



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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HAWAII

HIZ001>003-005>008 Niihau - Kauai Windward - Kauai Leeward - Oahu South Shore - Waianae Coast - Oahu North Shore - Oahu Koolau

01 0000HST 0 0 Drought
31 2359HST

Meteorologically speaking, the highlight of the month was the passage of Tropical Storm Daniel to the north of the Big Island on 31 July. In terms of hydrology, Daniel was largely a non-event. Isolated thunderstorms flared up over the Big Island in association with one of the trailing rain bands and dropped 1 to 3 inches of rain in a couple of areas. Otherwise, statewide rainfall totals attributed to Daniel's circulation were mainly less than 0.25 of an inch, with a few spots between 0.25 and 0.50.

Other than Tropical Storm Daniel, the weather pattern during July was dominated by trade winds in the moderate to fresh range. Active shower bands embedded within the trades brought rainfall to the windward sides of the island chain on a daily basis. This helped push rainfall totals to near, to above, average levels at most of the windward gages. Upper level lows also moved near the state on 6 July, 10-12 July, and 25-27 July. These lows helped enhance the trade wind showers and the afternoon convection over the leeward areas of the Big Island and Maui.

Island of Kauai

As was the case in June, the month of July saw near to above average rainfall at many locations on the island of Kauai. Daily totals were generally well distributed throughout the month, with amounts mostly less than 0.50 of an inch. However, totals for the year-to-date showed all sites remained below average.

Island of Oahu

Oahu received a better distribution of rainfall in July than during June. Out of the 27 available sites, 12 reported above average rainfall, while 6 others were in the 80 to 100 percent of average range. On the other hand, all gages on Oahu were still below average for the year-to-date. Windward gages were mostly in the 40 to 70 percent of average range, while leeward gages were within 20 to 40 percent of average.

Maui County

For Upcountry Maui, the month of July did not bring a continuation of June's rainfall. The gage at Kula saw only 0.06 of an inch of rain (4 percent of average), while Pukalani saw 0.42 (52 percent of average). However, looking at the bigger picture, the year-to-date numbers improved a bit in July. Four sites had managed to rise above the 60 percent of average level, the highest being at Haiku (24.29 inches).

Island of Hawaii

A very rainy July pushed monthly totals over the windward areas of the Big Island well above average. However, rainfall totals were much lower elsewhere across the isle and were mainly in the 40 to 60 percent of average range. The gage at Kamakoa was a notable exception. After receiving 1.83 inches of rain in June (600 percent of average), this site did not record any rain in July.

Data from windward locations of the Big Island showed that year-to-date totals pushed up into the 70 to 80 percent of average range. Leeward gages also improved, with many now being in the 30 to 50 percent of average range.

The following list contains rainfall statistics for selected locations from around Hawaii. The first column is the observed rainfall for July. The second column is the 30-year average for that location, while the third column lists the percent of average for the month. The fourth and fifth columns are the year-to-date total and the percent of average, respectively.

	Jul 00	Avg.	%Avg.	YTD	YTD %Avg
Kauai					
Kokee	2.69	2.90	93	25.25	47
Hanalei	10.59	8.60	123	43.89	63
Anahola	1.97	2.50	79	11.23	39
Lihue VS	2.70	5.40	50	13.94	34
Lihue Airport	1.51	2.10	72	9.63	40
Hanapepe	1.17	1.30	90	6.14	36
Oahu					
Honolulu Airport	0.41	0.60	68	2.65	2 3
Manoa Lyon	16.81	13.20	127	80.31	91
Waimanalo	0.70	1.70	41	9.49	3 2
Waihee Pump	6.49	7.80	83	27.36	4 4



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HAWAII

Kahuku			2.56	2.20	116		11.14		42
Waianae			0.16	0.30	53		0.91		8
Kunia			0.84	0.80	105		5.32		33
Maui									
Kahului			0.80	0.40	200		3.60		28
Hana			6.27	5.60	112		M		M
Kihei			0.02	0.10	20		0.17		2
Lahainaluna			0.12	0.30	40		0.69		6
Wailuku			0.37	0.60	62		5.57		3 1
Kula			0.06	1.40	4		4.40		2 3
Ulupalakua			1.32	1.60	83		7.29		34
Molokai									
Kaunakakai		M		0.20		M	M		M
Kamalo			1.39	1.30	107		M		M
Lanai									
Lanai City			1.64	2.00	82		6.71		2 8
Island of Hawaii									
Hilo Airport			13.16	9.70	136		56.16		7 5
Pahala			1.12	2.10	53		10.13		3 1
Honaunau			3.25	7.30	45		14.69		37
Kamuela (Upper)			4.04	4.40	92		28.96		8 0
Glenwood			20.84	9.90	211		78.85		7 9
Laupahoehoe			7.55	10.00	76		53.12		57
Kamakoa			0.00	0.80	0		2.41		22
Kapapala			1.94	3.10	63		8.97		24

Hawaii's drought caused some \$6.5 million in losses for the state's ranchers and dairy farmers last year, according to the state Department of Agriculture. This year the losses will rise to \$9.1 million, estimated a state agricultural loan administrator.

To help Hawaii's cattlemen and farmers, the state Board of Agriculture passed a resolution allowing for emergency loans of up to \$250,000 at 3 percent interest to the islands' ranchers and dairy farmers whose efforts to secure loans through private lenders have been rejected.

The board also received a briefing on the Hawaii Drought Plan, which is being put together at the state level to help the state improve preparation and response to drought. Federal help also could come with the plan. The state's effort will be sent to Congress as part of a larger proposal to set up financing for Western states to deal with droughts.

Hawaii County

Volcano

01	0100HST								
05	1500HST			0	0				Wild/Forest Fire

A brush and grassland fire burned 1000 acres in Hawaii Volcanoes National Park over a four-and-a-half day period in early July. Although the fire came within 30 feet of the Kipuka Puauulu Picnic Shelter, the structure remained undamaged. No other damage or serious injuries were reported.

Hawaii County

Kailua Kona

03	0035HST								
	0300HST			0	0				Urban/Sml Stream Fld

Heavy showers produced ponding of roadways and caused some small streams to overflow their banks in and around Kailua-Kona on the Big Island. No serious injuries or damage were reported.

Honolulu County

Central Portion

18	1455HST								
19	1612HST			0	0				Wild/Forest Fire



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					Killed	Injured	Property	Crops	

HAWAII

A brush fire burned 300 acres in central Oahu in the Waipio-Gentry area. The fire forced a closure of the H-2 Freeway in both directions, creating a massive traffic jam for several hours during rush hour on 18 July. A hundred firefighters, from 25 Honolulu fire units and five federal firefighting units, took part in containing the fire. Five helicopters from the Honolulu Fire Department and the Army were also used to in fighting the blaze. The fire did threaten some homes and commercial structures at times, but in the end, no serious damage or injuries were reported.

HIZ007

Oahu North Shore

22	1535HST 1800HST				0	0			Flood
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Heavy rainfall produced some minor flooding of roadways and caused streams to overflow their banks in the South Kona District from Captain Cook to Honaunau. No serious damage or injuries were reported.

Honolulu County

Maili

26	1241HST 1949HST				0	0	230K		Wild/Forest Fire
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A brush fire in the West Oahu community of Maili burned 50 acres and damaged two homes on the afternoon of 26 July. Neither home was habitable after the blaze, and six people were displaced.