11	0.79	1.70	27.98	1.81
Keanae	10.50	6.00	3.50	1.40a	4.00	2.50	16.00a	15.50	9.40a	10.50	1.93	15.00a	96.23	m
Kihei	2.91	0.25	0.94	1.12	2.29	0.00	0.00	0.00	0.00	5.75	0.00	0.07	13.33	0.70
Kula Hospital	3.76	1.13	5.11	6.42	5.55m	1.24	1.35	1.01	0.20	9.00	0.58	0.01	35.36m	m
Makena Golf Course	3.50	0.33	0.76	2.24	4.02	0.18	0.27	0.10	0.22	6.20	0.33	0.09	18.24	4.64
Puu Kukui	31.20a	20.83	23.00	10.10a	13.00	0.00a	30.00a	29.20	23.14a	25.70	7.57	28.80a	242.54	m
Wailuku	8.15	4.12	4.06	1.61	3.03	0.53	0.91	0.51	0.03	0.00	0.00a	m	m	m
Molokai														
Kalaupapa	11.55a	3.31	6.36	1.25	3.38	0.54	0.71	1.01a	0.02	7.51	2.89	1.25	39.78	m
Molokai Airport	5.33	2.00	2.22	1.74	2.15	0.22	0.43	0.25	0.16	6.64	1.52	0.29	22.95	-1.69
Lanai														
Lanai Airport	5.58	0.62	4.80	2.26	2.08	1.19	0.90	0.58	0.78	5.39	1.58	0.73	26.49	10.05
Lanai City	10.38a	2.32	4.13	3.26a	5.12	1.96	1.15	0.66	2.09a	9.56	0.94	1.01a	42.58	m

¹ Precipitation for month.

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

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

NA: Not available.

3.1.7

CONTINUED

2002

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
TEMPERATURE²													
Maui													
Haleakalala Ranger Station	52.8m	52.2	51.9m	54.7	56.1m	58.4m	60.0m	58.2m	55.1	57.1	56.6	54.1m	55.6m
Hana Airport	71.4m	69.9m	71.3	73.2	74.7	75.8m	75.9m	77.5m	76.5m	76.3m	75.0m	72.8m	74.2m
Kahului Airport	71.9	70.8	72.2	74.2	75.7	78.0	78.4	79.7	77.9	77.5	75.0	73.1	75.4
Kailua	65.4	63.9	64.8	67.0	67.6m	69.1	68.9	70.1	68.6	69.1	67.2	65.5	67.3m
Kapalua-West Maui Airport	72.0	70.6	72.0	74.6	76.1	77.4	77.3	78.9	78.6	77.6	75.3	73.8	75.4
Kula Branch Stn.	61.3	59.5	61.4	62.9	64.4	65.5	66.8	67.6	66.3	66.4	63.9	62.0	64.0
Kula Hospital	60.8m	58.8m	60.7m	62.3	64.1m	65.2m	66.0m	67.0	66.0	66.0	63.2	60.7	63.4m
Makena Golf Course	72.3	70.5m	72.7m	74.9	75.8m	77.4m	78.0m	78.8m	78.0m	77.3m	74.9m	72.4m	75.2m
Oheo	73.3	71.9	73.0m	75.2	75.3m	76.0	76.2	77.5m	77.0m	77.3m	76.5m	74.5m	75.3m
Molokai													
Kalaupapa	72.5m	71.9	72.4	75.4	76.8	m	m	m	82.3	77.1	74.2	73.8	m
Molokai Airport	71.4m	70.1	70.9	73.2	75.6	77.5	77.4	79.4	78.0	77.5	74.6	72.6	74.9m
Lanai													
Lanai Airport	69.3	67.6	69.6	70.2	72.6m	73.6	74.5	75.5	73.9m	74.0	71.2	68.2	71.7m
Lanai City	m	m	m	67.6m	m	m	71.8m	73.6m	m	72.2m	m	m	m

² Average temperature for month.

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

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

3.1.8

ANNUAL RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS, MAUI COUNTY

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

¹ Lahaina station no longer in service as of 2001.

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

NA: Not available.

SOURCE: U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, National Weather Service Forecast Office, Honolulu.

3.2.1

TRENDS IN REAL PROPERTY TAX BASE, MAUI COUNTY

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

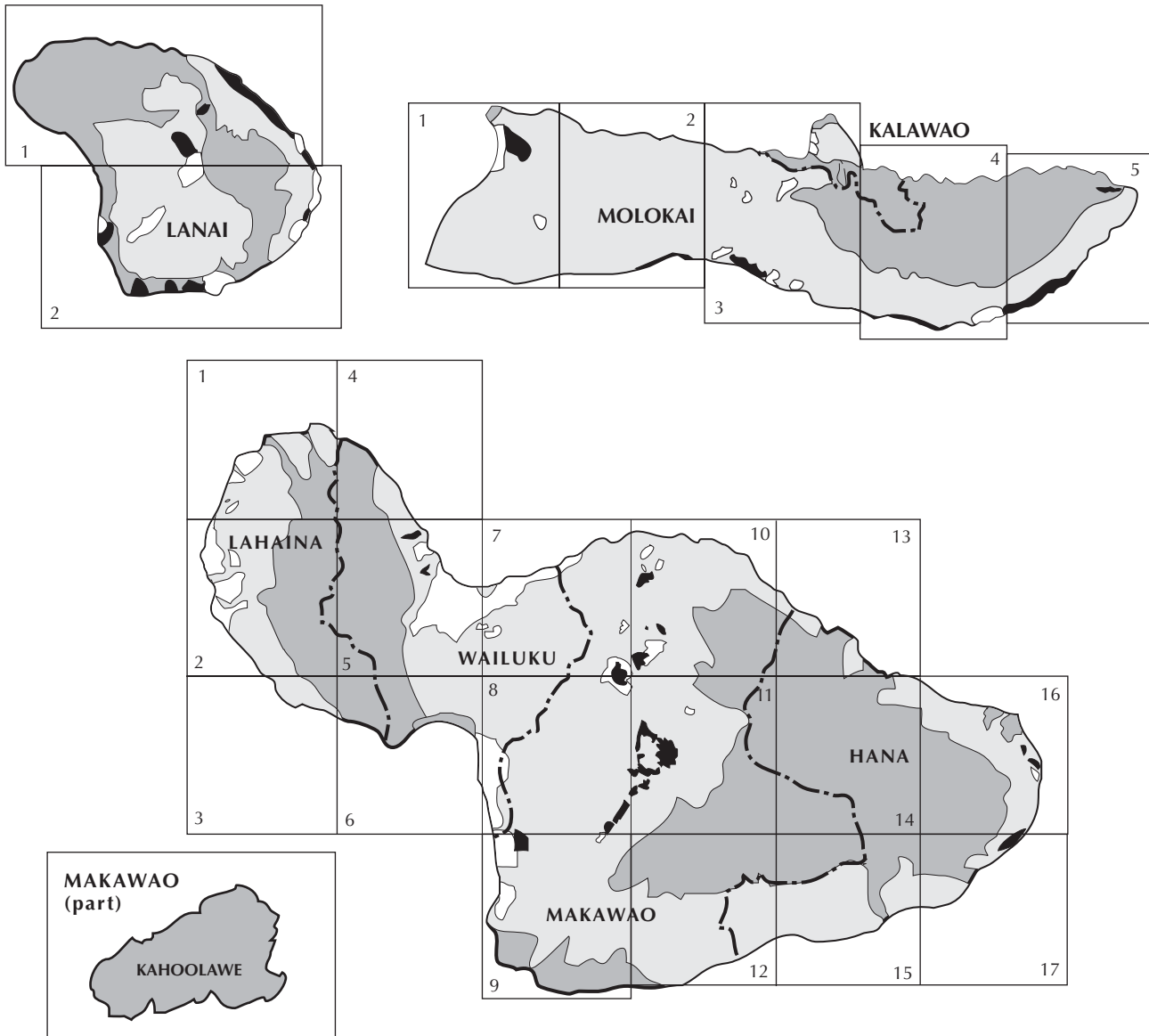
	1997	1998	1999	2000	2001	2002	2003
Improved Residential							
Land	1,566,094	1,592,910	1,568,983	1,629,787	1,778,535	2,105,914	2,229,559
Improvements	782,187	803,783	817,079	883,993	980,638	1,147,963	1,221,288
Unimproved Residential							
Land	276,221	258,915	282,747	327,362	312,704	291,068	295,995
Improvements	2,003	1,963	1,872	122	2,373	348	10,245
Homeowner							
Land	2,379,383	2,283,499	2,225,415	2,383,931	2,645,650	3,068,710	3,448,058
Improvements	2,063,164	2,080,557	2,143,098	2,253,350	2,494,417	2,753,442	3,024,256
Hotel/Resort							
Land	954,858	975,562	1,066,582	1,066,560	1,118,337	1,212,092	1,178,686
Improvements	2,358,814	2,346,723	2,681,250	2,841,594	3,173,969	3,424,136	3,739,235
Apartment							
Land	485,770	500,857	496,335	570,516	576,269	660,144	630,001
Improvements	1,075,849	1,032,209	1,096,639	1,220,117	1,429,635	1,677,822	1,895,848
Commercial							
Land	572,682	572,824	611,007	631,941	672,344	698,764	675,803
Improvements	372,886	382,338	391,668	393,739	471,205	492,228	509,617
Industrial							
Land	571,558	572,949	577,667	593,621	607,145	600,716	539,019
Improvements	396,415	415,419	411,845	416,315	439,790	471,526	468,954
Agricultural							
Land	865,718	880,448	894,855	944,608	1,024,089	1,128,381	1,152,951
Improvements	348,831	362,129	363,055	379,565	422,948	450,050	500,406
Conservation							
Land	240,398	244,888	271,170	278,967	289,466	340,554	328,518
Improvements	30,151	28,128	27,759	29,723	29,829	30,985	33,323
TOTAL	15,342,982	15,336,101	15,929,026	16,845,811	18,469,342	20,554,842	21,881,760

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





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

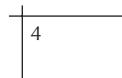
3.2.2

LAND USE DISTRICTS, MAUI COUNTY



LAND USE DISTRICTS

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



District Boundary Map Index



Judicial District Boundary and Name

Scale: 1:593,260



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
As of December 31, 2002					
Maui	465,800	21,409	194,836	245,777	3,778
Molokai	165,800	2,539	49,768	111,627	1,866
Lanai	90,500	3,257	38,197	46,639	2,407
Kahoolawe	28,800	—	28,800	—	—
Hawaii	2,573,400	52,083	1,304,684	1,214,669	728
Oahu	386,188	100,447	156,619	129,122	—
Kauai	353,900	14,550	198,769	139,328	1,253
Niihau	45,700	—	—	45,700	—
Kaula and Lehua	400	—	400	—	—
Other Islands ³	1,900	—	1,900	—	—
State Total	4,112,388	195,495	1,973,973	1,932,862	10,058

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

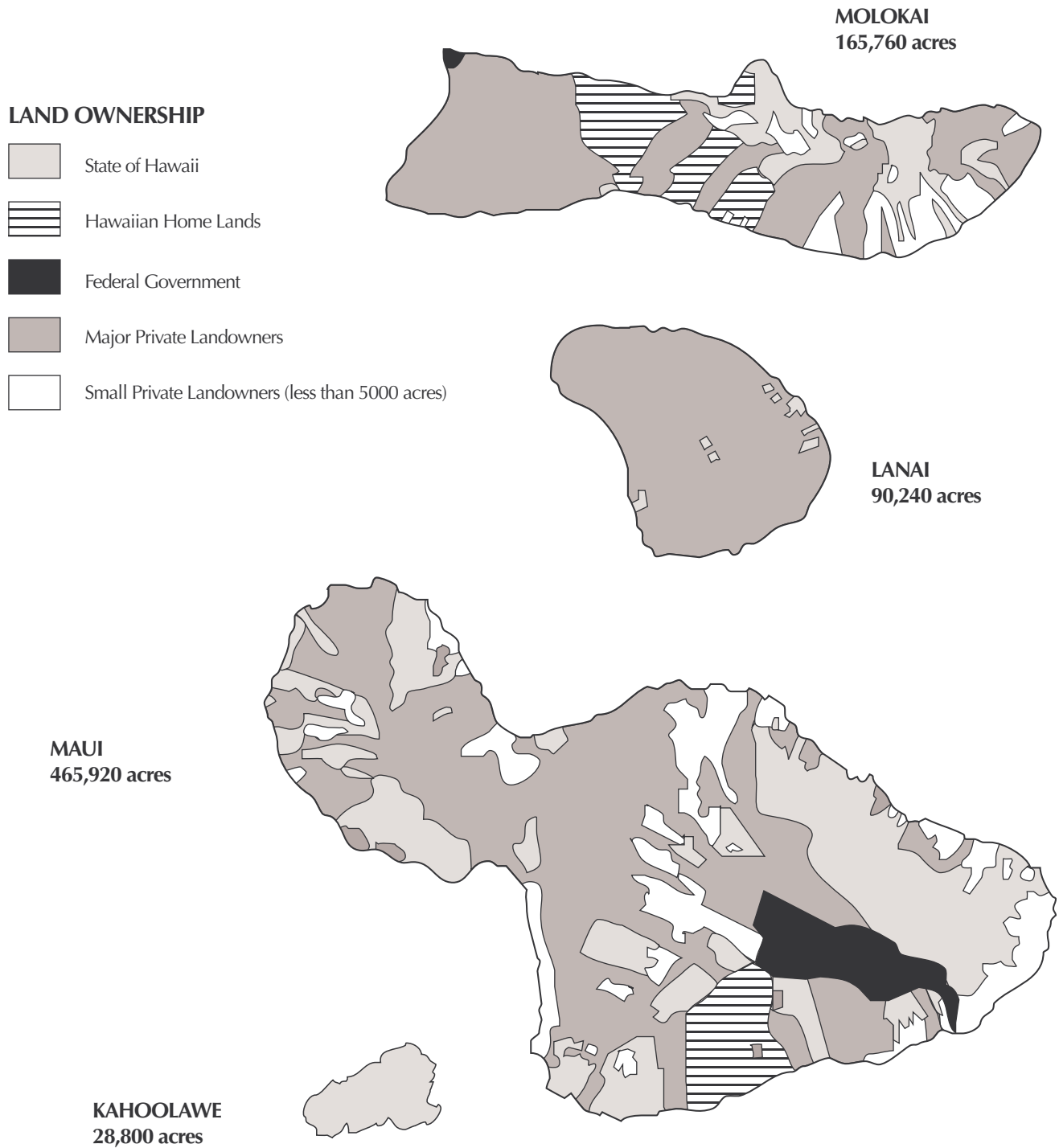
² These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census.

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

NATIONAL AND STATE HISTORIC PLACES, MAUI COUNTY

Island of Maui

Alae Petroglyphs
 Alena Habitation Site
 Bank of Hawaii - Haiku Branch
 Cave of Seven Coffins
 Chinese Society Halls:
 Wo Hing Society Hall
 Ket Hing
 Crater Historic Dist. - Haleakala
 Frank Baldwin/H.F. Rice Res
 Gomes Residence
 Ha'iku Mill
 Hale Ho'ike'ike
 Hale Pa'I
 Haleki'i-Pihana Heiau
 Hale-o-Lono Heiau
 Hamoa Complex
 Hana Belt Road
 Hana Police Station & Courthouse
 Hana Store
 Hanamau'uloa Complex
 Hardy House
 Holy Ghost Catholic Church
 Hongwanji Temple
 Honokalani Village
 Honokowai Petroglyphs
 Iao Theater
 Ka'ahumanu Church
 Kahikinui House
 Kaiapuni Ho'a
 Kaimupe'elua Heiau
 Kalepolepo Fishpond
 Kaluakakalioa Cave
 Kaluanui Heiau Complex

Island of Maui (continued)

Kama'ole House Site
 Kauhihale Complex
 Ka'umi'umiua Heiau
 Keone'oio Archaeological District
 Kilolani Congregational Church
 Kipahulu Historic District
 Kipapa Archaeological District
 Lahaina Historic District (60 Sites)
 Lo'alo'a Heiau
 Luala'ilua Cave
 Luala'ilua Heiau
 Luala'ilua Terrace Complex
 Lufkin Residence
 Makawao Union Church
 Maui Jinsha Mission
 Molohai heiau
 Paia School
 Papakea heiau
 Papakea Petroglyphs
 Pi'ilanihale Heiau
 Schools:
 Wailuku School
 Puunene School
 Henry Perrine Baldwin HS
 Paia School
 Keanae School
 Kaupo School
 Wahene Platform
 Waiale Bridge
 Waihe'e Church
 Waikapu Stone Church
 Wailuku Civic Center
 Wananalua Cong. Church

Island of Molokai

Ahina Heiau
 Fishponds (mostly submerged):
 Fishponds (numerous)
 Mikiawa Fishpond
 Weheleau'ulu Fishpond
 Halemahana Fishpond
 Ualapu'e Fishpond
 Kalua'aha Fishpond
 Mahilika Fishpond
 Panahana Fishpond
 Ipukaiole Fishpond
 Kainalu Fishpond
 Kahinapohaku Fishpond
 Honouliwai Fishtrap
 Hokukano-'Ualapu'e Complex
 Keawanui Fishpond
 Kukui Heiau
 Pu'u 'Olelo Heiau
 Kaluakapi'ioho Heiau
 Kahokukano Heiau
 Pakui Heiau
 Kalauonakukui Heiau
 'Ualapu'e Fishpond
 'Ili'ili'opae Heiau
 Kalua'aha Church
 Kilohana School
 St. Joseph Catholic Church

Island of Lanai

Kealiakapu Complex
 Pu'upehe Platform

Island of Kahoolawe

Kaho'olawe Archaeological District

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

3.2.6

LAND IN HAWAII OWNED BY SELECTED LARGE LANDOWNERS

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

¹ Based on area of 4,110,966 acres.

² As of July 1. Formerly known as the Bernice P. Bishop Estate.

NA Not available.

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

3.2.7

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

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

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

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

² Applicants may appear on waiting lists for more than one type of property; if so, they are counted more than once. The Department estimates the unduplicated Statewide total number of applicants at about 19,641. Data are subject to audit.

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

3.2.8

SINGLE FAMILY HOME AND CONDOMINIUM SALES BY AREA, MAUI COUNTY

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

N/A: Not applicable.

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

3.2.9

FOREST ACREAGE, MAUI COUNTY

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

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.