



Hawaii Weekly Crop Weather Report

National
Agricultural
Statistics
Service

Week ending: October 3, 2010

In Cooperation with the Hawaii Department of Agriculture

Hawaii Field Office · 1428 South King Street · Honolulu, HI 96814-2512 · 1-800-804-9514 · www.nass.usda.gov

Beneficial Rain for Northern Islands



Weather Review

Rainfall for the northern islands was beneficial and much improved over previous weeks. Early in the week, there was little rain for most areas with partly cloudy skies and light and variable trades. As the week progressed, showers, some heavy at times, moved across the islands, with the northern islands receiving the greatest amount of precipitation early in the week. Over the weekend, the Island of Hawaii also received a good amount of rain. Rainfall over the week led to a slight overall increase in the Waimanalo irrigation system on Oahu. The Island of Molokai as well as the Island of Hawaii showed minor decreases in their irrigation system levels. The Drought Monitor indications shifted, indicating more intense drought on Kauai as extreme [D3] drought levels expanded slightly in the southern areas of the Island.

HIGHLIGHTS: A record daily maximum rainfall of .21 inches was set in Honolulu on Thursday September 30th. This breaks the old record of .18 inches in 1990.

Hawaii County

The summer maximum of the south Kona region ended with a total of 11.9 inches during the months of July, August, and September, according to the National Weather

Service. True to normal trends, rain over the last three months has accounted for 63 percent of the rain over the last nine months. The Waimea Irrigation System water level was marked at 48 feet on Friday, October 1st; a decrease of 3 percent from the previous week's reading of 49.5 feet.

Maui County

Clear skies early in the week were accompanied by a lack of trade winds. As the week progressed, trades picked up and skies grew cloudier with precipitation coming late in the week. The Molokai Irrigation System water level was marked at 13 feet on Friday, October 1st; a decrease of 4 percent from last week's reading of 13.5 feet. **Phase III mandatory conservation measures remained in effect. Measures included a MANDATORY 30 percent conservation in usage from all non-homestead users.**

Honolulu County

Interior sections of Oahu got doused midweek. The rainfall was in stark contrast to what the areas, including the downtown area, had seen in quite some time. Heavy rainfall brought rainfall totals at the Honolulu International Airport to within .11 inches of a normal .74 inches. The Waimanalo Irrigation System water level was marked at 24 feet on Friday, October 1st; an increase of 2 percent from the previous week's

reading of 23.5 feet. **Phase III mandatory conservation measures remained in effect. Measures included a MANDATORY 30 percent reduction in use and water service limited to Mondays, Wednesdays, and Fridays between the hours of 7 am and 3:30 pm.**

Kauai County

Last week, Kauai was the beneficiary of decent rainfall. The rainfall was beneficial for orchards and other crops across the County. Over the past month of September, at Lihue airport, there was a total of 1.33 inches of rain. This is a 51 percent departure from normal. This, however, is an increase from last year's total monthly rainfall for September that was .9 inches.



Agricultural Highlights

Orchards

Orchards were in good conditions for the majority of the State. Irrigation in drier areas remained necessary, which varied by specific location.

Vegetables

Vegetables were in by and large in good shape. Rain was not excessive enough to cause any significant crop damage.

Livestock and Pasture

With rainfall good over the previous week pastures did not continue to degrade but conditions continue to be based on location.

Mark Hudson, Director

Larry Chun, Agricultural Statistician

National Agricultural Summary

September 26 - October 2, 2010

Highlights: Tropical moisture, fed between a "cut-off" low-pressure system over the Southeast and a high-pressure system over the western Atlantic Ocean, led to record-setting rainfall in the East. The rich feed of moisture, which included the remnants of Tropical Storm Nicole, eased or eradicated Eastern drought but threatened the quality of open-boll cotton and other unharvested summer crops. Weekly rainfall topped 10 inches in parts of the Mid-Atlantic coastal plain, particularly across eastern North Carolina and southeastern Virginia. Farther west, cool, dry air settled across the Corn Belt and much of the South. In fact, late-week freezes ended the growing season on October 2-3, roughly on schedule, across much of the upper Midwest. Corn and soybeans were largely mature in the freeze-affected area, minimizing the impact of the cold snap. Previously flooded sections of the upper Midwest experienced an extended period of favorably dry weather, allowing fieldwork to gradually resume. Meanwhile on the Plains, dry weather promoted summer crop maturation and harvesting, and winter wheat planting and emergence. However, pockets of dryness on the central and southern Plains raised concerns with respect to winter wheat establishment. Elsewhere, mostly dry weather and record-setting warmth prevailed in the West. On September 27, all-time-record highs were established at a few locations in southern California, including downtown Los Angeles. The warmth favored fieldwork, including winter wheat planting in the Northwest, rice harvesting in California, and cotton harvesting in Arizona.

U.S. Drought Monitor

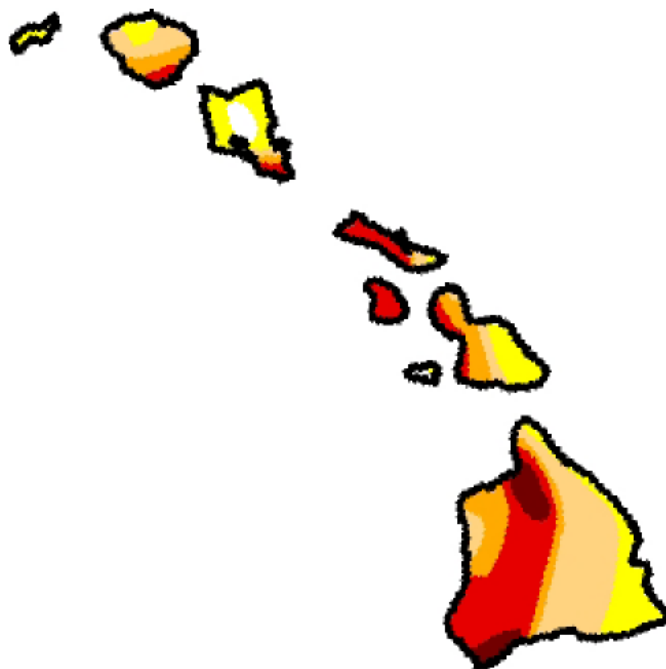
September 28, 2010

Valid 7 a.m. EST

Hawaii

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2.2	97.8	73.9	46.8	31.5	5.1
Last Week (09/21/2010 map)	2.2	97.8	73.9	46.8	31.0	5.1
3 Months Ago (07/06/2010 map)	0.4	99.6	72.8	44.4	30.6	5.1
Start of Calendar Year (01/05/2010 map)	31.1	68.9	53.8	36.9	6.4	0.0
Start of Water Year (10/06/2009 map)	18.8	81.2	51.4	32.8	6.7	0.0
One Year Ago (09/29/2009 map)	18.8	81.2	51.4	32.8	6.7	0.0



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://drought.unl.edu/dm>



Released Thursday, September 30, 2010

Author: R. Heim/L. Lov-Brotak, NCDC/NOAA

Monthly Trend for Selected Stations

Comparison of 2010 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	2010	2.4	0.7	6.8	3.5	0.7	1.3	1.7	1.9	0.9	0.6	0.0	0.0	20.4
	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	2010	1.4	0.1 _p	* _p	1.3	1.9	1.3 _p	4.8	3.6 _p	3.1	1.0	0.0	0.0	18.5 _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	2010	3.9	3.1	20.2	10.0	2.0	2.6	2.6	4.0	2.4	0.2	0.0	0.0	51.2
	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	2010	1.6	2.4	16.9	12.2 _p	7.6	5.8	5.7	5.7	3.9	0.2	0.0	0.0	61.8 _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	2010	0.1	1.6	1.0	0.8	0.6	0.3	0.5	0.2	0.4	0.2	0.0	0.0	5.7
	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	2010	1.1	1.5	8.8	7.8	3.8	4.6	5.1	5.1	3.1	0.1	0.0	0.0	41.0
	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	2010	1.5 _p	0.8	7.3	6.7 _p	2.2 _p	1.3 _p	6.0 _p	3.8 _p	2.8	0.7	0.0	0.0	33.0 _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	2010	0.9	1.0	2.4	0.7	0.2	0.1	0.1	0.1 _p	*	0.4	0.0	0.0	6.0 _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	2010	0.1	0.1	0.4	0.1	*	*	0.3	0.1	*	0.2	0.0	0.0	1.3
	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	2010	0.3 _p	0.3 _p	0.2 _p	0.1 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0 _p	0.0	0.0	0.9 _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	2010	0.7 _p	* _p	0.1 _p	3.4	2.0	0.7	1.6	1.6	1.5	0.2	0.0	0.0	11.8 _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	2010	1.7	1.4	4.5	4.7	4.6	0.9	2.4	3.0	0.9	0.8	0.0	0.0	24.8
	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	2010	0.5 _p	0.2 _p	0.9	0.5	1.4	0.1	0.1	0.0	0.2	0.2	0.0	0.0	4.0 _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	2010	5.6	1.5	1.0	0.3 _p	0.7 _p	0.2	0.8	0.7	1.4	0.4	0.0	0.0	12.5 _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	2010	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	0.0 _p	0.0	0.0	0.0 _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	2010	0.0 _p	0.0 _p	0.0 _p	8.5 _p	1.1 _p	1.1 _p	0.0 _p	1.9 _p	0.2 _p	0.3	0.0	0.0	13.2 _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	2010	2.9	0.8	5.7	6.9	2.9	2.3	2.5	3.7 _p	2.3	0.1	0.0	0.0	30.1 _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 October 3, 2010
 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	0.00	0.00	0.00	0.49	0.12	0.02	0.63	20.44
2. Kealakekua (HI84)	0.00	0.00	0.04	0.00	0.60	0.00	0.43	1.07	18.53 p
3. Laupahoehoe (HI80)	0.00	0.00	0.00	0.00	0.00	0.07	0.17	0.24	51.18
4. Mt. View (HI81)	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.18	61.78 p
5. Pahala (HI85)	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.20	5.69
6. Pahoa (HI83)	0.03	0.00	0.00	0.00	0.00	0.00	0.14	0.17	40.95
Island of Maui									
7. Hana (HI61)	0.11	0.00	0.00	0.00	0.09	0.54	0.02	0.76	32.96 p
8. Kula (HI65)	0.00	0.00	0.00	0.00	0.13	0.24	0.00	0.37	6.01 p
9. Lahainaluna (HI60)	0.00	0.00	0.00	0.02	0.03	0.14	0.00	0.19	1.32
10. Wailuku (HI66)	M	M	M	M	M	M	M	M	0.93 p
Island of Oahu									
11. Kahuku (HI09)	0.01	0.00	0.00	0.20	0.11	0.02	0.09	0.43	11.77 p
12. Mililani (HI14)	0.00	0.00	0.00	0.17	0.67	0.11	0.01	0.96	24.84
13. Waianae (HI17)	0.00	0.00	0.00	0.12	0.06	0.11	0.00	0.29	4.01 p
14. Waimanalo (HI13)	0.00	0.00	0.00	0.17	0.38	0.02	0.00	0.57	12.53 p
Island of Kauai									
15. Moloaa Dairy	M	M	M	M	M	M	M	M	0.00 p
16. Hanalei (HI45)	M	M	0.00	0.08	0.02	0.23	0.08	0.41	13.18 p
17. Omao (HI51)	0.01	0.00	0.00	0.15	0.02	0.00	0.09	0.27	30.10 p

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