



# Hawaii Crop Weather



Week ending: August 25, 2013

In Cooperation with the Hawaii Department of Agriculture

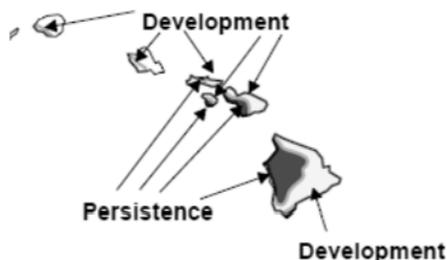
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## Scattered Showers



### Weather Review

Showers were light and scattered during the week as Hana on Maui Island was the only published Hydronet station with weekly totals over a half inch of measurable rain. On August 20, U.S. Drought Monitor reported that 75.46 percent of the state was abnormally dry or drier. Drought ratings spread to the leeward coasts of Oahu and Kauai Islands. Seasonal drought outlook for the dates of July 18<sup>th</sup> to October 31<sup>st</sup> indicated drought persistence was likely on the leeward mount slopes and coasts of Hawaii, Lanai, Maui, and Molokai Islands with drought development through the middle and all windward areas of those same islands.



### Hawaii County

Light trade winds kept precipitation light this week and temperatures warm. Skies around the island were mostly sunny with some light volcanic haze. Temperatures were in the mid-eighties during the day and about 70 during the night. Most rain gauges caught only about a 0.1 inch of rainfall throughout

the week. On August 22, over one inch was collected in two rain gauges (Hilo and Waimea Plain). Active crop irrigation was observed in Hamakua and North Kohala. Pastures at moderate elevations in the interior section of the island, Hamakua, North Kohala and South Kohala were in good condition; at lower elevations pastures lacked green forage. The Waimea Irrigation System (Puukapu Reservoir) water level was steady all week; it was marked at 48.5 feet (49.9 million gallons) on Friday, August 23, 2013, down 1.5 foot from the reading taken on Thursday, August 15, 2013. Readings for Friday, August 16, 2013, were not available due to observing the Admissions Day Holiday. **Conservation status was unrestricted.**

### Honolulu County

Rainfall amounts reported by the National Weather Service's Hydronet systems of automated rain gauges reported an average of 0.12 inch. The Waimanalo Irrigation System water level was marked at 62 feet (59 million gallons) on Friday, August 23, unchanged from the reading taken on Thursday, August 15. **A voluntary 10 percent water conservation status was in effect.**

### Maui County

The warm and sunny weather received this week has allowed for active harvesting for most crops. The warm growing conditions have enabled good growth and development for vegetable and fruit crops. Active harvesting of

sugarcane was also noted this week. Temperatures were in the mid to high eighties and trade winds were very light mid week. The unusual increase in rainfall received this summer has been beneficial for agriculture throughout the Maui County. Some crops are receiving slightly higher yields compared to yield for the same time last year. The increased production has affected market conditions and prices. Most pastures have improved conditions with some regrowth. The Molokai Irrigation System water level was marked at 18.75 feet (412.5 million gallons) on Friday August 23, down 0.25 foot from the reading taken Thursday, August 15. **Conservation measures required all non-homestead water users to cutback water consumption by 20 percent.**

### Kauai County

All of Kauai County continued to be rated as having no stage of drought on August 20, 2013, with the exception of portions on the leeward coast.



### Agricultural Highlights

#### Orchards and Vegetables

Crop harvest, sprays, and harvest activities continued after experiencing windy and rainy conditions earlier in week.

#### Livestock and Pasture

Rains needed for most pastures.

Mark Hudson, State Statistician

Naomi Landgraf, Research Statistician – Maui County  
Cheresa Coles, Research Statistician – Hawaii County

# U.S. Drought Monitor

## Hawaii

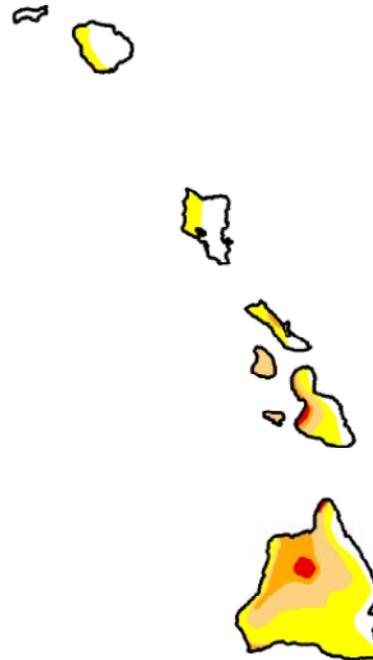
August 20, 2013  
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	24.54	75.46	34.57	12.56	2.51	0.00
Last Week (08/13/2013 map)	20.65	79.35	34.57	12.56	2.51	0.00
3 Months Ago (05/21/2013 map)	24.47	75.53	36.65	18.78	3.23	0.00
Start of Calendar Year (01/01/2013 map)	17.25	82.75	63.34	25.55	10.36	0.00
Start of Water Year (09/25/2012 map)	22.16	77.84	55.86	27.35	10.77	0.00
One Year Ago (08/14/2012 map)	19.43	80.57	54.10	25.30	8.87	0.00

**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.



Released Thursday, August 22, 2013  
Michael Brewer, National Climatic Data Center, NOAA

<http://droughtmonitor.unl.edu>

### Monthly Trend for Selected Stations

Comparison of 2013 cumulative monthly and annual totals with average monthly totals for selected stations. <sup>1/</sup>

Station name		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<i>Inches</i>														
<b>Island of Hawaii</b>														
1. Kamuela	2013	0.8	5.1	2.1	0.6	2.3 <sub>p</sub>	1.5	2.2 <sub>p</sub>	1.5	0.0	0.0	0.0	0.0	16.1 <sub>p</sub>
	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	2013	2.2	1.7	4.2	0.5	8.4 <sub>p</sub>	3.3	4.8 <sub>p</sub>	0.8	0.0	0.0	0.0	0.0	25.8 <sub>p</sub>
	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	2013	4.6	22.8	4.1	1.1	5.4 <sub>p</sub>	2.6	2.3 <sub>p</sub>	4.4	0.0	0.0	0.0	0.0	47.3 <sub>p</sub>
	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	2013	9.5	28.1	7.1	4.5	12.3 <sub>p</sub>	7.4	7.6 <sub>p</sub>	8.0	0.0	0.0	0.0	0.0	84.3 <sub>p</sub>
	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	2013	4.3	0.9	1.7	1.9 <sub>p</sub>	4.6 <sub>p</sub>	0.1	1.7 <sub>p</sub>	0.9	0.0	0.0	0.0	0.0	16.2 <sub>p</sub>
	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	2013	8.4 <sub>p</sub>	24.4	6.9	2.8	7.3 <sub>p</sub>	4.7	6.4 <sub>p</sub>	3.2	0.0	0.0	0.0	0.0	64.2 <sub>p</sub>
	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
<b>Island of Maui</b>														
7. Hana	2013	7.0	5.6	0.0	0.9 <sub>p</sub>	12.7 <sub>p</sub>	3.9	4.1	3.8	0.0	0.0	0.0	0.0	37.9 <sub>p</sub>
	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	2013	1.3	1.0	3.9	0.3	2.8 <sub>p</sub>	1.0	1.9	0.8	0.0	0.0	0.0	0.0	12.7 <sub>p</sub>
	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	2013	0.2	1.9	1.0	*	0.4 <sub>p</sub>	*	1.2	0.4	0.0	0.0	0.0	0.0	5.1 <sub>p</sub>
	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	2013	2.7	3.5	4.5	0.0	3.9 <sub>p</sub>	0.4	2.0	1.0	0.0	0.0	0.0	0.0	17.9 <sub>p</sub>
	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
<b>Island of Oahu</b>														
11. Kahuku	2013	5.7	1.3	3.2	2.4	2.4 <sub>p</sub>	1.5	2.1	2.4	0.0	0.0	0.0	0.0	20.8 <sub>p</sub>
	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	2013	8.1	3.3 <sub>p</sub>	2.5	5.0	3.1 <sub>p</sub>	2.3	1.8	0.4	0.0	0.0	0.0	0.0	26.5 <sub>p</sub>
	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	2013	2.6	0.3	1.2	2.1	1.7 <sub>p</sub>	0.1	0.1	0.0	0.0	0.0	0.0	0.0	8.1 <sub>p</sub>
	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	2013	5.7	0.9	4.0	3.0	4.1 <sub>p</sub>	1.2	0.9	2.6	0.0	0.0	0.0	0.0	22.5 <sub>p</sub>
	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
<b>Island of Kauai</b>														
15. Moloaa Dairy	2013	0.0 <sub>p</sub>	0.0	0.0 <sub>p</sub>	0.0 <sub>p</sub>	0.0	0.0	0.0	0.0	0.0 <sub>p</sub>				
	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	2013	0.0 <sub>p</sub>	0.0	1.8 <sub>p</sub>	2.3	0.0	0.0	0.0	0.0	4.1 <sub>p</sub>				
	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	2013	3.8 <sub>p</sub>	0.0 <sub>p</sub>	0.0 <sub>p</sub>	0.0 <sub>p</sub>	0.0 <sub>p</sub>	0.0 <sub>p</sub>	2.7	0.8 <sub>p</sub>	0.0	0.0	0.0	0.0	7.2 <sub>p</sub>
	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

<sup>1/</sup> 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 25, 2013  
Daily, weekly, and year-to-date precipitation totals for selected Hawaii stations.<sup>1/</sup>

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>									
<b>Island of Hawaii</b>									
1. Kamuela (HI86)	0.00	0.11	0.00	0.00	0.00	0.00	0.05	0.16	16.08 p
2. Kealahou (HI84)	0.20	0.00	0.00	0.00	0.13	0.06	0.03	0.42	25.82 p
3. Laupahoehoe (HI80)	0.00	0.07	0.00	0.02	0.00	0.00	0.06	0.15	47.29 p
4. Mt. View (HI81)	0.00	0.37	0.00	0.14	0.06	0.01	0.02	0.60	84.34 p
5. Pahala (HI85)	0.00	0.06	0.00	0.07	0.03	0.02	0.00	0.18	16.21 p
6. Pahoa (HI83)	0.00	0.10	0.00	0.03	0.01	0.02	0.03	0.19	64.23 p
<b>Island of Maui</b>									
7. Hana (HI61)	0.14	0.32	0.02	0.00	0.06	0.11	0.01	0.66	37.86 p
8. Kula (HI65)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.74 p
9. Lahainaluna (HI60)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.07 p
10. Wailuku (HI66)	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	17.92 p
<b>Island of Oahu</b>									
11. Kahuku (HI09)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.83 p
12. Mililani (HI14)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.49 p
13. Waianae (HI17)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.14 p
14. Waimanalo (HI13)	0.00	0.00	0.45	0.00	0.00	0.02	0.00	0.47	22.46 p
<b>Island of Kauai</b>									
15. Moloaa Dairy	M	M	M	M	M	M	M	0.00	0.00 p
16. Hanalei (HI45)	0.10	0.00	0.00	0.24	0.00	0.00	0.00	0.34	4.07 p
17. Omao (HI51)	M	0.00	0.00	0.00	0.00	0.02	0.01	0.03	7.24 p

<sup>1/</sup> 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.

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