



Hawaii Weekly Crop Weather Report

National
Agricultural
Statistics
Service

Week ending: June 3, 2007

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

Warm, Sunny Days Continue



Weather Review

Weather conditions remained fair to good for agriculture during the week ending Sunday, June 3. A weak trade wind pattern prevailed during the week resulting in mostly sunny days, warm temperatures, and little rainfall. The light winds and abundant sunshine produced daytime temperatures that were higher than normal. Hilo, on the windward side of the Big Island, experienced new daily record highs on several days during the week. Clear overnight skies allowed for some nighttime cooling with islands in the southern half of the State recording overnight temperatures in the mid-60s. Rainfall was sparse throughout the State during the week. Windward and upper elevation areas of Kauai and Oahu received most of the week's meager showers. Non-irrigated crops were in fair to poor conditions while some pastures were beginning to dry-out. Irrigated crops continued to make good to fair progress with adequate water and abundant sunshine. Warm temperatures adversely affected some cool-weather crops.

Hawaii County

The Big Island continued to experience stable weather conditions with mostly sunny skies

during the week. Soil moisture was getting low. Mostly sunny days and light winds kept conditions warm in the windward districts. The Hamakua District remained dry. In Waimea, Puukapu received sunny skies and passing cloud cover with light showers. Lalamilo had mostly sunny and dry weather. Crops were on heavy irrigation in both areas as soil moisture was low. Green pastures in Lalamilo turned brown due to the extremely dry conditions. The Kona districts experienced hot and humid temperatures, sunny mornings, and cloudy afternoons. Light afternoon showers fell along the upper central and South Kona districts. Higher elevation areas of the North Kona district received isolated showers on Thursday. In Ka`u, coastal sections remained very dry. Prolonged dry periods have kept soil moisture low. The upper areas of Ka`u had afternoon cloud cover and very light showers. The Volcano farm area had cool mornings and sunny days. Non-irrigated crops made slower progress due to the dry conditions.

Maui County

Sunny and warm weather prevailed throughout the county during the week. Periodic cloud cover in the central section of Maui did allow for some relief from the warm temperatures. Occasional trade winds also offered some brief

moments of noticeably cooler temperatures. Some areas along the northeast side of the islands received late evening and early morning showers. The added precipitation was welcomed, but may not have provided any significant irrigation value. Rainfall was also noted in the upper elevations on the southeast side of Maui which could benefit pastures in the area. Moloka`i has also begun to dry-out. There has not been any significant rainfall for most areas of the island. The general landscape is drying-out and irrigation requirements for most crops have increased to maintain steady progress. Farmers have not been notified of any changes in their water use requirements from the Moloka`i irrigation system. Overall, the warm and dry weather required producers to monitor their operation closely and make necessary adjustments to maximize their resources.

Honolulu County

Weather conditions were fair for good for crop progress during the week. Days were mostly sunny and dry with continued high temperatures and very light trade winds. Windward and central crop growing areas experienced mostly dry days with light early morning showers. Users of the Waimanalo irrigation system were on voluntary

Mark Hudson, Director
Steve Gunn, Deputy Director

Ronald Nakamura, Research Statistician

Hawaii Weekly Crop Weather (continued)

water conservation. Leeward Oahu crop growing areas remained dry for most of the week. Most fruit and vine crops made good progress with good fruit set and development due to the advent of the longer days. Leafy crops made fair progress as high temperatures slowed crop development and caused increased insect infestation and damage. Spraying for the increased insect population was stepped up.

Kauai County

Weather conditions were fair for crop progress as hot, dry days with light trade winds and occasional light showers prevailed during the week. The island-wide dry weather lowered irrigation source-levels. Many orchard and field crop growers dependent on reservoir and ditch irrigation systems were becoming concerned. Most orchard and fruit crops remained in fair to good condition. The dry weather was favorable for active planting, harvesting, and milling of sugar cane on the island. Ditch-water levels in leeward area of the island were reportedly low with very little replenishing during the week. Spraying for insect and disease control was on regular schedules. Pastures remained in fair to poor condition due to the continued dry weather conditions.



Agricultural Highlights

Fruits

Banana

Orchards in eastern sections of Hawaii County were in fair to good condition. Very dry conditions reduced soil moisture in most orchards. Field activities such as spraying, leaf trimming and harvesting were active during the week. Fields in windward Oahu were in fair condition as Banana Bunchy Top virus continued to

affect fields. Leeward and central Oahu fields made good progress, but were slowed by light Banana Bunchy Top damage. Irrigation levels remained at moderate to heavy levels during the week due to the dry days. Fruit development continued to make good progress with the longer sunny days and warmer temperatures. Orchards on Kauai were in fair to good condition. Moderate to heavy irrigation was necessary for normal crop development.

Papaya

Big Island orchards in the lower Puna area were in fair condition. Very light passing showers provided some moisture, but more showers are needed. Newly planted and young orchards made slow progress due to the hot and dry conditions. Harvesting was at moderate levels. On Oahu, fruit development and ripening were good, however, mealy bugs and ring spot virus in some fields kept production lower than anticipated. Orchards on Kauai continued to make fair to good progress. Spraying to contain insect populations was on a regular schedule.

Vegetables

Head Cabbage

Hot and dry conditions in the Waimea area of the Big Island required heavy irrigation for normal crop progress. Insect and disease losses were light. Head quality was generally good. The crop was in generally good condition. Maui's crop continued to make good progress with the warming conditions. Insect pressure for most areas increased, but producers were able to keep damage to a minimum. Crop development was optimal and overall quality was good. Average head size has increased thereby contributing to higher yields. Producers were monitoring their fields closely and

maintaining a timely spraying program to keep the insect pressure under control. On Oahu, insect infestations were at light levels and mostly under control. New plantings were in good condition.

Sweet Corn

On Oahu, beneficial weather conditions allowed the plants to make good progress with good market supplies from central fields. Windward fields made good progress during the week and are expected to harvest at moderate levels. Plantings in windward areas of Hawaii County were in fair to good condition. Soil moisture was decreasing and may soon affect crop progress. New plantings have increased.

Dry Onions

The dry onion Maui's crop benefited from the past couple of weeks of warm growing conditions. Crop development has been very good. Overall average bulb size continued to increase and quality was good. Packing out of the Maui crop was expected to continue although there may be a slight temporary slow down. Overall, the Maui onion crop was in good condition.

Miscellaneous

Ginger Root

The crop in east Hawaii Count was in fair to good condition. Prolonged dry conditions have slowed crop progress.

Coffee

Orchards on Kauai made fair progress during the week with most of the plants receiving limited irrigation as reservoir levels continued to decrease. Rainfall during the week was too sparse to provide any relief for soil moisture. ■

Monthly Trend for Selected Stations

Comparison of 2007 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	2007	1.4	3.7	1.3	0.8	0.4	*	0.0	0.0	0.0	0.0	0.0	0.0	7.6
	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	2007	2.1	2.5	1.7	1.6 _p	3.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	11.3 _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	2007	6.7	12.3	6.0 _p	1.2 _p	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4 _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	2007	18.2	14.1	11.3	10.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.4
	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	2007	1.7	0.4	4.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1
	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	2007	12.2	13.4	7.0	7.7 _p	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0 _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	2007	1.3	4.0 _p	2.6 _p	4.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1 _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	2007	0.4	1.8	2.4	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
	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	2007	0.2	*	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
	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	2007	0.5	1.3	3.5	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
	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	2007	2.9	1.4	4.2	0.9	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	10.7
	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	2007	4.3	2.5	3.7	2.0	1.2	*	0.0	0.0	0.0	0.0	0.0	0.0	13.8
	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	2007	2.2	0.3	2.7	0.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
	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	2007	2.3	1.3	3.2 _p	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1 _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. Anahola	2007	3.2	3.8	4.5	2.4	2.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	16.6
	Average	6.8	4.4	6.0	4.6	3.2	1.6	2.5	2.5	2.0	5.1	5.4	5.9	50.0
16. Hanalei	2007	4.9	10.5	6.5	4.5	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	27.8
	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	2007	2.8 _p	4.6	4.1	2.0	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	15.1 _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 June 3, 2007
 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)	0.06	0.00	0.01	0.05	0.00	0.01	0.00	0.13	7.58
2. Kealakekua (HI84)	0.12	0.02	0.02	0.04	0.06	0.05	0.04	0.35	11.25
3. Laupahoehoe (HI80)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
4. Mt. View (HI81)	0.06	0.02	0.06	0.00	0.00	0.00	0.00	0.14	57.43
5. Pahala (HI85)	0.00	0.00	0.21	0.15	0.00	0.00	0.00	0.36	8.12
6. Pahoa (HI83)	0.03	0.09	0.00	0.00	0.00	0.00	0.00	0.12	42.98
Island of Maui									
7. Hana (HI61)	0.33	0.16	0.00	0.00	0.00	0.00	0.00	0.49	14.13
8. Kula (HI65)	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.04	5.53
9. Lahainaluna (HI60)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47
10. Wailuku (HI66)	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.08	7.19
Island of Oahu									
11. Kahuku (HI09)	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.10	10.66
12. Mililani (HI14)	0.02	0.01	0.00	0.01	0.01	0.00	0.00	0.05	13.78
13. Waianae (HI17)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.93
14. Waimanalo (HI13)	0.04	0.06	0.00	0.00	0.00	0.00	0.00	0.10	9.08
Island of Kauai									
15. Anahola (HI48)	0.09	0.02	0.02	0.03	0.19	0.09	0.06	0.50	16.64
16. Hanalei (HI45)	0.00	0.06	0.00	0.03	0.10	0.00	0.00	0.19	27.78
17. Omao (HI51)	0.04	0.01	0.00	0.02	0.07	0.03	0.02	0.19	15.08

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