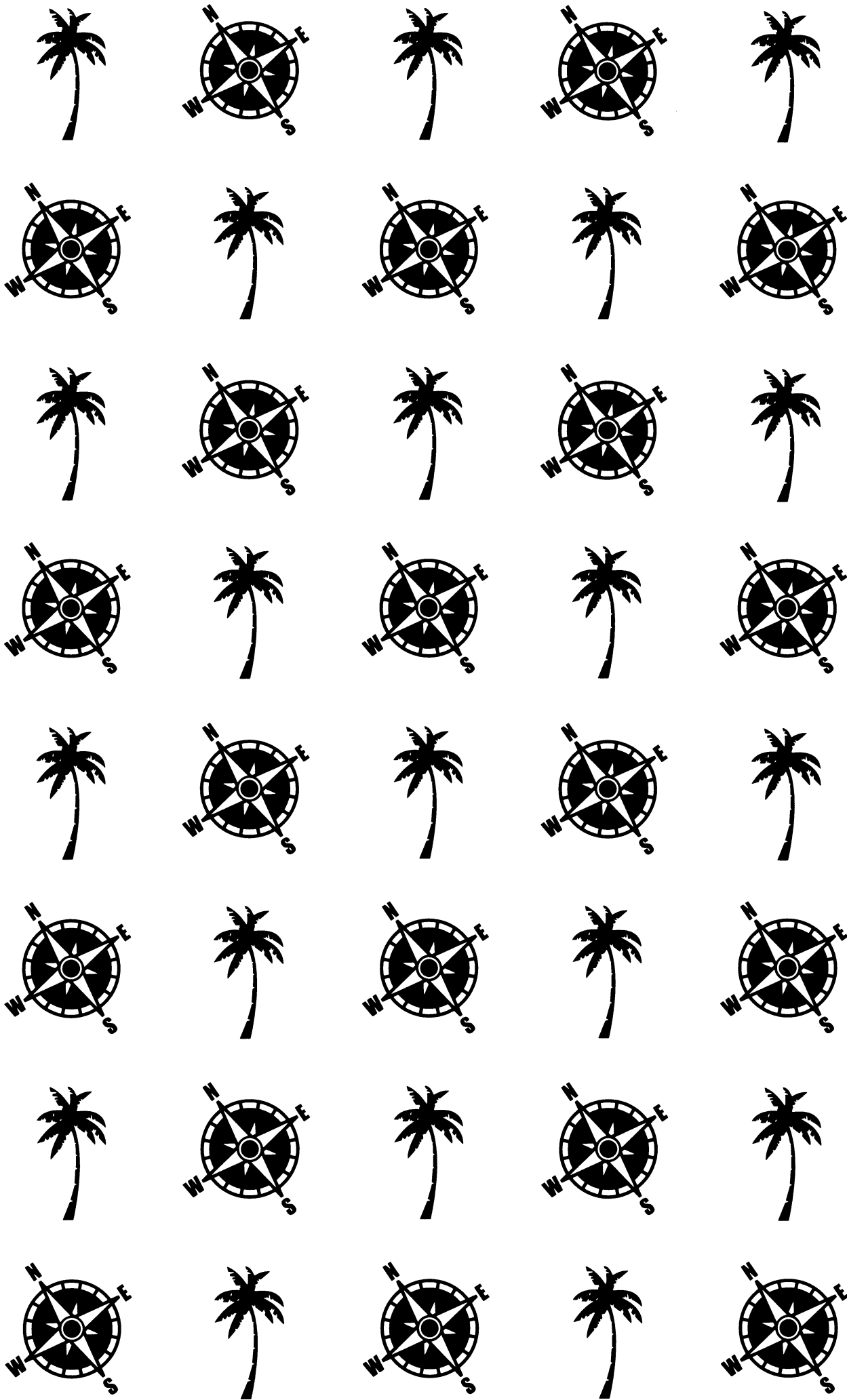


# Geography & Land Use



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### Section 3

## GEOGRAPHY & LAND USE

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

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

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

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

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

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

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

### 3.1.1

## LAND AND WATER AREA OF COUNTIES AND ISLANDS

County or Island	SQUARE MILES			ACRES <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, 1989* (November 1989), table 132.

### 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 <sup>4</sup>	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
<b>Islands</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

<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> Maui totals include Kalawao.

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

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### 3.1.3

## MAJOR NAMED WATERFALLS, MAUI COUNTY

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

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

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

### 3.1.4

## ELEVATIONS OF MAJOR SUMMITS

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

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

### 3.1.4

CONTINUED

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

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

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

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

## 3.1.5

## MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

	State	Hawaii	Maui	Kahoolawe	Lanai	Molokai	Oahu	Kauai	Niihau
Extreme Length (miles)		93	48	11	18	38	44	33	8
Extreme Width (miles)		76	26	6	13	10	30	25	6
Miles of Sea Cliffs with Heights of 1,000 Feet or More <sup>1</sup>	33	4	–	–	1	14	–	11	3
Miles from Coast of Most Remote Point	28.5	28.5	10.6	2.4	5.2	3.9	10.6	10.8	2.4
Percent of Area Within 5 Miles of Coast	48.6	30.0	76.1	100.0	100.0	100.0	79.0	65.0	100.0
Percent of Area with Elevation of Less than 500 Feet	20.8	12.0	24.9	38.9	24.8	37.3	45.3	35.6	78.2
Percent of Area with Elevation of 2000 Feet or More	50.9	68.4	41.4	0.0	6.3	17.8	4.6	24.0	0.0
Approximate Mean Altitude (feet)	3030	3950	2390	600	1140	1150	860	1380	530
Percent of Area with Slope Less Than 10 Percent	63.5	76.0	38.5	60.0	61.0	53.0	42.5	33.5	68.0
Percent of Area with Slope 20 Percent or More	17.0	4.0	36.0	9.0	16.0	26.0	45.5	50.5	12.5

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

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

3.1.6

TEMPERATURE AND PRECIPITATION  
AVERAGES AND EXTREMES, MAUI COUNTY

	STATION DATA				TEMPERATURES				Record High		Record Low					
	Elevation ft.	1st Year of Record	Daily Average		Warmest Month		Coolest Month		°F	Date	°F	Date				
			High	Low	High	Low	High	Low					Month	Month		
<b>Maui</b>																
Haleakala Ranger Station	6,960	1949	62.6	44.4	66.0	47.4	Aug	58.9	41.3	Feb	80	07/25/1953	27	02/26/1965		
Hana Airport	61	1950	80.9	67.3	84.0	69.7	Sep	78.2	63.8	Jan	94	11/03/1979	50	01/09/1953		
Kahului Airport	48	1954	83.7	67.4	87.5	70.2	Sep	80.1	63.4	Feb	97	08/31/1994	48	01/20/1969		
Kailua (NE Maui, inland)	700	1949	77.2	64.3	80.2	66.8	Sep	75.2	61.0	Feb	88	09/18/1968	50	02/21/1962		
Lahaina	45	1949	84.9	66.5	88.2	69.5	Sep	81.4	63.1	Feb	97	08/18/1985	52	12/23/1962		
<b>Molokai</b>																
Molokai Airport	450	1953	81.5	67.6	85.6	71.0	Sep	77.4	63.1	Feb	96	04/14/1974	46	03/04/1987		
<b>Lanai</b>																
Lanai Airport	1,300	1949	79.0	62.5	82.5	65.4	Aug	75.6	58.7	Jan	89	09/05/1954	46	01/22/1955		
Lanai City	1,620	1949	75.4	62.5	78.6	65.2	Sep	72.6	59.1	Feb	89	09/07/1994	47	02/22/1973		
	Annual Average				Days Precip. >=0.01 in.		Wettest Year		Driest Year		Wettest Month		Driest Month		1 Day Record	
	in.		in.	Year	in.	Year	in.	Year	in.	Year	in.	Month	in.	Month	in.	Date
<b>Maui</b>																
Haleakala Ranger Station	53.94	145	121.16	1980	17.71	1962	8.84	Jan	1.22	Jun	18.50	Jun	18.50	Jun	18.50	01/09/1980
Hana Airport	81.90	271	126.23	1965	49.64	1953	9.30	Mar	4.07	Jun	17.57	Jun	17.57	Jun	17.57	04/16/1968
Kahului Airport	19.78	35	40.63	1989	8.56	1984	3.85	Jan	0.26	Jun	5.82	Jun	5.82	Jun	5.82	12/21/1955
Kailua (NE Maui, inland)	122.46	176	161.82	1969	79.20	1953	12.88	Nov	7.27	Jun	15.20	Jun	15.20	Jun	15.20	11/15/1965
Lahaina	15.68	20	34.78	1950	3.20	1953	3.44	Jan	0.08	Jun	7.01	Jun	7.01	Jun	7.01	12/27/1983
<b>Molokai</b>																
Molokai Airport	26.81	106	43.70	1963	12.92	1984	4.40	Jan	0.57	Jun	9.03	Jun	9.03	Jun	9.03	02/12/1989
<b>Lanai</b>																
Lanai Airport	19.95	30	47.66	1951	5.40	1994	3.88	Dec	0.52	Aug	10.45	Aug	10.45	Aug	10.45	11/10/1955
Lanai City	36.24	114	66.87	1968	16.04	1953	5.36	Jan	1.27	Jun	11.25	Jun	11.25	Jun	11.25	11/10/1955

SOURCE: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Western Regional Climate Center, "Hawaii Climate Summaries."

3.1.7

MONTHLY RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS  
IN MAUI COUNTY

Station	1999												Departure from Normal	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Annual
<b>RAINFALL<sup>1</sup></b>														
<b>Maui</b>														
Haleakalala R.S.	6.35	5.10	7.89	2.06	0.63	0.00	0.30	1.00	0.55	1.00	3.36	9.50	37.74	-6.98
Hana Airport	11.75	6.33	6.27	6.04	1.53	3.15	5.21	3.91	4.00	2.67	2.65	6.93	60.44	-22.72
Kahului Airport (WSO)	2.01	1.70	1.48	0.34	0.51	0.09	0.01	0.31	0.03	0.41	0.22	2.55	9.66	-11.26
Kapalua-West Maui Airport	3.27	2.29	4.25	1.76	0.66	0.48	0.85	1.31	0.39	0.75	0.59	5.06	21.66	NA
Kihei	4.06	0.53	0.08	0.00	0.66	0.00	0.00	0.00	0.00	0.60	0.01	1.19	7.13	7.92
Kula Branch Stn.	2.50	1.70	0.47	1.63	0.96	0.03	0.24	0.37	0.18	1.17	0.12	3.01	12.37	NA
Kula Hospital	2.11	1.42	0.33	2.26	0.98	0.01	0.66	0.79	1.21	4.83	0.52	2.88	18.00	NA
Lahaina	3.49	1.09	0.15	0.11	0.05	0.00	0.00	0.00	0.00	0.35	0.35	0.52	2.62	-13.89
Makena Golf Course	2.79	0.75	0.01	1.04	0.63	0.00	0.48	0.07	0.45	2.39	0.05	1.50	10.16	NA
Puu Kukui	36.00	55.00	79.00	30.00	12.00	28.00	22.00	28.00	13.00	11.60	19.28	46.00	379.88	NA
Wailuku	5.24	3.81	1.69	0.58	0.45	0.19	0.53	0.89	0.20	0.81	0.48	3.70	18.57	-14.37
<b>Molokai</b>														
Kalaupapa	5.77	3.19	3.06	3.35	1.33	0.82	2.03	1.45	0.82	1.14	1.16	6.69	30.81	-13.79
Molokai Airport	3.18	1.17	1.92	0.58	0.68	0.53	1.21	0.12	0.29	0.66	0.23	2.95	13.52	-15.15
<b>Lanai</b>														
Lanai Airport	1.93	0.22	0.06	0.12	1.09	0.00	0.00	0.08	0.03	0.56	0.17	1.02	5.28	NA
Lanai City	1.82	1.52	1.24	3.57	1.35	0.40	0.87	0.56	0.09	1.70	0.72	1.80	15.64	-23.01

NA: Not available.

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

### 3.1.7

#### CONTINUED

1999

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>TEMPERATURE<sup>2</sup></b>													
<b>Maui</b>													
Haleakalala R.S.	52.0	49.9	50.9	50.0	54.7m	57.7	57.0	57.7	53.3m	55.7	55.3	51.2	53.8m
Hana Airport	71.9m	71.6m	70.7	70.4	72.9	72.8m	73.2m	74.0m	73.5m	m	72.5m	71.0	m
Kahului Airport	71.3	71.0	72.9	73.7	75.7	77.0	77.5	78.3	78.6	76.5	75.2	72.9	75.1
Kapalua-West Maui Airport	71.5	71.1m	71.8	73.1	75.5	76.1	76.4	77.2	77.5	76.4	74.6	72.6	74.5m
Kula Branch Stn.	60.8m	60.3m	61.1	61.8	63.0	64.1	65.7	66.0m	65.5	65.1	63.1	61.8	63.2m
Kula Hospital	60.4m	60.0m	60.6	61.5	62.8	63.9	65.0	65.9	65.3	64.3	62.4m	61.3	62.8m
Lahaina	m	m	74.1m	75.3m	m	77.9m	m	m	79.5m	m	m	m	m
Makena Golf Course	71.8	71.5	72.7	73.5	76.3	76.6	77.1	77.2	77.0	75.7m	74.3	73.6	74.8m
Puukolii	m	71.0m	72.0m	73.6m	m	76.6m	m	m	m	m	m	m	m
<b>Molokai</b>													
Molokai Airport	70.7	70.5	71.4	72.5	74.2	75.3	76.4	77.8	77.0	74.8	73.9	71.4	73.8
<b>Lanai</b>													
Lanai Airport	68.1	68.9	68.1	69.1	70.1	73.1	73.4m	73.7m	73.3	72.6	70.9	69.8	70.9m
Lanai City	65.8	65.8	65.9m	66.5	68.4m	69.2m	70.1m	71.5	71.3m	69.9m	68.7	67.4m	68.4m

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

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

SOURCE: U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, National Climatic Data Center, *Climatological Data Annual Summary, Hawaii and Pacific*, 1999.

### 3.1.8

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

Station	1993	1994	1995	1996	1997	1998	1999
<b>ANNUAL RAINFALL</b>							
<b>Maui</b>							
Haleakala R.S.	43.07	43.98	20.28	58.46	70.19	34.16	52.24
Hana Airport	93.90	104.68	55.11	79.20	92.31	56.44	60.44
Kahului Airport (WSO)	12.69	13.93	13.45	31.00	23.08	6.76	9.66
Kapalua-West Maui Airport	27.94	26.90	19.42	38.34	36.79	19.20	21.66
Kihei	5.82	5.61	8.21	22.32	19.96	4.47	7.13
Kula Branch Stn.	28.73	17.03	13.40	39.06	29.95	10.12	12.38
Kula Hospital	28.73	22.97	25.92	44.57	37.66	11.59	18.00
Lahaina	11.76	8.02	6.30	22.81	16.68	1.86	2.62
Makena Golf Course	10.20	7.95	14.90	30.42	23.32	5.58	10.16
Puukolii	24.81	22.09	12.03	29.53	27.34	14.81	m
Puu Kukui	100.68	318.50	129.50	114.20	407.65	446.45	379.88
Wailuku		34.76	36.74	47.00	49.00	17.16	18.57
<b>Molokai</b>							
Kalaupapa	35.39	43.25	38.87	12.00	61.66	m	30.81
Molokai Airport	19.26	16.61	18.92	38.45	33.91	12.66	13.52
<b>Lanai</b>							
Lanai Airport	12.78	5.40	13.36	43.70	20.91	10.69	5.28
Lanai City	29.25	m	22.27	65.78	42.76	19.85	15.64
<b>AVERAGE ANNUAL TEMPERATURE</b>							
<b>Maui</b>							
Haleakala R.S.	53.6	54.3m	54.9m	55.2m	54.5m	53.7	53.8m
Hana Airport	m	m	74.6m	75.1m	74.9m	74.0m	m
Kahului Airport (WSO)	75.9	76.4	76.9	77.0	76.7	75.1	75.1
Kapalua-West Maui Airport	m	75.3m	75.5	74.7m	75.5m	74.3m	74.5m
Kula Branch Stn.	63.3	63.9m	64.3m	64.1m	m	63.2m	62.2m
Kula Hospital	62.4	63.6m	64.0m	65.1m	64.1m	62.6m	62.8m
Lahaina	76.0	m	m	m	m	m	m
Makena Golf Course	74.4	75.2m	75.7m	m	75.3m	74.4m	74.8m
<b>Molokai</b>							
Molokai Airport	74.2	75.2m	74.5	74.9	74.4m	73.9	73.8
<b>Lanai</b>							
Lanai Airport	m	m	m	71.7m	71.4m	71.0m	70.9m
Lanai City	m	m	m	m	m	m	68.4m

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

SOURCE: U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, National Climatic Data Center, *Climatological Data, Annual Summary, Hawaii and Pacific*, 1991-1999.

### 3.2.1

## TRENDS IN REAL PROPERTY TAX BASE, MAUI COUNTY

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

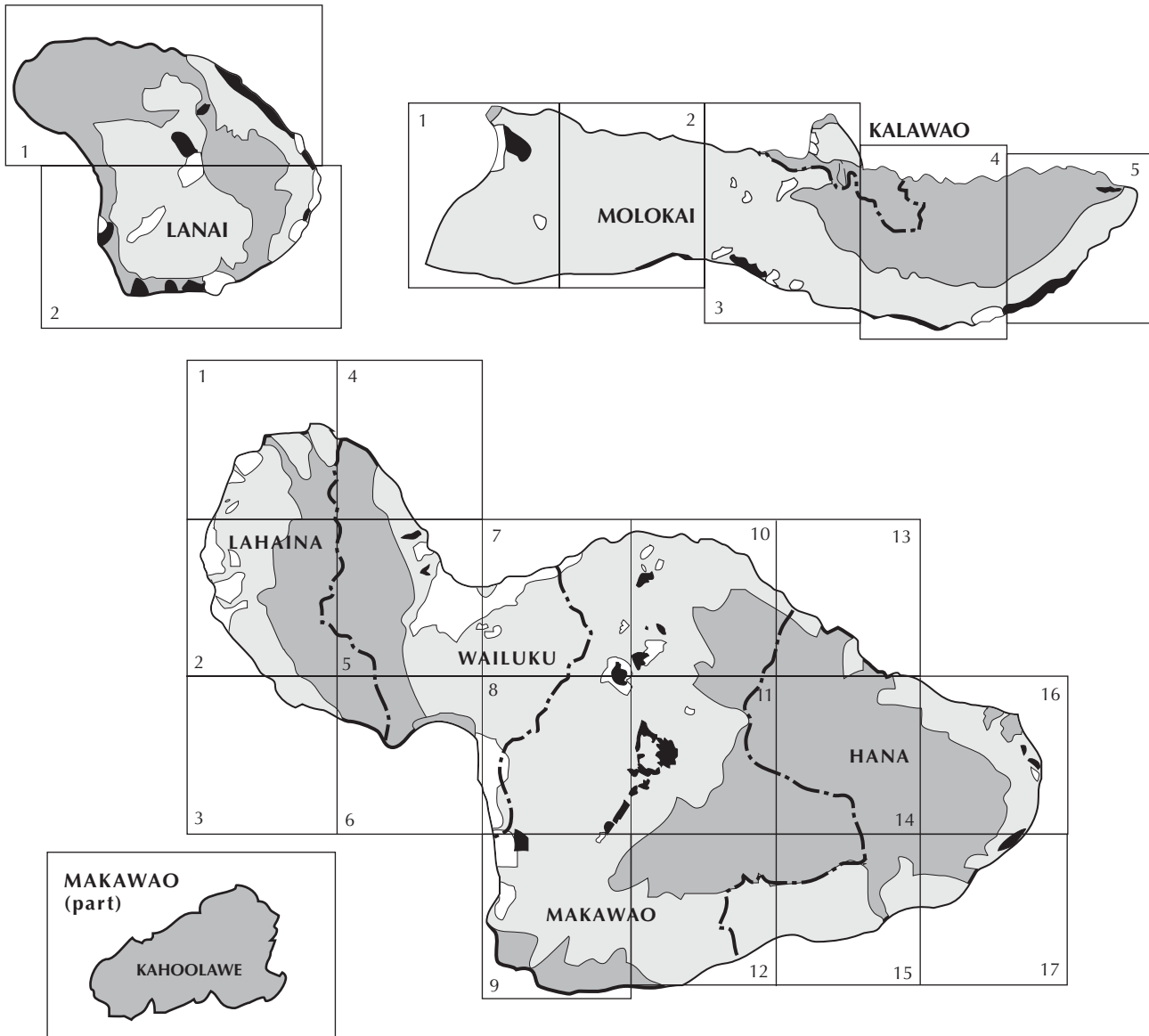
	1995	1996	1997	1998	1999	2000	2001
<b>Improved Residential</b>							
Land	1,670,430	1,621,075	1,566,094	1,592,910	1,568,983	1,629,787	1,778,535
Improvements	754,809	759,784	782,187	803,783	817,079	883,993	980,638
<b>Unimproved Residential</b>							
Land	305,936	286,264	276,221	258,915	282,747	327,362	312,704
Improvements	5,779	5,592	2,003	1,963	1,872	122	2,373
<b>Homeowner</b>							
Land	2,373,277	2,396,397	2,379,383	2,283,499	2,225,415	2,383,931	2,645,650
Improvements	1,887,626	1,986,856	2,063,164	2,080,557	2,143,098	2,253,350	2,494,417
<b>Hotel/Resort</b>							
Land	981,115	951,692	954,858	975,562	1,066,582	1,066,560	1,118,337
Improvements	2,306,606	2,210,710	2,358,814	2,346,723	2,681,250	2,841,594	3,173,969
<b>Apartment</b>							
Land	467,008	493,105	485,770	500,857	496,335	570,516	576,269
Improvements	1,156,355	1,173,281	1,075,849	1,032,209	1,096,639	1,220,117	1,429,635
<b>Commercial</b>							
Land	605,219	616,468	572,682	572,824	611,007	631,941	672,344
Improvements	345,798	361,715	372,886	382,338	391,668	393,739	471,205
<b>Industrial</b>							
Land	536,368	558,184	571,558	572,949	577,667	593,621	607,145
Improvements	358,267	373,097	396,415	415,419	411,845	416,315	439,790
<b>Agricultural</b>							
Land	922,961	892,324	865,718	880,448	894,855	944,608	1,024,089
Improvements	346,169	343,226	348,831	362,129	363,055	379,565	422,948
<b>Conservation</b>							
Land	216,124	210,447	240,398	244,888	271,170	278,967	289,466
Improvements	31,012	29,885	30,151	28,128	27,759	29,723	29,829
<b>TOTAL</b>	<b>15,270,859</b>	<b>15,270,102</b>	<b>15,342,982</b>	<b>15,336,101</b>	<b>15,929,026</b>	<b>16,845,811</b>	<b>18,469,342</b>

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





SOURCE: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii* (1994-1995 through 2000-2001 Tax Years, annual).

3.2.2

LAND USE DISTRICTS, MAUI COUNTY



LAND USE DISTRICTS

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



District Boundary Map Index



Judicial District Boundary and Name

Scale: 1:593,260



0 4.5 9 miles

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

### 3.2.3

## ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS

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

Island	Total Area <sup>2</sup>	CLASSIFICATION BY STATE LAND USE COMMISSION <sup>1</sup>			
		Urban	Conservation	Agricultural	Rural
As of December 31, 2000					
Maui	465,800	21,403	194,836	245,783	3,778
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,257	38,197	46,639	2,407
Molokai	165,800	2,539	49,768	111,627	1,866
Hawaii	2,573,400	52,083	1,306,716	1,213,873	728
Oahu	386,188	99,686	156,618	129,884	-
Kauai	353,900	14,396	198,769	139,482	1,253
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other Islands <sup>3</sup>	1,900	-	1,900	-	-
<b>State Total</b>	<b>4,112,388</b>	<b>193,365</b>	<b>1,976,004</b>	<b>1,932,988</b>	<b>10,032</b>

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

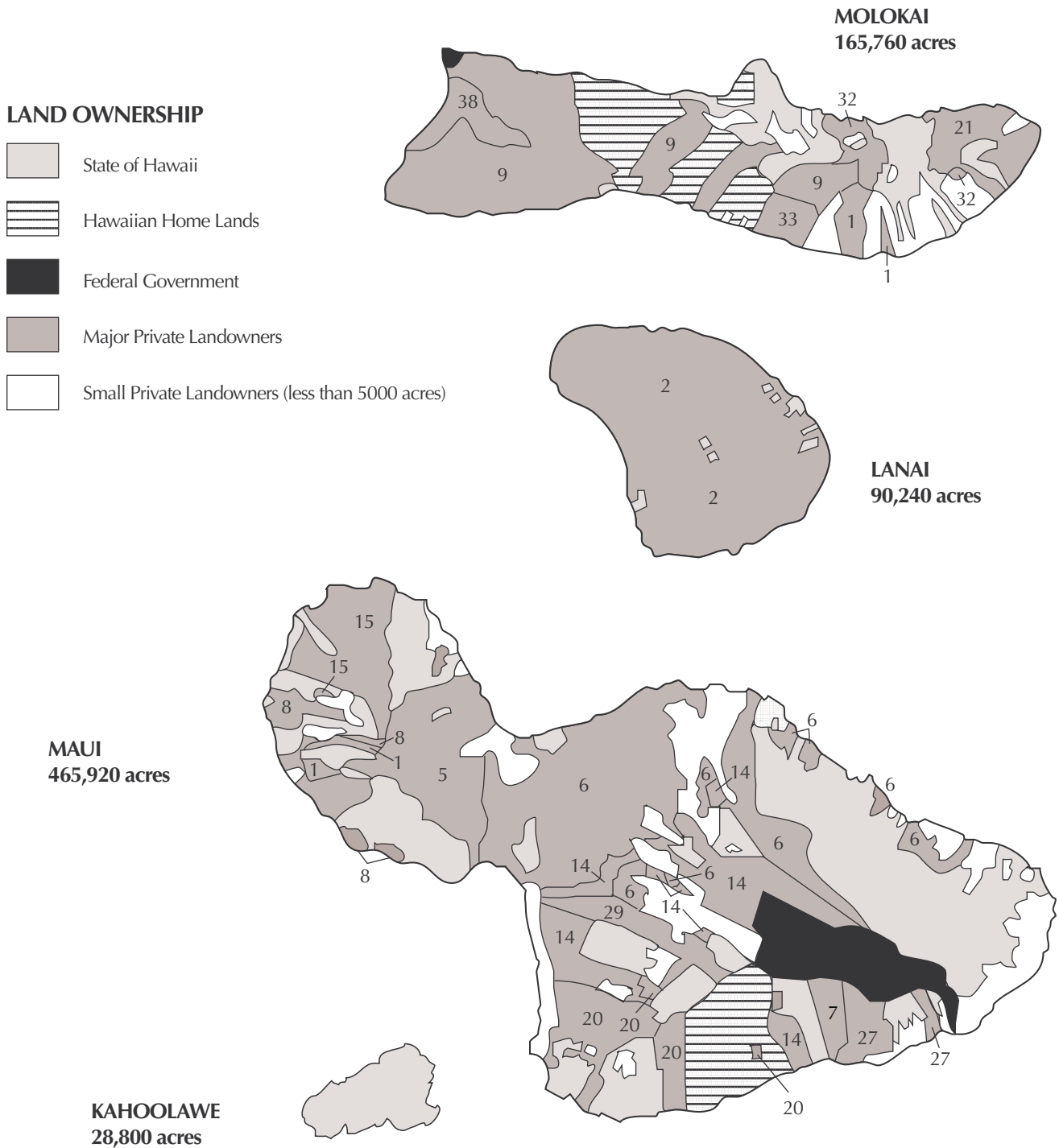
<sup>2</sup> These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census.

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

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

3.2.4

LAND OWNERSHIP, MAUI COUNTY



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

### 3.2.5

## LAND OWNERSHIP IN THE STATE OF HAWAII

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

① = Owns land in Maui County.

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

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

### 3.2.6

## LAND IN HAWAII OWNED BY SELECTED LARGE LANDOWNERS

Ownership	1996	1997	1998	1999
Eight Large Landowners	999,063	996,226	992,998	981,844
Percent of Total Land Area <sup>1</sup>	24.3	24.2	24.2	23.9
Bernice P. Bishop Estate <sup>2</sup>	366,184	366,098	366,374	366,252
Richard S. Smart (Parker Ranch)	137,007	136,602	136,436	136,406
Castle and Cooke, Inc.	100,510	100,023	99,909	99,761
Dole Food Company, Inc.	28,746	28,745	28,685	28,518
Samuel M. Damon Estate	121,600	121,595	121,595	121,360
Alexander and Baldwin, Inc.	93,160	93,020	93,080	91,226
C. Brewer and Company, Ltd.	80,156	79,343	76,219	75,891
James Campbell Estate	71,700	70,800	70,700	62,400

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

<sup>2</sup> As of July 1.

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

### 3.2.7

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

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

	Maui	Moloka'i	Hawai'i	Kaua'i	O'ahu	State Total
Acreage <sup>1</sup>	30,266	25,384	114,574	20,130	6,721	197,075
In Homestead Use	447	11,005	27,238	815	959	40,464
Homestead Leases	576	813	1,778	464	2,797	6,428
Residential	510	388	1,035	415	2,739	5,087
Agricultural	66	399	473	47	58	1,043
Pastoral	0	26	270	2	0	298
Applicant Waiting List <sup>2</sup>	5,743	1,630	11,120	3,385	7,284	29,162
Residential	2,723	711	4,839	1,527	6,014	15,814
Agricultural	2,684	780	5,130	1,671	1,270	11,535
Pastoral	336	139	1,151	187	0	1,813

<sup>1</sup> Rounded to nearest acre.

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

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

## 3.2.8

## SINGLE FAMILY HOME AND CONDOMINIUM SALES BY AREA, MAUI COUNTY

Area	Number of Sales		Average Sales Price		Median Sales Price		Total Dollar Volume	
	2000 Sales	% Chg Last Yr	2000 Average	% Chg Last Yr	2000 Median	% Chg Last Yr	2000 Volume	% Chg Last Yr
<b>SINGLE FAMILY HOMES</b>								
Central	182	-6%	\$236,634	9%	\$215,000	6%	\$43,067,393	3%
Haiku	79	10%	\$435,646	5%	\$385,000	18%	\$34,416,070	15%
Hana	10	150%	\$417,300	-35%	\$304,000	-57%	\$4,173,000	62%
Honokohau	1	N/A	\$775,000	N/A	\$775,000	N/A	\$775,000	N/A
Kaanapali	21	-22%	\$868,905	14%	\$795,000	22%	\$18,247,000	-11%
Kapalua	11	175%	\$2,999,091	141%	\$1,675,000	30%	\$32,990,000	564%
Keanae	1	N/A	\$285,000	N/A	\$285,000	N/A	\$285,000	N/A
Kihei	186	1%	\$339,756	13%	\$256,000	2%	\$63,194,562	13%
Kipahulu	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Kula/Ulupalakua/Kanaio	119	16%	\$416,225	16%	\$339,800	10%	\$49,530,815	34%
Lahaina	28	-10%	\$321,750	-5%	\$260,000	-3%	\$9,009,000	-14%
Lanai	9	0%	\$200,111	61%	\$135,000	-4%	\$1,801,000	61%
Maalaea	2	N/A	\$1,920,000	N/A	\$1,920,000	N/A	\$3,840,000	N/A
Makawao/Olinda/Haliimaile	94	3%	\$294,180	23%	\$229,500	8%	\$27,652,950	27%
Maui Meadows	34	-26%	\$639,809	22%	\$539,750	27%	\$21,753,500	-10%
Molokai	3	200%	\$273,500	508%	\$165,000	267%	\$820,500	1723%
Nahiku	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Napili/Kahana/Honokowai	26	-28%	\$673,646	54%	\$395,000	60%	\$17,514,800	11%
Olowalu	0	-100%	\$0	-100%	\$0	-100%	\$0	-100%
Pukalani	62	-5%	\$263,619	6%	\$261,000	4%	\$16,344,400	1%
Sprecklesville/Paia/Kuau	39	-24%	\$429,705	36%	\$259,700	11%	\$16,758,480	4%
Wailea/Makena	44	2%	\$1,549,170	48%	\$792,500	14%	\$68,163,500	51%
<b>Maui Summary:</b>	<b>951</b>	<b>-1%</b>	<b>\$452,510</b>	<b>27%</b>	<b>\$275,000</b>	<b>10%</b>	<b>\$430,336,970</b>	<b>25%</b>
<b>CONDOMINIUMS</b>								
Central	64	-9%	\$80,287	13%	\$82,125	40%	\$5,138,372	3%
Hana	1	N/A	\$73,000	N/A	\$73,000	N/A	\$73,000	N/A
Kaanapali	132	12%	\$437,599	1%	\$361,000	-9%	\$57,763,050	13%
Kapalua	73	46%	\$572,702	39%	\$450,000	17%	\$41,807,250	102%
Kihei	574	20%	\$156,120	10%	\$126,000	4%	\$89,612,620	32%
Kula/Ulupalakua/Kanaio	1	N/A	\$895,000	N/A	\$895,000	N/A	\$895,000	N/A
Lahaina	45	10%	\$298,861	25%	\$225,000	36%	\$13,448,750	38%
Lanai	6	-33%	\$988,333	-1%	\$907,500	14%	\$5,930,000	-34%
Maalaea	56	-28%	\$200,864	22%	\$190,000	19%	\$11,248,400	-12%
Napili/Kahana/Honokowai	350	-1%	\$202,998	14%	\$180,500	15%	\$71,049,400	13%
Pukalani	5	25%	\$280,500	34%	\$273,500	31%	\$1,402,500	68%
Sprecklesville/Paia/Kuau	4	33%	\$583,000	802%	\$730,000	914%	\$2,332,000	1102%
Wailea/Makena	145	2%	\$609,148	31%	\$400,000	21%	\$88,326,480	34%
<b>Maui Summary:</b>	<b>1456</b>	<b>8%</b>	<b>\$267,189</b>	<b>18%</b>	<b>\$181,750</b>	<b>14%</b>	<b>\$389,026,822</b>	<b>27%</b>

NOTE: In 2000, no single family home sales were reported in the Keanae and Maalaea areas, and no condominium sales were reported in the Hana, Kula/Ulupalakua/Kanaio, and Makawao/Olinda/Haliimaile areas.

N/A: Not applicable.

SOURCE: Maui Board of REALTORS, MLS Resale Data, December 2000.

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### 3.2.9

## FOREST ACREAGE, MAUI COUNTY

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

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

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

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