



Hawaii Weekly Crop Weather Report

National
Agricultural
Statistics
Service

Week ending: November 13, 2011

In Cooperation with the Hawaii Department of Agriculture

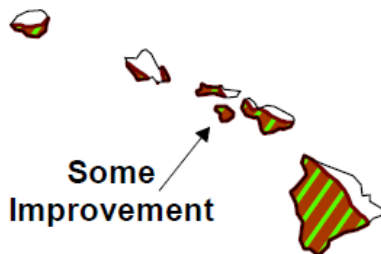
Hawaii Field Office · 1428 South King Street · Honolulu, HI 96814-9931 · 1-800-804-9514 · www.nass.usda.gov

Rains Bring Relief to Windward Areas



Weather Review

National Weather Service's Hydronet system of automated rain gauges showed significant rainfall fell especially on the Big Island of Hawaii. The National Drought Monitor showed improved drought condition ratings on November 8, 2011, at 7:00 AM EST compared to the previous week. Extreme drought ratings persisted on the Kohala coast and the extreme southern tip of Maui and Hawaii Islands. Extreme drought conditions were approximately 3 percent compared with slightly below 17 percent one year ago on November 2, 2010. The Seasonal Drought Outlook shows persistence drought tendencies for November 3, 2011, through January 31, 2012, show ongoing drought with some improvement for the leeward coasts of all islands plus most of Hawaii Island.



Hawaii County

The Waimea Irrigation System's water level was marked at 50.00 feet (51.70 million gallons) on Monday, November 14, 2011, up 10.00 feet or 25 percent from the November 7, 2011 reading. Laupahoehoe (HI80) weather station reported 8.46 inches of rain for this reference week. **The conservation status remains unrestricted.**

Maui County

The Molokai Irrigation System water level was marked at 12.00 feet (264.00 million gallons) on Monday, November 14, 2011, down 0.25 foot or 2 percent from the November 7, 2011 measurement. Drought condition ratings improved especially for windward slopes of Maui Island. **Phase III mandatory conservation measures remained in effect. Measures included a MANDATORY 30 percent conservation in usage from all non-homestead users.**

Honolulu County

The Waimanalo Irrigation System water level was marked at 22.50 feet (9.90 million gallons) on Monday, November 14, 2011, down 0.50 foot or 2 percent from the November 7, 2011 reading. Rainfall was heavier in the higher elevations and mountains as Mililani (HI14) received 1.87 inches of rain with the majority falling on Tuesday through Friday. Windward slopes and coast were no longer rated being in some stage of

drought conditions by the Hawaii Drought Monitor. **Effective October 17, 2011, a Phase I – Modified Conservation Measure is in place requiring a 10-percent mandatory water conservation was declared.**

Kauai County

Kauai County was partly cloudy throughout the week with measurable rainfall which echoed Honolulu County patterns. Similar to Honolulu County, the windward coast was no longer rated being in some stage of drought.



Agricultural Highlights

Orchards

Rainfall and irrigation (where available), coupled with clear skies, were beneficial for crop development. Coffee and macadamia nut harvest activities continued with no delays attributed to weather conditions.

Vegetables

Vegetables were mostly in good to fair condition depending on location and availability of irrigation water.

Livestock and Pasture

Rains on the mountain and windward slopes enhanced forage growth, but more moisture was needed especially on pastures located on the leeward slopes.

Mark Hudson, Director

Naomi Landgraf, Research Statistician – Maui County

U.S. Drought Monitor

Hawaii

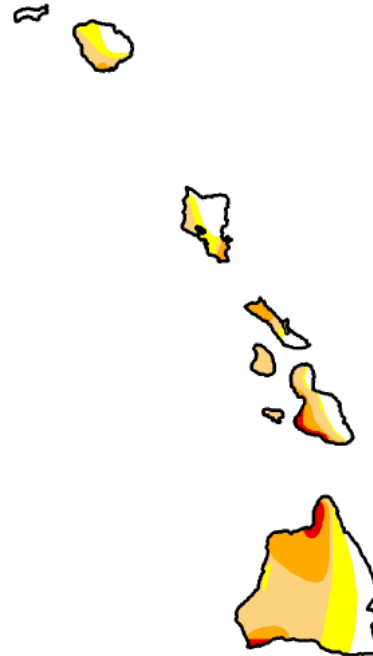
November 8, 2011
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	22.57	77.43	56.27	21.77	3.49	0.00
Last Week (11/01/2011 map)	1.18	98.82	66.08	21.23	3.49	0.00
3 Months Ago (08/09/2011 map)	24.68	75.32	39.33	4.80	0.00	0.00
Start of Calendar Year (12/28/2010 map)	46.22	53.78	36.40	20.50	2.43	0.00
Start of Water Year (09/27/2011 map)	5.02	94.98	44.93	14.84	0.85	0.00
One Year Ago (11/02/2010 map)	32.95	67.05	50.64	37.00	16.81	2.62

Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu>



Released Thursday, November 10, 2011
Brian Fuchs, National Drought Mitigation Center

Monthly Trend for Selected Stations

Comparison of 2011 cumulative monthly and annual totals with average monthly totals for selected stations. ^{1/}

Station name		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<i>Inches</i>														
Island of Hawaii														
1. Kamuela	2011	1.6 _p	1.9	1.8	1.2	1.2	2.7 _p	2.4	1.7 _p	1.0	1.2	1.9	0.0	18.5 _p
	Average	6.6	6.0	7.9	6.9	4.0	2.2	3.7	4.1	2.2	3.3	5.8	7.3	60.0
2. Kealahou	2011	1.0 _p	2.7	5.2	6.9	9.0	3.0 _p	1.2	2.9	3.8 _p	8.0	2.3 _p	0.0	46.0 _p
	Average	4.7	3.4	5.6	6.2	7.7	8.2	8.7	8.3	8.2	6.2	4.4	3.4	75.0
3. Laupahoehoe	2011	4.1 _p	2.1	10.5	3.2	6.4	6.0 _p	3.4	7.1 _p	5.4	3.3	14.7	0.0	66.1 _p
	Average	13.5	13.2	19.5	18.9	11.7	6.2	10.0	12.4	6.9	9.3	13.6	14.8	150.0
4. Mt. View	2011	7.1 _p	4.6	16.8	8.0	16.1	10.6 _p	6.9	8.7 _p	9.1	7.6	13.5	0.0	109.2 _p
	Average	14.1	13.6	19.6	18.0	13.1	9.4	12.8	14.6	10.7	12.1	15.8	16.2	170.0
5. Pahala	2011	1.4 _p	4.5	4.1	4.1	3.5	0.1 _p	0.8	0.4	2.2	1.2	0.2	0.0	22.4 _p
	Average	7.7	6.1	6.3	5.0	3.8	2.2	2.1	3.3	3.4	4.2	5.5	5.4	55.0
6. Pahoa	2011	3.4 _p	3.1	11.2	4.7	7.0	8.6 _p	5.8	6.8	4.8	5.2	11.1	0.0	71.5 _p
	Average	13.9	10.9	10.5	13.9	10.5	7.1	9.8	10.6	9.2	11.5	13.3	14.6	140.0
Island of Maui														
7. Hana	2011	5.1 _p	1.9 _p	0.0 _p	0.0 _p	1.2 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0	8.2 _p
	Average	8.5	5.7	9.1	7.5	5.9	4.1	5.9	5.8	6.1	7.3	8.0	6.1	80.0
8. Kula	2011	6.1 _p	4.4	1.4	1.8	1.1	0.3 _p	0.1	0.0	0.7	0.4	1.1	0.0	17.4 _p
	Average	3.5	3.0	2.5	1.6	1.1	0.8	0.8	0.8	1.1	1.5	2.3	3.3	22.3
9. Lahainaluna	2011	1.1 _p	1.0	0.8	0.3	0.3	0.1 _p	*	*	0.5	*	0.5	0.0	4.7 _p
	Average	4.4	2.7	2.4	1.7	0.7	0.2	0.3	0.6	0.6	1.0	2.0	3.4	20.0
10. Wailuku	2011	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.6 _p	0.0 _p	0.0	0.6 _p
	Average	5.2	3.8	3.6	3.0	1.2	0.4	0.6	0.7	0.6	1.7	2.9	4.3	28.0
Island of Oahu														
11. Kahuku	2011	5.6 _p	2.4	3.6	2.2 _p	12.7	5.2 _p	2.6	1.1	0.8	1.1	0.8	0.0	37.9 _p
	Average	6.3	4.2	5.3	4.0	2.5	1.9	2.2	2.6	2.2	4.0	4.6	5.3	45.0
12. Mililani	2011	1.7 _p	3.0	3.9	5.7	8.7	3.4 _p	2.8	1.1	0.6	1.9	5.0	0.0	37.9 _p
	Average	6.4	4.9	4.9	4.0	2.5	1.7	2.1	2.4	1.7	3.7	4.5	6.2	45.0
13. Waianae	2011	8.4 _p	4.5	1.7	1.8	2.6	0.2 _p	0.4	*	*	0.4	0.3	0.0	20.3 _p
	Average	3.8	2.3	2.5	1.6	0.7	0.3	0.3	0.7	0.7	1.8	2.0	3.3	20.0
14. Waimanalo	2011	5.6 _p	3.6 _p	4.2	1.5	2.1	1.5 _p	0.5	0.6 _p	0.3	1.2	0.6	0.0	21.7 _p
	Average	6.8	4.6	3.6	3.2	3.2	1.5	1.6	1.5	2.0	3.7	5.6	5.5	42.8
Island of Kauai														
15. Moloaa Dairy	2011	1.1 _p	1.7	0.4	1.0	3.9	2.1	0.8	0.4	0.0	1.4	4.4	0.0	17.2 _p
	Average	6.9	4.7	6.2	5.0	3.9	1.7	2.7	2.6	2.2	5.0	5.4	5.6	51.9
16. Hanalei	2011	0.0 _p	0.0 _p	0.0 _p	0.7 _p	19.1	6.7	4.2 _p	2.1 _p	1.9 _p	1.7 _p	4.1 _p	0.0	40.3 _p
	Average	11.8	9.4	13.4	12.2	9.3	6.5	9.8	8.7	6.9	8.5	10.2	12.0	118.7
17. Omao	2011	5.0 _p	6.1 _p	7.6	2.4	12.0	6.0 _p	4.8 _p	2.4	1.6	3.1	5.6	0.0	56.6 _p
	Average	6.9	4.5	5.5	5.2	4.2	3.4	4.7	4.6	3.8	4.7	5.9	6.7	60.0

^{1/} Rainfall stations were selected from the National Weather Service's Hydronet system of automated rain gauges. All data has not been quality controlled to date, and therefore is not certified by the National Weather Service.

M = Missing. p = Partial or incomplete. e = Estimated. * = More than zero, but less than .05 inches of rain.

Precipitation for week ending November 13, 2011
Daily, weekly, and year-to-date precipitation totals for selected Hawaii stations.^{1/}

Station name and identification number	24-Hour totals at 8 a.m.							Weekly total	Jan. 1 to date
	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
<i>Inches</i>									
Island of Hawaii									
1. Kamuela (HI86)	0.00	0.02	0.22	0.85	0.00	0.45	0.03	1.57	18.47 p
2. Kealakekua (HI84)	0.72	0.08	0.01	0.00	0.00	0.00	0.00	0.81	46.02 p
3. Laupahoehoe (HI80)	0.00	0.61	1.54	0.69	1.14	3.44	1.04	8.46	66.09 p
4. Mt. View (HI81)	0.09	0.48	0.73	1.66	0.57	2.38	0.83	6.74	109.20 p
5. Pahala (HI85)	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04	22.38 p
6. Pahoa (HI83)	0.03	0.46	1.37	0.26	0.78	0.77	0.14	3.81	71.51 p
Island of Maui									
7. Hana (HI61)	M	M	M	M	M	M	M	M	8.24 p
8. Kula (HI65)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.38 p
9. Lahainaluna (HI60)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.71 p
10. Wailuku (HI66)	M	M	M	M	M	M	M	M	0.63 p
Island of Oahu									
11. Kahuku (HI09)	0.16	0.04	0.04	0.02	0.16	0.02	0.00	0.44	37.92 p
12. Mililani (HI14)	0.05	0.24	0.38	0.44	0.71	0.04	0.01	1.87	37.86 p
13. Waianae (HI17)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.29 p
14. Waimanalo (HI13)	0.00	0.02	0.01	0.00	0.07	0.01	0.00	0.11	21.69 p
Island of Kauai									
15. Moloaa Dairy	0.03	0.06	0.04	0.04	0.02	0.01	0.04	0.24	17.24 p
16. Hanalei (HI45)	M	M	M	M	M	M	M	M	40.34 p
17. Omao (HI51)	0.12	0.23	0.07	0.20	0.40	0.10	0.00	1.12	56.57 p

^{1/} Rainfall stations were selected from the National Weather Service's Hydronet system of automated rain gauges. All data has not been quality controlled to date, and therefore is not certified by the National Weather Service.

M = Missing. p = Partial or incomplete. e = Estimated. * = More than zero, but less than .05 inches of rain.

U.S. Department of Agriculture
NASS, Hawaii Field Office
1428 South King Street
Honolulu, HI 96814-2512

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE, \$300

RETURN SERVICE REQUESTED