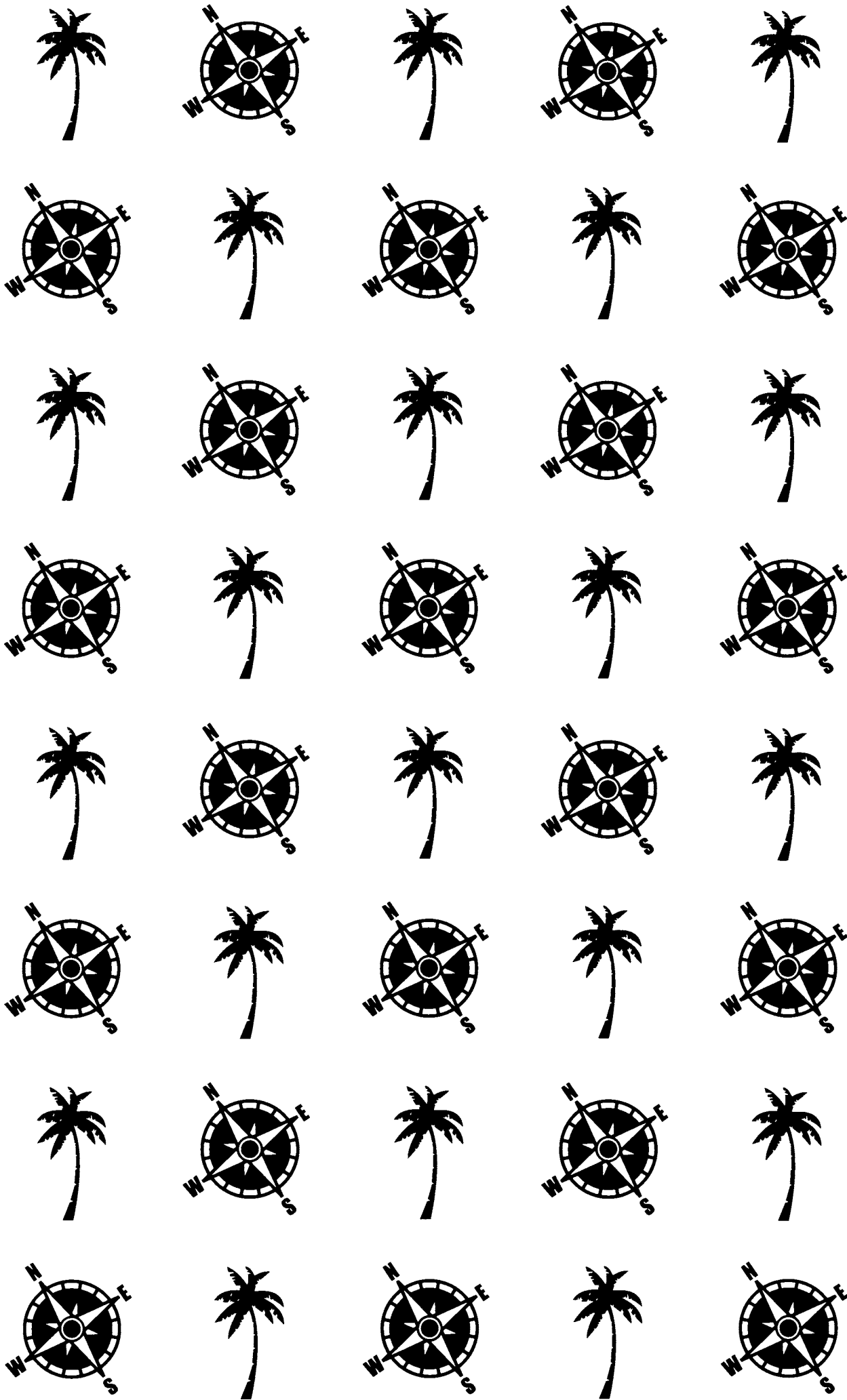


# Geography & Land Use



---

### 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 83.8 degrees in the warmest month at Kahului Airport, Maui, to 67.4 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 28,075 acres in Maui County as urban, 311,601 as conservation, 402,898 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 <sup>1</sup>	
	Total	Land <sup>2</sup>	Inland Water <sup>3</sup>	Total	Land
<b>State Total</b>	6,470.8	6,425.2	45.6	4,141,312	4,112,128
<b>Counties<sup>4</sup></b>					
Hawaii	4,035.2	4,034.2	1.0	2,582,528	2,581,888
Maui	1,171.0	1,161.6	9.4	749,440	743,424
Kalawao	14.3	13.3	1.0	9,152	8,512
Honolulu <sup>5</sup>	620.5	596.3	24.2	397,120	381,632
Kauai <sup>5</sup>	629.8	619.8	10.0	403,072	396,672
<b>Islands<sup>4</sup></b>					
Hawaii	4,035.2	4,034.2	1.0	2,582,528	2,581,888
Maui <sup>6</sup>	734.5	728.6	5.9	470,080	466,304
Kahoolawe	45.9	45.0	0.9	29,376	28,800
Lanai	141.2	140.4	0.8	90,368	89,856
Molokai	263.7	260.9	2.8	168,768	166,976
Oahu	617.6	593.6	24.0	395,264	379,904
Kauai	558.2	549.4	8.8	357,248	351,616
Niihau <sup>7</sup>	71.1	70.0	1.1	45,504	44,800
Kaula	0.4	0.4	–	256	256

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

<sup>2</sup> Dry land and land temporarily or partially covered by water, as marshland, swamps, etc. streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

<sup>3</sup> Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water and islands having less than 40 acres of area.

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

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

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

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

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

### 3.1.2

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

	GENERAL COASTLINE <sup>1</sup>		TIDAL SHORELINE <sup>2</sup>	
	Statute Miles	Kilometers <sup>3</sup>	Statute Miles	Kilometers
<b>State Total</b>	750	1,207	1,052	1,693
<b>Counties</b>				
Hawaii	266	428	313	504
Maui and Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
<b>Islands<sup>4</sup></b>				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
<b>Northwestern Hawaiian Islands<sup>5</sup></b>	<b>25</b>	<b>40</b>	<b>25</b>	<b>40</b>
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

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

<sup>2</sup> Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

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

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

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

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

### 3.1.3

## MAJOR NAMED WATERFALLS, MAUI COUNTY

Waterfall <sup>1</sup>	Cascade Height (feet)	Horizontal Distance (feet)	Average Discharge (million gal/day)
<b>Maui</b>			
Honokohau	1,120	500	26.6
Waihiumalu	400	150	
Waimoku	40	50	37.1
<b>Molokai</b>			
Kahiwa	1,750	1,000	
Papalaua	1,200	500	
Wailele	500	150	
Haloku	500	200	
Hipuapua	500	300	
Olupena	300	150	
Moaula	250	200	19.7

<sup>1</sup> 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*

---

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

### 3.1.4

CONTINUED

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

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

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

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

## 3.1.5

## MISCELLANEOUS GEOGRAPHIC STATISTICS, BY 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 <sup>1</sup>	33	4	–	–	1	14	–	11	3
Miles from Coast of Most Remote Point	28.5	28.5	10.6	2.4	5.2	3.9	10.6	10.8	2.4
Percent of Area Within 5 Miles of Coast	48.6	30.0	76.1	100.0	100.0	100.0	79.0	65.0	100.0
Percent of Area with Elevation of Less than 500 Feet	20.8	12.0	24.9	38.9	24.8	37.3	45.3	35.6	78.2
Percent of Area with Elevation of 2000 Feet or More	50.9	68.4	41.4	0.0	6.3	17.8	4.6	24.0	0.0
Approximate Mean Altitude (feet)	3030	3950	2390	600	1140	1150	860	1380	530
Percent of Area with Slope Less Than 10 Percent	63.5	76.0	38.5	60.0	61.0	53.0	42.5	33.5	68.0
Percent of Area with Slope 20 Percent or More	17.0	4.0	36.0	9.0	16.0	26.0	45.5	50.5	12.5

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

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



3.1.7

MONTHLY RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS  
IN MAUI COUNTY

Station	2005												Departure from Normal	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Annual
<b>RAINFALL<sup>1</sup></b>														
<b>Maui</b>														
Haleakala Ranger Station	5.78	4.63	7.62	2.95	0.82	4.69	1.71	1.33	7.33	6.81	1.44	0.46	45.57	-7.55
Hana Airport	3.81	3.94	15.09	4.82	4.09	M	M	M	M	M	M	M	M	M
Kahului Airport (WSO)	4.91	1.99	4.24	0.30	0.21	0.05	1.23	0.62	M	0.30	1.76	0.14	M	M
Kapalua-West Maui Airport	M	1.68	6.39	2.27	0.71	1.30	1.90	0.53	2.39	2.59	2.66	0.45	M	M
Keanae	7.00A	10.00	26.00	22.40	8.40A	5.20	18.80	17.00A	24.00	22.50	13.00	0.00A	174.30	M
Kihei	4.04	0.66	2.62	0.10	0.15	0.18	0.10	0.00	0.85	0.00	2.15	0.03	10.88	-1.75
Kuiaha	8.43	5.41	24.37	8.64	2.15	6.39	8.02	4.77	13.84	10.92	7.53	2.67	103.14	
Kula Hospital	7.93	1.53	5.48	0.52	7.34	1.87	3.93	0.73	0.24	1.00	1.39	0.09	32.05	3.38
Makena Golf Course	4.84	1.04	2.64	0.16	1.61	1.30	0.60	0.93	0.78	0.22	1.30	0.00	15.42	1.82
Oheo	9.69	4.44	8.23	5.05	3.38	8.77	10.22	3.92	11.54	11.00	7.77	1.85	85.86	2.52
Puu Kukui	18.98A	15.57	37.66	42.31	13.26A	28.03	16.80	19.36A	47.29	43.64	30.63	6.66	320.19	M
Waikamoi	4.40A	5.00	24.00	12.40	7.20A	13.00	18.20	10.90A	22.80	17.60	22.50	0.00A	158.00	M
Waihee Valley	5.95	2.36	13.98	1.48	2.47	1.43	2.08	1.54	3.61	2.55	1.92	0.55	39.92	6.78
<b>Molokai</b>														
Kalaupapa	7.87A	5.15	15.69	2.50	2.53	1.10	2.59	1.24A	4.10	2.73	3.65	0.69	49.84	M
Kaunakakai	8.14	1.32	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.25	3.75	1.10	20.55	-4.91
<b>Lanai</b>														
Lanai Airport	M	M	3.16	0.11	0.51	M	M	M	M	M	4.80	0.95	M	M
Lanai City	10.44A	5.82	4.71	0.59	3.40A	1.07	2.30A	1.68A	2.20	0.63	6.58A	0.52	39.94	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.

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

### 3.1.7

CONTINUED

2005

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>TEMPERATURE<sup>2</sup></b>													
<b>Maui</b>													
Haleakala Ranger Station	52.1X	52.0X	52.5X	53.1X	56.2X	54.9X	57.3X	57.0	56.7X	54.3X	54.4X	54.9	54.6X
Hana Airport	72.2	81.8	70.7	73.0	75.2X	M	M	M	M	M	M	M	M
Kahului Airport	73.0	72.2	71.3	74.2	77.0	78.3	79.2	78.6	79.9	77.5	75.5	73.5	75.9
Kailua	64.3X	63.4	63.4	65.2	67.7X	68.2X	68.5	68.1	68.9	67.4	66.2	65.5	66.4X
Kapalua-West Maui Airport	M	76.3X	73.8	78.9X	80.0	79.7	81.5X	80.7	80.0	78.6	77.5	75.4X	MX
Kula Branch Station	62.4	60.7	60.8	62.7	64.8	66.0	66.8	66.9	68.2	65.6	64.5	62.0	64.3
Kula Hospital	62.3X	60.0X	60.3X	62.5X	64.1X	65.2X	65.7X	65.9X	67.4	65.1X	64.1	61.1	63.6X
Makana Golf Course	72.7	72.0	72.2X	74.4X	76.3X	77.6X	78.8X	78.1	79.8	77.2X	75.6	73.2	75.7X
Oheo	73.8X	73.1X	72.5X	73.6X	76.4X	75.9X	76.7	77.5X	77.7X	76.4X	75.3X	74.8X	75.3X
<b>Molokai</b>													
Kalaupapa	M	73.1X	72.9X	M	M	79.4X	M	81.1X	M	M	M	M	M
Molokai Airport	NA												
<b>Lanai</b>													
Lanai Airport	M	M	M	M	M	M	M	M	M	M	M	M	M
Lanai City	NA												

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

A: Accumulated amount. May include data from a previous month. NA: Not Available.

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*, 2005.

### 3.1.8

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

Station	1999	2000	2001	2002	2003	2004	2005
<b>ANNUAL RAINFALL</b>							
<b>Maui</b>							
Haleakala Ranger Station	52.24	37.30	40.62	42.56	32.60	70.00	45.57
Hana Airport	60.44	86.85	48.37	66.47	66.93	101.36	M
Kahului Airport (WSO)	9.66	9.72	10.53	15.07	13.83	26.17X	M
Kapalua-West Maui Airport	21.66	18.92	20.61	27.98	27.07	48.43	M
Kailua							128.73
Keanae	79.90M	94.50M	82.10	96.23	151.90	166.00	174.30
Kihei	7.13	3.26	6.20	13.33	11.58	26.38	10.88
Kuiaha	80.09	72.50	66.70	67.44	72.31	M	103.14
Kula Branch Stn.	12.38	11.89	15.83	30.31	25.67	31.57	25.19
Makena Golf Course	10.16	7.47	7.01	18.24	M	29.97	15.42
Puu Kukui	379.88	320.67M	307.26	242.54	M	378.54	320.19
Waikamoi	129.80	148.00	145.80	131.48	111.70	133.90	158.00
Waihee Valley	27.35	28.4	33.36	39.83	44.03	69.70	39.92
<b>Molokai</b>							
Kalaupapa	30.81	29.62	M	39.78	40.03	57.06X	49.84
Molokai Airport	13.52	11.38	11.06	22.95	24.38	M	NA
Kaunakakai	3.42	4.93	5.81X	15.89	10.38	45.22	20.55
<b>Lanai</b>							
Lanai Airport	5.28	10.60	17.58	26.49	M	26.1	NA
Lanai City	15.64	18.39	M	42.58	M	78.4	M
<b>AVERAGE ANNUAL TEMPERATURE</b>							
<b>Maui</b>							
Haleakala Ranger Station	53.8M	54.9	54.95	55.6M	46.2X	54.4X	54.6X
Hana Airport	M	M	M	74.2M	M	MX	M
Kahului Airport (WSO)	75.1	75.3	75.7	75.4	76.4	76.4	75.9
Kapalua-West Maui Airport	74.5M	75.0M	75.3M	75.4	76.0X	76.6	MX
Kula Branch Stn.	62.2M	63.8M	64.2M	64.0	64.5	64.9X	64.3
Kula Hospital	62.8M	M	63.8M	63.4M	63.9	63.9X	63.6X
Makena Golf Course	74.8M	75.4M	75.7M	75.2M	MX	76.0X	75.7X
<b>Molokai</b>							
Molokai Airport	73.8	M	M	74.9M	68.6X	M	NA
<b>Lanai</b>							
Lanai Airport	70.9M	71.8M	72.0M	71.7M	M	72.4X	MX
Lanai City	68.4M	M	M	M	M	M	39.94

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.

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*

	2001	2002	2003	2004	2005	2006
<b>Improved Residential</b>						
Land	1,778,535	2,105,914	2,229,559	2,760,153	3,802,950	5,316,036
Improvements	980,638	1,147,963	1,221,288	1,184,331	1,398,612	1,586,147
<b>Unimproved Residential</b>						
Land	312,704	291,068	295,995	339,207	487,817	599,634
Improvements	2,373	348	10,245	2,710	1,501	928
<b>Homeowner</b>						
Land	2,645,650	3,068,710	3,448,058	4,587,953	6,163,343	8,950,125
Improvements	2,494,417	2,753,442	3,024,256	3,353,718	3,808,206	4,976,216
<b>Hotel/Resort</b>						
Land	1,118,337	1,212,092	1,178,686	1,391,638	1,490,422	2,031,211
Improvements	3,173,969	3,424,136	3,739,235	4,522,441	4,835,251	6,632,453
<b>Apartment</b>						
Land	576,269	660,144	630,001	677,004	922,833	1,549,767
Improvements	1,429,635	1,677,822	1,895,848	1,847,497	2,441,722	3,237,154
<b>Time Share<sup>1</sup></b>						
Land					107,923	158,543
Improvements					470,813	749,315
<b>Commercial</b>						
Land	672,344	698,764	675,803	756,533	951,946	1,300,095
Improvements	471,205	492,228	509,617	553,713	603,709	664,386
<b>Industrial</b>						
Land	607,145	600,716	539,019	556,447	688,330	766,176
Improvements	439,790	471,526	468,954	483,615	501,882	526,099
<b>Agricultural</b>						
Land	1,024,089	1,128,381	1,152,951	1,474,200	2,171,437	2,922,435
Improvements	422,948	450,050	500,406	548,376	656,311	763,967
<b>Conservation</b>						
Land	289,466	340,554	328,518	306,918	305,110	307,250
Improvements	29,829	30,985	33,323	36,788	38,659	39,007
<b>TOTAL<sup>2</sup></b>	<b>18,469,342</b>	<b>20,554,842</b>	<b>21,881,760</b>	<b>25,383,244</b>	<b>31,848,774</b>	<b>43,076,944</b>

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

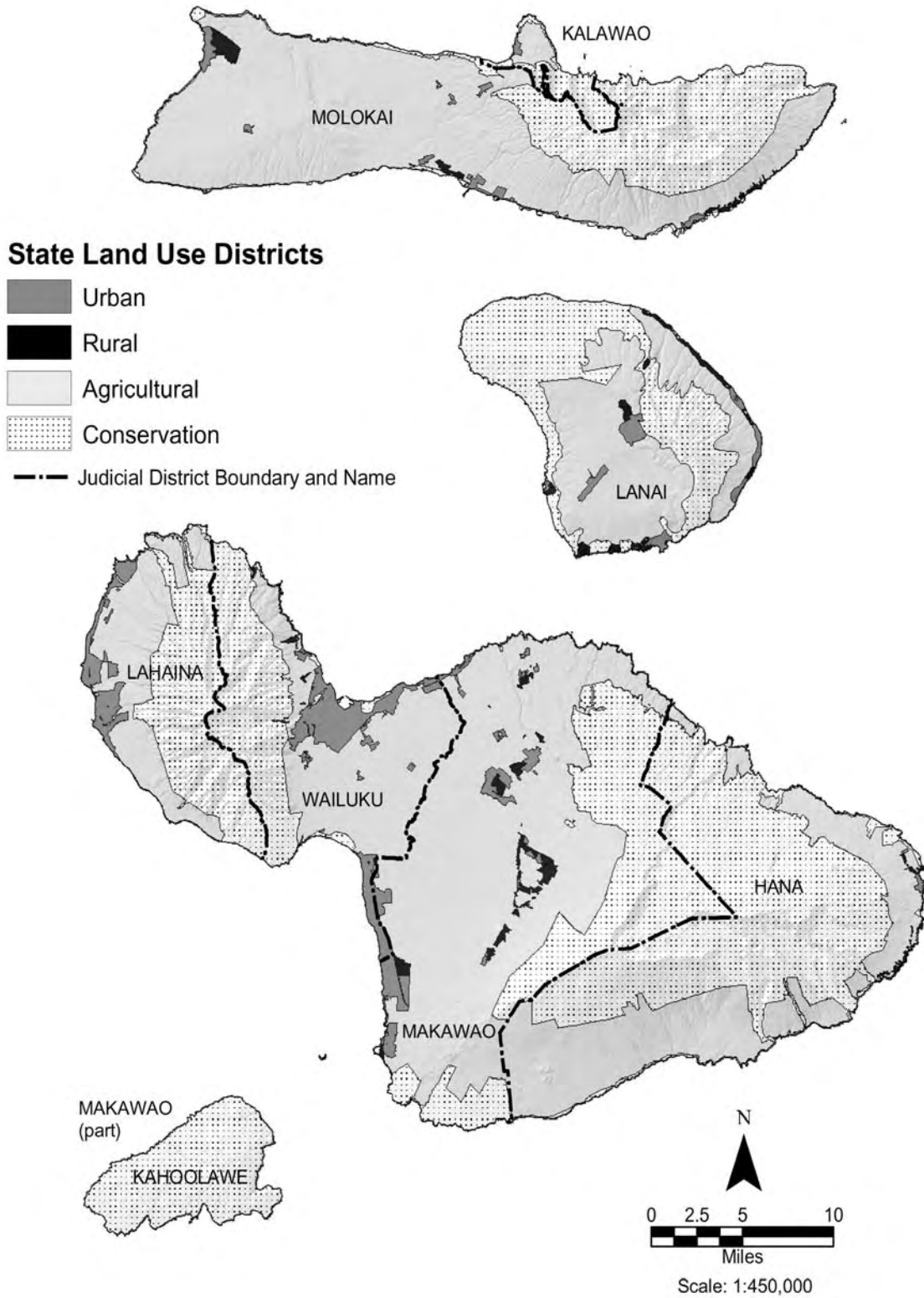
<sup>1</sup> New category as of 2005.

<sup>2</sup> 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 ISLAND

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

Island	Total Area <sup>2</sup>	CLASSIFICATION BY STATE LAND USE COMMISSION <sup>1</sup>			
		Urban	Conservation	Agricultural	Rural
As of December 31, 2005					
Maui	465,800	22,279	194,836	244,632	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	1,214,040	1,291
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 <sup>3</sup>	1,900	—	1,900	—	—
State Total	4,112,388	196,991	1,973,636	1,931,378	10,383

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

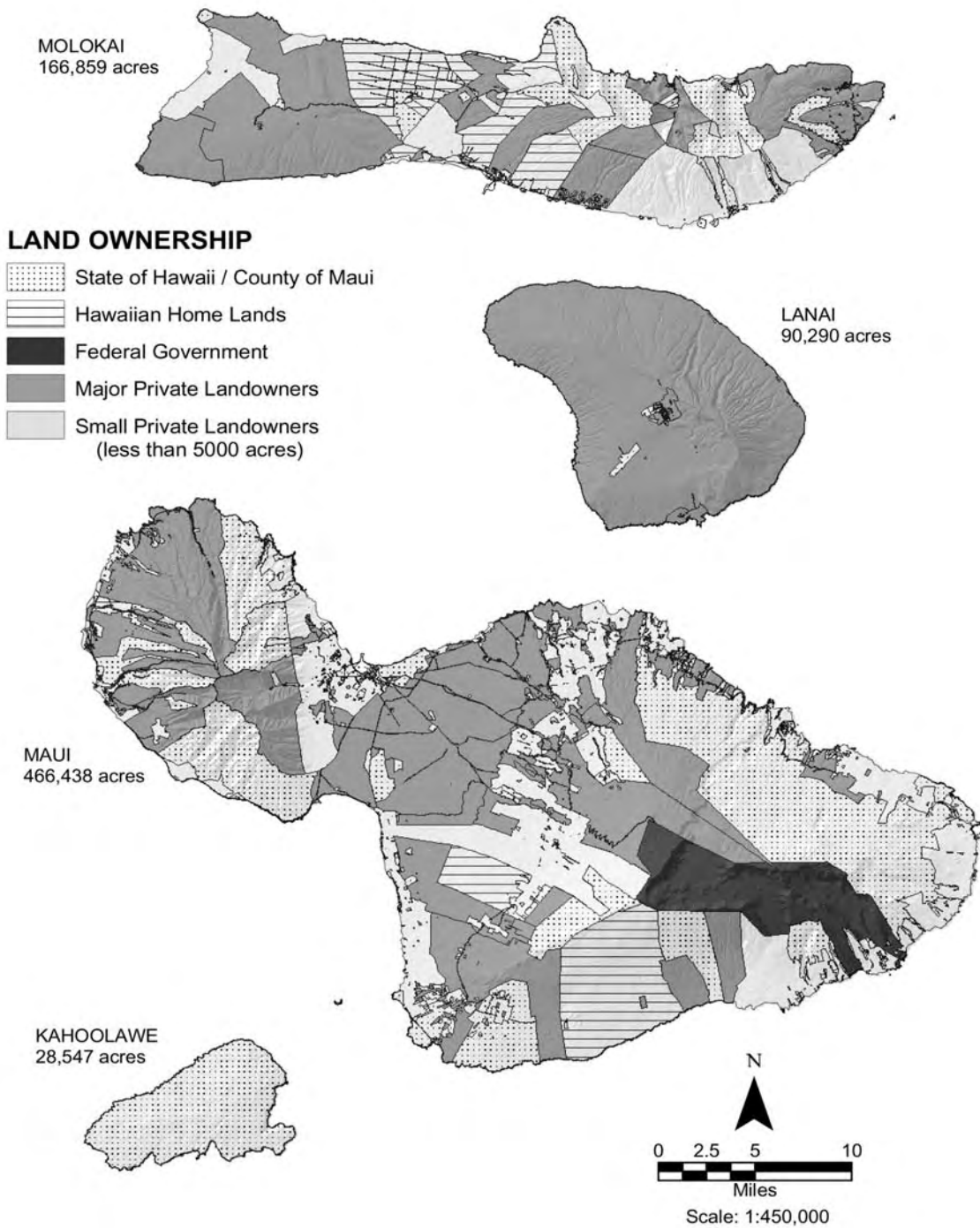
<sup>2</sup> These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census.

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

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

3.2.4

LAND OWNERSHIP, MAUI COUNTY



SOURCE: 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'ulua Complex  
Hardy House  
Holy Ghost Catholic Church  
Hongwanji Temple  
Honokalani Village  
Honokowai Petroglyphs  
Iao Theater  
Ka'ahumanu Church  
Kahikinui House  
Kaiaipuni 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 Dist.  
Kilolani Congregational Church  
Kipahulu Historic District  
Kipapa Archaeological District  
Kula Sanitorium  
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  
Naniloa Drive Overpass Bridge  
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 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 <sup>1</sup>	23.8	NA	23.2	20.0
Kamehameha Schools <sup>2</sup>	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 <sup>3</sup>
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.

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

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

<sup>3</sup> 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 ISLAND

*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, 2005	Maui	Molokai	Lanai	Hawaii	Kauai	Oahu	State Total
Acreage <sup>1</sup>	31,796	25,769	50	117,326	20,565	7,276	202,782
Homestead leases <sup>2</sup>	1,145	840	-	2,116	524	3,202	7,827
Residential	1,003	392	-	1,320	475	3,142	6,332
Agricultural	66	421	-	505	47	60	1,099
Pastoral	76	27	-	291	2	-	396
Applicant waiting list <sup>2</sup>	6,711	1,733	79	12,864	3,592	10,523	35,502
Residential	2,786	698	79	5,252	1,494	8,054	18,363
Agricultural	3,499	868	-	6,029	1,858	2,469	14,723
Pastoral	426	167	-	1,583	240	-	2,416

<sup>1</sup> 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.

<sup>2</sup> 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**  
**2005**

<b>Document Number</b>	<b>Permittee or Grantee Name</b>	<b>Location</b>	<b>Acres</b>	<b>Use</b>	<b>Payment</b>
<b>Revocable Permits</b>					
RP740	State of Hawaii, DLNR	Wailuku	1.680	Office	\$0
RP7398	Jeffrey Patnoe and Christine Patnoe	Molokai	0.37	Conservation	\$168
<b>General Leases &amp; Term Easements</b>					
GL5726	James and Susan Bendon	Wailuku	0.150	Water	\$1,300
GL5727	Richard Bruce Blackwell	Wailuku	0.150	Water	\$1,500
GL5731	Kaheawa Wind Power, LLC	Lahaina	200.000	Renewable Energy	\$300,000
<b>Executive Orders - Set Asides</b>					
4104	Department of Education	Wailuku	13.494	School	n/a
4117	County of Maui	Makawao	22.158	Public Purpose	n/a
4138	Department of Transportation	Molokai	12.192	Roadway	n/a
<b>Perpetual Easements</b>					
LOD28729	Margaret Ann Hecht	Hana	0.150	Access	\$1,063
<b>Dispositions to Public Utilities</b>					
<b>Fee Conveyances</b>					
LOD28748	State of Hawaii	Wailuku	13.494	New School	0
LOD28750	County of Maui	Makawao	3.910	Agriculture	\$0
<b>Quitclaims of Interest</b>					
LOD28768	Michael J. Fergus, Trustee	Lahaina	0.118	Consolidation	\$310,000

<sup>1</sup> Annual Payments

<sup>2</sup> 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	
	2005 Sales	% Chg Last Yr	2005 Average	% Chg Last Yr	2005 Median	% Chg Last Yr	2005 Volume	% Chg Last Yr
<b>SINGLE FAMILY HOMES</b>								
Central	404	29%	\$582,766	26%	\$544,920	24%	\$235,437,495	63%
Haiku	95	-7%	\$985,678	31%	\$840,000	21%	\$93,639,400	22%
Hana	6	-45%	\$914,250	38%	\$440,000	-29%	\$5,485,500	-25%
Kaanapali	29	21%	\$1,887,897	39%	\$1,850,000	44%	\$54,749,000	68%
Kahakuloa	5	25%	\$1,195,000	25%	\$1,130,000	13%	\$5,975,000	56%
Kapalua	12	50%	\$4,747,083	77%	\$3,497,500	59%	\$56,965,000	165%
Keanae	1	N/A	\$425,000	N/A	\$425,000	N/A	\$425,000	N/A
Kihei	212	-8%	\$879,132	39%	\$715,000	30%	\$186,375,898	28%
Kipahulu	1	0%	\$805,000	47%	\$805,000	47%	\$805,000	47%
Kula/Ulupalakua/Kanaio	107	9%	\$861,636	13%	\$744,000	16%	\$92,195,100	23%
Lahaina	59	-9%	\$1,071,585	10%	\$875,000	40%	\$63,223,500	0%
Lanai	18	-5%	\$650,303	82%	\$382,500	34%	\$11,705,450	73%
Makawao/Olinda/Haliimaile	104	18%	\$642,952	13%	\$565,000	13%	\$66,867,000	33%
Maui Meadows	36	-10%	\$1,328,917	31%	\$1,267,500	36%	\$47,841,000	18%
Molokai	6	-14%	\$1,235,833	91%	\$737,500	84%	\$7,415,000	63%
Nahiku	2	100%	\$463,750	31%	\$463,750	31%	\$927,500	161%
Napili/Kahana/Honokowai	67	0%	\$1,057,207	4%	\$915,000	20%	\$70,832,900	4%
Olowalu	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Pukalani	72	-4%	\$680,130	26%	\$661,000	25%	\$48,969,350	21%
Sprecklesville/Paia/Kuau	38	-3%	\$1,007,092	16%	\$667,000	17%	\$38,269,499	13%
Wailea/Makena	43	39%	\$3,098,186	24%	\$2,000,000	29%	\$133,222,000	72%
<b>Maui Summary:</b>	<b>1,317</b>	<b>7%</b>	<b>\$927,354</b>	<b>27%</b>	<b>\$679,000</b>	<b>23%</b>	<b>\$1,221,325,592</b>	<b>36%</b>
<b>CONDOMINIUMS</b>								
Central	232	36%	\$238,932	30%	\$242,875	43%	\$55,432,274	77%
Haiku	1	N/A	\$550,000	N/A	\$550,000	N/A	\$550,000	N/A
Hana	6	20%	\$314,500	87%	\$274,000	68%	\$1,887,000	125%
Kaanapali	120	-8%	\$924,649	23%	\$805,000	21%	\$110,957,840	14%
Kapalua	48	-45%	\$1,113,826	7%	\$881,500	16%	\$53,463,667	-41%
Kihei	809	-2%	\$387,598	29%	\$355,000	32%	\$313,566,753	27%
Kula/Ulupalakua/Kanaio	2	N/A	\$546,000	N/A	\$546,000	N/A	\$1,092,000	N/A
Lahaina	55	25%	\$579,281	43%	\$337,500	6%	\$31,860,450	78%
Lanai	8	100%	\$1,718,000	0%	\$1,474,500	-5%	\$13,744,000	100%
Maalaea	88	16%	\$483,726	32%	\$460,000	29%	\$42,567,850	52%
Makawao/Olinda/Haliimaile	0	-100%	\$0	100%	\$0	-100%	\$0	-100%
Molokai	9	125%	\$227,389	13%	\$223,500	26%	\$2,046,500	153%
Napili/Kahana/Honokowai	451	5%	\$453,481	18%	\$428,545	19%	\$204,519,715	24%
Pukalani	2	0%	\$357,250	1%	\$357,250	1%	\$714,500	1%
Sprecklesville/Paia/Kuau	2	-50%	\$304,950	-24%	\$304,950	20%	\$609,900	-62%
Wailea/Makena	167	11%	\$1,603,292	49%	\$1,100,000	49%	\$267,749,750	65%
<b>Maui Summary:</b>	<b>2,000</b>	<b>3%</b>	<b>\$550,381</b>	<b>25%</b>	<b>\$390,000</b>	<b>26%</b>	<b>\$1,100,762,199</b>	<b>29%</b>

N/A: Not applicable.

SOURCE: Maui Board of Realtors, *MLS Resale Data, December 2005.*

### 3.2.10

## LAND SALES BY AREA, MAUI COUNTY

Area	Number of Sales		Average Sales Price		Median Sales Price		Total Dollar Volume	
	2005 Sales	% Chg Last Yr	2005 Average	% Chg Last Yr	2005 Median	% Chg Last Yr	2005 Volume	% Chg Last Yr
<b>LAND SALES</b>								
Central	134	131%	\$428,145	0%	\$387,000	4%	\$57,371,378	1.30
Haiku	32	28%	\$828,016	79%	\$599,500	50%	\$26,496,500	129%
Hana	5	-67%	\$380,200	-14%	\$400,000	4%	\$1,901,000	-71%
Honokohau	1	0%	\$150,000	-70%	\$150,000	-70%	\$150,000	-70%
Kaanapali	21	-38%	\$881,881	41%	\$775,000	24%	\$18,519,500	-13%
Kahakuloa	2	0%	\$595,000	49%	\$595,000	49%	\$1,190,000	49%
Kapalua	24	-27%	\$1,870,417	11%	\$1,675,000	10%	\$44,890,000	-20%
Kaupo	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Keanae	1	N/A	\$899,000	N/A	\$899,000	N/A	\$899,000	N/A
Kihei	32	-59%	\$667,468	62%	\$377,000	30%	\$21,358,990	-35%
Kula/Ulupalakua/Kanaio	52	-37%	\$726,238	87%	\$434,000	100%	\$37,764,400	17%
Lahaina	29	21%	\$1,020,066	24%	\$690,357	-16%	\$29,581,921	50%
Lanai	2	-33%	\$950,000	47%	\$950,000	164%	\$1,900,000	-2%
Makawao/Olinda/Haliimaile	5	-71%	\$598,000	26%	\$320,000	-17%	\$2,990,000	-63%
Maui Meadows	1	-67%	\$758,000	5%	\$758,000	38%	\$758,000	-65%
Molokai	21	31%	\$537,268	55%	\$415,000	131%	\$11,282,638	103%
Nahiku	3	50%	\$1,248,333	362%	\$1,500,000	456%	\$3,745,000	594%
Napili/Kahana/Honokowai	15	25%	\$1,068,012	5%	\$530,000	26%	\$16,020,187	32%
Olowalu	1	-50%	\$1,275,000	46%	\$1,275,000	46%	\$1,275,000	-27%
Pukalani	12	9%	\$510,708	33%	\$411,000	19%	\$6,128,500	45%
Sprecklesville/Paia/Kuau	4	-33%	\$584,850	7%	\$690,904	34%	\$2,339,398	-29%
Wailea/Makena	32	-33%	\$2,445,688	98%	\$1,637,500	93%	\$78,262,000	32%
<b>Maui Summary:</b>	<b>429</b>	<b>-10%</b>	<b>\$850,404</b>	<b>32%</b>	<b>\$532,500</b>	<b>29%</b>	<b>\$364,823,412</b>	<b>20%</b>

N/A: Not applicable.

SOURCE: Maui Board of Realtors, *MLS Resale Data, December 2005*.

3.2.11

**FOREST AND NATURAL AREA ACREAGE,  
BY ISLAND JUNE 30, 2005**

Island	Conservation district forest land		Natural areas <sup>3</sup>	
	Forest reserve land <sup>1</sup>	Private forest land <sup>2</sup>	Number of areas	Acres
<b>2005</b>				
<b>State total</b>	<b>643,134</b>	<b>328,742</b>	<b>19</b>	<b>109,164</b>
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.

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

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

<sup>3</sup> 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.