



Hawaii Weekly Crop Weather Report

National
Agricultural
Statistics
Service

Week ending: August 22, 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

Low Rains, Red Flag Warning



Weather Review

Rainfall continued to be poor, with water gauges relatively unchanged from last week's sub one-inch totals. The Big Island received most of its light showers over the weekend while all other islands experienced their showers early in the week with little to no moisture in the latter half of the week. The Drought Monitor indications remained nearly the same as the previous week's with 97.8 percent of the State under some type of drought condition. On the island of Kauai, severe [D2] drought was introduced as pastures and rangelands continue to worsen, causing impacts to the ranching industry there. In addition, there was a red flag warning issued by the NWS on the 19th that was cancelled on the 22nd. The issue affected all islands and was focused on the leeward and central parts of most islands. A red flag warning means that there are, or will be shortly be, critical fire weather conditions. These included a combination of a stable atmosphere, strong winds, low relative humidity, and warm temperatures, all that created the potential for rapid growth of fires. The warning was cancelled after fire hazard conditions were moderated as a result of relative humidity values rising above critical levels and trade wind speeds decreased.

Hawaii County

Rainfall decreased from the previous week in most locations, as showers were light and localized. A wildfire that started late in the weekend was reported to be burning rampantly on the Pohakuloa Training Area and had consumed over 1,000 acres. The rapid spread of the fire was aided by dry brush in the area which is experiencing drought conditions. The Waimea Irrigation System water level was marked at 49.9 feet on Wednesday, August 18th (the most recent date which data is available); an increase of 1 percent from the previous week's reading of 49.5feet.

Maui County

Maui Country was mostly dry during the week with little rain after light showers that took place early in the week. The Molokai Irrigation System water level was marked at 14.5 feet on Tuesday, August 17th (the most recent date which data is available); no change from previous week's reading. **Phase III mandatory conservation measures remained in effect. Measures included a MANDATORY 30 percent conservation in usage from all non-homestead users.**

Honolulu County

Conditions on Oahu were similar to that of Maui County. Farmers on the Waianae coast reported that conditions had been drier than

normal, and had been for quite some time. The Waimanalo Irrigation System water level was marked at 14 feet on Wednesday, August 18th (the most recent date which data is available); an increase of 8 percent from the previous week's reading of 13 feet. **Phase III mandatory conservation measures remained in effect. Measures included a MANDATORY 30% reduction in use and water service limited to Mondays, Wednesdays, and Fridays between the hours of 7 am and 3:30 pm.**

Kauai County

Partly cloudy skies with some rain showers were present early in the week. These clouds gave way to sunshine as the week moved on and temperatures rose



Agricultural Highlights

Orchards

Sunny skies promoted good progress where crops were irrigated. Those areas without irrigation did poorly and continued to wither.

Vegetables

No significant changes reported. Hot conditions affected farmers on the leeward side.

Livestock and Pasture

Low rainfall has continued to degrade pasture conditions in most areas.

Mark Hudson, Director
King Whetstone, Deputy Director

Larry Chun, Agricultural Statistician

National Agricultural Summary

August 15 - 21, 2010

Highlights: The remnants of Tropical Depression Five contributed to heavy rainfall from the central Gulf Coast into the interior Southeast. Although the rain arrived too late for many summer crops, pastures and late-planted soybeans were among the commodities to benefit from the boost in soil moisture. Farther west, early-week showers on the central and southern Plains were replaced by very hot weather. On the northern Plains, small grain harvesting proceeded under favorable conditions. Meanwhile, saturated fields in the northern and western Corn Belt benefited from drier weather. Nevertheless, weekly rainfall totaled 2 inches or more in parts of the middle Mississippi Valley. Elsewhere, warm, dry weather favored fieldwork and crop development in much of the West. Western showers were mostly confined to the Four Corners States, while cool conditions were limited to the immediate Pacific Coast. In fact, near- to above-normal temperatures covered much of the Nation. Late-week readings briefly soared to 100 degrees Fahrenheit or higher as far north as eastern Montana. Triple-digit heat persisted for much of the week in the south-central United States, although key crop areas on the southern High Plains continued to largely avoid 100-degree temperatures.

U.S. Drought Monitor Hawaii

August 17, 2010

Valid 7 a.m. EST

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2.2	97.8	69.0	44.0	30.6	5.1
Last Week (08/10/2010 map)	2.2	97.8	68.0	43.5	30.6	5.1
3 Months Ago (05/25/2010 map)	32.9	67.1	49.3	42.3	25.1	3.1
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 (08/18/2009 map)	30.0	70.0	51.4	32.6	3.1	0.0

Intensity:

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



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



Released Thursday, August 19, 2010

Author: Brian Fuchs, National Drought Mitigation Center

<http://drought.unl.edu/dm>

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	1.3	0.0	0.0	0.0	0.0	18.2
	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	3.4 _p	0.0	0.0	0.0	0.0	14.2 _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	1.7	0.0	0.0	0.0	0.0	46.3
	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	4.3	0.0	0.0	0.0	0.0	56.3 _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	0.1	0.0	0.0	0.0	0.0	4.9
	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	4.0	0.0	0.0	0.0	0.0	36.6
	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	3.2	0.0	0.0	0.0	0.0	28.9 _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	0.0	0.0	0.0	0.0	5.6 _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	0.0	0.0	0.0	0.0	1.1
	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	0.0	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	1.2	0.0	0.0	0.0	0.0	9.6 _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	2.1	0.0	0.0	0.0	0.0	22.2
	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	0.0	0.0	0.0	0.0	3.6 _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	0.6	0.0	0.0	0.0	0.0	10.6 _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	0.0	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	1.5 _p	0.0	0.0	0.0	0.0	12.2 _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	2.3 _p	0.0	0.0	0.0	0.0	26.3 _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 August 22, 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)	0.03	0.00	0.00	0.12	0.03	0.07	0.04	0.29	18.22
2. Kealakekua (HI84)	M	0.00	0.06	0.08	0.17	0.02	0.01	0.34	14.20 p
3. Laupahoehoe (HI80)	0.10	0.00	0.00	0.12	0.00	0.20	0.12	0.54	46.26
4. Mt. View (HI81)	0.13	0.00	0.04	0.12	0.03	0.04	0.49	0.85	56.32 p
5. Pahala (HI85)	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.07	4.92
6. Pahoa (HI83)	0.16	0.01	0.19	0.14	0.01	0.08	0.15	0.74	36.62
Island of Maui									
7. Hana (HI61)	0.21	0.07	0.09	0.22	0.06	0.01	0.00	0.66	28.89 p
8. Kula (HI65)	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.03	5.57 p
9. Lahainaluna (HI60)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13
10. Wailuku (HI66)	M	M	M	M	M	M	M	M	0.93 p
Island of Oahu									
11. Kahuku (HI09)	0.00	0.14	0.21	0.02	0.13	0.00	0.01	0.51	9.64 p
12. Mililani (HI14)	0.01	0.04	0.02	0.00	0.00	0.00	0.01	0.08	22.24
13. Waianae (HI17)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63 p
14. Waimanalo (HI13)	0.05	0.07	0.00	0.01	0.01	0.00	0.00	0.14	10.64 p
Island of Kauai									
15. Moloaa Dairy	M	M	M	M	M	M	M	M	0.00 p
16. Hanalei (HI45)	0.15	0.01	0.03	M	0.00	0.00	M	0.19	12.21 p
17. Omao (HI51)	0.26	0.08	0.19	0.03	0.00	0.04	0.02	0.62	26.27 p

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