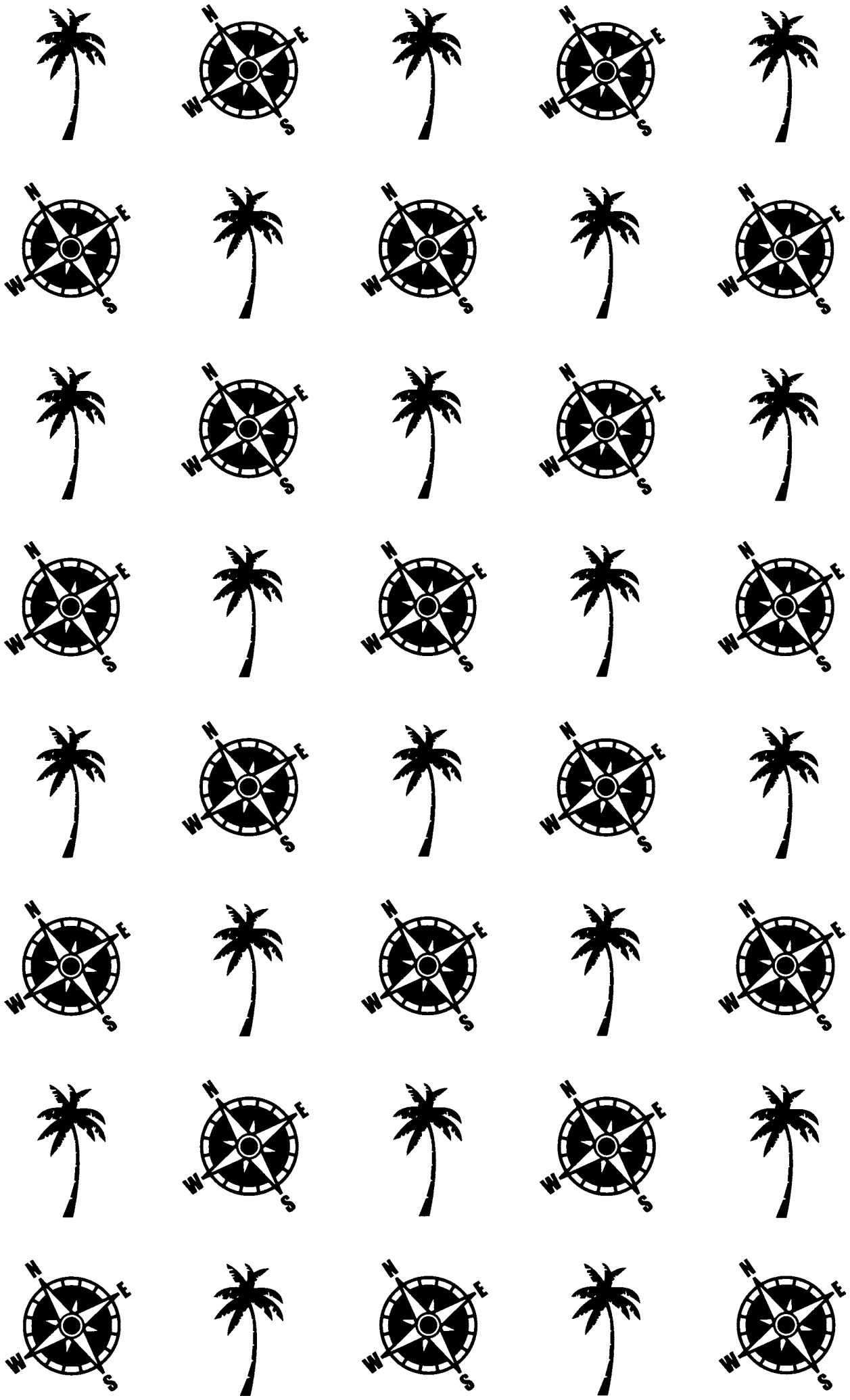


Geography & Land Use



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 81.3 degrees in the warmest month at Kahului Airport, Maui, to 73.4 degrees in the coolest month. Rainfall varies greatly. Annual averages for rainfall in the county range from 81 inches in Hana, to 26 inches in Molokai, to 15 inches in Lahaina.

The State Land Use Commission has zoned 27,981 acres in Maui County as urban, 311,601 as conservation, 402,992 as agricultural and 8,326 as rural.

In the State of Hawaii, land ownership data indicates that the federal government owns 3.9 percent of all land, the state and counties own 25.7 percent, and private owners (chiefly large estates) have 70.3 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 waterfalls in each 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 ISLAND

	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	2004												Departure from Normal	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Annual
RAINFALL¹														
Maui														
Haleakalala Ranger Station	7.49	9.05	16.09	8.58A	6.32	0.48	1.22	7.35A	1.99	2.11	6.26	3.06	70.00	M
Hana Airport	6.88	8.70	37.28	5.13	9.21	5.30	3.04	8.23	3.73	5.79	3.80	4.27	101.36	21.46
Kahului Airport (WSO)	7.89	3.08	8.54	2.47	2.24	0.04	0.05	0.36	0.02	0.00X	0.00T	1.48	26.17X	M
Kapalua-West Maui Airport	15.37	5.40	10.84	4.40	3.08	0.89	0.47	0.81	0.58	1.73	2.82	2.04	48.43	22.26
Keanae	10.50A	10.00	23.20A	23.00	24.00	12.50	8.50	10.50A	9.50	10.80	23.50A	0.00A	166.00	M
Kihei	9.07	3.81	4.42	1.05	4.00	0.00	0.00	0.53	0.00	1.09	1.19	1.22	26.38	13.75
Kula Hospital	10.45	6.00	4.85	4.59	3.96	3.78	1.01	1.13	3.98	10.45	5.14	1.64	56.98	28.31
Makena Golf Course	7.12	3.17	3.62	5.05	2.43	0.06	0.93	1.35	2.52	1.69	1.72	0.31	29.97	16.37
Puu Kukui	34.20S	48.68S	66.41A	51.17	30.54	41.52A	12.46	27.03A	11.03A	18.06A	21.09A	15.54	378.54	M
Waikamoi	10.50A	10.00	0.00A	20.90A	18.20	10.90	31.20	0.00A	10.40A	7.00	14.80A	0.00A	133.90	M
Waihee	16.03	15.76	10.13	6.20	7.21	4.63	3.55	13.86	4.55	9.40	10.45	4.85	106.62	35.71
Molokai														
Kalaupapa	9.68A	1.60	15.51A	5.72	4.56	1.71	1.05	4.25A	2.89X	2.69	3.59A	3.81	57.06X	M
Molokai Airport	13.56	0.54	6.22	0.63	2.09	0.18	0.03	M	M	M	M	M	M	M
Lanai														
Lanai Airport	6.83	2.31	3.23	0.74	2.77	0.67	0.08	1.27	1.08	2.01	3.60	1.51	26.1	9.66
Lanai City	17.96A	18.92A	14.77A	4.20A	4.21A	3.03A	0.47A	1.66A	0.32A	4.36A	5.50A	3.00A	78.4	M

A: Accumulated amount. May include data from a previous month.

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

S: Precipitation amount is continuing to be accumulated. Total will be included in a subsequent monthly or yearly value.

T: Trace precipitation.

X: Monthly means or totals based on incomplete time series. 1 to 9 days are missing.

¹ Precipitation for month.

3.1.7

CONTINUED

2004

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
TEMPERATURE²													
Maui													
Haleakalala Ranger Station	53.0X	53.9X	51.2X	51.2X	55.6X	56.3X	56.7X	58.8	55.7X	55.0	54.4X	51.0X	54.4X
Hana Airport	71.7X	73.1X	71.6X	M	74.5X	75.5X	77.0X	77.3X	77.3X	76.9X	75.6	72.8X	MX
Kahului Airport	71.9	73.4	72.6	73.7	76.3	78.8	79.5	81.3	80.0	79.4	76.3	73.2	76.4
Kailua	64.3X	66.1	64.1X	65.6	66.6X	68.3	69.2	70.4X	69.8	69.4	M	64.2X	MX
Kapalua-West Maui Airport	72.7	73.7	71.6	73.5	75.9	77.4	79.0	80.4	80.2	79.1	77.4	78.6	76.6
Kula Branch Stn.	62.0	62.9	62.2	62.6	65.0	66.0	66.9	68.6	68.3	67.4X	64.7	62.5	64.9X
Kula Hospital	61.5X	62.7X	61.4X	62.2X	64.7	65.2	66.1	67.7	67.2X	61.9X	64.5X	61.6	63.9X
Makena Golf Course	72.4X	73.5X	72.6X	73.6X	76.2X	77.5X	78.5X	79.9	78.8X	78.3	76.7X	73.6	76.0X
Oheo	73.3	74.7X	73.3X	74.3	76.1	76.5	77.8X	78.3	78.3X	77.8X	75.6	74.5X	75.9X
Molokai													
Kalaupapa	M	M	72.4X	73.3X	M	M	M	M	M	M	M	74.1X	MX
Molokai Airport	70.9	73.3	71.4	73.4X	75.1	77.4X	78.3	M	M	M	M	M	M
Lanai													
Lanai Airport	68.5	70.3X	69.5X	71.4	73.0	73.4	76.1	76.3	75.1X	73.8	72.1	69.5X	72.4X
Lanai City	M	M	66.9X	68.3X	M	71.6X	M	M	M	M	M	M	M

² Average temperature for month.

A: Accumulated amount. May include data from a previous month.

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

X: Monthly means or totals based on incomplete time series. 1 to 9 days 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*, 2004.

3.1.8

ANNUAL RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS, MAUI COUNTY

Station	1998	1999	2000	2001	2002	2003	2004
ANNUAL RAINFALL							
Maui							
Haleakala Ranger Station	34.16	52.24	37.30	40.62	42.56	32.60	70.00
Hana Airport	56.44	60.44	86.85	48.37	66.47	66.93	101.36
Kahului Airport (WSO)	6.76	9.66	9.72	10.53	15.07	13.83	26.17X
Kapalua-West Maui Airport	19.20	21.66	18.92	20.61	27.98	27.07	48.43
Keanae	M	79.90M	94.50M	82.10	96.23	151.90	166.00
Kihei	4.47	7.13	3.26	6.20	13.33	11.58	26.38
Kula Branch Stn.	10.12	12.38	11.89	15.83	30.31	25.67	31.57
Lahaina	1.86	2.62	6.01	NA	NA	NA	NA
Makena Golf Course	5.58	10.16	7.47	7.01	18.24	M	29.97
Puu Kukui	446.45	379.88	320.67M	307.26	242.54	M	378.54
Wailuku	17.16	18.57	16.14	24.58	M	NA	NA
Molokai							
Kalaupapa	M	30.81	29.62	M	39.78	40.03	57.06X
Molokai Airport	12.66	13.52	11.38	11.06	22.95	24.38	M
Lanai							
Lanai Airport	10.69	5.28	10.60	17.58	26.49	M	26.1
Lanai City	19.85	15.64	18.39	M	42.58	M	78.4
AVERAGE ANNUAL TEMPERATURE							
Maui							
Haleakala Ranger Station	53.7	53.8M	54.9	54.95	55.6M	46.2X	54.4X
Hana Airport	74.0M	M	M	M	74.2M	M	MX
Kahului Airport (WSO)	75.1	75.1	75.3	75.7	75.4	76.4	76.4
Kapalua-West Maui Airport	74.3M	74.5M	75.0M	75.3M	75.4	76.0X	76.6
Kula Branch Stn.	63.2M	62.2M	63.8M	64.2M	64.0	64.5	64.9X
Kula Hospital	62.6M	62.8M	M	63.8M	63.4M	63.9	63.9X
Lahaina ¹	M	M	M	NA	NA	NA	NA
Makena Golf Course	74.4M	74.8M	75.4M	75.7M	75.2M	MX	76.0X
Molokai							
Molokai Airport	73.9	73.8	M	M	74.9M	68.6X	M
Lanai							
Lanai Airport	71.0M	70.9M	71.8M	72.0M	71.7M	M	72.4X
Lanai City	M	68.4M	M	M	M	M	M

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

X: Monthly means or totals based on incomplete time series. 1 to 9 days are missing.

NA: Not available.

¹ Lahaina station no longer in service as of 2001.

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*

	1999	2000	2001	2002	2003	2004	2005
Improved Residential							
Land	1,568,983	1,629,787	1,778,535	2,105,914	2,229,559	2,760,153	3,802,950
Improvements	817,079	883,993	980,638	1,147,963	1,221,288	1,184,331	1,398,612
Unimproved Residential							
Land	282,747	327,362	312,704	291,068	295,995	339,207	487,817
Improvements	1,872	122	2,373	348	10,245	2,710	1,501
Homeowner							
Land	2,225,415	2,383,931	2,645,650	3,068,710	3,448,058	4,587,953	6,163,343
Improvements	2,143,098	2,253,350	2,494,417	2,753,442	3,024,256	3,353,718	3,808,206
Hotel/Resort							
Land	1,066,582	1,066,560	1,118,337	1,212,092	1,178,686	1,391,638	1,490,422
Improvements	2,681,250	2,841,594	3,173,969	3,424,136	3,739,235	4,522,441	4,835,251
Apartment							
Land	496,335	570,516	576,269	660,144	630,001	677,004	922,833
Improvements	1,096,639	1,220,117	1,429,635	1,677,822	1,895,848	1,847,497	2,441,722
Time Share¹							
Land							107,923
Improvements							470,813
Commercial							
Land	611,007	631,941	672,344	698,764	675,803	756,533	951,946
Improvements	391,668	393,739	471,205	492,228	509,617	553,713	603,709
Industrial							
Land	577,667	593,621	607,145	600,716	539,019	556,447	688,330
Improvements	411,845	416,315	439,790	471,526	468,954	483,615	501,882
Agricultural							
Land	894,855	944,608	1,024,089	1,128,381	1,152,951	1,474,200	2,171,437
Improvements	363,055	379,565	422,948	450,050	500,406	548,376	656,311
Conservation							
Land	271,170	278,967	289,466	340,554	328,518	306,918	305,110
Improvements	27,759	29,723	29,829	30,985	33,323	36,788	38,659
TOTAL²	15,929,026	16,845,811	18,469,342	20,554,842	21,881,760	25,383,244	31,848,774

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

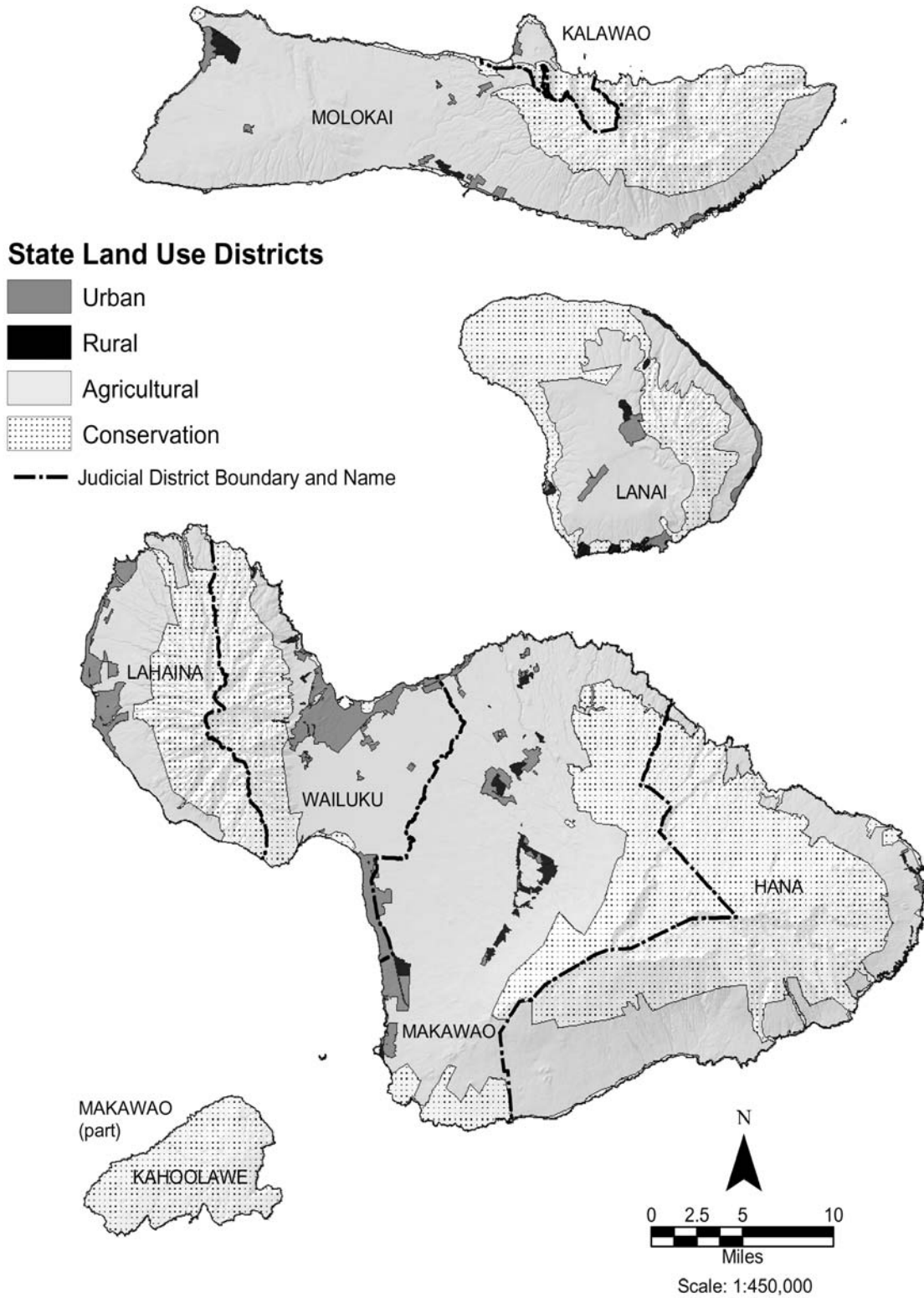
¹ New category as of 2005.

² Total maybe different than sum due to rounding.

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

3.2.2

LAND USE DISTRICTS, MAUI COUNTY



SOURCE: State of Hawaii, Office of Planning, Hawaii Statewide GIS Program.

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, 2004					
Maui	465,800	22,185	194,836	244,726	4,053
Lanai	90,500	3,257	38,197	46,639	2,407
Molokai	165,800	2,539	49,768	111,627	1,866
Kahoolawe	28,800	—	28,800	—	—
Hawaii	2,573,400	53,722	1,304,347	1,214,527	804
Oahu	386,188	100,730	156,619	128,839	—
Kauai	353,900	14,558	198,769	139,320	1,253
Niihau	45,700	—	—	45,700	—
Kaula and Lehua	400	—	400	—	—
Other Islands ³	1,900	—	1,900	—	—
State Total	4,112,388	196,991	1,973,636	1,931,378	10,383

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

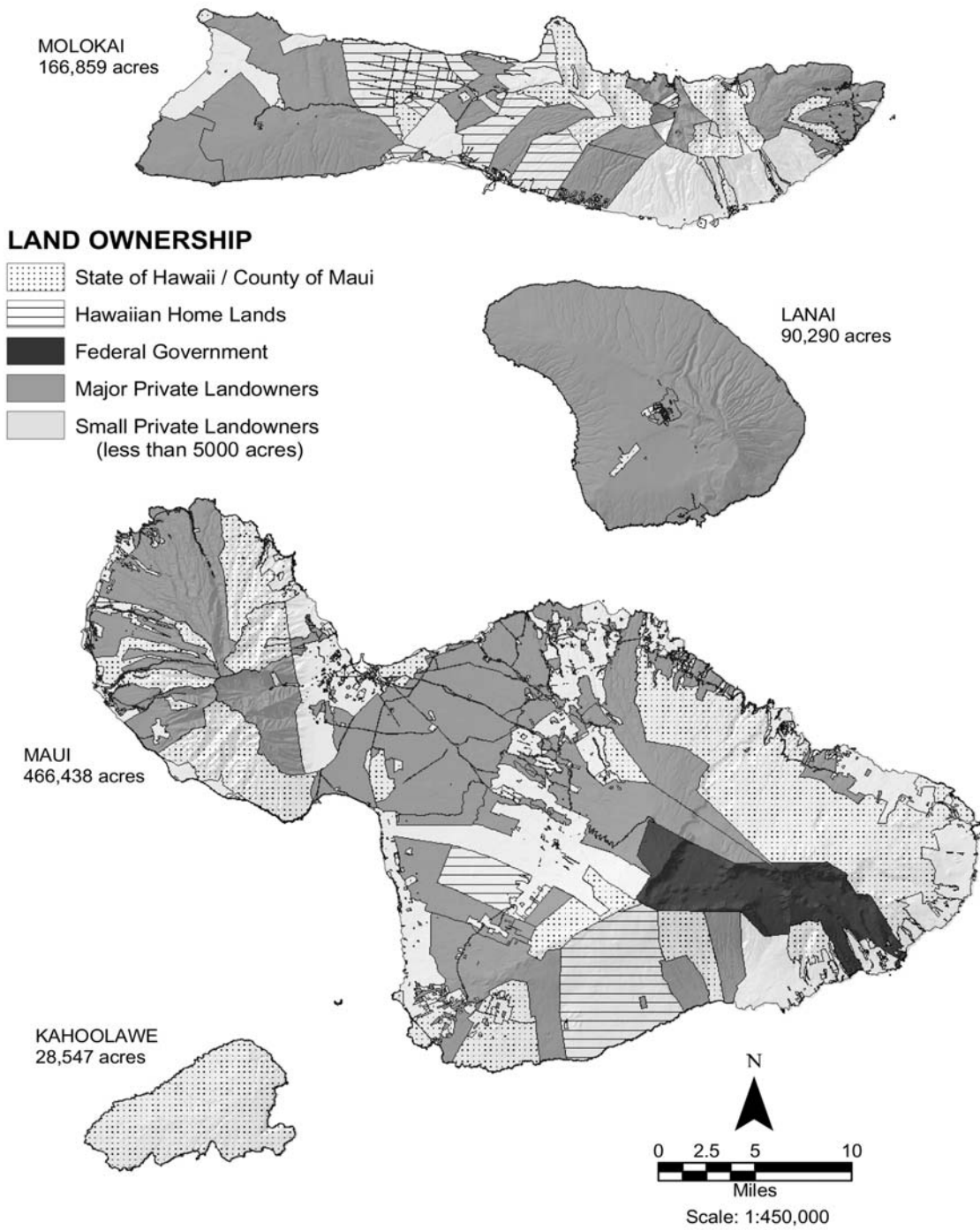
² These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census.

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: State of Hawaii, Office of Planning, Hawaii Statewide GIS Program.

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
Hamoia 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'umia Heiau
Keone'oio Archaeological Dist.
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 Fishpondh
 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 Dist.

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	2000	2001	2002	2003
Eight Large Landowners	976,693	NA	954,207	822,606
Percent of Total Land Area ¹	23.8	NA	23.2	20.0
Kamehameha Schools ²	366,042	366,458	365,794	365,760
Richard S. Smart (Parker Ranch)	136,332	136,686	135,312	134,446
Castle and Cooke, Inc.	95,200	NA	94,760	94,737
Dole Food Company, Inc.	28,515	NA	28,507	28,472
Samuel M. Damon Estate	121,360	121,360	121,357	5,336 ³
Alexander and Baldwin, Inc.	91,100	91,000	90,900	90,000
C. Brewer and Company, Ltd.	75,744	71,188	55,377	44,210
James Campbell Estate	62,400	62,200	62,200	59,645

NA: Not available.

¹ Based on area of 4,110,966 acres.

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

³ A significant amount of land was conveyed to various entities in 2003.

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, 2004	Maui	Molokai	Lanai	Hawaii	Kauai	Oahu	State Total
Acreage ¹	202,658	117,313	31,688	50	25,769	7,273	20,565
Homestead leases ²	7,418	2,091	776	-	835	3,191	525
Residential	5,934	1,306	634	-	387	3,131	476
Agricultural	1,096	502	66	-	421	60	47
Pastoral	388	283	76	-	27	-	2
Applicant waiting list ²	34,327	12,360	6,680	70	1,686	10,049	3,482
Residential	17,989	5,031	2,995	70	687	7,750	1,456
Agricultural	14,072	5,834	3,295	-	844	2,299	1,800
Pastoral	2,266	1,495	390	-	155	-	226

¹ Data based on latest figures from the trust resolution project. Acreages are rounded to the nearest acre and include 14,615 acres of new lands from the 16,518-acre land transfer from the Public Land Trust and 483 acres from the Hawaiian Home Lands Recovery Act. 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 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. DHHL also purchased 57.160 acres at Waiehu Kou, Maui, and 60.433 acres at Kealakehe, Hawaii.

² Residence, agriculture, or pasture. Since applicants may apply for two types of leases, duplications occur. The Department estimates the unduplicated Statewide total number of applicants at about 20,000.

Data are subject to audit.

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

3.2.8
DISPOSITION OF STATE LANDS, MAUI COUNTY
2004

Document Number	Permittee or Grantee Name	Location	Acres	Use	Payment
Revocable Permits					
RP7196	Asso. of Apt. Owners of Mana Kai-Maui	Wailuku	0.43	Parking	\$1,440
RP7368	Alexander & Baldwin, Inc.	Wailuku	778.37	Sugarcane	\$55,560
RP7382	Maui Pineapple Company, Ltd.	Lahaina	153.39	Agriculture	\$14,352
RP7394	Moses K. Kauhaahaa, IV	Wailuku	0.32	Agriculture	\$840
Total Island of Maui:			932.51		\$72,192
General Leases & Term Easements					
GL5639	Assn. of Apt. Owners of Kanai A Nalu	Wailuku	0.01	Seawall	\$2,300
GL5684	Linda Kay Goy	Makawao	0.103	Water	\$1,400
GL5686	George H. Tanji, Trustee of the	Makawao	0.057	Utility	\$1,300
Total Island of Maui:			0.166		\$5,000
Executive Orders - Set Asides					
4033	County of Maui	Lahaina,	4.02	Housing	n/a
4050	Department of Transportation	Waiehu	0.273	Highway	n/a
4051	Department of Transportation	Waikapu	64.731	Roadway	n/a
4087	County of Maui	Waiohuli	0.398	Recreation	n/a
4088	County of Maui	Lahaina	3.29	Park	n/a
Total Island of Maui:			72.716		n/a
Perpetual Easements					
LOD28626	Maui County Department of Water Supply	Wailuku	0.022	Utility	\$0
LOD28685	Randall S. Sohler	Makawao	0.07	Access & Utility	\$156
LOD28686	Maui County Department of Water Supply	Lahaina	0.159	Water	\$0
LOD28690	Maui County Department of Water Supply	Wailuku	0.11	Utility	\$0
LOD28700	Maui County Department of Transportation	Wailuku	0.03	Drainage	\$0
LOD28704	County of Maui	Makawao	0.7	Access & Utility	\$0
Total Island of Maui:			1.05		\$156
LOD28613	David W. Singer	Molokai	0.18	Access & Utility	\$0
LOD28703	Christine Feeter	Molokai	0.03	Access & Utility	\$0
LOD28742	Christine Feeter	Molokai	0.03	Access & Utility	\$1,850
Total Island of Molokai			0.23		\$1,850
Dispositions to Public Utilities					
LOD28473	Maui Electric	Lahaina	11.91	Utility	\$1,100
LOD28477	Maui Electric & Verizon Hawaii	Wailuku	3.68	Utility	\$1,900
LOD28479	Maui Electric & Verizon Hawaii	Makawao	0.0	Utility	\$132
Total Island of Maui:			15.6		\$3,132
Fee Conveyances					
LOD28514	Maui Land & Pineapple Co	Lahaina	223	Land Exchange	
LOD28662	County of Maui	Wailuku	0.089	Highway	\$1
LOD28706	Edward T. Taylor	Makawao	0.598	Sale of Remnant	\$3,050
LPG15988	Dept. of Hawaiian Home Lands	Wailuku	0.68	Access	\$3,600
LPG15991	Maui Land & Pineapple Co	Lahaina	223	Land Exchange	
Total Island of Maui:			447.367		\$6,651
LOD28672	County of Maui	Molokai	0.187	Highway	\$1
Total Island of Molokai			0.187		\$1
Quitclaims of Interest					
LPG15984	Maui County Dept. of Public Works	Molokai	0.111	Highway	\$0
Total Island of Molokai			0.111		\$0

¹ Annual Payments

² May be annual payments or one time payment.

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

3.2.9

SINGLE FAMILY HOME AND CONDOMINIUM SALES BY AREA, MAUI COUNTY

Area	Number of Sales		Average Sales Price		Median Sales Price		Total Dollar Volume	
	2004 Sales	% Chg Last Yr	2004 Average	% Chg Last Yr	2004 Median	% Chg Last Yr	2004 Volume	% Chg Last Yr
SINGLE FAMILY HOMES								
Central	313	27%	\$461,597	23%	\$439,000	29%	\$144,479,954	56%
Haiku	103	34%	\$751,378	13%	\$695,000	12%	\$77,391,910	52%
Hana	11	10%	\$661,909	22%	\$620,000	46%	\$7,281,000	35%
Kaanapali	24	-40%	\$1,355,792	26%	\$1,285,000	33%	\$32,539,000	-24%
Kahakuloa	4	300%	\$955,000	-17%	\$997,500	-13%	\$3,820,000	232%
Kapalua	8	-11%	\$2,682,500	-23%	\$2,200,000	-24%	\$21,460,000	-31%
Kihei	230	-49%	\$630,327	39%	\$549,000	34%	\$144,975,230	-29%
Kipahulu	1	0%	\$548,000	-63%	\$548,000	-63%	\$548,000	-63%
Kula/Ulupalakua/Kanaio	98	-25%	\$762,271	12%	\$642,000	18%	\$74,702,600	-15%
Lahaina	66	78%	\$966,697	72%	\$625,000	20%	\$63,802,000	207%
Lanai	18	13%	\$360,667	83%	\$285,000	56%	\$6,492,000	106%
Maalaea	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Makawao/Olinda/Haliimaile	88	0%	\$571,028	35%	\$499,500	28%	\$50,250,500	35%
Maui Meadows	40	11%	\$1,016,875	24%	\$935,000	20%	\$40,675,000	38%
Molokai	7	75%	\$648,143	-38%	\$400,000	-59%	\$4,537,000	9%
Nahiku	1	0%	\$355,000	-55%	\$355,000	-55%	\$355,000	-55%
Napili/Kahana/Honokowai	67	-7%	\$1,021,199	73%	\$765,000	38%	\$68,420,310	61%
Olowalu	2	N/A	\$1,832,500	N/A	\$1,832,500	N/A	\$3,665,000	N/A
Pukalani	73	-11%	\$538,490	20%	\$527,500	24%	\$39,309,798	7%
Sprecklesville/Paia/Kuau	38	-42%	\$868,566	32%	\$570,000	46%	\$33,005,500	-23%
Wailea/Makena	29	-44%	\$2,549,748	33%	\$1,550,000	20%	\$73,942,700	-26%
Maui Summary:	1,221	-14%	\$730,264	24%	\$550,000	25%	\$891,652,502	6%
CONDOMINIUMS								
Central	171	18%	\$182,737	29%	\$170,000	21%	\$31,247,950	52%
Haiku	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Hana	5	25%	\$167,900	23%	\$163,000	23%	\$839,500	54%
Kaanapali	132	-1%	\$745,255	12%	\$660,000	22%	\$98,373,624	11%
Kapalua	85	39%	\$1,047,060	-1%	\$760,000	11%	\$89,000,100	38%
Kihei	825	-4%	\$299,381	36%	\$269,000	42%	\$246,989,219	31%
Kula/Ulupalakua/Kanaio	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Lahaina	44	0%	\$371,802	-15%	\$295,000	55%	\$16,359,300	-15%
Lanai	4	0%	\$1,720,750	63%	\$1,557,500	69%	\$6,883,000	63%
Maalaea	76	21%	\$368,826	30%	\$357,500	25%	\$28,030,800	57%
Makawao/Olinda/Haliimaile	1	N/A	\$195,000	N/A	\$195,000	N/A	\$195,000	N/A
Molokai	4	N/A	\$201,839	N/A	\$177,500	N/A	\$807,355	N/A
Napili/Kahana/Honokowai	430	-13%	\$383,724	30%	\$360,000	31%	\$165,001,443	14%
Pukalani	2	-33%	\$354,500	-7%	\$354,500	-8%	\$709,000	-38%
Sprecklesville/Paia/	4	0%	\$402,500	17%	\$255,000	56%	\$1,610,000	17%
Wailea/Makena	150	-19%	\$1,074,007	29%	\$737,500	32%	\$161,101,000	4%
Maui Summary:	1,933	-3%	\$438,255	24%	\$310,000	28%	\$847,147,291	20%

N/A: Not applicable.

SOURCE: Maui Board of Realtors, *MLS Resale Data, December 2004.*

3.2.10

LAND SALES BY AREA, MAUI COUNTY

Area	Number of Sales		Average Sales Price		Median Sales Price		Total Dollar Volume	
	2004 Sales	% Chg Last Yr	2004 Average	% Chg Last Yr	2004 Median	% Chg Last Yr	2004 Volume	% Chg Last Yr
LAND SALES								
Central	63	-31%	\$422,850	48%	\$370,000	26%	\$26,639,574	0.02
Haiku	25	-47%	\$459,400	-9%	\$400,000	5%	\$11,485,000	-51%
Hana	14	27%	\$427,214	6%	\$378,000	15%	\$5,981,000	34%
Honokohau	1	N/A	\$495,000	N/A	\$495,000	N/A	\$495,000	N/A
Kaanapali	34	-43%	\$624,485	44%	\$625,000	54%	\$21,232,500	-18%
Kahakuloa	2	-75%	\$398,000	44%	\$398,000	45%	\$796,000	-64%
Kapalua	33	267%	\$1,690,905	18%	\$1,520,000	69%	\$55,799,875	333%
Kaupo	1	-67%	\$145,000	-85%	\$145,000	-85%	\$145,000	-95%
Kihei	81	179%	\$408,314	-23%	\$285,000	4%	\$33,073,470	115%
Kula/Ulupalakua/Kanaio	82	41%	\$379,304	-25%	\$216,250	-46%	\$31,102,950	6%
Lahaina	24	20%	\$822,333	20%	\$825,000	70%	\$19,736,000	44%
Lanai	4	0%	\$591,875	-41%	\$391,250	-64%	\$2,367,500	-41%
Maalaea	0	-100%	\$0	-100%	\$0	-100%	\$0	100%
Makawao/Olinda/Haliimaile	17	-23%	\$474,412	54%	\$385,000	36%	\$8,065,000	19%
Maui Meadows	3	50%	\$721,667	77%	\$550,000	35%	\$2,165,000	166%
Molokai	14	8%	\$271,286	25%	\$180,000	16%	\$3,798,000	34%
Nahiku	2	0%	\$269,950	-20%	\$269,950	-20%	\$539,900	-20%
Napili/Kahana/Honokowai	12	-48%	\$1,014,833	10%	\$420,000	76%	\$12,178,000	-42%
Olowalu	2	N/A	\$872,500	N/A	\$872,500	N/A	\$1,745,000	N/A
Pukalani	11	-21%	\$383,182	80%	\$345,000	57%	\$4,215,000	42%
Sprecklesville/Paia/	6	-14%	\$545,889	24%	\$515,785	1%	\$3,275,333	6%
Wailea/Makena	48	109%	\$1,233,156	36%	\$850,000	56%	\$59,191,500	184%
Maui Summary:	479	7%	\$634,711	27%	\$400,000	21%	\$304,026,602	36%

N/A: Not applicable.

SOURCE: Maui Board of Realtors, *MLS Resale Data, December 2004*.

3.2.11

**FOREST AND NATURAL AREA ACREAGE,
BY ISLAND JUNE 30, 2004**

Island	Conservation district forest land		Natural areas ³	
	Forest reserve land ¹	Private forest land ²	Number of areas	Acres
2004				
State total	643,134	328,742	19	109,164
Hawaii	438,416	106,745	8	82,535
Maui	73,227	53,180	4	17,123
Kahoolawe	-	-	-	-
Lanai	-	6,150	-	-
Molokai	16,030	-	2	2,950
Oahu	32,462	88,817	3	1,770
Kauai	82,999	73,850	2	4,786
Niihau	-	-	-	-

NOTE: data have remain constant since 1996.

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.

³ Includes Waimanu Research Reserve (3,600 acres) and Alakai Wilderness Preserve (9,939 acres).

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