



# Hawaii Weekly Crop Weather Report

National  
Agricultural  
Statistics  
Service

Week ending: July 1, 2007

In Cooperation with the Hawaii Department of Agriculture

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## Windward Areas Receive Trade Wind Showers



### Weather Review

Crops made variable progress during the week ending Sunday, July 1. Trade wind weather resulted in partly cloudy skies and mostly light showers in windward areas. Showers were a daily occurrence in some windward locations and helped to replenish soil moisture. Leeward sections of all islands were mostly sunny with limited showers drifting over from the windward side. Overall, irrigation was required in most areas of the State to ensure normal crop progress. Some forms of irrigation were hindered by occasionally brisk trade winds.

#### Hawaii County

Variable weather prevailed during the week. Conditions were generally good in the Hilo and surrounding areas with warm, humid days and showers in the mornings and evenings. Non-irrigated crops and orchards made good progress due to adequate soil moisture levels. The Hamakua District received light to moderate showers at the end of the work week. More showers are required to raise low soil moisture levels. In Waimea, Puukapu had cloudy skies and light showers. Showers, however, were not enough to reduce heavy irrigation

usage. Lalamilo experienced windy and very dry conditions. Heavy irrigation was required and some forms of irrigation were affected by the gusty winds. State-owned reservoirs had sufficient supplies. High cloud cover and generally dry weather prevailed in the Kona area. Coastal areas remained very dry. Upper central and south Kona districts received light afternoon showers on a daily basis. The Ka'u district continued to experience sunny and dry weather. Soil moisture was very low. Farmers in the Volcano area experienced mostly cloudy days with light, misty showers. Rainfall was not enough to raise low soil moisture levels.

#### Maui County

Weather conditions were mostly sunny and fair on Maui Island. Windward facing areas received some light, passing showers. Overall, the island remained very dry with only the upper elevation areas showing some green vegetation. A major brush fire irrupted along the southwest shoreline from Oluwalu to Launiupoko. Sections of the affected area had been used for pasture. There were also reports of several agricultural operations detrimentally affected by the brush fire. Water use restrictions continued for users in the Upcountry area.

#### Honolulu County

Weather conditions were fair to poor for crop development for the week. Island wide weather was sunny and dry with moderate to strong trade winds. Warm temperatures prevailed for the week. Windward Oahu crop growing areas experienced mostly dry and sunny days with passing overcast skies and light scattered showers. The continued dry conditions and lack of significant rainfall caused the Waimanalo irrigation system level to drop to 24.75 feet and a required 20 percent cutback in water use was implemented on June 29, 2007. Leeward and central Oahu crop growing areas remained very dry for the week. Sunny days and brisk winds kept fields dry and necessitated heavy irrigation levels to ensure normal crop progress. Temperatures were high with some cooling from the trade winds. Most fruit and vine crops made good progress. Leafy crops made slowed progress despite heavy irrigation. Spraying for insect infestation was difficult due to the windy conditions and resulted in increased insect pressure.

#### Kauai County

Weather conditions were good to fair for crop progress during the week. A high pressure system northwest of the state brought a mix

Mark Hudson, Director  
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of moderate to strong trade winds and passing light to moderate rains to a mostly sunny and dry week. Favorable rains at the upper elevations kept reservoir levels at steady levels and irrigation ditch flows continued at adequate levels. Irrigation levels in most areas remained heavy. Temperatures were moderate to high with the breezy trade winds allowing for some cooling. Pastures on the island remained mostly dry and were in fair to poor condition. Continued insect damage to pasture grasses was reported. Orchards and fruit crops were in good to fair condition with heavy irrigation. Leafy crops made fair progress, but were slowed by the high temperatures. Pressure from insect infestation and damage was increasing. Spraying for control was hindered by the gusty winds.



## Agricultural Highlights

### Fruits

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#### Bananas

Big Island orchards made generally good progress. Soil moisture was adequate. Sunny and warm periods benefited fruit development. Young and newly planted orchards in Pepeekeo made steady progress. Oahu orchards were in fair to good condition. Fields in windward areas remained in fair condition. Leeward and central Oahu fields made good progress. Irrigation levels were at heavy levels during the week due to a lack of rain and gusty winds. Kauai's orchards were in good to fair condition.

#### Papayas

Conditions in the lower Puna area of the Big Island were ideal for orchard progress. Daily showers provided sufficient soil moisture. Sunny and warm periods provided

a boost to flowering and fruit set. Field activities such as spraying for disease and weed control were active. On Oahu, fruit development and ripening were good with the increased day length and dry weather conditions. Mealy bugs and Ring Spot virus lowered production in some fields. Orchards on Kauai continued to make fair to good progress during the week. Spraying to contain insect populations was stepped up to contain an increase in infestation.

### Vegetables

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#### Head Cabbage

The Big Island's Waimea crop was in fair to good condition. Heavy irrigation was required especially in the Lalamilo area. Routine spraying was controlling insect and disease losses. New plantings made good progress. The Volcano crop was in fair condition. Plantings have increased, but made slower progress due to the dry conditions. New plants were in good condition on Oahu. Insect infestation was at light to moderate levels. Maui's crop remained in fair to good condition. Insect pressure was higher in the major growing areas, but farmers were closely monitoring conditions to ensure timely spraying.

#### Dry Onions

Most fields on Maui were developing at a slower rate due to hot and dry conditions. Average bulb size has decreased. Overall, Maui's crop was in fair condition.

#### Sweet Corn

On Oahu, favorable weather conditions allowed the plants to make good progress. Some reports of light worm damage were reported during the week. Isolated windward fields experienced some growing problems. Big Island fields were in fair condition. Soil moisture was adequate and resulted in improved growth.

### Other Crops

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#### Coffee

The Big Island's Kona coffee orchards made good progress due to adequate soil moisture levels. Coffee cherries were in the green stage of development. On Kauai, isolated rains during the week benefited some fields. Showers at the upper elevations kept reservoir levels stable which allowed for good irrigation of all fields. Gusty trade winds were unfavorable for most fields and offset some of the benefits of irrigation.

#### Ginger Root

Plantings in the windward areas of Hawaii Island made good progress as daily showers raised low soil moisture levels. Sunny periods also helped to boost crop growth.

#### Sugarcane

Harvesting, planting, and milling activities were active on Kauai during the week. The summer showers which are typically at the upper elevations kept reservoir levels steady and allowed irrigation levels to keep up with the plant's needs. Some insect infestation was reported with increased vigilance for control.

#### Watermelons

Harvesting on Oahu was active and supplies for the Fourth of July holiday are anticipated to be heavy.

## 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  | 1.9 | *                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.5               |
|                         | 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  | 3.7 | 0.1              | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.8 <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  | 3.0 | 0.1              | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 30.4 <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  | 9.0 | 0.2              | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 66.6              |
|                         | 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  | 6.3 | 0.1              | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 49.4 <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  | 2.2 | 0.0              | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.3 <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  | 1.9 | *                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.7              |
|                         | 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  | 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  | 1.6 | *                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.9              |
|                         | 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 <sub>p</sub> | 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  | 3.5 | 0.1              | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 18.5 <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 July 1, 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)                      | 0.03                     | 0.02 | 0.01 | 0.10 | 0.50 | 0.12 | 0.01 | 0.79         | 9.46           |
| 2. Kealahou (HI84)                     | 0.16                     | 0.13 | 0.05 | 0.46 | 0.01 | 0.14 | 0.05 | 1.00         | 14.81          |
| 3. Laupahoehoe (HI80)                  | 0.10                     | 0.01 | 0.00 | 0.57 | 0.33 | 0.10 | 0.09 | 1.20         | 30.42          |
| 4. Mt. View (HI81)                     | 0.17                     | 0.09 | 0.11 | 0.73 | 0.60 | 0.22 | 0.15 | 2.07         | 66.59          |
| 5. Pahala (HI85)                       | 0.00                     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 8.23           |
| 6. Pahoa (HI83)                        | 0.17                     | 0.06 | 0.06 | 0.41 | 0.56 | 0.18 | 0.13 | 1.57         | 49.43          |
| <b>Island of Maui</b>                  |                          |      |      |      |      |      |      |              |                |
| 7. Hana (HI61)                         | 0.17                     | 0.06 | 0.04 | 0.11 | 0.01 | 0.00 | 0.00 | 0.39         | 16.31          |
| 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 | 0.02 | 0.00 | 0.00 | 0.02         | 11.70          |
| 12. Mililani (HI14)                    | 0.02                     | 0.29 | 0.03 | 0.00 | 0.03 | 0.00 | 0.04 | 0.41         | 15.69          |
| 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 | 0.06 | 0.00 | 0.03 | 0.09         | 9.74           |
| <b>Island of Kauai</b>                 |                          |      |      |      |      |      |      |              |                |
| 15. Anahola (HI48)                     | 0.07                     | 0.10 | 0.01 | 0.15 | 0.01 | 0.01 | 0.04 | 0.39         | 17.92          |
| 16. Hanalei (HI45)                     | M                        | M    | M    | M    | 0.02 | M    | M    | 0.02         | 30.48          |
| 17. Omao (HI51)                        | 0.06                     | 0.08 | 0.01 | 0.04 | 0.09 | 0.01 | 0.05 | 0.34         | 18.53          |

<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.

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