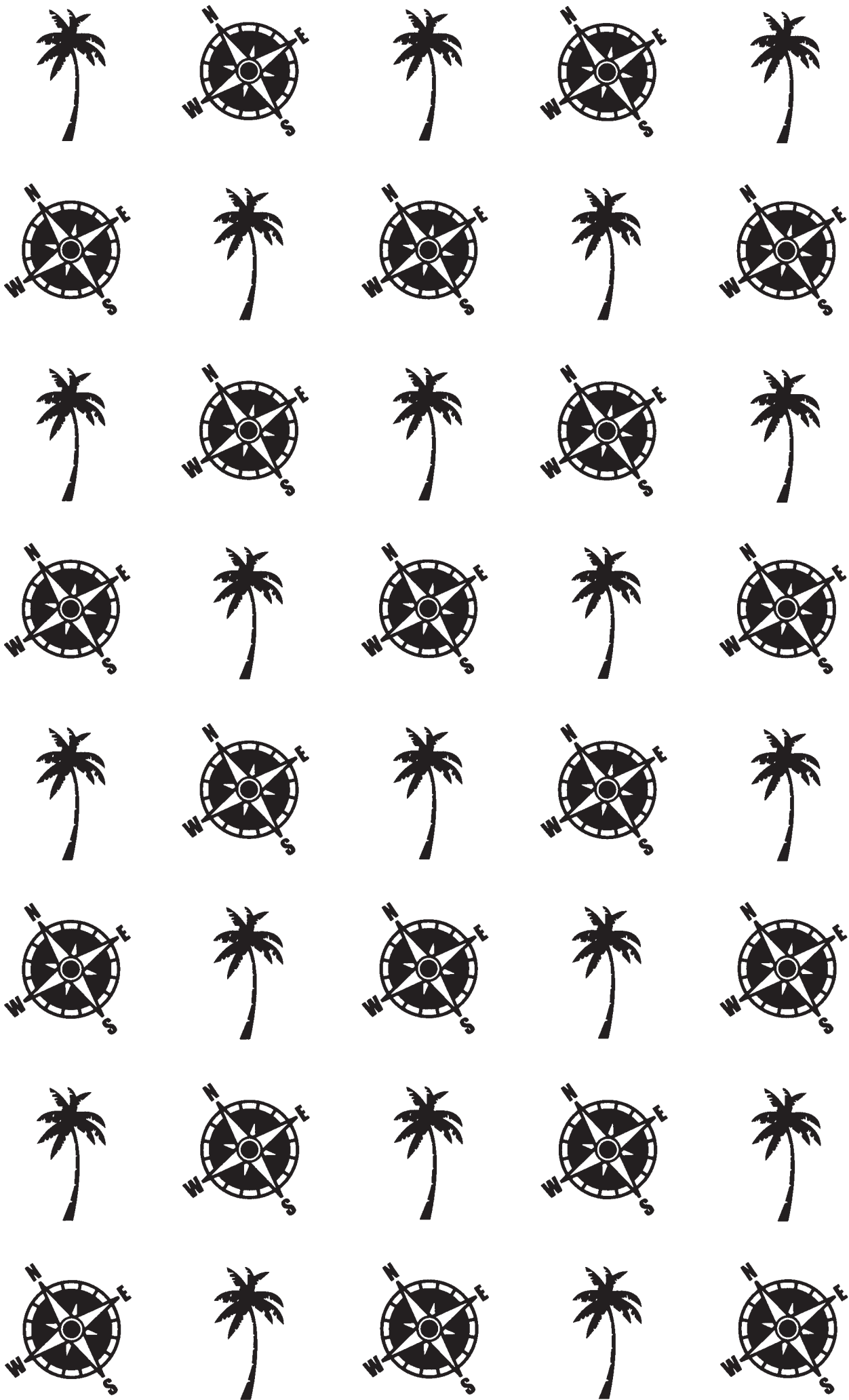


Geography & Land Use



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.

Hawai'i County covers the entire area of the largest island of the major eight islands in the State of Hawai'i. The total land area of Hawai'i County is 4,028.42 square miles with a general coastline of 266 statute miles. The highest peak in the county is Mauna Kea, at 13,796 feet above sea level; and the highest waterfall in the county is Kaluahine Falls, a 620-foot cascade.

The climate of Hawai'i County is defined by average temperatures ranging from 81.2 degrees in the warmest month at Hilo Airport to 66.4 degrees in the coolest month. Rainfall varies greatly. Annual averages for rainfall in the county range from 127 inches in Hilo, to 52 inches in Kealahou, to 12 inches at Lalamilo Field Office (Waimea).

The Hawai'i State Land Use Commission currently zoned 54,145 acres in Hawai'i County as urban; 1,304,347 as conservation; 1,212,886 as agricultural and 2,023 as rural.

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, and The State of Hawai'i 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	6468.2	6,422.63	45.6	4,139,667	4,110,483
Counties⁴					
Hawai'i	4029.4	4,028.42	1.0	2,578,829	2,578,189
Maui	1170.9	1,161.52	9.4	749,389	743,373
Kalawao	13.0	11.99	1.0	8,314	7,674
Honolulu ⁵	624.9	600.74	24.2	399,962	384,474
Kaua'i ⁵	630.0	619.96	10.0	403,174	396,774
Islands⁴					
Hawai'i	4029.4	4,028.42	1.0	2,578,829	2,578,189
Maui	777.9	771.99	5.9	497,850	494,074
Molokini ⁶	0.0	0.04	0.0	23	23
Kaho'olawe	45.5	44.60	0.9	29,120	28,544
Lāna'i	141.9	141.07	0.8	90,797	90,285
Moloka'i	263.3	260.46	2.8	168,486	166,694
O'ahu	621.6	597.64	24.0	397,850	382,490
Kaua'i	561.2	552.35	8.8	359,136	353,504
Ni'ihau	68.7	67.60	1.1	43,968	43,264
Lehua	0.4	0.44	0.0	284	284
Ka'ula	0.2	0.25	0.0	158	158

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 KA'ULA IN THE COUNTY OF KAUA'I 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 0.036 SQUARE MILES.

SOURCE: U.S. CENSUS BUREAU, 2010 CENSUS REDISTRICTING DATA (P.L. 94-171) SUMMARY FILE (FEBRUARY 2011), AND CALCULATIONS BY THE HAWAII STATE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM, OFFICE OF PLANNING, STATE OF HAWAII DATA BOOK 2014 AND THE HAWAII STATE DATA CENTER, AND UNPUBLISHED RECORDS.

3.1.2

GENERAL COASTLINE AND TIDAL SHORELINE BY COUNTY AND ISLAND

	General Coastline ¹		Tidal Shoreline ²	
	Statute Miles	Kilometers ³	Statute Miles	Kilometers ³
State Total	750	1,207	1,052	1,693
Counties				
Hawai'i	266	428	313	504
Maui and Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kaua'i	137	220	162	261
Islands⁴				
Hawai'i	266	428	313	504
Maui	120	193	149	240
Kaho'olawe	29	47	36	58
Lāna'i	47	76	52	84
Moloka'i	88	142	106	171
O'ahu	112	180	209	336
Kaua'i	90	145	110	177
Ni'ihau	45	72	50	80
Ka'ula	2	3	2	3
Northwestern Hawaiian Islands⁵				
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 MI. = 1.609 KM.

4. DATA ARE NOT AVAILABLE FOR FIVE 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: U.S. DEPARTMENT OF COMMERCE, NATIONAL OCEAN SURVEY, THE COASTLINE OF THE UNITED STATES (1975) AND RECORDS.

3.1.3

MAJOR NAMED WATERFALLS HAWAI'I COUNTY

Waterfall	Sheer Drop (feet)	Cascade Height (feet)	Horizontal Distance (feet)	Average Discharge (million gal/day)
Kaluahine	NA	620	400	NA
Akaka	442	NA	NA	NA
Waiilikahi	320	NA	NA	6.6
Hiilawe (3 falls)	NA	300	200	NA
Rainbow	NA	80	150	303.5

NA NOT AVAILABLE.

SOURCE: U.S. GEOLOGICAL SURVEY, RECORDS; HAWAI'I STATE DEPARTMENT OF LAND AND NATURAL RESOURCES, DIVISION OF WATER AND LAND DEVELOPMENT, RECORDS, AND HAWAI'I 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	
Hawai'i	Mauna Ke'a ¹	13,796	4,205
	Mauna Loa ²	13,679	4,169
	Hualālai	8,271	2,521
	Ka'unu o Kaleihoohe	5,480	1,670
	Kīlauea (Uwēkahuna)	4,093	1,248
	Kīlauea (Halema'uma'u Rim)	3,660	1,116
Kaho'olawe	Pu'u 'O Moa'ula Nui	1,483	452
	Pu'u Moa'ula Iki	1,434	437
Maui	Haleakalā (Red Hill)	10,023	3,055
	Haleakalā (Ka'upō Gap)	8,201	2,500
	Pu'u Kukui	5,788	1,764
	Īao Needle	2,250	686
Lāna'i	Lāna'ihale	3,366	1,026
Moloka'i	Kamakou	4,961	1,512
	Oloku'i	4,606	1,404
	Ka'unuohua	4,535	1,382
	Kalaupapa Lookout	1,600	488
	Mauna Loa (Kukui)	1,430	436
O'ahu	Ka'ala	4,003	1,220
	Pu'u Kalena	3,504	1,068
	Kōnahuanui	3,150	960
	Tantalus	2,013	614
	Olomana	1,643	501
	Koko Crater (Kohelepelepe)	1,208	368
	Nu'uanu 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
Kaua'i	Kawaikini	5,243	1,598
	Wai'ale'ale	5,148	1,569
	Nāmolokama Mountain	4,421	1,348
	Kalalau Lookout	4,120	1,256
	Hā'upu	2,297	700
	Sleeping Giant (Nounou)	1,241	378
Ni'ihau	Paniau	1,250	381
Lehua		699	213
Ka'ula		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 1995 GUINNESS BOOK OF RECORDS (P. 147), "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 33,480 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, HERMES ATOLL AND KURE ATOLL).

3.1.5

MISCELLANEOUS GEOGRAPHIC STATISTICS BY ISLAND

	State	Hawai'i	Maui	Kaho'olawe	Lāna'i	Molokai	O'ahu	Kauai	Ni'ihau
Extreme Length (miles)	NA	93.0	48.0	11.0	18.0	38.0	44.0	33.0	8.0
Extreme Width (miles)	NA	76.0	26.0	6.0	13.0	10.0	30.0	25.0	6.0
Miles of Sea Cliffs with Heights of 1,000 Feet or More ¹	33.0	4.0	-	-	1.0	14.0	-	11.0	3.0
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 2,000 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)	3,030	3,950	2,390	600	1,140	1,150	860	1,380	530
Percent of Area with Slope Less than 10%	63.5	76.0	38.5	60.0	61.0	53.0	42.5	33.5	68.0
Percent of Area with Slope 20% 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 PU'UKA'OKU POINT DROP 3,250 FEET AT AN AVERAGE SLOPE OF 58 DEGREES. THESE CLIFFS HAVE BEEN DESCRIBED BY THE GUINNESS BOOK OF WORLD RECORDS (1995 EDITION, P. 154) AS "THE HIGHEST SEA CLIFFS IN THE WORLD."

NA: NOT APPLICABLE.

SOURCE: HAWAII STATE DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT, HAWAII, 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, HAWAI'I COUNTY**

TEMPERATURE	Station	Period of Record	Elevation (feet)	Annual Average		Warmest Month		Coollest Month		Record High		Record Low			
				High	Low	High	Low	High	Low	°F	Date	°F	Date		
	Hawai'i Volcanoes Nat. Park	1949-2012	3,971	69.2	52.6	72.3	55.3	Aug	66.7	50.4	Mar	89	12/15/2000	34	01/18/1978
	Hilo International Airport	1949-2012	38	81.2	66.4	83.6	68.5	Sept	79.2	63.4	Feb	94	05/20/1966	53	02/21/1962
	Kealakekua	1956-2012	1,480	78.2	62.6	80.1	64.2	Oct	76.2	59.9	Jan	88	11/29/2001	43	02/25/1974
	Lalamilo Field Off. (Waimea)	1980-2012	2,615	77.1	55.0	79.8	59.5	Sept	74.5	52.7	Apr	93	08/22/1982	30	12/17/1983
	Mauna Loa Slope Obs.	1955-2012	11,150	53.2	36.2	57.2	39.4	June	49.6	32.9	Feb	85	02/18/2003	18	02/20/1962
	Nā'ālehu	1949-2012	800	79.4	65.8	81.9	68.2	Sept	77.3	62.8	Jan	93	03/04/1984	50	01/18/1978
	Opihiale	1956-2012	1,360	78.1	60.5	80.3	63.7	Aug	76.2	57.1	Feb	95	12/02/1957	48	02/21/1962
	Pa'āuilō	1949-2012	800	78.5	62.5	81.4	64.2	Sept	75.2	60.2	Mar	87	01/27/1961	48	12/10/2009

PRECIPITATION	Station	Annual Avg Inches	Days Precip ≥ 0.01 in.	Wettest Year		Driest Year		Wettest Month		Driest Month		1 Day Record	
				Inches	Year	Inches	Year	Inches	Month	Inches	Month	Inches	Date
	Hawai'i Volcanoes Nat. Park	106.84	288	204.05	1971	49.55	2010	12.63	Mar	4.79	June	16.75	02/20/1979
	Hilo International Airport	126.61	277	211.22	1990	63.29	2010	15.09	Nov	8.13	Sept	16.87	02/20/1979
	Kealakekua	52.38	167	77.76	1963	36.26	1970	6.72	Aug	2.05	Feb	7.93	11/29/2007
	Lalamilo Field Off. (Waimea)	11.63	81	29.99	2004	6.04	1995	2.10	Feb	0.35	July	5.47	12/24/1996
	Mauna Loa Slope Obs.	16.61	53	34.79	1980	2.93	1998	2.27	Jan	0.46	June	8.15	01/13/1956
	Nā'ālehu	47.24	126	89.83	1990	17.62	1998	6.42	Nov	1.50	June	10.44	12/26/1981
	Opihiale	39.94	167	67.11	1982	19.34	2009	4.15	Sept	2.49	Feb	6.28	09/01/2007
	Pa'āuilō	93.11	179	179.43	1989	30.95	1962	12.54	Mar	3.34	June	13.43	04/03/1961

SOURCE: U.S. DEPT. OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, WESTERN REGIONAL CLIMATE CENTER, HAWAI'I CLIMATE SUMMARIES.

3.1.7

**MONTHLY RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS
HAWAII COUNTY, 2015**

Rainfall	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
Halepohaku (Mauna Kea)	1.80	2.05	4.45	0.90	1.50	1.30	1.11	7.90	NA	NA	NA	NA	NA
Hawaii Volcanoes National Park HQ	NA	4.23	4.63	9.02	8.60	4.32	NA	NA	NA	NA	NA	NA	NA
Hawi	6.11	2.71	6.97	3.55	5.27	3.85	3.15	5.50	4.25	5.54	5.03	4.41	56.34
Hilo International Airport	2.80	5.29	8.92	14.31	7.75	5.23	8.06	17.20	25.03	16.09	22.81	14.10	147.59
Honoka'a	14.73	7.64	16.88	5.21	6.85	8.93	5.41	14.09	13.31	25.32	12.52	5.87	136.76
Kapapala Ranch	1.59	2.09	4.93	1.44	1.81	3.76	5.26	11.48	11.67	5.43	0.58	2.28	52.32
Kealakekua	2.05	1.59	2.75	5.07	2.93	8.85	2.84	10.01	18.92	1.27	4.76	0.82	61.86
Lalamilo Field Office (Waimea)	3.20	NA	NA	NA	NA	NA	0.02	2.91	1.36	1.48	0.30	0.21	NA
Mauna Loa Slope Observatory	4.35	0.16	6.90	0.51	0.34	0.24	1.37	7.93	1.54	1.35	0.07	0.04	24.80
Nā'ālehu	1.00	2.26	3.48	0.93	1.02	2.91	1.81	9.62	9.82	3.39	5.34	1.62	43.20
Nāpo'opo'o	1.50	1.42	NA	5.04	0.43	5.14	1.65	9.34	NA	1.46	3.16	0.17	29.31
Opihiale	1.78	1.48	1.82	6.88	4.29	2.96	6.43	7.65	14.22	4.78	3.63	0.45	56.37
Pa'aulo	11.57	8.64	14.19	7.18	8.78	9.37	4.44	15.99	21.95	26.52	14.25	6.21	149.09
Pāpa'ikou	4.65	4.67	9.56	18.35	10.08	8.91	9.36	18.98	24.35	12.04	27.65	13.12	161.72

3.1.7

CONTINUED

Temperature ¹	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
Hawai'i Volcanoes National Park HQ	NA	60.9	57.8	59.4	59.3	61.9	NA	NA	NA	NA	NA	NA	NA
Hawi	69.1	71.1	69.9	72.2	71.7	74.0	76.8	77.8	77.9	76.1	74.9	71.9	73.6
Hilo International Airport	73.0	74.3	72.6	74.3	73.8	76.8	79.4	79.7	80.0	78.6	76.8	74.7	76.2
Kealakekua	68.2	69.8	68.8	69.7	69.7	72.3	74.4	75.7	75.7	74.9	73.0	70.3	71.9
Lalamilo Field Office (Waiimea)	65.7	61.7	61.2	65.9	64.3	67.3	67.4	NA	NA	NA	66.6	62.5	NA
Mauna Loa Slope Observatory	46.0	44.6	42.0	44.0	46.6	48.7	48.4	47.8	46.9	48.2	46.8	45.1	46.3
Opihinale	66.2	67.9	66.3	68.4	67.9	70.3	72.3	73.9	73.7	72.3	70.7	68.6	69.9
Pa'auilo	68.8	70.1	69.4	71.7	71.3	72.3	74.9	74.0	75.4	73.4	72.6	70.1	72.0

NA: NOT AVAILABLE

1. AVERAGE TEMPERATURE FOR THE MONTH.

SOURCE: U.S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, WESTERN REGIONAL CLIMATE CENTER, HAWAII CLIMATE SUMMARIES.

3.1.8

ANNUAL RAINFALL AND TEMPERATURE AT SPECIFIED LOCATIONS, HAWAI'I COUNTY

	Annual Rainfall, Inches				
	2011	2012	2013	2014	2015
Halepohaku (Mauna Kea)	7.10	8.00	9.43	29.84	21.01
Hawai'i Volcanoes National Park HQ	73.58	73.67	68.37	72.96	NA
Hawi	26.34	46.61	23.88	54.44	56.34
Hilo International Airport	97.64	90.93	102.23	115.23	147.59
Honoka'a	68.75	46.73	67.62	128.66	136.76
Kapapala Ranch	21.23	NA	16.65	15.76	48.56
Kealakekua	49.53	27.22	28.43	39.34	61.86
Lalamilo Field Office (Waimea)	4.59	1.91	10.59	20.49	NA
Mauna Loa Slope Observatory	11.35	5.14	7.64	21.15	24.80
Nā'ālehu	11.49	18.73	27.02	52.87	43.20
Nāpo'opo'o	25.46	14.55	16.16	16.02	23.74
Opihihale	23.77	23.09	28.60	41.77	56.37
Pa'auilo	77.36	50.65	79.97	125.71	149.09
Pāpa'ikou	5.65	16.87	21.39	51.98	70.59

	Average Annual Temperature, Fahrenheit				
	2011	2012	2013	2014	2015
Hawai'i Volcanoes National Park HQ	61.4	59.6	60.3	61.8	59.9
Hawi	72.0	71.0	72.3	72.5	73.6
Hilo International Airport	73.7	73.5	74.7	74.4	76.2
Kealakekua	69.9	69.7	70.7	71.0	71.9
Lalamilo Field Office (Waimea)	62.2	61.7	64.6	64.9	NA
Mauna Loa Slope Observatory	44.8	45.5	45.9	45.5	46.3
Opihihale	68.1	67.7	68.8	68.6	69.9
Pa'auilo	70.4	69.7	70.9	71.0	72.0

NA: NOT AVAILABLE.

SOURCE: U.S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NATIONAL CLIMATIC DATA CENTER.

3.2.1

TRENDS IN REAL PROPERTY TAX BASE HAWAI'I COUNTY

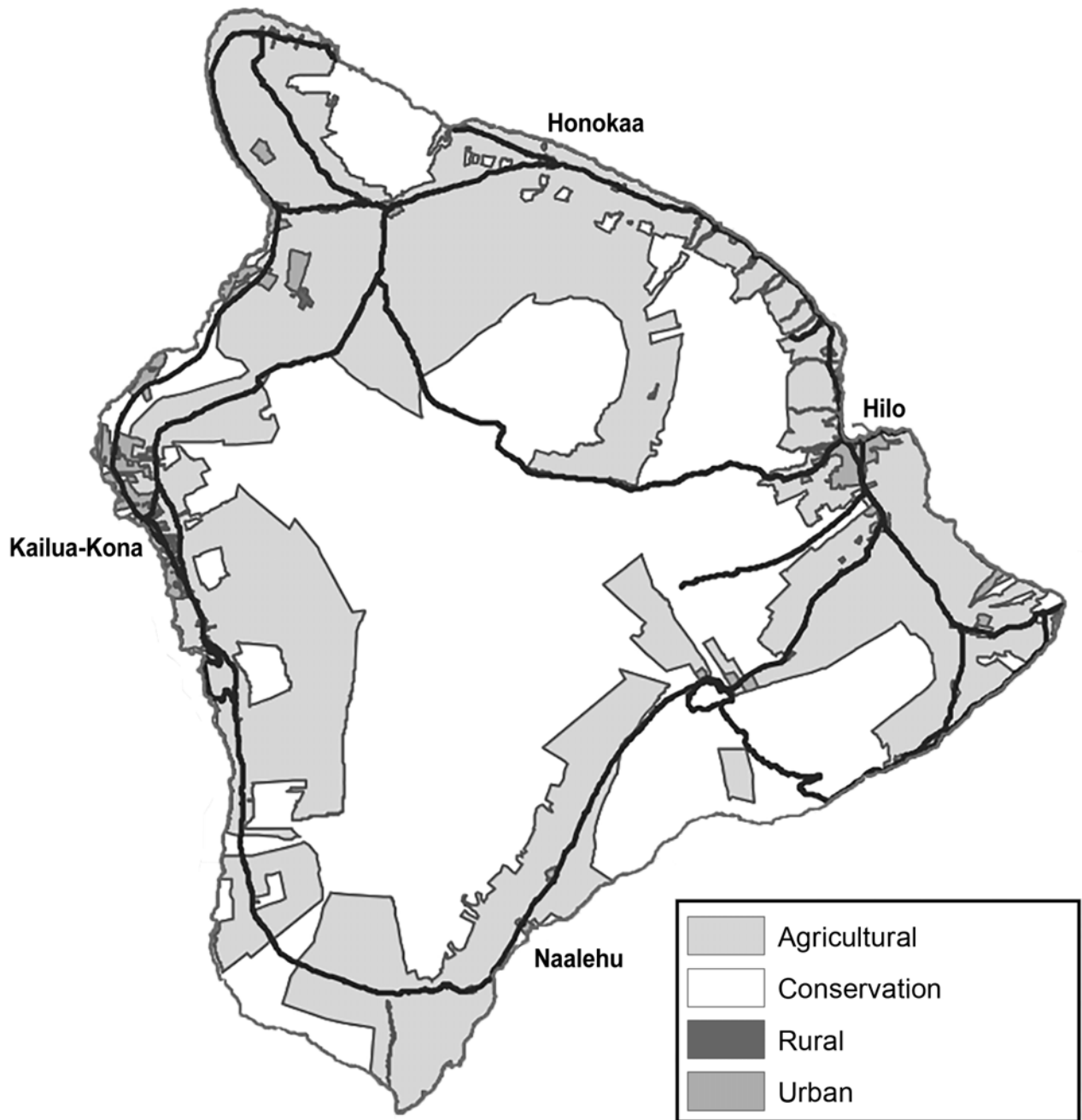
	2010	2011	2012	2013	2014	2015
Affordable Rental	167,136	223,895	175,094	180,869	172,625	207,900
Land	57,875	79,753	64,309	64,709	61,638	73,365
Improvements	109,261	144,142	110,785	116,160	110,987	134,535
Residential	7,177,592	6,745,984	6,738,613	6,732,870	7,292,307	8,010,960
Land	3,946,924	3,710,638	3,675,311	3,598,523	3,873,805	4,338,266
Improvements	3,230,668	3,035,346	3,063,302	3,134,347	3,418,502	3,672,694
Homeowner	8,903,467	8,915,120	9,039,395	9,311,972	9,703,387	10,011,153
Land	3,051,494	2,985,553	2,957,797	2,983,838	3,024,649	3,148,614
Improvements	5,851,973	5,929,567	6,081,598	6,328,134	6,678,738	6,862,539
Hotel/Resort	1,594,872	1,453,363	1,256,104	1,196,885	1,357,075	1,190,797
Land	731,699	631,223	537,754	502,928	623,893	480,119
Improvements	863,173	822,140	718,350	693,957	733,182	710,678
Apartment	3,904,958	4,017,915	3,559,432	3,574,694	3,888,725	4,125,279
Land	1,172,579	1,185,029	1,107,715	1,098,299	1,082,623	1,126,044
Improvements	2,732,379	2,832,886	2,451,717	2,476,395	2,806,102	2,999,235
Commercial	1,858,264	1,738,905	1,672,289	1,597,822	1,662,810	1,606,809
Land	1,016,978	927,768	899,274	841,035	844,398	803,813
Improvements	841,286	811,137	773,015	756,787	818,412	802,996
Industrial	1,086,608	1,042,581	966,283	940,787	1,058,257	1,050,572
Land	612,522	578,452	476,084	453,408	549,589	543,757
Improvements	474,086	464,129	490,199	487,379	508,668	506,815
Agricultural	5,692,162	5,183,300	5,072,530	5,065,062	5,309,882	5,507,654
Land	2,998,766	2,712,365	2,552,202	2,496,184	2,551,055	2,686,272
Improvements	2,693,396	2,470,935	2,520,328	2,568,878	2,758,827	2,821,382
Conservation	412,610	398,980	375,931	312,463	315,735	332,735
Land	361,655	350,798	329,588	271,497	267,132	282,561
Improvements	50,955	48,182	46,343	40,966	48,603	50,174
Total	30,797,669	29,720,043	28,855,671	28,913,424	30,760,803	32,043,859

NOTE: GROSS VALUATION IN THOUSANDS AS OF MID-APRIL.

SOURCE: CITY AND COUNTY OF HONOLULU, DEPARTMENT OF BUDGET AND FISCAL SERVICES. REAL PROPERTY ASSESSMENT DIVISION.

3.2.2

LAND USE DISTRICTS, HAWAI'I COUNTY



SOURCE: HAWAI'I STATE OFFICE OF PLANNING, HAWAI'I STATEWIDE GIS PROGRAM, APRIL 2013.

3.2.3

ESTIMATED ACREAGE OF LAND USE DISTRICTS BY ISLAND, 2014

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

Island	Classification by State Land Use Commission ²				
	Total Area ¹	Urban	Conservation	Agricultural	Rural
Hawai'i ³	2,573,400	54,145	1,304,347	1,212,886	2,023
Maui	465,800	24,191	194,836	242,720	4,053
Lāna'i	90,500	3,330	38,197	46,566	2,407
Moloka'i	165,800	2,539	49,768	111,627	1,866
Kaho'olawe	28,800	0	28,800	0	0
O'ahu	386,188	101,661	156,829	127,698	0
Kaua'i ⁴	353,900	14,573	198,769	139,305	1,253
Ni'ihau ⁴	45,700	0	0	45,700	0
Ka'ula and Lehua	400	0	400	0	0
Other islands ⁵	1,900	0	1,900	0	0
State total	4,112,388	200,439	1,973,846	1,926,502	11,602

1. THESE TOTALS DIFFER SOMEWHAT FROM THE OFFICIAL FIGURES BASED ON MEASUREMENTS BY THE GEOGRAPHY DIVISION OF THE U.S. BUREAU OF THE CENSUS, CITED IN SECTION 5.
2. FOR DEFINITIONS, SEE HAWAII REVISSED STATUTES, SECTION 205-2.
3. COUNTY RECORDS UPDATE INDICATED 5 ACRES CHANGED FROM AGRICULTURAL TO URBAN.
4. MAY BE REVISED, PENDING UPDATES OF COUNTY RECORDS.
5. THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL, EXCLUDING MIDWAY.

SOURCE: HAWAII STATE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT AND TOURISM, LAND USE COMMISSION, RECORDS.

3.2.4

LAND OWNERSHIP, HAWAI'I COUNTY



SOURCE: HAWAI'I STATE OFFICE OF PLANNING, HAWAI'I STATEWIDE GIS PROGRAM, AUGUST 2013.

3.2.5

NATIONAL AND STATE HISTORIC PLACES HAWAI'I COUNTY

(Kapoho Quad) King's Highway	Christ Church Episcopal	Kaiakekua Complex
(Kea'au Ranch Quad) Burials	Crater Rim Drive	Kalaniana'ole Elementary & Intermediate School
(Keāhole Quad) Habitation Cluster	Daifukuji Soto Zen Mission	Kalaoa Permanent House Site 10,205
(Keāhole Quad) Habitation Site	District Courthouse and Police Station	Kalapana Painted Church
(Keāhole Quad) House and Burials	East Hāmākua Protestant Church	Kaloko-Honokōhau National Hist. Park
(Keāhole Quad) Shelter and Pen	Edward H. and Claire Moses House	Kamakahonu, Residence of King Kamehameha I
(Keawanui Quad) Habitation & Burials	Francis E. Ii Brown House	Kamehameha Hall
(Keawanui Quad) Habitation Complex	Greenwell Store	Kamehameha III's Birthplace
(Keawanui Quad) Possible Heiau	H. Tanimoto Residence (Honomū Theater)	Kamoa Point Complex
(Keawanui Quad) Vault Complex	Hakalau Plantation Manager's House	Kapalaoa Archaeological District
(Manukā Quad) Habitation Complex	Hale Hālāwai o Hōlualoa	Ka'u High & Pāhala Elementary School
(Manukā Quad) Heiau and Trail	Haleokāne Heiau	Kaulanamaluna Upland Complex
(Manukā Quad) Koa	Hāmākua Steel Bridges	Kealakekua Bay Historical District
(Manukā Quad) Kuleana Complex	Hashimoto House	Keauohana ahupua'a Archaeol. District
(Manukā Quad) Lava Tube Complex	Hawi Plantation Manager's Residence	Keawaiki Complex
(Manukā Quad) Platform and Mounds	Heiau in Kukuipahu	Keolonāhihi/ Kamoa Point Complex
(Manukā Quad) Platform and Shelters	Heichi & Hawai Kawabata Home	Kīholo-Puakō Trail
(Manukā Quad) Shrine and Heiau	Herbert Austin Truslow House	Ki'i Petroglyphs
(Miloli'i Quad) Burial Cave	Hilina Pali Road	Kīlauea Crater
1790 Footprints	Hilo High School	Kīlauea Lodge
A. J. Williamson House	Hilo Masonic Lodge Hall	Kīpuka Malua Complex
A. Nanbu Hotel, Holy's Bakery	Hilo Union Elementary School	Kohala District Courthouse
Āhole Hōlua Complex	Hoku Loa Church	Kuamo'o Burials
Āhua A 'Umi Heiau	Hōlualoa 4 Archeological District	Lanihau Papamū
'Āinahou Ranch	Hōlualoa Telephone Exchange Building	Lapakahi Complex
'Ainapō Trail (Menzies Trail)	Honoka'a High & Elementary School	Laupāhoehoe High and Elementary School
Ala Loa (Puna District)	Honoka'a Plantation Manager's Res.	Levi and Netti Lyman House
Ala Loa Foot Trail	Honoka'a Town MP Ferreira Building	Ludloff Residence
Anna Ranch	Hulihe'e Palace	Mackenzie Petroglyphs
Asa and Lucy Thurston House Site	'Imiola Church	Mahana Archeological District
Bobcat Trail Habitation Cave	James and Catherine Parker House	Makeanehu Complex
Bond District	James M. Hind House	Manukā Bay Hōlua Slide
Boundary Change	Ka'elemakule-Magoon House Complex	Manukā Bay Petroglyphs
Chee Ying Society	Kahalu'u Historic District	Masao Kubo Residence
Chiefess Kapi'olani Elem. School	Kahikolu Church	

CONTINUES ON THE NEXT PAGE

3.2.5

CONTINUED

Matayoshi Hospital	S. Hata Building
Mauna Kea Adz Quarry	Samuel and Asako Haraguchi Residence
Mauna Loa Road	South Manukā Bay Complex
Mauna Loa Trail	South Point Complex
Michael Victor Houses	St. Benedict's Catholic Church
Moku'aikaua Church	Star of the Sea Church, Kalapana Painted Church
Mo'okini Heiau	Thomas Guard House (a.k.a. Wylie House and Leonard House)
Mountain View Theater	Tomikawa Store
Nā'ālehu School	Tong Wo Society Building
North Honomalino Complex	US Post Office & Office Building (Hilo)
Okoe Bay Complex	Uchida Coffee Farm
Old Laupāhoehoe Jodo Mission	Union Mill Managers Residence
Old Lindsey House	United Community Church
Old Riverside School (Hilo District Office)	Volcano Block Building
Old Volcano House No. 42	W. H. Shipman House
Old Waimea Elementary School Building/ Isaacs Art Center	W.H. Hill Residence a.k.a. Vernon D. & Alice L. Shutte Residence
'Opihikao Evangelical Church Residence	Waiākea Mission Station or Halli Church
Pā'auhau Plantation House	Waimea Elementary School
Palace Theater	Walter Irving & Jean Henderson House
Patrick and Ethel McGuinness Residence	Wawalo'i Habitation
Pua'a-2 Agricultural Fields Archeological District	Whitney Seismograph Vault No. 29
Puakea Ranch	Wilkes Campsite
Puakō Petroglyph Archeological District	Yamamoto Store
Puakō Petroglyph Boundary Change	
Puna-Ka'u Historic District, Hawai'i Volcanoes National Park	
Pu'uhonua o Hōnaunau National Historical Park	
Pu'ukoholā Heiau National Historic Site	
Rev. D. B. Lyman House	

SOURCE: HAWAII STATE DEPARTMENT OF LAND AND NATURAL RESOURCES, STATE HISTORIC PRESERVATION DIVISION.

3.2.6

NUMBER OF LAND RECORDS BY COUNTY

For fiscal year ending June 30

Year	Hawai'i	Honolulu	Kaua'i	Maui	State Total
2004	134,290	255,029	28,772	60,537	478,628
2005	134,021	258,415	28,936	61,273	482,645
2006	134,885	262,479	29,423	62,521	489,308
2007	136,612	268,441	30,831	64,597	500,481
2008	138,281	271,859	31,822	65,938	507,900
2009	139,167	274,483	32,398	67,981	514,029
2010	139,649	276,582	32,870	68,930	518,031
2011	139,883	277,581	32,993	70,365	520,822
2012	140,008	278,825	34,023	71,101	523,957
2013	140,196	279,754	34,172	71,234	525,356
2014	140,257	281,463	34,124	71,515	527,359
2015	140,336	285,092	33,370	71,907	530,705

SOURCE: CITY AND COUNTY OF HONOLULU, DEPARTMENT OF BUDGET AND FISCAL SERVICES. REAL PROPERTY ASSESSMENT DIVISION.

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, 2014	State Total	Hawai'i	Maui	Lāna'i	Moloka'i	O'ahu	Kaua'i
Acreage							
Homestead leases	NA	NA	NA	NA	NA	NA	NA
General leases	2,839	741	2	0	1,764	234	98
Licenses	24,322	16,470	7,110	0	350	309	84
Others	38,517	19,122	6,351	25	9,982	1,853	1,184
Homestead Leases							
Residential	8,329	1,707	1,276	29	394	4,223	700
Agricultural	1,101	506	65	0	423	61	46
Pastoral	408	305	75	0	27	0	1
Applications							
Residential	43,795	14,686	8,838	72	2,013	14,055	4,131
Agricultural	22,335	5,718	3,686	72	763	10,480	1,616
Pastoral	18,437	7,039	4,562	0	1,055	3,575	2,206
	3,023	1,929	590	0	195	0	309

NA: NOT AVAILABLE.

SOURCE: HAWAII STATE DEPARTMENT OF HAWAIIAN HOMELANDS, ANNUAL REPORTS AND RECORDS.

3.2.8

**DISPOSITION OF STATE LANDS
HAWAII COUNTY, 2015**

Document Number	Permittee or Grantee Name	Location	Acres	Use	Payment
Revocable Permits					
RP7847	Richard E. Souza and Donna Lee Souza	Ka'u	188	Pasture	1,440
RP7852	Ermino Mazzarino	Ka'u	2.44	Agriculture	480
General Leases & Term Easements					
GL6071	CH2, Stephen T. Hurwitz, and Robert P. Chancer	South Kohala	0.012	Seawall	37,300
GL6076	Water Board of the County of Hawaii	South Kohala	83.997	Utility	7,000
Perpetual Easements					
L0D29062	Scott and Constance E. Cirimeli	Ka'u	0.369	Access & Utility	10,260*
Subleases					
GL6076	Water Board of the County of Hawaii	South Kohala	84	Utility	0
	Sublessee: Lalamilo Wind Company, LLC.	South Kohala	44.5	Utility	6,000

* ONE-TIME PAYMENT.

SOURCE: STATE OF HAWAII, DEPARTMENT OF LAND AND NATURAL RESOURCES, LAND DIVISION.

3.2.9

SINGLE FAMILY HOME AND CONDOMINIUM SALES BY AREA, HAWAII COUNTY, 2015

Area	# Sales	% Change Last Yr	Median Price	% Change Last Yr	Total volume	% Change Last Yr
<u>Residential</u>						
Zone 1 Puna	641	3%	\$175,000	-3%	\$125,190,888	1%
Zone 2 South Hilo	286	4%	\$315,000	16%	\$103,781,579	15%
Zone 3 North Hilo	25	14%	\$450,000	20%	\$14,013,500	-3%
Zone 4 Hāmākua	50	28%	\$311,000	-7%	\$19,298,050	24%
Zone 5 North Kohala	45	27%	\$630,000	18%	\$36,071,856	-23%
Zone 6 South Kohala	279	19%	\$485,000	8%	\$214,869,729	53%
Zone 7 North Kona	454	4%	\$560,000	2%	\$401,594,845	-6%
Zone 8 South Kona	80	31%	\$386,500	7%	\$40,793,619	65%
Zone 9 Ka'u	145	9%	\$165,000	18%	\$26,168,800	13%
Total	2,005	6%	\$328,500	4%	\$981,782,866	8%
<u>Condominium</u>						
Zone 1 Puna	1	0%	\$255,000	0%	\$255,000	0%
Zone 2 South Hilo	63	15%	\$110,000	-6%	\$8,690,510	21%
Zone 3 North Hilo	0	0%	\$0	0%	\$0	0%
Zone 4 Hāmākua	0	0%	\$0	0%	\$0	0%
Zone 5 North Kohala	0	0%	\$0	0%	\$0	0%
Zone 6 South Kohala	207	-5%	\$457,000	-3%	\$123,989,207	-1%
Zone 7 North Kona	371	1%	\$265,000	2%	\$163,024,391	11%
Zone 8 South Kona	6	0%	\$243,500	0%	\$2,076,000	0%
Zone 9 Ka'u	3	-25%	\$100,000	-25%	\$303,000	-46%
Total	651	1%	\$275,000	-2%	\$298,338,108	7%

SOURCE: THE INFORMATION CONTAINED IN THIS REPORT IS COPYRIGHT 2015 BY HAWAII INFORMATION SERVICE.
INFORMATION COURTESY HAWAII INFORMATION SERVICE ON BEHALF OF HAWAII ISLAND REALTORS."

3.2.10

LAND AND COMMERCIAL SALES BY AREA, HAWAI'I COUNTY, 2015

Area	# Sales	% Change Last Year	Median Price	% Change Last Year	Total volume	% Change Last Year
<u>Vacant Land</u>						
Zone 1 Puna	856	-7%	\$18,000	-8%	\$24,512,411	-16%
Zone 2 South Hilo	121	27%	\$162,500	-2%	\$26,037,833	34%
Zone 3 North Hilo	7	-36%	\$350,000	100%	\$2,411,500	18%
Zone 4 Hāmākua	22	38%	\$240,000	10%	\$9,641,500	94%
Zone 5 North Kohala	45	-4%	\$239,000	-11%	\$16,122,700	-18%
Zone 6 South Kohala	66	10%	\$237,500	7%	\$39,495,400	-15%
Zone 7 North Kona	151	-16%	\$340,000	10%	\$164,574,847	13%
Zone 8 South Kona	62	2%	\$100,000	-35%	\$9,719,800	-24%
Zone 9 Ka'u	241	15%	\$11,500	-4%	\$16,958,386	277%
Total	1,571	-2%	\$27,500	1%	\$309,474,377	9%
<u>Commercial</u>						
Zone 1 Puna	1	-75%	\$200,000	-40%	\$200,000	-86%
Zone 2 South Hilo	10	-9%	\$272,500	82%	\$3,911,660	5%
Zone 3 North Hilo	0	0%	\$0	0%	\$0	0%
Zone 4 Hāmākua	0	-100%	\$0	-100%	\$0	-100%
Zone 5 North Kohala	1	-67%	\$367,500	19%	\$367,500	-86%
Zone 6 South Kohala	4	300%	\$585,000	38%	\$3,890,000	815%
Zone 7 North Kona	6	100%	\$617,500	45%	\$4,785,000	74%
Zone 8 South Kona	3	200%	\$970,000	146%	\$2,790,000	606%
Zone 9 Ka'u	3	-25%	\$7,100,000	-4%	\$7,100,000	0%
Total	26	4%	\$512,500	51%	\$23,044,160	92%

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3.2.11

FOREST AND NATURAL AREA ACREAGE BY ISLAND

On June 30, 2014

Island	Conservation district forest land		Natural areas	
	Forest reserve ¹	Private forest ²	Number of areas	Acres
State total	649,667	328,742	20	123,810
Hawai'i	446,766	106,745	8	94,954
Maui	68,220	53,180	5	18,543
Kaho'olawe	0	0	0	0
Lāna'i	0	6,150	0	0
Moloka'i	11,690	0	2	2,950
O'ahu	36,817	88,817	3	2,148
Kaua'i	86,174	73,850	2	5,215
Ni'ihau	NA	NA	NA	NA

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.

NA: NOT APPLICABLE.

SOURCE: HAWAII STATE DEPARTMENT OF LAND AND NATURAL RESOURCES, DIVISION OF FORESTRY AND WILDLIFE.

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