



# Hawaii Weekly Crop Weather Report

National  
Agricultural  
Statistics  
Service

Week ending: June 24, 2007

In Cooperation with the Hawaii Department of Agriculture

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## Warm and Sunny Weather and Continued Dry Conditions



### Weather Review

Dry weather conditions continued over most of the State for the week ending Sunday, June 24. A weak high pressure system North of the islands allowed for moderate trade winds and mostly sunny skies. Most of the shower activity was limited to the windward and mountain areas. Water reduction measures were in place over most of the State. Irrigation was required in many areas for continued crop progress. Non-irrigated crops, those dependent on natural rainfall, were in fair to poor condition. Windward area crops were faring better than those in the drier leeward areas of the islands due to the greater availability of soil moisture. Irrigated crops were in fair to good condition. Abundant sunshine and adequate irrigation was ensuring normal growth.

#### Hawaii County

Hawaii County weather remained generally dry in most areas for the week. Windward and upper elevation areas benefited from light, steady trades that brought some precipitation to these regions. Rainfall was scattered and sometimes isolated to particular locations, but did help to raise or maintain soil moisture and replenish stock water ponds. Leeward regions were generally dry, but

trade winds brought some cloud cover to Ka'u and South Kona areas and trace amounts of rain, mostly in upper elevations. North Kona, Kohala, and Hamakua districts are still well below normal amounts of rain for the year and the trend continued for the week. A drought declaration is still in effect for the county and water restrictions continue. Some rainfall in the Kohala mountains helped replenish reservoirs, but a voluntary 10 percent reduction in use is still in effect. A lack of new growth is evident in pastures as brown conditions in what are normally green locations are starting to dominate the landscape. Another range fire near the Saddle Road junction in South Kohala has accentuated the increased fire hazard conditions occurring island-wide. Farms with irrigation continue to water regularly to maintain crop progress. Both Puukapu and Lalamilo farms continue operations on normal schedules.

#### Maui County

Warm and sunny weather conditions were received throughout Maui for the week ending June 24, 2007. Occasional brief passing windward showers continued to be noted in some areas along the windward shoreline. At times, these showers made it over towards Makawao.

There was also some very light passing rainfall over the central section of the island. Overall, there has not been any significant rainfall for most of the island and the overall landscape is very dry. Only irrigated areas and upper elevation sections of the mountain are showing signs of green vegetation. Pastures in most areas have declined in condition. Only a few areas are showing any signs of regrowth. Supplemental feeding for livestock will become necessary for some areas without any available forage. Most crops have been able to continue steady progress with increased irrigation. This may not be an option for most operations within a few weeks, and adjustments by farming operations will be necessary to comply with water restrictions. Insect population was reported to be elevated for most areas and may affect production. Overall, the current weather conditions are hot and dry which is not unusual for this time of the year.

#### Honolulu County

Weather conditions were good for crop progress on Oahu for the week. Sunny, dry days prevailed island-wide with moderate trade winds becoming gusty at times with high temperatures. Windward Oahu crop growing areas experienced mostly sunny days

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## Hawaii Weekly Crop Weather (continued)

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with scattered showers at midweek. The Waimanalo irrigation system reservoir level was pegged at 28.25 feet and a "modified" voluntary conservation effort remained in place. Leeward and central Oahu crop growing areas remained very dry for the week. The sunny days and breezy winds kept fields dry, and heavy irrigation levels continued to maintain crop integrity. Temperatures were high with some cooling from the trade winds. Most fruit and vine crops made good progress. Leafy crops made fair progress with continued heavy irrigation. Spraying for the increased insect population was steady.

### Kauai County

Weather conditions for Kauai remained fair to good for crop progress. Sunny and dry days with periodic brisk winds prevailed for the week keeping crop growing areas parched. Light passing showers provided very little soil moisture; however, heavier rains at the upper elevations allowed reservoirs to be replenished and ditch flow at adequate levels. Irrigation levels in most areas were heavy. Temperatures were moderate to high with some cooling with the breezy trade winds. Pastures on the island remained mostly dry and were in fair to poor condition. Some reports of supplemental feeding were implemented. Orchards and fruit crops were in good condition. Spraying for insect and disease control was on regular schedules to contain the insect populations.



## Agricultural Highlights

### Fruits

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#### Banana

Oahu orchards were in fair to good condition. Fields in windward Oahu remained in fair condition

maintaining light to moderate harvesting. Leeward and central Oahu fields made good progress with active harvesting at seasonal highs. Irrigation levels were heavy during the week due to the dry days. Overall harvesting on Oahu was expected to be at moderate to heavy levels. East Hawaii orchards are in fair to good condition. Operations remain normal and harvest is active. Banana Bunchy Top virus incidences remain isolated in the Puna and Kona areas. Harvest is active.

#### Papaya

Orchards in Puna are in fair to good condition. Soil moisture improved early in the week due to light and scattered rainfall. Overcast conditions with sunny periods are beneficial to fruit development and field operations. Seedlings in the Kapoho area are making good progress.

## Vegetables

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#### Head Cabbage

The crop in Waimea is in generally good condition. Light insect damage on outer leaves was noticed. Irrigation is keeping crop progress about normal. Harvest is active. The crop in Volcano improved with light showers and soil moisture. Maui head cabbage has continued to make relatively steady progress through the warm weather conditions. Insect population is increasing and growers have been diligent in monitoring their fields and maintaining a timely spraying program. This has enabled the head cabbage crop to maintain steady yields. Increased irrigation has been necessary to maintain steady growth and development for the crop. The overall condition of the head cabbage crop is good.

#### Sweet Corn

Oahu harvesting remained active as favorable weather conditions

allowed the plants to make good progress with good market supplies from windward and central Oahu fields. Some reports of light worm damage during the week were noted. East Hawaii corn fields benefited from recent trade wind weather. Light rains have improved germination and growth rates for young seedlings. Planting and harvesting are steady.

#### Cucumbers

Pickings from most Oahu fields were at moderate to heavy levels and anticipated to continue increasing as plants remained in active harvest. Melon fly infestation and light pickle worm damage has affected crop yields in some areas during the week. Irrigation levels were heavy as the dry weather continued in most crop growing areas.

#### Dry Onions

The dry onion crop has been affected by the prolonged warm and dry growing conditions. Some fields continued to show signs of stress and may become more susceptible to insect damage and disease. The average bulb size has also decreased. The dry onion crop is in fair to good condition.

#### Coffee

Coffee orchards in South Kona are benefiting from almost daily afternoon showers in mountain regions. Ka`u orchards have received less moisture, but misty conditions and cloud covered afternoons are beneficial for development of the current crop.

## Monthly Trend for Selected Stations

Comparison of 2007 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	2007	1.4	3.7	1.3	0.8	0.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	8.7
	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 <sub>p</sub>	3.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	13.8 <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	2007	6.7	12.3	6.0 <sub>p</sub>	1.2 <sub>p</sub>	1.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	29.2 <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	2007	18.2	14.1	11.3	10.3	3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	64.5
	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	8.2
	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 <sub>p</sub>	2.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	47.9 <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	2007	1.3	4.0 <sub>p</sub>	2.6 <sub>p</sub>	4.1	2.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	15.9 <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	2007	0.4	1.8	2.4	0.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.6
	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	0.5
	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	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
<b>Island of Oahu</b>														
11. Kahuku	2007	2.9	1.4	4.2	0.9	1.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	11.7
	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	1.5	0.0	0.0	0.0	0.0	0.0	0.0	15.3
	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.0
	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 <sub>p</sub>	1.9	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	9.7 <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. Anahola	2007	3.2	3.8	4.5	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	17.5
	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	2.8	0.0	0.0	0.0	0.0	0.0	0.0	30.5 <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	2007	2.8 <sub>p</sub>	4.6	4.1	2.0	1.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	18.2 <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 June 24, 2007**  
 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	0.05	0.20	0.20	0.02	0.04	0.01	0.52	8.67
2. Kealahou (HI84)	0.13	0.28	0.00	0.00	0.17	0.24	0.08	0.90	13.81
3. Laupahoehoe (HI80)	0.01	0.10	0.08	0.07	0.00	0.10	0.13	0.49	29.22
4. Mt. View (HI81)	0.00	0.11	0.35	0.31	0.02	0.05	0.25	1.09	64.52
5. Pahala (HI85)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	8.23
6. Pahoa (HI83)	0.01	0.17	0.17	0.00	0.07	0.16	0.34	0.92	47.86
<b>Island of Maui</b>									
7. Hana (HI61)	0.17	0.09	0.02	0.00	0.01	0.00	0.01	0.30	15.92
8. Kula (HI65)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.58
9. Lahainaluna (HI60)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
10. Wailuku (HI66)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.21
<b>Island of Oahu</b>									
11. Kahuku (HI09)	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	11.68
12. Mililani (HI14)	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	15.28
13. Waianae (HI17)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.01
14. Waimanalo (HI13)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.65
<b>Island of Kauai</b>									
15. Anahola (HI48)	0.01	0.02	0.00	0.05	0.02	0.03	0.01	0.14	17.53
16. Hanalei (HI45)	0.21	0.02	0.00	0.00	0.08	0.00	M	0.31	30.46
17. Omao (HI51)	0.08	0.21	0.02	0.01	0.02	0.07	0.21	0.62	18.19

<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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