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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										30° or Above	20° or Above	31° or Below	0° or Below					Total	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	79.3	61.3	70.3	.0	85	17+	58	22+		0	0	0	0	14.62	2.06	5.22	9	.0	0		9	8	5	
KEAIAKEKUA 26.2	74.0	60.8	67.4		77	28+	56	21+		0	0	0	0	17.13		4.38	29	.0	0		13	8	6	
KONA (KAILUA) 68.3					82	28+	60	9		0	0	0	0	11.14		4.15	29	.0	0					
KUKIHAELE HIC 199														11.16		2.13	29	.0	0		11	8	4	
KULANI CAMP 79	62.1	44.7	53.4		70	15	33	1		0	0	0	0	21.66	5.03	5.24	28	.0	0		13	6	5	
PAHALA 21					83	15	55	4		0	0	0	0	20.75	12.72			.0	0					
POMAKULUA 107														5.88		1.82	9	.0	0					
PUNAO 95.1														9.85		5.12	29	.0	0		9	5	2	
PUNAWAHAHA 94.1														16.40	13.17	6.20	29	.0	0		9	7	5	
PUNAOA 118														6.49	.67	1.51	10	.0	0		6	6	3	
WAIKAE SCD 8R+2														11.92		3.72	9	.0	0		10	7	5	
WAIKAE KDHALA	70.4	48.1	59.3		75	28+	38	3+		0	0	0	0	8.98		3.18	29	.0	0		9	5	3	
ISLAND			65.3											14.54				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

- HIGHEST TEMPERATURE: 87° ON THE 28+ AT 4 STATIONS
- LOWEST TEMPERATURE: 19° ON THE 22D AT MAUNA LOA SLOPE OBS, HAWAII
- GREATEST TOTAL PRECIPITATION: 36.54 AT PAHOA 65, HAWAII
- LEAST TOTAL PRECIPITATION: 5.55 AT KULANI MAUKA 76, HAWAII
- GREATEST ONE-DAY PRECIPITATION: 12.38 ON THE 9TH AT PAHOA 65, HAWAII

SPECIAL WEATHER SUMMARY

For the third successive month in what has thus far been one of its worst winters of recent years, Hawaii was subjected to a variety of severe weather, including flooding rains and a devastating waterspout.

The meteorological conditions responsible (low pressure aloft above or just west of the State-- and an associated jet stream -- on more than 3 days out of 4; cold front passages, with fronts near enough to affect the Islands on about half the days of the month; and intense storms to the north) resulted also in high surf and waves, strong winds, widespread falls of hail, heavy snows on the upper slopes of Mauna Kea, Mauna Loa, and Haleakala, and an unusually large number of funnel clouds and suspected tornadoes. The frequency of trade winds (as measured at Honolulu International Airport) declined to 21 percent; rainfall was heaviest in the normally drier leeward (western) sides of the major Islands; Hilo had thunderstorms on 8 days, in contrast to its January mean of one day; and sunshine dropped to well below the January normal.

Beginning on the morning of the 5th, strong southwest winds in advance of an approaching cold front, and locally augmented by topography, blocked roads on parts of West Kauai, Oahu (where, as Table I shows, gusts reached 78 m.p.h. at Wheeler Air Force Base and 58 m.p.h. at Kaneohe Marine Corps Air Station) and Hawaii with branches and fallen trees; unroofed a home in Kahaluu, Oahu; knocked down powerlines in sections of Maui; and on Hawaii Island damaged saran greenhouses and 100 papaya trees in Puna and toppled 10 acres of banana plants in Kona. At Haleakala's 10,023-foot summit winds estimated to be up to 90 m.p.h. knocked out the TV transmitter, while snow 2 to 4 inches deep, with drifts of 6 to 8 feet, extended down to an elevation of 8,000 feet, the lowest reached on Haleakala in 3-1/2 years. More than 5,000 sightseers driving up to see and touch the unaccustomed snow created a mammoth traffic jam, forcing rangers to close the road to the snowfields.

The front was accompanied by hail and funnel clouds. The first of the latter, the forerunner of many to follow later in the month, had been spotted on January 4 about 15 miles west of Honolulu International Airport between 8:27 and 9:04: a narrow curved appendage about 1,000 feet long, which twice descended from and re-ceeded into its parent cloud -- a cumulus, with tops at 8,000 feet and base at 2,500 feet.

On January 5, hail half-an-inch in diameter fell at Kokee, Kauai, and "as big as dimes" at

Kulaimano and the city of Refuge on Hawaii Island.

The next day Kauai had hail again: clear hailstones 1/4 inch in diameter during a thunderstorm at Kekaha, and Oahu reported two additional funnel clouds, the first between 2:06 and 2:26 p.m., south of Ewa Beach, and the second south of Waikiki, between 3:25 and 3:30 p.m.

Also on the 6th, waves generated by storms to the north partially washed out a pier and walkway and sank 3 small boats at Pokai Bay, Oahu; and, at Keauhou Bay on Hawaii Island's Kona coast, flooded the grounds of a hotel and the first floor of another hotel under construction, damaged a 33-foot sloop and a concrete boat at Keei Beach, and knocked down several trees along Alii Drive between Kailua and Kahaluu Beach Park. The latter was completely under water for 2 days. Surf heights on Oahu reached 25 feet at Waialua and Haleiwa and 15 to 20 feet at Sunset Beach. On Kauai, Hanalei and Kilauea Lighthouse reported 15- and 22-foot surf, respectively.

On January 8 and 9, heavy rain fell over Maui and Hawaii from clouds spiraling into a low pressure center about 300 miles west-northwest of the Islands. Residents in Maui's Paukukalo area were instructed to evacuate as Iao Stream threatened to overflow, but the stream subsided. On Hawaii Island a portion of the Belt Road near Honokaa was blocked by debris, and water backed up on Route 130 near Paho, whose 24-hour rainfall reading of 12.38 inches on the morning of the 9th was its greatest of record, exceeding the previous total of 10.96 inches. On the 10th, a strong gust of wind knocked down a kerosene stove chimney on the back porch of a Hilo home, causing \$3,000 in fire damage.

On the 15th, strong southwest winds preceding an approaching cold front did over \$100,000 in damage on Oahu alone. Powerlines and trees were downed in many areas. In windward Oahu, winds made more blustery in passing over the mountains, damaged 28 homes, a classroom, an armory and a warehouse, and -- in Waimanalo -- toppled a 40-foot ironwood tree onto a car, injuring the two occupants. Lanai Airport closed down. Roofs were damaged on one home on Maui and five in Molokai's Hoolehua district, and a carpenter was injured by a flying 4- x 8-foot plywood sheet in Kaanapali, Maui. Crops were bruised by the wind.

Up to this time the weather had been far from placid, but the most punishing blows were yet to come. Under the influence of an intensifying area of low pressure in the upper atmosphere,

SPECIAL WEATHER SUMMARY - Continued

a front that had developed about 1,000 miles to the northwest by the afternoon of the 25th began to strengthen as it approached Hawaii. The atmosphere in the Hawaiian area was already unstable, prepared to respond violently to further agitation. Thunderstorms over Kauai dropped hail at Wailua on the 25th. Between 8:00 and 8:30 the following morning, hail fell again, this time at Makaha Ridge, and three funnel clouds, one of which briefly reached the sea surface, were observed 6 to 9 miles west to northwest of Barking Sands, Kauai.

As the cold front moved through the Islands it carried with it strong southwesterly winds, heavy rains, and a greater number of damaging funnel clouds than any storm in Hawaii's recorded history.

At about 11:55 p.m. on the 27th, what a subsequent field survey indicated must almost certainly have been a small tornado, touched down in a pineapple field about 1/2 mile southwest of Whitmore Village, Wahiawa, Oahu. As indicated by wind-damaged pineapple leaves, its width at that time was about 42 feet. The "tornado" then moved northeastward in a straight line. It was 115 feet wide when it left the pineapple fields and continued onward to smash 3 quonset hut warehouses, tear out a Butler building wall, and move through Whitmore Village, where 18 homes, about 30 years old, and mainly of wood-frame, single-wall, sheet iron roof construction, sustained severe roof and less serious wall damage or were moved off their foundations. Tornado evidences included jet aircraft-like noises heard by residents before their houses were hit, twisted pineapple leaves, toppled banana plants, and adjacent houses differentially twisted off their foundations. Total damage was estimated at over \$100,000.

As the front moved southeastward, it continued to spawn funnel clouds. Beginning in the early morning of the 28th, at least six appear to have struck Hawaii Island's Kona area, presumably forming over the sea as waterspouts and moving onshore in the southwesterly winds. In only one instance was a funnel actually sighted -- the one that struck Kailua-Kona, and is described below. The others appear to have occurred during the hours of darkness. At Honomalino Farms in South Kona what may have been one or more tornadoes uprooted over 2,500 macadamia nut trees and damaged a house. Further north, what may have been another passed through the Paris and Greenwell Ranches at Kainaliu, where it uprooted 500 to 600 trees, twisted off the tops of several ohia trees 3 feet in diameter, picked up and threw a steel molasses

tank about 60 feet, and unroofed a house at the Paris Ranch. Winds, that may have been tornadoes, plowed through fern trees at Honaunau Forest Reserve, took a roof off a cabin on the slopes of Mt. Hualalai, and damaged a water collection complex on the Puu Waawaa Ranch.

The most severe tornado, witnessed and photographed by many persons, began as a large waterspout which swept into Kailua Bay from the ocean and moved onshore at about 11:50 a.m., cutting a swath through the downtown business and hotel district of Kailua-Kona, the major resort town on Hawaii Island's Kona coast. The funnel tore roofs and walls off waterfront houses, a hotel, and a newly-completed shopping mall; demolished the building housing the post office and a bank; collapsed a 7-story hotel, under construction, into a pancake-like heap of twisted girders and concrete slabs; and damaged a number of cars, 2 service stations and an auto center. The waterspout then moved upslope into an apartment project, damaging 40 units, many of them severely, and requiring 79 residents to be relocated. Miraculously, only four persons were injured, of whom one required hospitalization. Conservative estimates placed the damage in excess of \$1.5 million.

Meanwhile, on Maui, on the morning of the 28th, heavy rains that had begun the day before with the passing of the cold front, were causing streams and ditches to overflow, flooding homes, stores, and other buildings, damaging cars, and severely eroding fields and roads. Hardest hit were the Paia and Kihei areas in Central Maui. Clogged by debris, upper Iao Stream in the lower West Maui Mountains formed a new channel and flooded several homes, destroyed a section of the road to upper Iao Valley and forced 40 residents of Paukukalo to leave their homes.

Onrushing flood waters from the hills above Paia formed a lake at the intersection of Baldwin Avenue and Hana Highway, inundating buildings and parked cars.

At Kihei, two vehicles were washed into the ocean when a plugged culvert caused a normally shallow stream to overflow onto the road. Several apartment buildings were damaged and five cars trapped when the flood waters undermined a parking area. Other sections of Maui were also hit by scattered flooding, landslides, and washouts.

As Figure I shows, rainfall was greatest on the slopes of Haleakala, although the indicated storm maximum of 16 inches is by no means extraordinary by Hawaiian standards. Rainfall rates

SPECIAL WEATHER SUMMARY - Continued

were also modest. The greatest recorded was 2.25 inches an hour at Kihei.

It is not surprising that rainfall for the month was almost everywhere above the January average, except for a few gages in northeastern Kauai and in the Hamakua and Hilo areas of Hawaii Island (see Figures II-A and II-B). Extensive portions of all the Islands but Kauai had over

three times their January means. A number of places received between four and six times, and on Hawaii Island up to nine times their average January rainfall.

As the list below shows, many stations had more rainfall in January 1971 than in any previous January, and some of them more than in any month of record.

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Stations Whose Previous Greatest January Rainfall Totals were Exceeded in January 1971

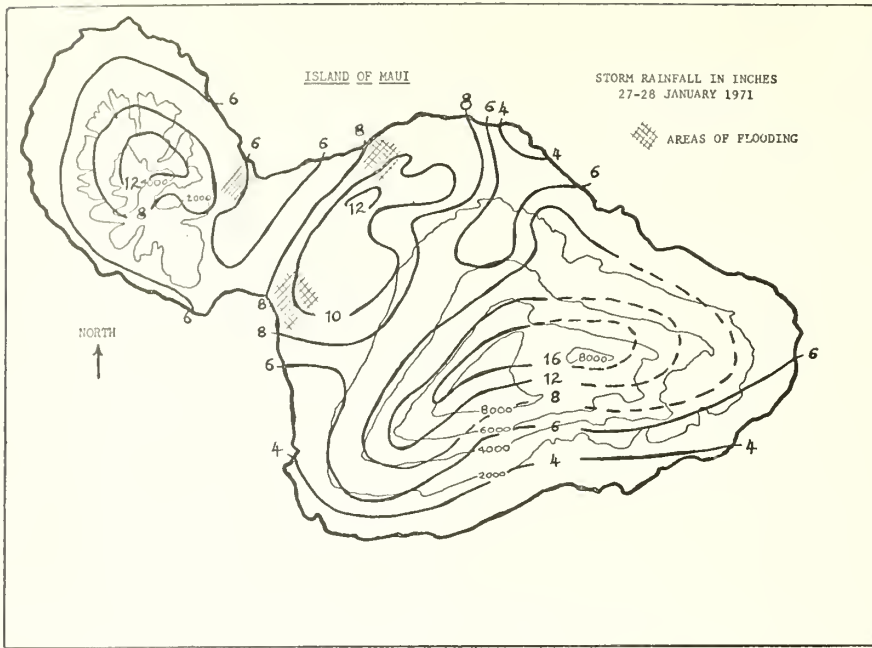
(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest January Total	January 1971
OAHU			
Kawaihapai	40	16.30	18.49 *
Kemoo Camp	45	17.57	23.05
Waialua	69	17.15	21.82
MAUI			
Haleakala Ranger Station	31	30.89	33.89
Honokohua	42	11.83	13.51
Kauaula Intake	51	17.35	18.71
Keahua	51	15.21	20.04 *
Kihei	47	11.46	17.31 *
Kula Sanatorium	52	16.37	22.75 *
Launiupoko Village	43	9.88	12.10 *
Paia	65	12.87	18.78
Puunene	65	10.13	14.03
Spreckelsville	62	14.75	16.74 *
Ukumehame	40	10.23	12.51 *
Wahikuli	49	10.33	11.67
HAWAII			
Ahua Umi	46	7.70	18.00
Halemaumau	37	21.22	23.00
Hawi	70	18.00	18.79
Holualoa Beach	49	12.27	16.20 *
Honaunau	31	7.25	15.40 *
Huehue	66	17.74	21.50
Kaawaloa	28	15.37	17.53
Kainaliu	39	14.64	19.03 *
Kealakekua	54	15.25	17.13 *
Kiolakaa A & F	40	25.10	26.50 *
Kohala	74	15.10	15.92
Lanihau	27	17.28	20.07 *
Manuka	40	12.40	14.83
Middle Holualoa	27	14.43	15.73 *
Pakao	41	21.86	22.10
Pohakuloa	32	5.58	5.88
Puu Laau	37	7.35	8.65
Puu Lehua	46	9.40	18.00 *
Puu Waawaa	66	11.80	16.40 *

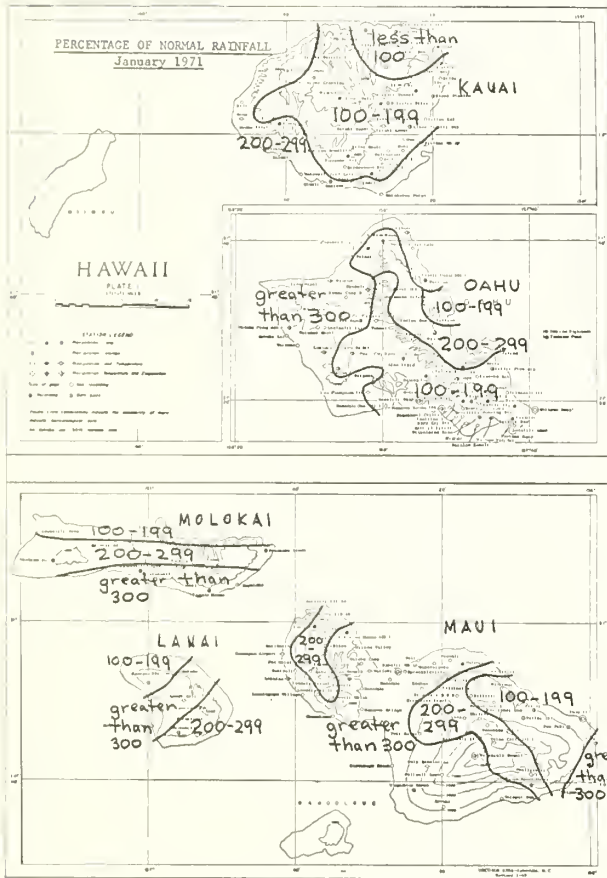
* Greatest in any month of record

Peak Gusts Observed During the Strong Winds of January 1971 (m.p.h.)

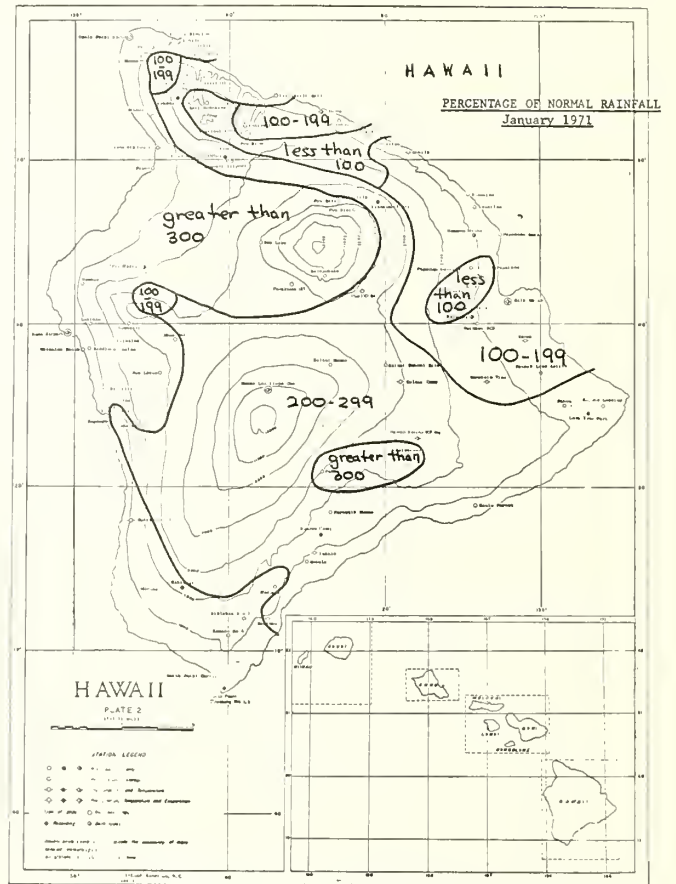
Island	Location	January 5	January 15	January 27-28
KAUAI	Makaha Ridge	--	66	52
	Kokee	35	61	--
	Lihue	43	53	37
OAHU	Barbers Point	--	47	45
	Honolulu	40	45	35
	Kaena Point	40	69	52
	Kaneohe	58	63	53
	Wheeler AFB, Wahiawa	78	62	56
MAUI	Kahului	46	54	42
HAWAII	Hilo	36	24	36
	Keahole	46	40	46
	Kamuela	--	35	--



Item II-A



Item II-B



DAILY PRECIPITATION

HAWAII
JANUARY 1971

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * * ISLAND OF KAUAI * * *																																		
ANAHOLA 1114	A 8.43	*	*	*	-.03	.75	-.10	-.61	*	*	*	*	-.30	.85	-.03	-.20	-.45	*	*	*	-.96	*	*	*	-.75	-.10	-.30	-.30	1.50	1.20	*	*	*	
BRYESWOOD STA 985	A 12.34	*	*	*	-.57	1.65	-.31	-.31	-.10	*	*	*	1.24	1.22	-.63	-.34	-.38	*	*	*	1.32	T	*	-.01	-.02	-.08	-.01	1.50	2.61	-.05	*	*		
EAST LAWA 934	A 12.39	*	*	*	-.58	2.41	-.21	-.23	-.10	*	*	*	.84	.89	-.88	-.16	-.07	*	*	*	1.71	*	*	-.02	-.02	-.08	-.02	1.45	2.68	-.08	*	*		
ELELE 927	A 10.21	*	*	*	-.33	2.62	-.58	-.58	*	*	*	1.55	-.44	-.44	-.29	-.21	*	*	*	1.77	*	*	-.60	-.10	-.25	-.30	1.24	2.15	-.05	*	*			
HAKAULA 1110	A 8.83	*	*	*	-.21	-.80	-.05	-.50	*	*	*	-.40	-.70	-.02	-.17	-.49	*	*	*	-.99	*	*	-.60	-.10	-.25	-.30	1.40	1.95	*	*	*			
HALENAHAO 1006	A 11.06	*	*	*	-.23	1.31	-.43	-.31	-.02	*	*	*	.88	.71	-.44	-.37	-.27	*	*	*	1.31	*	*	-.06	-.14	-.24	-.02	2.03	2.19	-.07	*	*		
HAKAPO 945	A 11.90	*	*	*	-.33	2.62	-.58	-.58	*	*	*	1.47	.73	1.12	-.51	-.30	-.25	*	*	*	1.25	*	*	-.14	-.25	-.15	-.05	1.25	2.26	-.05	*	*		
ILILIULUA INTAKE 1050	A 17.21	*	*	*	-.33	2.62	-.58	-.58	*	*	*	1.47	.73	1.12	-.51	-.30	-.25	*	*	*	1.25	*	*	-.14	-.25	-.15	-.05	1.25	2.26	-.05	*	*		
INTAKE WAINIHA PC 1086	A 17.97	*	*	1.10	3.55	*	2.42	*	*	*	*	1.10	*	*	*	3.10	*	*	*	2.03	*	*	2.60	*	*	2.60	3.18	2.84	-.08	*	*			
KANALUHULU 1075	A 25.52	0.02	*	*	5.05	1.45	-.88	-.67	1.84	-.09	-.81	-.72	-.38	-.70	-.74	2.05	-.09	*	*	*	3.10	-.09	-.10	-.78	-.20	-.04	-.26	3.16	5.20	-.29	*	*		
KANEHA RESERVOIR 1092	A 10.36	*	*	*	-.13	-.40	-.25	-.60	*	*	*	-.39	-.70	-.05	-.23	-.90	*	*	*	-.90	*	*	-.90	-.36	-.55	1.05	1.40	1.55	*	*	*			
KAPAA STABLES 1104	A 8.86	*	*	*	-.24	-.68	-.15	-.45	*	*	*	-.20	-.57	-.04	-.10	-.52	*	*	*	-.80	*	*	1.00	-.07	-.26	-.68	1.60	1.90	*	*	*			
KEALIA 1112	A 8.09	*	*	*	-.30	-.70	-.05	-.49	*	*	*	-.20	-.75	-.02	-.13	-.36	*	*	*	-.94	*	*	-.94	-.17	-.23	-.25	1.65	1.95	*	*	*			
KEKAA 944	A 9.13	*	*	*	1.03	-.44	-.92	-.14	-.95	-.12	-.35	-.44	-.37	-.20	-.17	1.17	*	*	*	1.17	*	*	-.03	-.27	-.30	-.10	1.07	1.90	-.03	*	*			
KILAUEA 1134	A 4.98	*	*	*	-.27	-.38	-.90	-.91	-.03	*	*	-.09	-.05	-.03	-.20	-.06	*	*	*	-.84	*	*	-.03	-.27	-.30	-.10	1.07	1.90	-.03	*	*			
KILAUEA FIELO 17 1135	A 4.78	*	*	*	-.30	-.30	-.74	-.87	-.05	*	*	-.10	-.09	-.01	-.21	-.09	*	*	*	-.92	*	*	-.01	-.14	-.10	-.15	-.07	-.03	-.60	*	*			
KILAUEA POINT 1133	A 8.05	*	*	*	-.50	-.59	-.62	-.03	-.09	-.12	-.10	-.59	-.25	-.30	-.02	-.60	-.04	*	*	*	1.00	-.07	-.30	-.05	-.13	-.37	-.77	1.78	-.20	-.03	2.35			
KOLDO 1033	A 10.08	*	*	*	-.90	-.54	1.29	-.41	-.58	-.20	-.45	-.25	-.30	-.12	-.03	1.25	*	*	*	1.58	*	*	-.09	-.11	-.06	-.10	2.22	2.71	-.05	*	*			
KOLDO 936	A 11.95	*	*	*	-.46	1.97	-.61	-.22	*	*	*	-.71	-.60	-.52	-.20	-.10	*	*	*	1.58	*	*	-.09	-.11	-.06	-.10	2.22	2.71	-.05	*	*			
KOLDO MAUKA 994	A 13.68	*	*	*	-.35	1.93	-.11	-.33	-.09	*	*	1.34	1.39	-.74	-.53	-.67	*	*	*	1.24	*	*	-.09	-.11	-.06	-.10	2.22	2.71	-.05	*	*			
KOLOKO RES 1137	A 7.11	*	*	*	-.36	-.38	-.37	-.38	-.37	*	*	-.24	-.08	-.02	-.28	-.12	*	*	*	-.94	*	*	-.01	-.15	-.23	-.35	-.05	-.31	-.04	1.37	1.06	-.05	*	*
KUKUIJULA 935	A 11.24	*	*	*	-.30	1.64	-.51	-.25	-.01	*	*	-.82	-.68	-.37	-.16	-.06	*	*	*	1.69	*	*	-.03	-.03	-.04	-.10	1.67	2.84	-.02	*	*			
LIHUE VARIETY STA	A 9.68	0.05	*	*	-.13	1.29	-.02	-.68	*	*	-.13	-.58	-.13	-.25	-.71	1.14	*	*	*	1.08	*	*	-.17	-.40	-.10	-.02	1.50	1.91	1.33	-.03	*	*		
LIHUE 1020	A 10.92	*	*	*	-.45	-.75	-.46	-.75	-.03	T	-.69	-.08	-.21	-.71	-.68	-.31	*	*	*	1.08	*	*	-.52	-.14	-.17	-.53	1.28	2.90	1.55	-.02	*	1.95		
LIHUE WSO 1020.1	/R 11.94	0.08	*	*	-.45	-.75	-.46	-.75	-.03	T	-.69	-.08	-.21	-.71	-.68	-.31	*	*	*	1.08	*	*	-.52	-.14	-.17	-.53	1.28	2.90	1.55	-.02	*	1.95		
MAKAHUNA POINT 940.1	A 9.65	0.04	1.12	*	1.49	-.12	-.50	-.39	1.14	1.10	-.35	-.19	-.05	-.30	1.25	-.06	*	*	*	1.01	-.04	-.04	-.01	-.04	-.04	-.06	-.02	2.15	1.22	-.01	*	*		
MAKAWILI 905	A 13.24	*	*	*	1.21	1.58	-.38	1.47	-.12	-.49	-.98	-.28	-.41	-.36	1.30	-.24	-.03	1.38	-.03	1.86	*	*	-.66	-.50	-.37	-.66	1.08	1.92	-.03	*	1.94			
MANA 1026	A 9.46	*	*	*	-.74	-.63	1.33	-.06	-.75	-.42	-.30	-.31	-.02	-.08	-.07	1.38	-.03	*	*	*	1.01	-.92	-.08	-.01	-.23	1.08	1.10	4.32	1.56	-.09	2.85			
MOHIOI UPR CROSS 1083	A 6.03	*	*	*	-.10	-.42	-.37	-.68	*	*	-.25	-.48	*	-.20	-.25	*	*	*	-.62	*	*	1.01	-.92	-.08	-.01	-.23	1.08	1.10	4.32	1.56	-.09	2.85		
MOLDOA 1145	A 6.03	*	*	*	-.10	-.42	-.37	-.68	*	*	-.25	-.48	*	-.20	-.25	*	*	*	-.62	*	*	1.01	-.92	-.08	-.01	-.23	1.08	1.10	4.32	1.56	-.09	2.85		
* * * ISLAND OF MAUI * * *																																		
MOUNT WAIALEALE 1047	A 10.45	*	*	*	1.10	-.62	1.10	-.18	-.70	-.35	-.60	-.67	-.14	-.04	1.30	*	*	*	1.86	*	*	-.60	1.20	-.56	-.06	-.66	-.50	3.76	2.90	-.30	*	*		
NIU RIDGE 1035	A 22.74	*	*	*	-.37	2.60	-.30	1.16	*	*	1.54	1.19	-.60	-.57	2.60	*	*	*	1.86	*	*	-.66	1.20	-.56	-.06	-.66	-.50	3.76	2.90	-.30	*	*		
N WAILUA DITCH 1051	A 13.94	T	*	*	1.90	2.38	1.47	-.12	-.09	-.02	1.17	-.21	-.31	-.60	-.07	1.15	-.32	-.28	1.16	1.12	-.12	-.15	-.42	*	*	-.66	-.50	3.76	2.90	-.30	*	*		
PRINCIVILLE RANCH 1117	A 9.15	0.01	*	*	-.48	2.01	1.53	-.08	-.02	-.17	-.21	-.31	-.60	-.07	1.15	-.32	-.28	1.16	1.12	-.12	-.15	-.42	*	*	-.66	-.50	3.76	2.90	-.30	*	*			
PUEHU RIDGE 1040	A 13.44	*	*	*	1.95	-.53	-.60	-.46	-.80	-.65	-.92	-.94	-.52	-.23	-.11	1.10	*	*	*	1.41	-.02	-.26	-.24	-.18	-.07	-.02	-.28	2.82	2.05	-.01	*	*		
PUEHU 1013	A 11.94	*	*	*	-.22	1.15	-.62	-.52	-.02	-.49	-.59	-.54	-.57	-.27	-.77	1.01	*	*	*	1.41	-.02	-.26	-.24	-.18	-.07	-.02	-.28	2.82	2.05	-.01	*	*		
RESERVOIR 6 1004	A 12.92	*	*	*	-.76	1.98	-.06	-.30	-.07	*	*	-.87	1.15	-.88	-.36	-.26	*	*	*	1.30	-.02	-.04	-.19	-.07	-.07	-.03	-.28	2.82	2.05	-.01	*	*		
WAHIAHA 930	A 9.74	*	*	*	-.04	1.34	-.27	-.26	-.13	*	*	1.24	-.57	-.90	-.08	-.20	*	*	*	1.73	*	*	1.22	-.25	-.01	*	1.22	2.15	-.01	*	20.25			
WAHIAHA MOUNTAIN 990	A 20.25	*	*	*	-.04	1.34	-.27	-.26	-.13	*	*	1.24	-.57	-.90	-.08	-.20	*	*	*	1.73	*	*	1.22	-.25	-.01	*	1.22	2.15	-.01	*	20.25			
WAIAHI LOWER 1056	A 14.24	0.04	0.16	*	1.96	-.14	1.05	-.10	-.80	-.01	-.21	1.47	-.25	-.23	-.91	-.95	-.06	-.09	-.24	-.25	-.24	-.43	-.27	-.14	-.64	-.43	2.74	1.64	-.10	-.26	*			
WAIAHI UPPER 1052	A 14.33	0.23	0.02	*	1.95	-.27	1.53	-.25	-.15	-.27	1.12	1.83	-.26	-.35	1.25	1.30	-.06	-.09	-.15	-.15	-.02	-.30	-.20	-.45	-.09	-.30	2.08	2.45	-.09	-.25	*			
WAIAHA 943	A 8.34	*	*	*	-.80	-.46	1.06	-.40	-.36	-.07	-.42	-.54	-.14	-.13	-.03	1.06	-.03	*	*	1.14	*	*	-.81	-.38	-.45	-.88	1.70	1.80	-.04	*	*			
WAILUA KAI 1065	A 10.71	*	*	*	-.04	-.91	-.22	-.67	*	*	1.00	-.62	-.78	-.45	-.32	1.30	*	*	*	1.14	*	*	-.81	-.38	-.45	-.88	1.70	1.80	-.04	*	*			
WAIKAE 947	A 9.93	*	*	*	-.98	-.37	-.58	-.16	*	*	1.00	-.62	-.78	-.45	-.32	1.30	*	*	*	1.14	*	*	-.81	-.38	-.45	-.88	1.70	1.80	-.04	*	*			
WEST LAWA 931	A 10.64	*	*	*	-.26	2.04	-.21	-.25	-.07	*	*	1.17	-.52	-.72	-.11	-.04	*	*	*	1.72	T	T	*	*	*	-.01	1.12	2.35	-.05	*	*			
* * * ISLAND OF OAHU * * *																																		
BERETANIA PUMPING STA	A 6.65	*	*	*	-.39	-.39	T	*	*	-.25	-.06	-.18	-.96	-.52	-.03	-.63	-.65	T	T	-.05	-.04	T	*	*	T	-.07	2.10	1.33	*	*	*			
CAMP 84 807	A 17.90	*	*	*	1.18	1.41	-.15	*	*	2.65	-.23	-.45	-.35	-.97	*	*	*	3.60	*	*	-.08	-.04	*	-.04	-.17	-.12	-.03	-.23	4.10	-.21	*	*		
CHURCH COLLEGE LAIE	A 15.19	*	*	*	1.21	-.79	-.38	-.01	-.12	-.27	-.05	-.01	-.40	-.32	-.24	2.70	-.58	-.02	-.04	-.04	-.12	-.17	-.12	-.03	-.03	-.23	4.10	-.21	-.84	*	*			
COCONUT ISLAND 860.1	A 10.89	*	*	*	-.34	-.49	-.01	-.12	-.04	-.12	-.04	-.14	1.00	-.99	-.09	-.42	-.02	-.01	-.29	-.08	-.16	-.16	-.16	-.16	-.16	-.65	2.23	2.44	-.21	*	*			
EWA PLANTATION 741	A 9.75	*	*	*	-.3																													

DAILY PRECIPITATION

HAWAII
JANUARY 1971

Station	Total	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MAUNA KEA 1	10.51	*	*	*	.03	.15	1.76	.35	T	*	*	1.86	.30	.28	.68	.30	*	*	2.10	.04	.16	.15	.04	*	*	.02	.06	1.01	1.22			
MAUNA KEA 2	11.31	*	*	*	.06	.22	1.95	.37	.02	.01	*	1.52	.28	.09	1.13	.20	.96	*	1.71	.05	.45	.14	*	*	*	*	.09	.78	1.20	.02	.26	
MAUNA KEA 3	11.37	*	*	*	.86	*	*	*	*	*	*	*	*	*	9.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ISLAND OF OAHU																																
LANEY 07	13.01	*	*	*	*	*	2.44	*	*	*	*	.18	*	*	2.50	*	*	*	*	*	3.47	*	*	*	*	*	*	*	*	*	5.20	
MAUNA KEA 4	10.24	*	*	*	*	2.00	.80	*	*	*	*	.74	1.37	.67	.65	*	*	1.91	*	*	*	*	*	*	*	*	*	*	*	*	*	
MAUNA KEA 5	16.90	*	*	*	1.04	2.54	.40	.01	*	*	*	*	*	.89	.76	1.00	*	*	2.70	.28	.12	.01	.01	*	*	.01	.02	3.90	1.30			
MAUNA KEA 6	15.60	*	*	*	*	*	3.73	*	*	*	*	*	*	*	3.63	*	*	*	*	*	4.50	*	*	*	*	*	*	*	4.30	3.31		
MAUNA KEA 7	13.72	*	*	*	*	*	2.40	*	*	*	*	*	*	*	3.51	*	*	*	*	*	1.71	*	*	*	*	*	*	1.20	4.90			
MAUNA KEA 8	15.16	*	*	*	*	*	*	*	*	*	*	*	*	*	6.85	*	*	*	*	*	*	*	*	*	*	*	*	*	8.31			
ISLAND OF MAUI																																
MAUNA KEA 9	19.31	*	*	*	*	4.38	*	*	*	*	1.27	4.70	.57	1.10	*	*	*	*	2.34	.40	*	*	*	*	*	.40	4.15	1.33	4.40	.41	.05	
MAUNA KEA 10	14.76	.01	*	*	.04	.14	1.11	1.35	.43	.32	.66	*	*	.06	.02	.27	.83	.15	2.07	.13	.05	.60	*	*	*	*	3.68	2.61				
MAUNA KEA 11	14.04	*	*	*	.08	.34	2.55	1.32	*	*	.08	.07	.08	.06	.21	4.00	3.50	.20	.32	.25	.02	T	T	*	*	.05	7.95	8.30	.02	.03		
MAUNA KEA 12	28.23	*	.01	*	1.02	4.07	2.02	*	1.03	.08	.07	.34	.11	.05	*	*	17.00	.11	T	*	*	*	*	.12	.50	10.00						
ISLAND OF HAWAII																																
MAUNA KEA 13	17.75	*	*	*	.37	.49	1.83	1.12	*	.83	*	*	.12	.41	*	*	2.48	1.50	.18	.08	.47	*	*	*	.47	.97	6.90					
MAUNA KEA 14	17.85	*	*	*	.08	.43	1.55	.97	T	.47	.29	T	.07	.52	.50	.77	.17	2.25	.46	.06	.13	.04	*	*	*	1.05	7.96					
MAUNA KEA 15	23.25	*	.12	*	2.15	1.42	.78	1.30	*	.28	.01	*	.02	.60	.80	3.20	6.30	1.50	.03	.35	.01	*	*	*	5.18	1.18	.03					
MAUNA KEA 16	27.38	.03	.04	T	.87	.70	.27	.02	2.26	.50	.07	T	.03	.03	T	.82	.89	2.95	6.35	.20	.19	T	T	T	.29	6.86	1.18	.11	2.64			
MAUNA KEA 17	24.90	T	*	*	3.15	1.48	.84	.88	*	.57	.17	.12	.99	1.72	1.46	1.04	.17	3.73	2.10	T	.79	*	*	*	2.32	1.94						
ISLAND OF MOLOKAI																																
MAUNA KEA 18	47.05	*	*	*	17.00	*	*	7.00	*	*	7.00	*	*	*	*	23.00	*	*	.65	*	*	*	*	*	*	*	*	*	*	*	11.40	
MAUNA KEA 19	11.40	*	*	*	.12	.55	1.20	.65	.02	*	.02	.02	.19	.45	.21	*	3.21	.49	.27	.26	.04	*	*	*	.03	2.56	3.13			.09		
MAUNA KEA 20	13.51	*	*	*	.06	.90	.92	.75	T	.05	T	.03	.45	.45	.12	.13	1.45	.17	.09	T	.02	*	*	.02	.04	3.06	2.28			.05		
MAUNA KEA 21	20.24	*	*	*	.04	.92	1.57	1.71	.03	.51	.18	T	.25	1.02	.86	.97	.10	1.64	.15	.06	.31	*	*	*	2.55	7.12			.05			
MAUNA KEA 22	21.00	*	*	*	.03	.67	1.70	2.20	.25	.30	.05	.22	.04	.16	.64	.18	1.18	.02	.12	.02	.16	*	*	.01	2.77	4.28			.07			
MAUNA KEA 23	17.31	*	*	*	.01	1.03	1.80	.95	.02	.57	.09	T	.08	.60	.77	*	*	1.22	.16	*	*	*	*	.01	1.50	1.00			.15			
MAUNA KEA 24	18.25	.11	*	*	.01	1.03	1.00	1.35	1.34	.33	.17	.55	1.14	1.43	.97	*	*	1.22	3.55	*	*	*	*	*	1.50	1.95			.15			
ISLAND OF HAWAII																																
MAUNA KEA 25	14.59	*	*	*	.13	.37	1.86	2.42	*	.75	*	.12	.30	.81	1.16	.09	.23	*	*	.03	.01	*	*	*	1.97	4.34			.04			
MAUNA KEA 26	22.75	.03	*	*	.10	2.30	2.12	2.46	T	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.13	.19	*	*	.01	3.50	5.05			.05			
MAUNA KEA 27	10.42	*	*	*	.22	1.51	.96	.30	*	.30	.20	.37	.81	.06	.02	.75	*	.03	.01	*	*	*	*	.03	2.96	2.13			.06			
MAUNA KEA 28	16.45	*	*	*	.46	1.44	1.56	.45	*	.02	.30	.45	.30	.22	.80	*	.02	*	*	*	*	*	*	*	1.38	4.67			.03			
MAUNA KEA 29	16.80	*	*	*	.02	.50	1.35	.58	.12	*	3.55	.10	.19	1.10	.36	.32	1.64	.20	.05	.36	.33	.05	*	2.85	2.70	3.20				16.80		
MAUNA KEA 30	13.17	*	*	*	.03	.67	1.70	2.20	.25	.98	T	.08	.35	1.40	.33	*	4.47	1.03	.05	.01	.19	*	*	T	2.06	5.86			*			
MAUNA KEA 31	10.91	*	*	*	.56	1.55	1.45	.36	*	.09	.15	.09	.16	.65	*	*	1.06	.38	.33	*	*	*	*	*	2.95	2.90			*			
ISLAND OF HAWAII																																
MAUNA KEA 32	16.03	*	*	*	.01	1.50	1.01	.06	.47	.88	.08	.08	.08	.12	1.05	8.25	4.36	.08	.18	*	*	*	*	*	1.96	6.50	.10			6.00		
MAUNA KEA 33	26.17	.31	.07	*	.01	.59	1.95	.99	T	.40	.13	T	.07	.55	1.26	.66	.15	1.23	.29	.29	.24	*	*	*	2.70	7.20			.05			
MAUNA KEA 34	18.78	*	*	.02	.11	1.51	.99	T	.47	.88	.08	.08	.08	.12	1.05	8.25	4.36	.08	.18	*	*	*	*	*	2.70	7.20			.05			
MAUNA KEA 35	29.55	*	*	*	.05	.70	1.60	1.50	*	.55	.08	.15	.30	.65	.27	*	1.06	.38	.33	*	*	*	*	.12	*	2.00	3.94			5.45		
MAUNA KEA 36	13.73	*	*	*	.05	.70	1.60	1.50	*	.55	.08	.15	.30	.65	.27	*	1.06	.38	.33	*	*	*	*	.12	*	2.00	3.94			5.45		
ISLAND OF HAWAII																																
MAUNA KEA 37	41.39	*	*	*	.03	.97	1.25	1.44	.08	.49	.09	T	.13	.74	.66	.83	.67	.15	1.09	.50	.03	.14	*	*	4.95	.80			.05			
MAUNA KEA 38	16.74	.02	*	*	.03	.97	1.25	1.44	.08	.49	.09	T	.13	.74	.66	.83	.67	.15	1.09	.50	.03	.14	*	*	4.95	.80			.05			
ISLAND OF HAWAII																																
MAUNA KEA 39	15.23	*	*	*	.03	.97	1.25	1.44	.08	.49	.09	T	.13	.74	.66	.83	.67	.15	1.09	.50	.03	.14	*	*	4.95	.80			.05			
MAUNA KEA 40	19.50	*	*	*	.03	.97	1.25	1.44	.08	.49	.09	T	.13	.74	.66	.83	.67	.15	1.09	.50	.03	.14	*	*	4.95	.80			.05			
MAUNA KEA 41	12.51	*	*	*	.03	.97	1.25	1.44	.08	.49	.09	T	.13	.74	.66	.83	.67	.15	1.09	.50	.03	.14	*	*	4.95	.80			.05			
MAUNA KEA 42	17.78	*	*	*	.14	1.90	1.47	2.08	.98	.10	1.36	.08	.35	1.40	.33	*	1.27	.83	.07	*	*	*	*	.05	3.10	2.35						
MAUNA KEA 43	11.07	*	*	*	.35	1.70	.90	.25	*	.15	.90	1.10	.40	.20	.80	.02	*	*	*	*	*	*	*	.05	3.10	2.35						
ISLAND OF HAWAII																																
MAUNA KEA 44	24.12	*	.06	*	.10	2.34	.93	*	.50	.96	.13	.02	1.96	1.20	2.22	3.16	2.29	2.04	.23	.23	*	*	*	*	2.30	2.45			*			
MAUNA KEA 45	28.39	*	.08	*	.80	2.40	.83	*	.43	.61	.10	.02	1.13	1.19	6.20	5.06	2.32	2.00	.17	.13	*	*	*	*	2.38	2.56			21.00			
MAUNA KEA 46	14.00	*	*	*	.31	.17	*	.10	*	.04	.03	.03	.01	*	1.98	2.91	.43	.02	.18	*	*	*	.21	T	T	2.10	3.16			*		
MAUNA KEA 47	16.27	*	*	*	.01	1.30	1.60	1.92	*	.47	.15	.18	.85	.82	.54	.94	1.15	.86	.22	*	*	*	*	*	2.10	3.16			*			
MAUNA KEA 48	18.75	*	*	*	.02	1.39	1.91	1.35	*	.42	.11	.16	.14	1.75	.74	.91	1.18	2.27	1.02	.01	.08	*	*	.19	3.67	1.62			*			
MAUNA KEA 49	15.28	*	*	*	.02	1.39	1.91	1.35	*	.42	.11	.16	.14	1.75	.74	.91	1.18	2.27	1.02	.01	.08	*	*	.19	3.67	1.62			*			
ISLAND OF HAWAII																																
MAUNA KEA 50	18.00	*	*	*	.01	1.20	.32	2.70	.90	.23	.06	.01	.01	.20	.90	*	.32	2.25	.02	T	*	*	*	1.30	3.62			.02				
MAUNA KEA 51	13.88	.02	*	*	.01	1.20	.32	2.70	.90	.23	.06	.01	.01	.20	.90	*	.32	2.25	.02	T	*	*	*	1.30	3.62			.02				
MAUNA KEA 52	11.85	*	*	*	.01	1.20	.32	2.70	.90	.23	.06	.01	.01	.20	.90	*	.32	2.25	.02	T	*	*	*	1.30	3.62			.02				
MAUNA KEA 53	8.09	.02	*	*	.02	.34	.71	.62	.15	.01	.53	1.05	2.31	.04	.58	*	*	*	*	*	*	*	*	.52	1.18	.01						
ISLAND OF HAWAII																																
MAUNA KEA 54	13.73	.02	*	*	.02	.34	.71	.62	.15	.01	.53	1.05	2.31	.04	.58	*	*	*	*	*	*	*	*	.52	1.18	.01						
MAUNA KEA 55	23.00	*	*	*	.02	.34	.71	.62	.15	.01	.53	1.05	2.31	.04	.58	*	*	*	*	*	*	*	*	.52	1.18	.01						
MAUNA KEA 56	7.92	*	*	*	.02	.34	.71	.62	.15	.01	.53																					

DAILY PRECIPITATION

Continued

HAWAII
JANUARY 1971

Station	Total	Day of Month																																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
KOHALA MAULILI 176	16.51	*	*	*	.60	.12	.85	2.70	.16	*	1.56	.01	.08	.01	*	*	.25	3.58	1.15	.06	.03													.73	4.62	*	*		
KOHALA MISSION 175.1	16.92	*	.25	*	.14	.85	2.31	.14	.76	.73	.06	.03	.07	T	*	*	.14	.10	4.49	1.07	.14	.02											.01	.78	4.82	.01	*		
KOHALE LOWER 196	10.81	*	*	*	*	1.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
KONA (KILIAU) 68.3	11.14	*	*	*	.56	.71	3.20	.19	*	1.10	.02	*	*	*	*	*	*	.34	.69	2.69	.37	T	T	*	*	*	*	*	*	*	*	*	*	*	.58	4.15	*	*	
KONA VILLAGE 93.8	15.32	*	*	*	1.50	2.10	*	*	*	.35	*	*	*	*	*	*	.03	.65	.72	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.60	.02	*	*	
KUKAIAU 222	8.13	T			.04		.11	.24	.55	1.04	.03						.01	2.00	1.02	1.34	.05	.77	T											.11	.91	.31	*		
KUKUIHALE HIC 199	11.16	*	*	*	.62		.51	1.40	.52	.07	*	*	*	*	*	*	.44	2.10	1.94	.72	.15	.02													.32	2.13	*	*	
KUKUIHALE HILL 206	10.46	A			.20		.64	.01	*	1.64	*						.45	3.15	1.50	.69	.05	*	*	*	*	*	.02	.02					.37	1.73	.01	*			
KULANI CAMP 79	21.66	*	.08	*	.05	.12	.03	4.90	.85	.04	*	*	.10	.19	*	*	.39	4.71	.40	2.35	.01				.03	.17							5.24	1.57	.02	.33			
KULANI MAUKA 76	5.55	A			.12			1.93	.03	.24	*	*					.06	1.81	.15	*	*	*	*	*	*	*	*	*	*	*	.23	.89	.03	.06	*	*			
KULANI SCHOOL SITE 78	19.42	A	7.84	*	*	*	*	4.00	*	*	*					.90	*	*	*	*	*	3.55	*	*	*	*	*	*	*	*	*	*	*	*	3.13	*	*		
LANIHAU 68.2	20.07	A			.85	1.46	4.50	.55	.13	.05	.10	.09				.48	.15	.87	3.05	.78	*	*	*	*	*	*	.75					.88	6.10	.03	*	*			
MANUKA 2	14.83	A	.68	*	.68	.94	.16	.38	.27	*	.07	T					4.22	.15	1.45	.13	.61	*	*	*	*	*	*	*	*	*	*	2.22	1.50	*	*	*	*		
MAUNA KEA BEACH 98	-						.09	.06	.02	2.21	.23						.03	.50	.19	1.03												.67	.81	*	*	1.13	*		
MAUNA LOA SLOPE 085	6.97																																						
MIDDLE HOUAULOA 68.1	15.73	A			.60	1.35	*	*	4.63	*	*	*	*	*	*	.55	*	1.75	1.65	*	*	*	*	*	*	*	*	*	*	*	5.20	*	*	*	*				
MIDDLE PEN 147.1	13.50	A			*	*	*	*	*	*	*	*	*	*	*	5.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.00	*	*	*	*			
MOAULA 18	21.10	A			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	21.10	*	*	*	*	*			
MOUNTAIN VIEW 91	17.06	A			.05	.01	.02	5.69	1.89	.32	.13	.07	.06	T	.43	1.30	1.11	3.16	.97	1.38	.11	1.63	*	*	*	*	.09	T				2.89	1.13	.08	.10	*	*		
MAALEMU 14	22.63	A	.19	*	.31	.65			5.78	1.55	.83	.07																			2.08	.83	*	*	.10	*			
NAPPOPO 28	9.20	A			*	*	*	*	5.09	*	*	*	*	*	*	.92	*	*	*	*	*	*	*	*	*	3.19	*	*	*	*	*	*	*	*	*	*			
NAULU FOREST 38.6	32.64	A			.70	.03	1.16	.32	.02	1.80	.97	.52	.61	.17	.21	.47	1.18	5.04	1.52	2.70	.30	.04	.16	T								4.85	1.76	T	*	*			
NIULI 179	17.94	A			.09	T	.38	.36	1.17	.84	.53	.04					.31	5.98	1.02	.08	.05	*	*	*	*	.05						.10	.84	.36	.05	*	*		
ODWALA 223	10.59	A	.10	*	.04	1.08	.23	T	1.57	1.33	.35	T	.11	T	.26	.10	.15	.53	.42	1.06	.01											2.51	2.55	.01	.01	.01	*		
OPIMHALE 2 24.1	12.33	T																																					
ORCHID LAND EST 91.5	21.99	A			.19	*	*	.31	1.96	*	*	*	*	*	*	.92	*	*	*	*	*	*	*	*	*														
PAAHU 217	7.77	A			.03	.16	.40	.94	.02	.04	.11	.04	.11	.04			.01	1.23	1.25	1.17	.04	.79	T											.35	1.10	.03	*	*	
PAALU 221	6.95	T			.08	.16	.24				.87	.04	.17	.15			.07	6.81	1.16	2.26	.06	.05	.65	*	*	.05								3.47	2.00	*	*		
PANALA 21	20.75	A			.04	.04		.12	1.38	4.12	.69	.17	.15			.05															.04	3.06	1.57	.48	.57	*	*		
PANDA 65	36.54	A																																					
PAKAD 37	22.10	A			.07	.04	.04	4.43	2.55	.05	*	*	*	*	*	.02	1.67	.58	1.15	.01	.01	T											2.59	.30	.19	.11	*	*	
PAPAIAKOU 144.1	13.87	A	.06	*	.05	.04	T	4.33	1.80	.02	T	T				T	1.26	.38	1.37	.05	.23	.15	T											1.08	.22	.10	.09	*	*
PAPAIAKOU MAUKA 140.1	11.87	A	.12	*	.02	.23	.03	4.02	1.62	.03	*	*	*	*	*	.09	2.94	.45	1.73	.05	.01	.42											.02	.02	.42	.43	.36	*	
PEPEKED MAKAI 144	14.90	A	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PIMOMUA 89	14.40	A																																					
POMAKULUA 107	5.88	A						1.82	.57	.29	*	*	*	*	*	.15	.35	.32	1.28	*	*	*	*	*	*	*	*	*	*	*	1.10	*	*	*	*	*			
PUAKO 95.1	9.85	A			.87	.95	T	1.31	.15	.10	T	T					.01	.47	.66	*	*	*	*	*	*	*	*	*	*	*	21	5.12	T	*	*	*			
PUU KIME 120	11.16	A																																				1.16	*
PUU LAU 102.1	8.65	A																																				8.65	*
PUU LEHUA 73	18.00	A																																				8.00	*
PUU MALI 113	7.49	A																																				7.49	*
PUUOKUMAU 167	10.85	A						4.11	*	*	*	*	1.43							4.47	*	*	*	*	*	*	*	*	*	*	*	.84	*	*	*	*	*		
PUU OO 92	7.93	T	.12	*	.09	.01	2.88	.86	.06	.01							.05	.16	1.82	.58	.07	.03	.57	T											.18	.25	T	.09	*
PUU WAHAA 94.1	16.40	A			.35	1.55	2.25	.42	.02	.04								.65	2.35	1.53	.02	.03											.97	6.20	.02	*	*		
SADDLE ROAD 1 84	10.07	A					.17	*	*	*	*	*				6.00	*	*	*	*	2.10	*	*	*	*	*	*	*	*	*	*	1.80	*	*	*	*	*		
SOUTH POINT CORRAL 3	15.38	A		.10					5.45	*	3.70	*				.37	*	*	*	*	*	*	*	*	*	3.74	*	*	*	*	*	*	*	*	2.00	*			
UMIKOA 118	6.49	A			.63	.62	.02	.02	1.51	.05						1.38		1.19		.09																.98	*		
UPULU POINT USCG 159.2	13.86	A			1.16	.22	.89	.27	.34	*	*					.60	1.46	3.20	.70	T																	.28	4.74	*
WAIKAEA SCO 88.2	11.92	A	.02	*	.05		3.72	1.91	.20			.08					.50	1.18	1.11	.06	.01	.12											2.28	.52	.02	.14	*	*	
WAIKAEA KOHALA	8.98	A			.04	.75	1.07	T	.14	.32	.17	T	.02			T	.02	.21	2.33	.04																			

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover sunrise to sunset	
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over			Total
							02	08	14	20									
	150TH MERIDIAN																		
HILO WSD 87	17	1.3	6.0	29	S	28	84	74	70	82	4	8	4	2	3	1	22	28	7.2
HONOLULU WSFD 703	20	1.9	10.1	33	SW	15	83	83	64	76	10	3	7	2	2	0	24	49	7.3
KAHULUI WSD 398	19	4.6	10.7	38	SW	15	91												

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Station	Day of Month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																		
KANALOHULU 1775	MAX MIN	65 46	64 45	67 48	59 37	61 49	51 46	57 36	52 45	59 36	68 43	61 38	64 54	62 56	62 58	61 57	60 39	68 45	64 38	67 43	62 53	63 59	62 51	65 39	65 41	66 52	62 55	58 54	57 50	60 49	59 35	62 39	61.7 47.0	
KAHALA POINT 1133	MAX MIN	77 68	77 67	76 66	75 61	72 60	72 57	77 60	77 61	75 68	81 67	76 69	80 70	74 65	78 66	80 66	72 64	78 65	76 65	78 68	76 65	78 65	73 67	77 66	77 66	73 67	77 66	78 69	77 65	76 61	77 65	77 61	77 66	76.3 64.9
LIMOHU WSO 1020.1	MAX MIN	77 63	77 62	75 59	78 61	76 59	70 56	73 53	75 61	77 63	79 63	75 67	76 72	80 68	76 65	81 72	76 65	76 60	78 60	78 65	76 66	76 63	77 58	77 60	78 65	78 65	78 63	79 63	79 63	75 60	79 59	79 59	79 67	76.7 62.6
KAHALA POINT 940.1	MAX MIN	79 68	81 60	82 63	81 65	82 61	76 56	63 59	76 61	80 63	84 65	71 65	84 71	75 72	81 69	76 66	69 64	72 61	76 61	79 69	72 65	78 65	73 61	79 65	80 66	80 61	82 63	73 65	81 65	80 61	78 59	82 64	78.2 63.9	
KAHALA 1126	MAX MIN	77 63	81 62	83 62	82 61	81 61	72 56	70 56	73 60	75 63	76 62	80 62	73 68	78 69	77 66	79 70	82 55	74 59	76 60	80 60	80 60	80 61	80 61	77 60	78 59	83 63	84 63	81 65	76 63	77 60	76 58	79 59	78.2 61.2	
KU RIDGE 1035	MAX MIN	78 63	79 62	78 61	79 61	78 56	76 56	66 56	70 60	72 63	74 57	76 62	77 68	76 69	74 66	77 70	75 55	69 59	70 60	76 60	78 56	77 56	75 55	77 56	76 55	79 58	80 58	77 58	80 60	77 58	79 58	79 51	74.8 56.4	
KAHALA LOWER 1054	MAX MIN	78 60	77 57	77 62	76 61	74 60	67 48	73 45	73 54	76 56	78 56	74 63	73 64	82 69	71 64	77 68	78 57	77 56	75 53	75 56	75 58	74 59	75 50	78 56	79 58	80 60	80 67	77 66	74 62	78 58	78 60	77 55	76.0 58.1	
ISLAND OF OAHU																																		
FWA PLANTATION 741	MAX MIN	79 60	82 55	79 54	80 56	83 61	74 58	70 53	73 52	78 57	73 61	77 61	80 64	77 67	80 64	76 67	81 64	75 66	79 63	79 61	78 61	78 58	77 56	81 61	80 62	82 60	78 61	80 63	69 56	74 54	80 61	77.7 59.9		
HONOLULU WSPD 703	MAX MIN	81 64	79 62	79 60	82 62	77 63	73 58	74 56	79 58	75 62	79 66	79 68	79 70	79 70	77 69	80 70	77 66	79 66	80 69	80 67	79 65	79 64	78 62	81 61	81 69	82 66	79 66	81 67	77 64	82 61	81 60	81 67	78.9 64.5	
HONOLULU SUBSTA 704	MAX MIN	77 67	75 66	75 64	80 65	74 64	70 60	72 59	77 62	75 64	77 65	77 68	77 67	76 68	76 66	77 69	75 66	73 67	75 68	75 58	74 67	74 64	77 64	78 64	81 69	77 68	76 67	75 68	72 63	75 62	78 65	78 70	75.7 65.6	
KAHULU 912	MAX MIN				74 61	82 62	73 60	71 56	72 53		80 56	78 63	81 66	81 68	78 67		82 64	77 65	76 66	76 64	76 66	76 66	76 58	78 60	83 62	71 62	83 63	71 65				77.8 63.5		
KANEHE PAUKA 781	MAX MIN	76 64	77 62	76 61	78 59	80 58	72 56	69 53	73 58	75 61	74 64	74 71	75 62	78 70	76 67	76 68	77 66	73 65	68 65	72 64	75 67	76 66	75 61	69 60	78 61	78 64	80 65	87 70	79 62	68 56	75 60	78 62	75.4 63.3	
LUALUALEI 804	MAX MIN	79 64	81 61	79 58	80 58	80 67	73 58	72 53	75 57	76 62	76 63	78 60	77 69	76 69	78 69	77 70	74 71	78 66	77 66	77 63	79 66	78 67	77 61	79 66	78 68	79 58	79 63	79 64	76 64	71 60			77.1 63.4	
KAHALA POINT 724	MAX MIN	73 66	74 62	72 63	76 64	73 58	72 56	67 51	71 50	70 63	72 63	71 64	73 69	76 66	73 64	73 69	76 66	74 63	73 63	70 63	71 65	73 63	71 63	73 65	76 65	74 67	75 63	75 65	75 63	69 59	72 62	72 66	72.6 63.1	
OPAEULA 870	MAX MIN				78 56	76 58	66 56	69 52	71 53		71 59	71 61	71 63	71 66	74 64	72 64	71 61	67 61	67 61	74 61	75 61	75 61	74 59	78 61	75 61	79 62	81 61	75 62	74 62	66 57	76 56		73.1 59.6	
RAI KAHIAWA 820.2	MAX MIN	76 59	79 54	76 54	81 53	79 56	70 56	74 51	71 50	74 51	80 60	80 50	73 61	78 66	76 63	74 65	78 64	79 62	74 65	74 60	87 62	76 63	76 60	76 59	75 60	75 57	68 54	76 60	81 54	79 58	75 58	78 62	75.3 57.6	
KAHALA 847	MAX MIN	78 59	78 58	79 56	76 54	82 61	73 56	70 52	71 51	79 56	75 58	78 67	78 68	78 69	80 66	77 65	78 70	78 65	70 64	79 59	79 59	75 65	75 61	72 62	76 61	81 62	79 61	79 62	79 61	73 56	77 57	79 53	76.8 60.1	
KAHALA 171.2	MAX MIN	85 65	84 58	81 57	84 59	84 58	76 55	78 53	79 58	82 60	77 66	79 67	81 68	80 71	83 66	78 66	82 69	71 66	80 66	81 67	82 65	82 65	80 59	82 58	83 63	83 65	84 65	82 71	83 64	70 58	82 58	81 69	80.6 63.4	
KAHALA EXP FARM	MAX MIN	77 66	79 62	78 60	79 61	82 64	75 59	73 55	75 56	76 60	76 65	75 66	78 68	78 70	77 68	77 68	77 71	76 65	74 64	77 65	76 66	78 65	77 60	76 59	78 62	77 64	76 62	78 64	75 58	78 56	77 62	77 62	76.5 62.9	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	76 64	77 64	77 71	75 67	78 69	71 62	77 57	70 57	77 61	71 67	75 67	74 70	77 69	74 69	76 70	74 65	76 66	70 65	75 64	77 65	74 62	75 59	79 62	80 64	76 61	77 65	77 65	66 58	75 58	77 61	75.1 64.1		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	73 57	71 57	69 59	70 56	68 63	65 57	67 53	68 50	71 54	67 58	70 61	68 62	70 63	70 65	69 65	68 66	68 65	71 61	68 62	68 65	69 65	70 54	77 57	75 57	72 60	76 62	76 60	71 57	61 54	75 59	77 59	70.3 59.0	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	57 34	59 33	63 33	62 33	53 34	43 39	43 33	45 31	54 34	51 43	55 42	55 42	60 46	55 49	58 47	55 46	54 48	55 48	56 45	56 38	54 34	53 36	53 36	55 39	61 42	60 42	57 40	53 44	50 40	50 31	55 35	54.5 39.3	
HALEAKALA SUMMIT 338.4	MAX MIN				52 41									41 32	46 38	46 38				44 37	45 37	44 31	40 29			46 36	49 36	48 31						
KAHALA AIRPORT 355	MAX MIN	78 61	77 52	78 59	80 58	73 60	72 58	72 52	75 51	71 60	78 63	78 59	80 58	76 63	80 59	80 58	80 57	73 65	71 69	71 66	76 60	75 57	76 55	79 59	79 63	80 60	80 61	83 63	74 64	76 59	78 61	78 68	76.7 60.1	
KAHALA AIRPORT	MAX MIN	78 61	76 60	77 65	77 65	76 61	76 56	71 55	73 58	75 60	74 59	79 67	77 68	76 69	77 66	77 66	76 68	77 67	76 66	74 66	78 63	76 63	75 60	78 59	80 59	79 62	78 55	80 63	79 65	69 60	75 58	77 62	76.3 62.1	
KAHULU WSO 398	MAX MIN	79 56	77 54	77 57	80 55	76 66	71 58	73 54	76 52	75 61	79 61	76 70	78 69	77 71	78 71	79 72	80 70	76 69	73 69	80 66	76 63	79 63	76 66	81 59	80 63	78 60	83 58	80 61	75 61	78 61	79 56	82 66	77.6 61.9	
KAILUA 446	MAX MIN	72 62	74 58	72 58	73 59	76 63	74 61	66 55	71 58	75 60	67 61	74 62	76 65	76 65	75 66	75 65	81 69	80 66	70 66	79 65	80 66	73 65	79 56	72 55	75 62	74 61	75 61	74 61	79 61	78 58	79 56	79 64	74.3 60.7	
KEAWAKAWA BEACH 267.7	MAX MIN	82 56	83 55	79 55	81 56	83 63	75 60	70 53	78 55	82 69	73 62	80 67	78 67	80 68	80 67	76 67	77 68	79 68	79 68	78 65	78 61	79 61	79 60	80 63	80 63	81 61	82 60	82 63	81 67	70 59	81 53	81 58	78.9 61.6	
KULA SANATORIUM 267	MAX MIN	68 51	68 48	67 49	68 52	67 53	63 52	60 48	62 49	69 54	62 58	67 58	67 57	72 58	71 58	66 60	65 61	75 62	70 60	68 57	70 62	68 50	68 50	70 49	72 50	72 53	74 54	72 55	68 60	66 54	69 51	71 52	68.6 54.1	

See Reference Note Following Station Index

Continued

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Station		Day of Month																															Average			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
LAHAINA 361	MAX MIN	83 62	83 60	81 61	82 62	82 66	74 63	72 56	76 58	79 62	75 64	80 67	76 69	78 68	79 70	76 69	75 67	75 66	81 68	82 67	81 62	82 62	80 59	78 60	82 61	82 62	83 65	61 67	82 64	66 60	81 59	83 65	79.1 63.5			
WAILUKU 386	MAX MIN					80 70	80 68	79 56	73 55			81 56	75 67	78 69	74 69	76 69			77 67	70 66	73 63	74 60	74 56				78 58	80 63	82 64	66 66	58 58					
* * *																																				
ISLAND OF HAWAII																																				
HAINA 214	MAX MIN	78 60	74 60	75 60	76 59	79 60	81 61	72 60	72 59	75 61	69 62	79 63	79 62	75 63	78 65	80 64	85 68	81 65	81 64	83 64	86 68	80 69	78 66	76 66	81 62	82 61	80 61	78 60	79 61	78 61	78 61	79 59	75 62	77 62	78 61	76.9 61.5
HAWAII VOLCANO NP HO 54	MAX MIN	62 47	67 42	67 42	67 47	68 51	66 47	63 51	63 47	68 51	58 45	66 50	68 53	58 52	66 54	60 55	66 57	67 58	63 59	62 58	66 57	65 48	65 44	62 50	59 49	65 51	67 48	69 55	65 56	68 54	69 56	70 56	67 54	69 56	65.1 51.4	
HILD WSO 87	MAX MIN	81 61	78 58	80 60	82 64	82 62	79 59	78 60	78 64	71 64	79 64	79 63	82 60	81 63	81 62	83 63	86 68	80 69	78 66	83 67	86 67	80 66	76 66	81 62	82 61	80 61	78 60	81 60	81 60	87 62	79 68	79 65	81 62	81 64	80.2 62.4	
KAINALIU 73.2	MAX MIN	75 56	74 55	75 56	64 58	78 61	71 61	74 56	71 56	71 61	71 61	67 61	76 62	72 61	75 63	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	74.0 60.1	
KAMUELA 192.2	MAX MIN	68 50	73 50	63 50	72 42	72 45	69 50	70 52	69 47	70 50	70 54	69 53	69 49	72 52	73 59	71 59	76 60	75 62	73 58	72 60	72 60	73 58	72 46	73 44	73 55	72 49	73 50	75 50	74 48	76 51	73 56	75 55	74 56	72.0 52.1		
KEAAU 92	MAX MIN	78 58	78 58	78 58	78 58	81 61	84 61	77 61	75 59	75 59	80 59	79 63	78 62	81 63	80 63	83 63	85 63	85 67	77 67	80 66	70 66	78 58	77 60	80 62	79 62	80 62	79 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	79.3 61.3	
KEALAKEKUA 26.2	MAX MIN	75 57	73 58	76 56	75 59	77 63	71 60	69 56	71 57	71 61	71 61	68 63	76 62	73 63	75 65	75 65	77 66	74 66	77 63	74 63	76 63	76 63	71 64	74 57	75 56	76 59	75 60	76 59	77 61	77 62	77 62	77 62	77 62	74.0 60.8		
KOHALA MISSION 175.1	MAX MIN	75 61	74 61	73 60	76 58	80 60	76 63	65 58	74 60	71 60	67 62	77 64	77 63	78 64	76 69	78 70	81 73	79 68	86 66	71 66	72 60	74 60	75 61	76 62	76 62	79 62	78 62	79 62	78 62	83 62	75 60	77 61	77 61	75.6 62.5		
KONA (KAILUA) 68.3	MAX MIN				81 68	81 69	77 66	74 61	78 66	73 60	82 66	79 65	81 67	79 69	80 71																					
KULANI CAMP 79	MAX MIN	55 33	54 34	63 36	55 43	62 46	61 38	64 41	58 40	61 46	61 46	62 47	60 47	68 50	65 48	72 48	68 53	72 55	75 51	76 51	76 51	74 49	74 49	74 49	74 49	74 49	74 49	74 49	74 49	74 49	74 49	74 49	74 49	74 49	62.1 44.7	
MAUNA LOA SLOPE D85	MAX MIN	47 27	50 28	50 28	52 31	41 29	34 26	33 30	41 30	38 31	44 30	45 32	48 32	47 35	50 36	46 33	50 37	42 35	48 35	43 22	43 20	46 19	48 23	48 25	47 28	44 29	41 32	41 32	38 32	36 25	42 25	43 25	44 25	44.0 29.1		
MOUNTAIN VIEW 91	MAX MIN	74 54	74 54	74 54	74 54	76 55	76 55	75 55	69 56	73 57	73 57	73 59	77 61	77 60	80 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	74.9 57.5	
NAALEHU 14	MAX MIN	74 62	78 58	78 58	78 58	76 64	75 64	77 64	78 61	78 61	80 62	80 62	78 63	80 64	80 64	78 69	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	76.7 62.6	
UDKALA 223	MAX MIN	76 62	76 60	76 61	76 61	78 60	80 60	71 62	65 59	65 62	72 62	79 64	79 66	84 64	85 65	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	76.6 61.6
OPIHIHALE 2 24.1	MAX MIN	72 53	73 52	74 53	76 54	75 57	71 54	70 54	73 55	67 58	76 60	73 59	73 61	75 61	76 63	73 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	74.1 57.3	
PAHALA 21	MAX MIN				78 55	79 59	80 61	82 58	77 58																											
PUAKO 95.1	MAX MIN	82 62	80 63	82 62	80 64	82 63	82 63	78 63	75 63	73 61	70 65	80 61	80 61	81 63	81 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	80.0 62.2
UPOLU POINT USCG 159.2	MAX MIN	80 64	81 62	77 62	77 65	80 67	73 64	75 61	77 64	77 64	73 62	72 64	82 69	82 70	80 73	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	78.4 66.0
WAINEA KOHALA	MAX MIN	68 41	68 38	70 38	70 40	72 50	69 52	64 49	64 43	64 42	70 40	70 42	70 47	70 54	73 52	73 52	74 55	75 57	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	74 55	70.4 48.1	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP WIND MAX MIN	.25 153 78 62	.00 47 77 56	.24 73 77 55	.17 10 80 54	.33 160 82 53	.23 97 79 50	.13 55 71 46	.11 58 75 47	.10 84 75 55	.14 62 74 57	.21 77 78 57	.03 107 70 61	.00 137 70 64	.10 262 79 62	.15 199 72 61	.17 199 73 63	.06 52 71 56	.17 68 78 54	.17 72 74 64	.14 131 74 60	.17 113 76 62	.17 83 73 59	.17 60 77 52	.15 67 80 55	.20 74 80 60	.21 55 81 60	- 129 73 59	- 180 81 59	.35 98 73 58	.14 66 75 52	.18 88 75 52	4.978 2993 75.8 56.6
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.15 26 82 60	.21 14 82 57	.17 18 79 55	.15 14 81 56	.16 113 79 58	.29 50 73 57	.03 13 73 64	.15 22 72 54	.15 27 79 54	.01 57 69 58	.14 28 74 62	- 72 80 63	.14 52 76 67	.06 105 78 67	.13 138 76 66	.20 166 80 66	.05 16 69 63	.11 33 77 63	.12 18 82 62	.13 16 78 59	.13 32 81 59	.17 26 80 60	.10 11 77 58	.15 16 84 57	.08 17 80 62	.15 14 82 62	.07 57 78 62	- 100 78 63	.03 35 65 56	.16 20 80 55	.02 21 81 55	3.868 1231 77.6 60.0

See Reference Notes Following Station Index

STATION INDEX

HAWAII
JANUARY 1971

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP.	PRECIP.	EVAP.										TEMP.	PRECIP.	EVAP.		SPECIAL
ISLAND OF HAWAII																							
NAPOOPOO 28	A 6697	04 S	KONA		4 19 28	155 53	395			7A	KONA EXPERIMENT STA	PUU MALI 113	A 8515	01	HAMAKUA		1 19 55	155 26	6960			KUHATAU RANCH CO	
NAULU FOREST 38.6	A 6793	02	PUNA		2 19 19	155 06	1400	VAR		7A	HAWAII VOLCANOES NAT PK	PUUDUHAI 167	A 8548	06	N KONA		1 20 12	155 50	1800			KOHALA DITCH CO LTD	
NIULII 176	A 8804	01	N KONA		1 20 14	155 45	75	6A		7A	KONA SUGAR CO	PUU OO 82	A 8550	02	S HILO		2 19 44	155 23	8340			DOH WINTERS	
ODKALA 223	7131	02	N HILO		2 20 01	155 17	430	7A	7A	7A	LAUPAHEHUE SUGAR CO	PUU MAWAA 94.1	A 8555	05	N KONA		5 19 47	155 51	2520			GILLINGHAM RANCH INC	
OPILIMALE 2 24.1	7186	04	S KONA		2 19 34	155 59	1270	7A	7A	7A	MISS C LEDNARD	SADDLE ROAD 1 84	A 8550	02	S HILO		2 19 42	155 12	2340			BOARD OF WTR SUPPLY	
ORCHID LAND EST 91.5	A 7185	02	PUNA		2 19 34	155 00	430	7A	7A	7A	BOARD OF WATER SUPPLY	SOUTH POINT CORRAL 3	A 8515	02	KAU		3 18 57	155 41	500			HAWAIIAN RANCH COMPANY	
PAUHAU 217	7204	02	HAMAKUA		1 20 05	155 26	415	7A		7A	PAUHAU SUGAR CO	UMIKO 118	8760	01	HAMAKUA		1 19 59	155 23	3420			KUHAIU RANCH CO	
PAULILO 221	7312	01	HAMAKUA		1 20 03	155 22	800	7A		7A	HAWAIIAN HILL CO	UPOLU POINT USCG 159.2	8830	01	N KONA		1 20 19	155 59	61	8A	8A	U. S. COAST GUARD	
PAHALA 21	A 7421	08	KAU		3 19 12	155 29	870	8A		7A	HAWAIIAN RANCH CO	WAIKAEA SCO 88.2	9025	02	S HILO		2 19 40	155 08	1050			SHINICHI KANEHIRO	
PAHOA 65	7457	02	PUNA		2 19 30	154 57	670	6A		6A	PUNA SUGAR COMPANY	WAINANONOULA 178.6	9350	01	N KONA		1 20 08	155 47	3830			KAHUA RANCH	
PAKAO 37	A 7643	08	KAU		3 19 22	155 28	5000				HAWAIIAN RANCH CO. INC.	WAINEA KOHALA	9554	05	S KOHALA		5 20 00	155 40	2665	8A	8A	HAWAIIAN AIRLINES	
PAPAIAKU 144.1	7711	03	S HILO		2 19 47	155 06	200	7A		7A	MAUNA KEA SUGAR CO.												
PAPAIAKU MAKA 140.1	7721	02	S HILO		2 19 47	155 08	1270	7A		7A	MAUNA KEA SUGAR CO.												
PEPEEKEE MAKA 144	8000	02	S HILO		2 19 51	155 05	100	7A		7A	PEPEEKEE SUGAR CO.												
PILIMOHUA 89	A 8051	02	S HILO		2 19 44	155 10	1730				STATE DIV OF FORESTRY												
POHAKULOA 107	A 8063	02	HAMAKUA		2 19 45	155 32	6511	VAR		7A	STATE DIVISION OF PARKS												
PJAKU 95.1	A 8186	05	KOHALA		5 19 59	155 50	5	8A		8A	ERWIN W. RAPP												
PUU KIME 120	A 8393	01	HAMAKUA		1 19 54	155 24	7780				KUHAIU RANCH CO												
PUU LAU 102.1	A 8452	05	HAMAKUA		5 19 50	155 36	7440				STATE DIV OF FISH-GAME												
PUU LEHUA 73	A 8460	04	N KONA		4 19 34	155 49	4880				GREENWELL RANCH												

↓ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

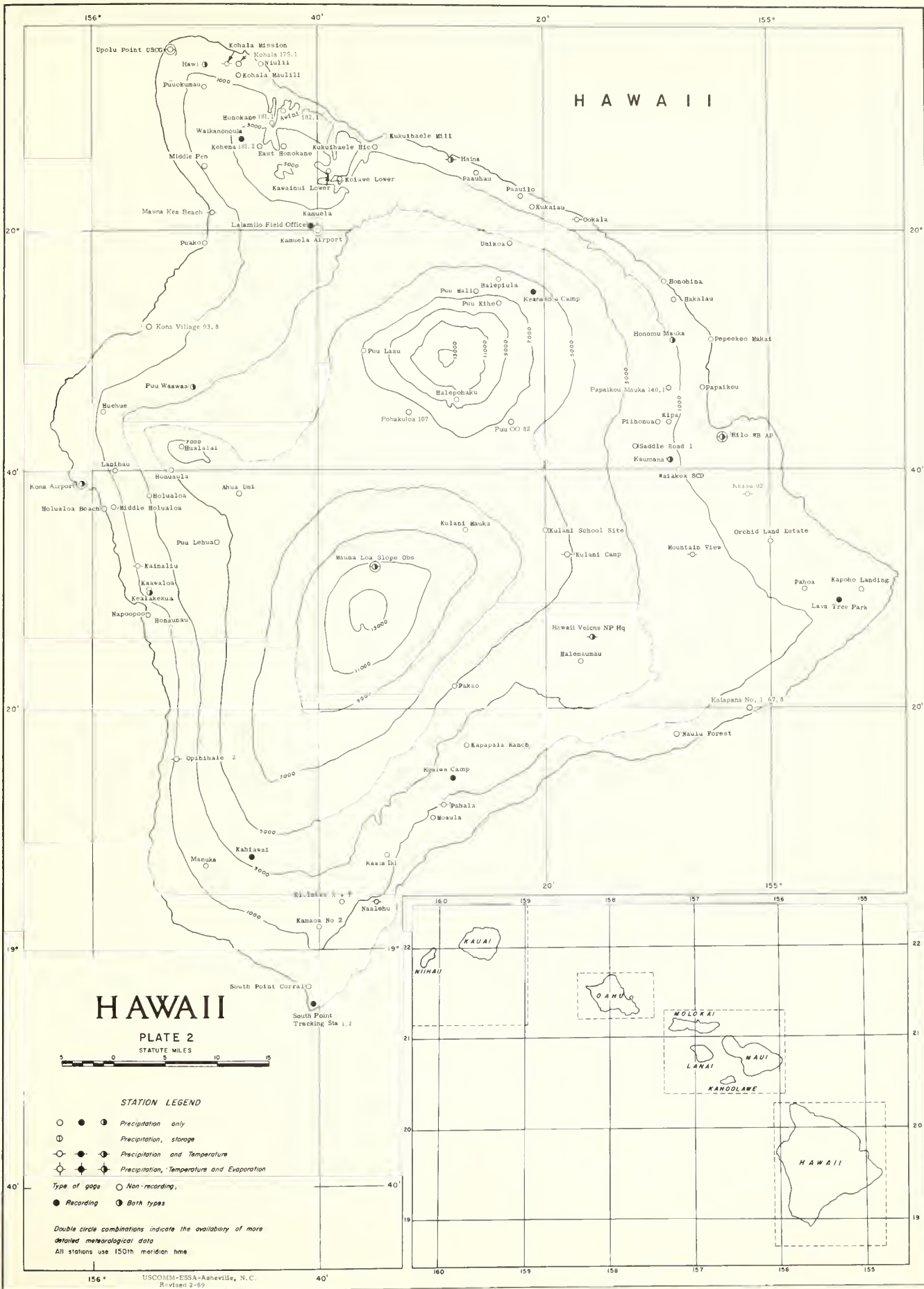
- Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."
- DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are term of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.
- OBSERVATION TIME:** Data in the "Monthly Extreme", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.
- EVAPORATION:** Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extreme of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.
- NORMALS:** for all stations are climatological standard normals based on the period 1931-1960.
- STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.
- DELAYED DATA AND CORRECTIONS:** will be carried only in the June and December issue of this bulletin.
- INTERPOLATED VALUES:** for monthly precipitation totals may be found in the annual issue of this publication.
- IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
 - + No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
 - + And also on an earlier date or date.
 - ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
 - * Amount included in following measurement, time distribution unknown.
 - A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
 - B Adjusted to a full month.
 - J "Supplemental Data" table.
 - M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 - R Amounts from recording gage.
 - T Trace, an amount too small to measure.
 - V Includes total for previous month.
- IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- AR Observation made after rain.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - MO Gage read once monthly, usually on the last day.
 - OC Gage readings at periods varying from a few weeks to several months.
 - S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
 - SS Observation time is near sunset.
 - VAR Observation time is variable.
 - W1 Gage read weekly or irregularly only.
 - W2 Gage read weekly and last day of month.
 - # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for the State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Check and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.



156°

160°

164°

168°

20°

24°

28°

32°

40°

156°

160°

164°

168°

160

159

158

157

156

155

22

21

20

19

160

159

158

157

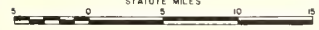
156

155

HAWAII

PLATE 2

STATUTE MILES



STATION LEGEND

- ● ● Precipitation only
- ● ● Precipitation, storage
- ● ● Precipitation and Temperature
- ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording
- Recording ● Both types

Double circle combinations indicate the availability of more detailed meteorological data

All stations use ISOth meridian time

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
FEBRUARY 1971

Continued

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow. Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92	79.1	62.4	70.8	.5	82	19+	60	25+		0	0	0	0	8.83	- 4.60	2.55	23	.0	0		14	5	3
KEALAKEKUA 26.2	76.4	60.5	68.5		78	27+	59	25		0	0	0	0	2.36		1.68	23	.0	0		3	1	1
KONA (KAILUA) 68.3	82.4	66.6	74.5		84	17+	64	1		0	0	0	0	.40		.33	2	.0	0		1	0	0
KUKIHAELE HIC 199														1.24		.60	23	.0	0		4	1	0
KULANI CAMP 79	62.2	43.6	52.9		66	9+	36	19		0	0	0	0	4.16		1.05	25	.0	0		10	3	1
PAHALA 21	77.6	61.8	69.7	.9	80	23+	58	11+		0	0	0	0	2.78	- 3.81			.0	0				
PJHAKULDA 107														.08				.0	0		0	0	0
PJAKO 95.1	82.2	62.8	72.5		84	27+	59	13		0	0	0	0	.12		.12	2	.0	0		1	0	0
PJU WAAHAA 94.1														.61	- 1.96	.25	2	.0	0				
UMIKOA 118														1.45	- 9.10	.95	23	.0	0		4	1	0
WAIKĒA SCO 88.2														7.28		2.11	25	.0	0		12	6	2
WAIĒEA KĀHALA	71.3	47.9	59.6		74	5+	42	21+		0	0	0	0	1.23		1.07	25	.0	0		2	1	1
ISLAND			67.0											2.59				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 20TH AT KEAWAKAPU BEACH 260.2, MAUI
 LOWEST TEMPERATURE: 26° ON THE 25TH+ AT MAUNA LOA SLOPE OBS, HAWAII
 GREATEST TOTAL PRECIPITATION: 11.09 INCHES AT HILO COUNTRY CLUB 86.6, HAWAII
 LEAST TOTAL PRECIPITATION: .00 INCH AT 2 STATIONS
 GREATEST ONE-DAY PRECIPITATION: 6.25 INCHES ON THE 1ST AT KEONELELE PENS 551, MOLOKAI

See Reference Notes Following Station Index

HAWAII - FEBRUARY 1971

SPECIAL WEATHER SUMMARY

After 3 consecutive months of varied and at times harsh, wintry weather, February's mildness was a welcomed change. The month's routine was punctuated only by an extended period of volcanic haze, by a minor occurrence of high surf, and by thunderstorms, that brought snow to high mountain peaks and localized hail and strong winds to Hawaii Island. Rainfall for the month was well below normal almost everywhere, in contrast to what had been a very wet January.

Contributing to the mild, dry weather were fronts that dissipated or weakened before reaching the islands (except on the 20th-21st) and the replacement of low pressure areas in the upper atmosphere above or immediately west of Hawaii (except on the 1st, 2d, and 19th-22d) by high pressure and northwesterly winds.

On February 1, thunderstorms accompanying the passage of an upper-level low pressure system ("trough") drenched Kokee, Kauai, with 9.50 inches of rain between 1:55 p.m. and 7:45 p.m. and, in Honolulu, knocked out power in several areas and flooded streets, slowing morning commuter traffic.

After the passage of the upper trough, and in the absence of strong or persistent high pressure to the north or northeast, southerly surface winds cloaked the island chain almost continuously between the 4th and 19th with volcanic haze from an eruption on the southeastern flank of Kilauea Volcano on Hawaii Island, southernmost island of the State.

On the 20th, surf up to 20 feet in height, from an intense storm about 1,500 miles to the northwest,

pounded the northern coasts but did little damage, except to clog the mouth of Oahu's Waimea River with sand, flooding some residential frontage on Waimea Bay.

On the 22d, what appeared to be a weak front passing through the islands, combined with an intensified upper-level low pressure area and fresh trade winds to spawn thunderstorms from Maui through Hawaii Island. At Haleakala Summit, TV relay stations were knocked out for 24 hours by an onslaught of freezing rain, lightning, and gusty winds; also, snow fell to the 7,000-foot level. At about 3:15 p.m., in Hawaii Island's South Kona district, Captain Cook recorded 1.60 inches of rain in 35 minutes, and hail, which a local resident called "as big as small fish," ruined 5 acres of tomatoes and slightly damaged other crops. At about 5:30 p.m. strong thunderstorm winds unroofed two neighboring homes in the Waiakea-Uka section of Hilo and blew down a tree onto Mamalahoe Highway.

Unlike the heavy rainfall of the preceding month, when many stations exceeded their previous record January totals, rainfall was light on all the islands, with only a scattering of gages reporting their normal monthly rainfall or above. Most of what rain there was occurred on a few days -- chiefly, the 1st, 2d, 22d, 23d, and 24th.

The central and southern islands were even drier than the northern. On Lanai and Molokai rainfall was everywhere below the monthly mean, with most gages reading under 40 percent of normal; while on Hawaii Island only 4 gages out of the 70 reporting, reached their normal rainfall for February.

Stations with Less Rain in February 1971 than in Any Previous February

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least February Total	February 1971
<u>MAUI</u>			
		(Inches)	(Inches)
Honokohau	65	2.90	2.02
Mokupea	72	1.86	1.80

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DAILY TEMPERATURES

HAWAII
FEBRUARY 1971

Station	Day of Month																															Average					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
* * *																																					
ISLAND OF KAUAI																																					
KANALOHULU 1075	MAX MIN	67 52	68 52	68 52	66 58	64 49	71 38	67 44	69 53	65 46	67 41	65 43	69 39	69 41	70 44	68 49	67 42	68 42	66 42	69 48	66 54	66 53	65 54	62 50	68 53	67 41	65 47	70 42	70 44					67.2 46.7			
KILAUEA POINT 1133	MAX MIN	83 66	77 69	81 68	76 67	80 67	82 68	81 68	81 69	80 69	81 68	80 68	80 68	78 68	79 71	77 67	77 67	80 67	85 72	77 69	78 73	76 70	76 66	75 68	76 65	76 66	77 66	77 68	76 71	70					78.6 68.4		
LIHUE WSD 1020.1	MAX MIN	78 67	82 69	82 70	81 68	82 67	80 63	80 63	82 64	83 61	81 65	80 62	80 64	80 73	80 72	80 66	82 62	80 69	80 70	81 71	80 73	79 70	79 69	77 68	77 69	79 67	79 67	80 65	80 73					80.1 67.4			
MAKAHUEA POINT 940.1	MAX MIN		81 66	84 66	85 69	85 71	82 65	85 65	85 72	85 69	81 67	85 64	83 69	80 66	80 66	80 64	80 65	80 73	80 65	82 65	83 70	78 68	81 70	74 67	76 68	80 69	82 61	83 61	76 61	80 61	82 63	83 63	82 63		81.7 67.3		
HANA 1026	MAX MIN	81 65	79 67	82 69	82 68	81 64	81 66	80 65	83 61	80 63	80 63	82 61	81 63	83 62	81 62	82 62	80 63	84 64	83 68	82 66	84 63	83 60	84 61	84 61	83 61	84 61	83 61	81 61	82 63	83 63	80 61	82 63	83 63		82.0 63.4		
NIU RIIOE 1035	MAX MIN	73 57	76 60	78 69	76 59	79 60	78 60	80 60	80 60	80 60	81 60	80 59	80 59	81 60	82 59	80 56	80 55	81 59	79 56	79 56	78 60	77 60	78 61	78 60	77 60	78 60	79 60	79 57	80 60	80 57	80 60	81 61	80 60		78.9 59.4		
WAIAMI LOWER 1054	MAX MIN	77 57	85 69	84 69	80 62	85 70	80 72	87 75	80 68	86 76	81 77	80 71	84 71	86 73	81 70	77 65	77 65	81 61	82 62	80 64	83 68	79 69	78 68	78 68	78 68	76 63	74 64	74 64	78 58	78 57	79 59	79 60		80.0 65.2			
* * *																																					
ISLAND OF OAHU																																					
EWA PLANTATION 741	MAX MIN	80 65	77 61	82 63	82 63	81 63	81 60	82 60	81 61	82 60	82 59	81 58	80 58	82 60	82 64	81 62	80 63	81 63	80 63	81 58	83 64	80 64	79 65	78 65	78 65	77 59	80 59	80 62	82 62	80 62	80 62	82 62		80.7 61.8			
HONOLULU WDFC 703	MAX MIN	78 65	83 69	82 71	82 69	82 68	81 66	82 66	83 66	83 66	82 64	81 64	84 65	82 67	81 70	82 69	84 68	82 66	82 68	84 65	81 70	80 68	78 67	79 67	78 68	82 65	81 65	81 69	82 70					81.5 67.2			
HONOLULU SUBSTA 704	MAX MIN	75 65	78 65	79 70	77 69	78 68	77 68	80 68	81 69	77 69	78 66	80 68	80 68	80 70	78 71	80 69	79 69	80 68	77 69	77 69	77 69	76 68	77 68	76 68	76 68	78 68	78 68	79 68	79 68	79 68	79 68	79 68			78.3 68.8		
KAHUKU 912	MAX MIN	78 56	78 62	80 65	82 62	82 62		80 60	80 62	81 60	79 59	81 60				82 64	79 68	80 62	79 62	87 59	80 62	79 66	77 66	77 66	81 65	79 66	77 66	82 65	82 64					80.2 62.4			
KANEHE MAUKA 781	MAX MIN	78 61	78 66	83 66	81 67	80 65	81 64	81 65	81 72	78 64	84 64	81 64	80 75	80 70	77 63	78 68	80 69	80 63	80 63	82 63	80 68	79 68	79 68	78 67	82 68	80 68	80 67	80 66	80 66	80 66	80 66	80 66	80 66		79.3 66.1		
LUALUALEI 804	MAX MIN	72 56	76 66	83 67	81 66	79 66		80 60	82 63	81 63	80 62	82 61	80 61	82 62	80 66	82 66	81 66	82 66	81 66	82 66	81 66	80 66	82 66	78 66	79 66	79 66	77 66	80 66	80 66	80 66	80 66	80 66	80 66		80.1 64.0		
MAKAPOU POINT 724	MAX MIN	74 63	76 65	76 66	75 68	76 67	79 66	79 63	79 62	79 63	78 63	77 64	77 66	76 62	75 63	75 63	79 66	79 66	79 66	79 66	79 66	76 65	75 66	75 66	75 66	75 66	72 66	79 66	78 65	78 65	76 65	76 65	76 65		76.6 65.0		
OPAULA 870	MAX MIN	76 61	71 62	83 65	73 65	77 62		83 61	80 60	80 61	81 57	82 58	83 60				81 60	78 63	76 60	82 60	82 60	78 61	82 60	77 65	74 65	73 65	71 65	82 65	76 65	76 65	76 65	76 65			78.2 61.6		
PRI WAHIAWA 820.2	MAX MIN	78 51	74 64	83 64	81 63	84 60	84 60	81 68	83 68	84 59	82 57	82 55	81 57	84 57	83 64	81 63	82 63	81 63	82 63	81 63	81 63	81 63	82 63	81 63	81 63	82 63	80 63	75 63	75 63	74 63	80 63	81 63	79 63		80.8 59.2		
WAILAUA 847	MAX MIN	80 61	78 64	80 65	85 62	83 63	83 63	79 62	80 62	84 59	80 58	80 58	81 58	82 60	82 59	82 61	82 59	83 61	83 59	80 58	84 58	85 62	80 62	85 62	79 62	79 62	77 62	75 62	80 62	80 62	80 62	80 62	80 62	80 62		80.9 60.9	
WAIKIKI 717.2	MAX MIN	80 65	78 65	85 66	85 68	84 65	84 63	83 62	82 64	83 63	82 61	82 60	83 64	85 64	85 68	85 70	84 68	85 70	84 68	83 62	85 68	83 71	83 67	83 69	80 67	84 69	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65		83.2 65.7	
WAINANALU EXP FARM	MAX MIN	78 65	76 66	82 68	81 65	81 64	83 64	80 63	79 66	80 62	81 62	80 64	79 64	80 69	80 70	79 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66		80.0 65.1	
* * *																																					
ISLAND OF MOLOKAI																																					
MOLOKAI AP 524	MAX MIN	81 65	69 64	79 64	80 64	79 65	79 65	79 62	80 62	80 61	78 60	79 60	77 60	78 60	77 68	79 65	80 65	80 65	79 65	78 65	78 65	83 65	83 69	78 69	74 68	76 67	75 60	79 61	78 61	79 61	79 61	80 61	80 61		78.4 64.3		
* * *																																					
ISLAND OF LANAI																																					
LANAI CITY 672	MAX MIN	79 60	69 60	78 61	78 61	76 59	80 61	74 59	77 58	76 57	78 58	77 56	76 58	73 60	75 60	73 63	77 61	75 60	76 62	77 62	77 65	74 62	77 62	77 62	74 62	77 61	79 63	81 64	79 58	78 57	75 59	77 59			76.5 60.1		
* * *																																					
ISLAND OF MAUI																																					
HALEAKALA RS 338	MAX MIN	59 46	54 45	60 41	59 41	59 41	60 40	63 43	63 51	65 40	60 34	56 36	58 37	59 40	61 39	59 42	64 38	59 35	58 38	64 38	65 42	64 38	65 42	64 38	64 42	64 43	60 38	51 37	53 42	59 35	57 35	55 36	58 37		59.4 39.6		
HALEAKALA SUMMIT 338.4	MAX MIN	46 36	40 34	47 35	49 38	50 39		49 37	59 40	50 40	56 40	53 40	52 40				50 39	55 42	57 42	58 38	60 49	60 49	60 49	60 49	60 49	60 49	60 49	60 49	60 49	60 49	60 49	60 49	60 49	60 49		50.2 37.7	
HANA AIRPORT 355	MAX MIN	75 69	80 63	80 68	81 64	81 64	80 63	80 66	80 66	80 66	80 66	81 66	81 66	81 66	79 66	79 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66		79.9 65.3	
KAANAPALI AIRPORT	MAX MIN	78 51	75 61	80 66	80 66	79 66	79 66	79 66	80 66	80 66	80 66	81 66	80 66	80 66	82 66	81 66	80 66	80 66	80 66	79 66	79 66	79 66	80 66	80 66	78 66	80 66	78 66	80 66	80 66	80 66	80 66	80 66	80 66	80 66		79.4 62.8	
KAHULUI WSD 398	MAX MIN	76 65	82 66	80 61	82 61	81 62	82 62	85 62	85 62	84 62	83 62	83 62	84 62	85 62	83 62	83 62	85 62	83 62	83 62	84 62	85 62	83 62	83 62	80 62	81 62	80 62	81 62	80 62	80 62	80 62	80 62	80 62	80 62	80 62	80 62		83.0 61.6
KAILUA 446	MAX MIN	76 67	68 64	77 63	77 63	78 61	80 62	77 62	78 64	79 65	76 63	79 64	78 64	77 66	77 65	77 65	75 64	76 64	77 63	77 63	77 63	78 63	78 63	78 63	78 63	75 62	75 62	73 62	70 62	74 62	75 62	75 62	75 62	75 62		76.2 63.6	
KEAWAKAPU BEACH 260.2	MAX MIN	81 66	79 63	83 62	81 63	82 62	82 62	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60	84 60		83.7 60.6
KULA SANATORIUM 267	MAX MIN	74 60	70 61	72 61	72 61	70 61	70 61	71 61	70 61	71 61	71 61	69 61	69 61	68 61	70 61	71 61	71 61	73 61	70 61	71 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61	70 61		70.6 52.6

See Reference Notes Following Station

DAILY TEMPERATURES

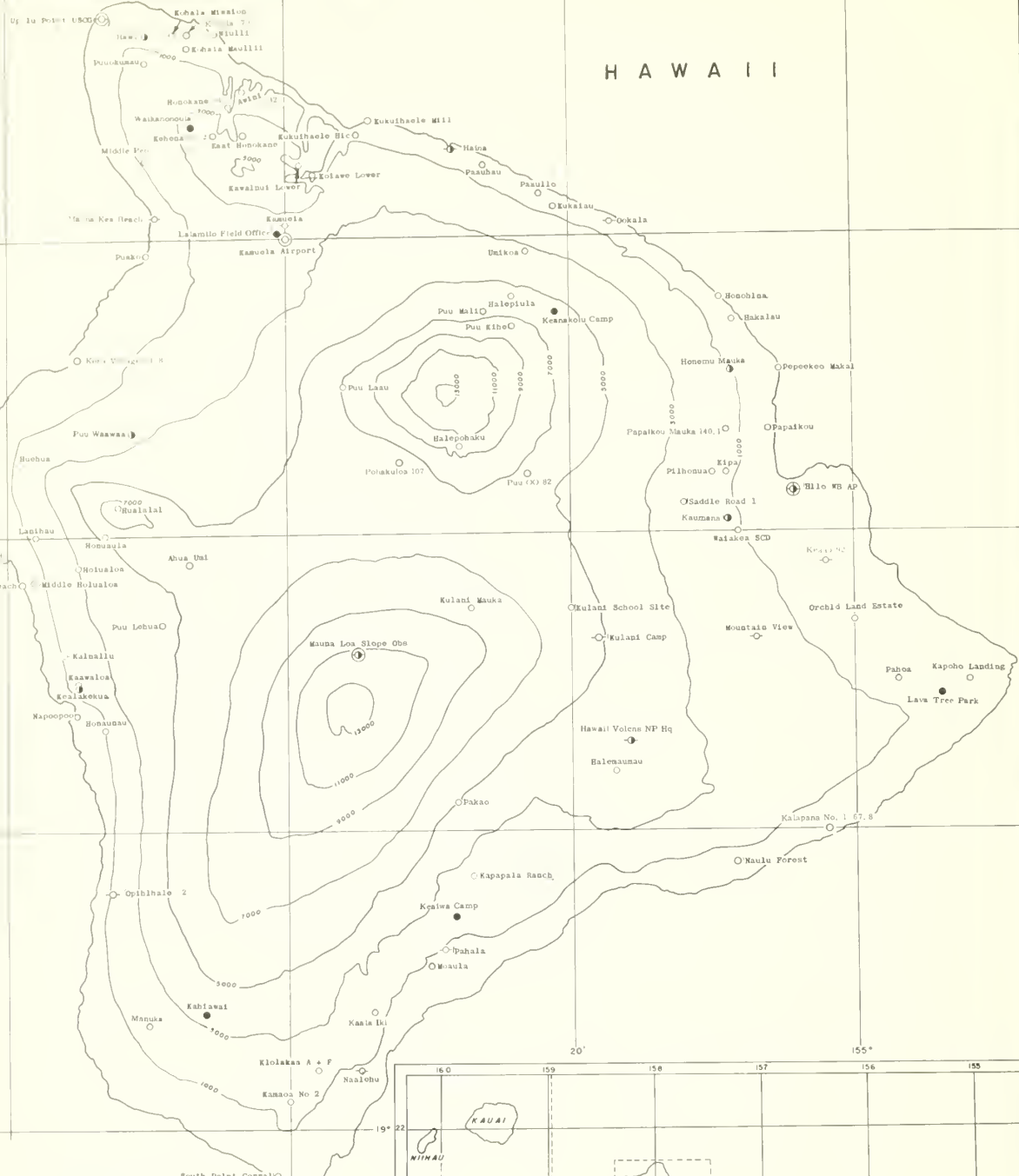
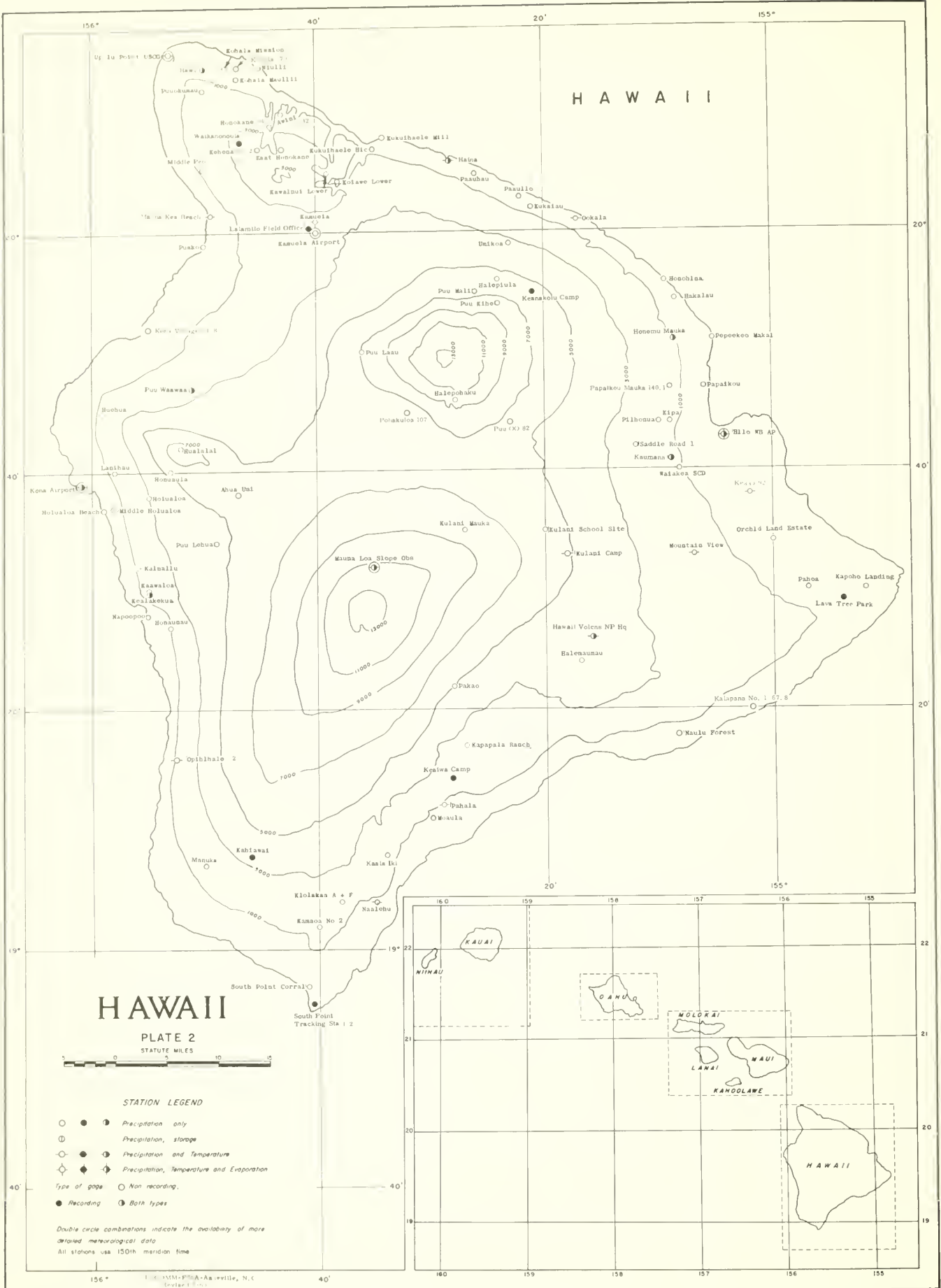
HAWAII
FEBRUARY 1971

Continued

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
LAHAINA 361	MAX	83	76	83	83	83	83	83	83	84	83	84	83	84	84	84	83	82	83	84	82	84	84	85	83	83	82	82						
	MIN	69	64	65	65	65	63	63	64	64	62	62	63	65	65	64	65	65	64	62	65	63	65	65	64	62	63	64	63					
HAILUKE 386	MAX	80	80	78	79	80				78	81	83	79	80			81	81	82	82	82	80	80		77	81	80							
	MIN	60	63	63	63	63				63	66	63	63	62			63	63	63	63	62	68	68		68	64	68	66	63	63				
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX	81	80	80	80	81	80	80	76	80	78	80	78	79	79	77	78	80	78	81	79	78	78	77	76	77	77	78	78					
	MIN	65	65	63	64	62	62	63	61	61	62	60	60	62	62	65	64	63	61	61	63	64	63	61	65	60	62	62	65					
HAWAII VOLCNS NP HO 54	MAX	65	64	65	71	69	69	71	69	69	68	67	69	69	69	69	68	65	68	67	63	65	63	65	60	60	67	65						
	MIN	55	55	55	50	50	49	50	51	48	47	46	45	53	53	52	48	53	47	48	52	51	49	49	48	52	49	51	45					
HILO WSO 87	MAX	85	82	83	83	83	83	84	84	84	84	83	86	87	85	84	81	80	82	79	79	80	76	76	72	76	79	79	80					
	MIN	69	66	64	63	64	62	60	62	63	61	62	62	66	64	65	64	60	58	60	60	61	61	61	59	63	63	62	60					
KAINALIU 73.2	MAX	74	72	80	76	76	76	76	75	76	77	75	77	77	77	76	76	78	77	75	75	75	72	75	77	77	76	77	77					
	MIN	61	61	60	61	59	58	60	62	62	60	62	62	59	61	61	62	59	60	62	59	61	58	58	60	58	60	59						
KAMUELA 192.2	MAX	76	69	72	75	76	76	75	75	74	75	74	75	73	72	70	68	75	76	73	70	68	68	69	70	70	75	73	70					
	MIN	57	55	47	60	49	48	51	52	47	47	45	45	48	56	55	53	53	45	44	47	55	57	55	54	55	53	55	55					
KEAAU 92	MAX	80	80	77	82	82	81	80	80	80	80	80	80	80	81	80	80	80	79	82	80	78	78	77	77	73	72	78	78					
	MIN	62	66	64	63	61	61	60	63	62	62	62	61	62	63	64	64	64	62	63	64	64	62	60	61	60	63	62	62					
KEALAKEKUA 26.2	MAX	75	74	77	77	77	77	77	76	76	77	77	76	76	77	78	75	77	77	76	76	75	74	77	77	77	76	78	77					
	MIN	62	61	61	62	60	59	61	62	62	60	59	60	59	61	61	61	63	60	60	60	60	64	61	63	53	59	60	60	61				
KOHALA MISSION 175.1	MAX	80	76	79	80	80	77	78	77	78	77	78	77	77	77	77	76	79	78	79	78	71	71	77	75	74	77	77	77					
	MIN	67	65	64	64	61	61	62	63	61	61	59	59	63	66	66	63	63	62	61	62	65	66	61	65	65	61	61	66					
KONA (KAILUA) 68.3	MAX	83	80	80	84	82				83	83	83	82	84			83	82	84	82	82			82	83	81	82	83						
	MIN	64	66	66	65	68				66	69	66	67	67			67	68	68	68	65			65	66	67	67	66						
KULANI CAMP 79	MAX	64	63	63	66	66	66	64	65	66	63	64	65	64	65	63	64	59	60	64	58	60	65	59	56	57	62	61	57					
	MIN	51	50	51	43	42	42	42	40	40	37	39	39	42	44	44	42	47	44	36	44	47	45	45	43	46	46	46	45					
MAUNA LOA SLOPE 78S	MAX	42	43	48	46	47	48	45	54	53	51	52	55	56	54	56	54	52	56	55	54	52	45	47	47	43	45	47	49					
	MIN	33	33	32	28	30	31	33	31	33	31	33	34	38	36	35	34	36	35	30	34	31	26	29	29	26	27	27	30					
MOUNTAIN VIEW 91	MAX	76	75	72	77	77	79	79	79	76	75	76	77	77	77	77	73	75	78	76	73	73	73	71	72	67	67	75	75					
	MIN	56	63	61	59	57	55	55	56	55	55	55	55	55	55	55	59	60	58	58	58	58	58	57	57	57	57	57	57					
NAALEHU 14	MAX	78	77	74	76	77	77	77	77	77	76	77	76	76	78	78	77	77	77	77	77	77	77	77	77	77	75	75	75					
	MIN	63	67	66	65	64	64	62	62	65	62	64	64	64	64	64	66	65	65	65	65	62	62	64	65	63	64	64	64					
ODKALA 223	MAX	78	78	77	80	78	79	80	79	78	77	77	77	79	79	78	78	79	78	80	80	76	76	78	76	77	76	77	77					
	MIN	60	64	64	67	62	61	62	62	63	63	61	60	61	66	64	64	62	61	62	62	62	62	63	60	61	62	65	62					
OPIHIHOLE 2 24.1	MAX	76	75	75	76	76	74	73	77	75	75	75	75	76	77	75	76	75	76	75	75	75	76	75	75	76	76	75	77					
	MIN	61	59	59	58	57	57	58	57	55	56	55	55	56	57	60	56	56	56	56	57	60	55	55	56	55	55	56	56					
PAHALA 21	MAX	78	77	75	79	77				79	77	76	78	78			78	80	78	74	78			80	80	78	77	74						
	MIN	65	65	65	64	60				60	61	58	58	60			60	61	64	62	62			61	63	63	61	62						
PUAKU 95.1	MAX	82	77	82	81	82	82	83	81	82	82	81	81	82	82	83	84	81	83	81	84	84	83	84	84	81	82	84	83					
	MIN	64	63	63	65	63	61	62	61	62	62	60	60	60	59	65	69	65	64	63	61	63	67	64	60	64	63	61	61					
UPOLU POINT USCG 159.2	MAX	83	79	86	82	80	80	80	80	83	79	80	81	79	79	79	79	84	83	83	81	79	79	81	77	75	79	80	80					
	MIN	70	69	69	68	68	69	66	69	69	66	66	66	66	69	68	68	68	66	69	65	67	67	65	67	66	65	67	68					
WAIHEA KOHALA	MAX	69	70	73	74	74	72	72	72	73	72	72	72	72	72	70	69	72	73	69	71	71	69	69	70	69	72	72	70					
	MIN	59	52	49	51	44	44	49	47	47	46	44	42	47	55	54	47	49	46	45	47	42	52	54	48	50	46	48	47					

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
LIHUE WSO 1020.1	EVAP	-	.19	.18	.13	.19	.23	.13	.25	.17	.19	.16	.19	.16	.24	.28	.27	.18	.22	.15	.22	.29	.33	.33	.26	.25	.10	.30	.30					
	WIND	82	74	80	100	42	93	53	60	63	80	64	66	57	127	151	123	63	79	87	142	238	277	285	283	153	65	97	205					
	MIN	60	61	68	68	63	64	58	64	62	63	56	57	57	58	62	62	57	57	63	62	62	61	60	60	60	58	57	60					
* * *																																		
ISLAND OF OAHU																																		
HONOLULU OBSERV 702.2	EVAP	.24	.09	.13	.15	.18	.15	.19	.15	.15	.15	.24	.15	.16	.14	.17	.18	.15	.18	.20	.26	.22	.25	.22	.25	.06	.15	.22	.27					
	WIND	34	18	13	18	28	21	13	25	19	11	19	22	19	15	20	23	14	20	24	22	56	68	52	46	20	13	14	34					
	MIN	80	75	89	89	87	88	87	88	88	89	86	87	87	83	85	86	84	88	90	88	83	85	82	84	80	86	90	86					



CLIMATOLOGICAL DATA

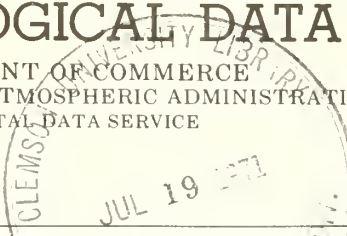
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MARCH 1971

Volume 67 No. 3

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA



Station	Temperature										Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										90° or Above	80° or Above	70° or Above	60° or Above				Total	Total	Max. Depth on Ground	Date	1.0 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																						
ANAOHOLA 1114	A																					
KANALOHULUHULU 1075		65.3	51.1	58.2		76	25	41	14	0	0	0	0	7.61	1.40	2.40	25	.0	0			
KAPAA STABLES 1104	A													11.69		3.78	20	.0	0			17
KILAUEA FIELD 17 1135	A													9.24		3.12	25	.0	0			5
KILAUEA POINT 1133		76.4	68.4	72.4		81	24+	62	20	0	0	0	0	10.97	1.09	3.30	25	.0	0			3
														7.77		2.60	24	.0	0			2
KOLOA 936	A													10.68	4.05	2.92	26	.0	0			3
LIHUE WSO 1020.1	//R	78.4	69.4	73.9	2.9	81	23	63	21+	0	0	0	0	8.27	3.71	2.62	29	.0	0			13
MANA 1026		81.0	63.3	72.2	1.0	85	17+	58	6	0	0	0	0	4.01	1.36	1.54	25	.0	0			7
N WAILUA DITCH 1051	A													26.12				.0	0			2
PH WAINIHA 1115														12.36	- 2.09	2.97	25	.0	0			22
PUEHU RIDGE 1040														5.94				.0	0			3
WAHIAWA 930	A													5.53	2.03	1.17	25	.0	0			2
WAIAMI LOWER 1054		76.3	62.9	69.6		82	2	58	21	0	0	0	0	13.85		2.67	26	.0	0			25
WAIMEA 947														3.84	1.48	1.50	25	.0	0			7
				69.3														.0	0			2
* * * ISLAND OF MAUI																						
HONOLULU OBSERV 702.2	R	79.9	67.9	73.9	1.1	82	31+	64	19	0	0	0	0	3.19		1.33	31	.0	0			5
HONOLULU WSPD 703														5.57	2.68	1.83	30	.0	0			2
KAHUKU 912	A	78.7M	66.3M	72.5M	.7	85	25	60	19	0	0	0	0	4.71	- .03			.0	0			6
KANEHOE MAUKA 781		77.7M	66.6M	72.2M	.9	85	25	61	8	0	0	0	0	5.30		1.70	21	.0	0			2
KOOLAUPAU DAM 833	A													16.10	6.12	4.38	31	.0	0			3
LUALUALEI 804	A	79.7	67.1M	73.4M		83	15	61	19	0	0	0	0	4.02		1.03	25	.0	0			2
MAKAPUU POINT 724		75.0	65.9	70.5		79	25+	63	21+	0	0	0	0	6.73	2.81	2.50	25	.0	0			8
NUUANU RES 4 783														17.26	5.25	7.08	25	.0	0			17
OPAEULA 870	A	75.2	62.6	68.9	2.1	82	25+	59	19+	0	0	0	0	6.15	- .06	1.04	21	.0	0			4
PAOLO VALLEY 718														13.30	.45	3.46	25	.0	0			21
PRI WAHIAWA 820.2	A	77.7	61.9	69.8		82	25+	56	1	0	0	0	0	4.56		1.07	31	.0	0			1
PUNALUU 884	A													9.38		2.10	26+	.0	0			
WAHIAWA OAH 863	A													6.50		1.35	31	.0	0			
WAIHOLO 837	A													12.99	- 1.84			.0	0			
WAIALUA 847	A	79.8	62.4	71.1	.8	84	25	57	17	0	0	0	0	4.82	1.32	1.46	31	.0	0			6
WAIKIKI 717.2		82.6	68.5	75.6		87	25	62	19	0	0	0	0	3.33		1.19	25	.0	0			7
WAIMANALO EXP FARM		78.8	67.6	73.2		82	18	62	18	0	0	0	0	2.65		.95	25	.0	0			2
WAIPAHU 750	A													4.54	1.36	1.15	25	.0	0			7
				72.1														.0	0			2
* * * ISLAND OF MOLOKAI																						
KUALAPUU 534	A													3.21	- 1.35			.0	0			
MAPULEHU 542														5.02	1.40	1.84	21	.0	0			11
MAUNALOA 511	A													4.85	1.08	2.30	25	.0	0			3
MOLOKAI AP 524		77.8	66.6	72.2		81	24+	62	17+	0	0	0	0	2.62		.92	22	.0	0			5
				72.2														.0	0			0
* * * ISLAND OF LANAI																						
LANAI CITY 672	A	74.3M	61.8M	68.1M	2.1	79	23+	57	18+	0	0	0	0	4.30	- .03			.0	0			
				68.1														.0	0			
* * * ISLAND OF HAWAII																						
HALEAKALA 8 E S 434	A	60.8	42.1	51.5		75	25	37	19	0	0	0	0	6.31	- 2.90	1.10	26	.0	0			14
HALEAKALA RS 338														5.30		2.59	26	.0	0			7
HANA AIRPORT 355		79.3	64.8	72.1		85	24	58	18	0	0	0	0	7.98		1.95	25	.0	0			13
HONOKOHU 493	A													4.06	- .02			.0	0			3
KAAHAPALI AIRPORT		79.6	64.8	72.2		82	1	59	11	0	0	0	0	1.92		1.05	22	.0	0			1
KAHULUI WSD 398	R	82.1	64.9	73.5	1.3	86	3	56	18+	0	0	0	0	2.92	.70	1.73	21	.0	0			3
KAILUA 446		74.8	63.0	68.9	.8	80	25+	60	22+	0	0	0	0	14.67	2.49	4.50	26	.0	0			20
KEANAE 346	A													25.50	3.34			.0	0			4
KIPAHULU 258														9.67	.11	2.84	21	.0	0			14
KULA SANATORIUM 267		70.5	53.4	62.0	.8	78	24	48	17	0	0	0	0	2.11	- 1.19	1.50	22	.0	0			4
LAHAINA 361		83.1	65.1	74.1		85	27+	62	18	0	0	0	0	3.72	- 1.79	1.19	22	.0	0			5
PAIA 406														2.80	- 1.25	.89	22	.0	0			6
WAILUKU 386	A	79.0M	66.2M	72.6M	1.1	85	8	61	22	0	0	0	0	3.20	- .55			.0	0			3
				68.4														.0	0			
HAHINA 214		77.5	63.3	70.4	.9	83	24	59	19	0	0	0	0	9.42	.86	5.76	26	.0	0			11
HAWAII VOLCNS NP HO 54		64.9	50.7	57.8	- .1	72	25+	43	19	0	0	0	0	13.38	1.40	2.81	26	.0	0			19
HILD WSD 87	R	78.0	60.8	69.4	- 1.2	86	21	54	18	0	0	0	0	12.04	- 2.66	1.83	27	.0	0			17
HUEHUE 92.1	A													1.54	- 2.17	.55	28	.0	0			9
KAINALIU 73.2		76.5	60.1	68.3		80	24	58	19+	0	0	0	0	1.95	- 3.33	1.43	26	.0	0			2

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
										50° or Above	32° or Below	32° or Below	0° or Below											
KEAU 92	77.6	62.6	70.1	- .2	84	23+	59	4		0	0	0	0	12.86	- 2.72	2.80	26	.0	0		18	9	3	
KEA AKEUA 26.1	76.5	60.9	68.7		80	23+	59	11+		0	0	0	0	2.02		1.24	26	.0	0		4	1	1	
KONA (KAILUA) 68.3	82.4M	66.7M	74.6M		87	24	65	19+		0	0	0	0	1.70				.0	0					
KUKIHAELE HIC 199														10.14				.0	0		12	3	2	
KULONI CAMP 79	60.3	45.7	53.0		72	26	36	18		0	0	0	0	14.45	.10	5.40	26	.0	0		18	7	5	
																3.40	27	.0	0					
PAHALA 21	76.7M	60.5M	68.6M	- .3	82	24+	57	18+		0	0	0	0	3.91	- 1.67			.0	0					
PDHOKULDA 107														.71				.0	0					
PJAKO 95.1														.67		.54	28	.0	0					
PJU WAAWAA 94.1	83.1	64.2	73.7		86	26+	60	7		0	0	0	0	.97	- 2.24	.33	23	.0	0		1	1	0	
UMIKO 118														10.44	- 2.29			.0	0					
WAIKOA SCO 88.2														19.47		5.67	26	.0	0					
WAIKOA KUHALA	70.1M	50.4M	60.3M		76	25+	42	19		0	0	0	0	1.15		.66	26	.0	0		2	1	0	
ISLAND			66.8											6.87				.0	0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 26+ AT MAKAHUENA POINT 940.1

LOWEST TEMPERATURE: 29° ON THE 5+ AT 2 STATIONS

GREATEST TOTAL PRECIPITATION: 49.69 AT MOUNT WAIKALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT MIDDLE PEN 147.1, HAWAII

GREATEST ONE-DAY PRECIPITATION: 9.91 ON THE 26TH AT KUKAIAU 222, HAWAII

DAILY TEMPERATURES

HAWAII
MARCH 1971

Station	Day of Month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																		
KANALOAHULUHULU 1075	MAX MIN	67 49	64 50	66 51	64 51	64 50	64 51	60 51	65 49	65 50	67 48	59 48	62 51	69 48	60 41	66 53	68 43	67 43	66 52	63 50	59 54	63 47	62 56	63 58	69 58	76 55	65 53	68 55	74 54	65 54	64 55	68 53	65.3 51.1	
KILAUEA POINT 1133	MAX MIN	78 68	76 70	76 69	76 72	76 68	76 71	76 67	76 72	76 69	76 66	76 70	76 68	76 65	76 71	76 71	79 68	80 65	73 69	76 66	71 62	76 66	81 70	81 67	73 67	74 71	75 68	78 70	78 68	77 68	77 67	77 67	76.4 68.4	
LIMUÉ WSD 1020.1	MAX MIN	80 71	77 67	79 66	80 72	78 68	79 71	79 67	79 69	77 69	79 72	78 69	79 70	80 72	79 68	80 70	79 72	78 66	77 68	78 67	76 63	76 63	78 71	81 75	79 68	76 69	79 68	73 68	76 70	77 69	77 69	80 70	78.4 69.4	
MAKAHUEA POINT 940.1	MAX MIN	82 71	84 67	79 66	82 72	77 68	77 71	76 67	81 72	80 65	81 66	81 66	77 68	80 72	84 62	84 72	86 64	74 67	72 60	75 60	77 60	88 68	88 68	78 60	88 65	78 66	86 65	80 65	80 66	78 66	73 68	80.5 65.5		
MANA 1026	MAX MIN	83 64	83 64	81 63	78 60	80 59	80 58	83 62	84 62	82 61	81 61	82 63	83 64	84 62	85 59	85 61	84 62	85 63	84 62	83 61	78 66	72 66	77 66	76 69	82 73	83 66	73 65	79 65	80 65	81 66	82 66	79 63	81.7 63.3	
NIU RIDGE 1035	MAX MIN	79 58	78 62	76 59	79 60	78 60	79 60	79 60	80 59	79 60	78 60	79 58	78 58	79 61	79 60	79 60	79 59	79 59	79 59	79 59	79 59	79 59	79 59	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79.4 59.4	
WAIAMI LOWER 1054	MAX MIN	80 63	82 66	79 64	77 63	76 63	81 67	80 66	77 64	76 62	75 61	77 63	76 63	80 61	75 59	76 62	79 60	80 59	76 60	74 59	72 60	75 60	72 64	76 66	75 68	78 64	71 63	70 64	76 63	75 64	74 64	76 64	76.3 62.9	
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	81 63	80 64	80 64	81 63	79 64	79 62	79 64	79 64	79 64	81 62	78 64	80 64	80 63	82 63	80 62	81 61	79 61	78 59	80 68	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79.4 64.2	
HONOLULU WSD 703	MAX MIN	81 68	81 69	81 69	79 70	79 67	79 69	79 68	79 69	80 67	81 69	78 65	80 65	80 68	81 69	81 65	78 65	80 65	78 65	80 64	79 66	77 66	77 66	79 66	80 66	82 66	79 66	80 66	81 66	79 66	82 66	79 66	79.9 67.9	
HONOLULU SUBSTA 704	MAX MIN	79 70	78 70	79 69	76 68	76 68	76 69	75 67	77 69	77 67	78 69	75 69	76 69	78 70	78 69	78 69	79 69	78 65	75 69	76 67	75 67	79 67	78 67	78 67	75 69	76 69	78 69	78 69	78 69	78 69	79 69	77.2 68.5		
KAHUKU 912	MAX MIN	80 69	79 66	79 66	78 66	78 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79.4 66.3	
KANEHE MAUKA 761	MAX MIN	80 71	77 68	75 68	79 67	79 67	81 65	78 61	77 66	77 66	78 65	78 65	77 67	78 66	78 67	78 67	77 66	78 66	78 66	77 66	75 66	79 66	75 66	79 66	75 66	75 66	76 66	81 66	81 66	75 66	75 66	77 66	77.7 66.6	
LUALUALEI 804	MAX MIN	82 62	81 65	81 69	81 70	78 67	79 69	80 67	79 67	80 67	80 67	82 69	80 69	82 68	79 68	81 66	81 66	81 66	81 66	78 66	74 66	78 66	80 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	79.7 67.1	
MAKAPOO POINT 724	MAX MIN	76 67	74 66	79 66	73 66	74 66	74 65	73 66	74 66	74 66	73 66	73 66	73 66	71 66	76 66	75 66	75 66	75 66	76 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77.7 65.9	
OPAELA 870	MAX MIN	76 63	77 64	77 63	77 63	74 64	74 63	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74 62	74.2 62.6
PRI WAIHANA 820.2	MAX MIN	82 56	82 62	78 64	79 62	77 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78 62	78.7 61.9	
WATALUA 847	MAX MIN	82 62	81 63	80 62	81 62	80 62	79 62	78 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79.8 62.4	
WAIKIKI 717.2	MAX MIN	84 65	82 66	84 67	84 68	83 69	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83 68	83.6 68.5	
WAIMANALO EXP FARM	MAX MIN	80 65	81 67	80 69	79 69	79 68	80 68	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79.8 67.6		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	79 62	78 65	80 67	81 68	77 68	77 69	78 69	77 67	79 67	78 65	75 68	76 66	79 69	79 68	78 67	78 65	78 63	77 63	77 63	76 63	78 63	78 63	77 63	76 63	78 63	78 63	78 63	78 63	78 63	78 63	78 63	78.8 66.6	
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	77 60	75 57	78 61	79 63	78 62	79 62	78 62	75 63	74 59	76 58	73 60	72 60	72 62	75 59	74 62	74 57	74 62	73 58	73 62	76 62	71 58	76 62	69 64	79 67	75 66	78 65	70 62	73 63	74 63	73 64	72 63	72 63	74.3 61.8
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	59 45	58 44	58 43	58 43	57 40	58 45	65 38	60 40	62 39	62 39	65 42	58 44	60 39	62 43	63 38	63 38	56 35	60 37	63 37	58 44	60 43	58 44	58 44	64 45	73 45	55 45	59 41	61 39	62 41	56 45	56 45	60.8 42.1	
HALEAKALA SUMMIT 338.4	MAX MIN	47 32	42 32	43 29	40 30	40 30	50 39	55 38	56 40	55 36	58 45	58 45	52 40	52 39	55 34	58 40	52 38	52 38	52 40	52 40	52 40	52 40	52 40	52 40	52 40	52 40	52 40	52 40	52 40	52 40	52 40	52 40	52.4 34.4	
HANA AIRPORT 355	MAX MIN	78 66	80 69	80 68	75 66	75 66	79 63	79 66	80 66	81 66	78 66	80 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79.3 64.8		
KAAHAPUNI AIRPORT	MAX MIN	82 64	81 65	81 66	81 66	77 64	80 63	78 65	80 65	78 65	80 65	80 65	80 65	80 65	79 63	78 60	80 60	80 60	80 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79.6 64.9		
KAHULUI WSD 398	MAX MIN	85 61	85 60	86 60	80 59	82 66	83 68	82 67	84 67	83 67	82 67	83 67	81 69	83 62	82 63	82 68	82 59	82 56	82 56	80 61	80 71	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80.1 64.9		
KAILUA 446	MAX MIN	74 65	74 64	74 63	74 63	75 62	74 61	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73 62	73.8 61.6		
KEAWAKAPU BEACH 260.2	MAX MIN	86 65	87 64	87 64	84 63	82 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86.2 61.6		
KULA SANATORIUM 267	MAX MIN	72 52	72 53	70 50	72 51	70 52	70 54	71 55	67 52	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69 53	69.5 53.4		

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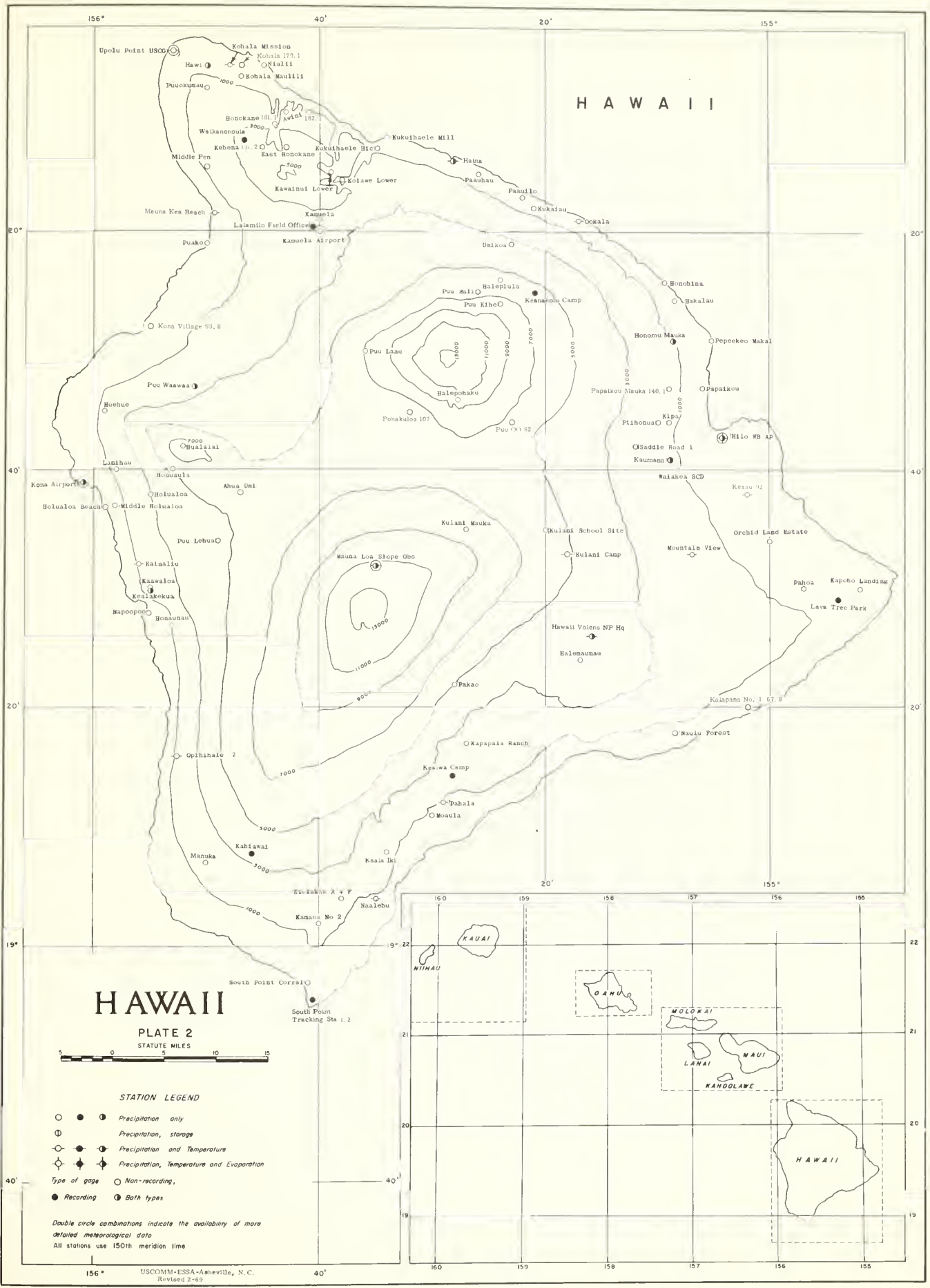
DAILY TEMPERATURES

HAWAII MARCH 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX MIN	84 65	84 63	84 64	83 63	83 66	83 63	83 66	83 63	83 67	83 63	82 63	83 63	83 64	84 67	84 66	85 63	84 63	81 62	82 63	80 68	83 65	81 67	83 72	83 68	83 64	84 68	85 65	84 65	84 65	84 67	82 66	83.1 65.1
WAILUKU 386	MAX MIN	82 65	83 67	81 67	77 66	77 66	75 67	85 68	78 67	79 66	79 66	77 66	77 66	77 68	77 67	78 67	77 67	78 67	77 63	78 64	78 64	79 64	79 61	80 67	84 66	82 65	79 65		78 67	75 67	78 68	79.0 66.2	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	77 61	78 63	78 65	78 64	77 62	75 63	76 64	77 62	77 63	77 61	78 61	78 62	77 63	75 63	78 65	77 64	76 62	78 60	80 59	80 64	81 65	80 66	81 68	83 65	82 66	75 64	69 64	73 64	76 65	78 62	78 62	77.5 63.3
HAWAII VOLCNS NP HD 54	MAX MIN	68 48	59 52	69 48	65 51	59 48	58 51	65 48	62 51	65 49	66 49	66 51	61 50	67 53	65 52	66 49	66 45	68 43	67 53	68 57	68 63	68 57	63 58	72 55	68 50	72 56	64 56	61 55	61 52	67 48	66 49	62 50	64.9 50.7
HILO WSD 87	MAX MIN	78 60	79 63	80 59	75 58	75 63	75 61	77 59	75 61	78 60	77 59	78 60	77 59	77 60	77 60	77 61	78 60	77 59	77 60	77 58	79 56	79 58	86 63	82 64	83 60	83 62	73 63	73 60	78 65	78 62	78 58	78 58	78.0 60.8
KAINALIU 73.2	MAX MIN	78 58	78 58	78 59	77 59	76 59	75 59	77 58	76 58	76 58	77 59	76 58	77 58	77 58	77 59	76 58	77 58	76 58	77 58	77 58	77 58	79 58	79 62	86 62	83 62	83 62	73 62	73 62	73 63	78 60	74 61	76 60	76.5 60.1
KAMUFLA 192.2	MAX MIN	74 46	74 49	75 48	71 54	72 54	72 56	68 54	66 55	67 55	70 53	69 54	68 55	70 54	71 56	68 53	70 53	71 54	68 47	75 56	72 56	78 65	78 63	78 63	78 63	79 66	68 57	68 56	68 54	70 55	70 55	75 55	71.5 53.3
KEAAU 92	MAX MIN	79 62	76 63	77 61	78 59	75 61	75 61	78 61	78 63	76 62	74 61	78 63	77 61	74 63	78 64	79 63	77 60	76 60	78 60	77 62	76 62	80 65	82 65	84 68	84 63	82 63	72 67	72 66	74 65	77 63	77 61	76 61	77.6 62.6
KEALAKEUA 26.2	MAX MIN	77 59	76 60	77 60	77 59	77 60	75 60	74 59	76 60	77 59	78 60	77 59	78 62	77 61	77 60	79 61	78 60	78 60	77 60	78 60	78 60	80 62	80 63	80 63	79 61	79 62	74 63	75 62	73 63	77 62	74 61	74 61	76.5 60.9
KOHALA MISSION 175.1	MAX MIN	78 62	75 65	76 66	77 65	74 63	74 64	70 63	74 62	76 62	76 64	77 63	71 62	71 64	77 65	76 64	76 63	79 65	80 60	81 65	80 65	81 65	80 65	81 65	82 65	78 64	68 59	68 54	75 64	77 65	76 65	76 65	76.2 63.5
KONA (KAILUA) 68.3	MAX MIN	83 65	80 66	83 66	82 67	81 66		82 66	81 66	82 66	83 65	82 66	82 66	82 66	84 66	82 66	83 66	83 66	82 65	83 66	82 65	83 65	87 68	87 69	87 69	80 69	82 69	82 69	83 67	81 69	82 68	82 68	82.4 66.7
KULANI CAMP 79	MAX MIN	53 43	55 43	58 40	59 47	55 48	54 44	59 43	59 45	60 46	60 43	63 47	57 45	62 49	59 49	62 54	62 39	57 36	62 32	62 32	63 32	68 31	70 31	68 32	70 32	65 32	65 32	65 32	65 32	65 32	65 32	65 32	60.3 45.7
MAUNA LOA SLOPE 085	MAX MIN	53 31	52 32	48 32	49 29	50 32	52 36	53 31	53 31	56 34	55 35	53 32	52 35	57 35	55 32	54 33	52 33	57 36	53 34	46 33	53 36	55 36	53 32	53 32	45 32	45 36	49 36	48 32	48 32	46 33	46 33	51.4 33.5	
MOUNTAIN VIEW 91	MAX MIN	75 57	69 59	73 56	74 55	66 56	70 57	70 57	70 58	73 55	69 55	72 58	72 58	72 58	73 58	74 58	74 58	76 58	79 55	79 53	79 53	81 53	81 53	81 60	81 60	69 59	75 59	75 59	73 58	69 56	73.5 57.2		
NAALEHU 14	MAX MIN	75 64	71 63	75 64	75 64	75 64	75 64	75 63	75 63	76 64	75 63	73 63	73 65	77 65	77 63	77 63	77 63	75 62	75 60	82 62	75 62	80 63	75 64	80 65	80 65	76 65	76 65	76 65	76 65	76 65	76 65	75.9 63.7	
OOKALA 723	MAX MIN	77 64	76 61	77 63	78 63	78 61	74 62	76 62	76 61	76 62	77 63	78 63	78 61	80 61	76 62	76 61	77 61	84 59	80 59	82 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	77.7 62.6
OPIHIHALE 2 24.1	MAX MIN	74 56	76 56	75 54	71 55	73 56	73 56	76 57	73 57	74 58	74 58	75 57	75 57	77 57	74 57	71 57	71 55	71 55	81 55	80 62	83 62	82 58	79 59	76 63	75 63	71 61	73 61	72 59	74 59	72 61	74 63	75.0 58.0	
PAHALA 21	MAX MIN	77 61	71 62	75 61	75 61	75 62	75 62	76 58	76 59	77 58	76 59	72 60	72 60	78 60	82 61	76 57	76 57	76 58	81 60	78 65	82 61	82 61	82 61	82 61	82 61	75 64	75 64	75 64	77 63	77 61	77 59	76.7 60.5	
PUAKU 95.1	MAX MIN	83 63	80 61	82 62	82 63	80 67	79 65	83 65	83 65	84 65	84 65	84 63	82 65	86 65	86 65	83 65	81 63	81 63	83 62	83 62	85 62	85 62	85 66	85 66	85 66	82 66	86 66	82 67	85 65	84 66	84 66	83.1 64.2	
UPOLI POINT USCG 159.2	MAX MIN	81 69	79 68	78 69	79 67	78 67	78 67	78 67	77 65	75 65	78 65	78 66	79 66	77 65	80 66	79 65	80 65	80 64	80 65	80 64	82 63	80 63	80 63	81 64	84 63	84 63	82 66	76 65	73 66	78 66	79 66	79 67	78.9 67.5
WAIMEA KOHALA	MAX MIN	72 45	71 45	72 44	71 47	70 54	68 51	67 51	67 51	68 50	69 50	69 54	67 49	70 54	72 54	70 44	73 44	72 44	72 42	76 54	71 50	76 50	68 55	66 53	66 53	66 53	66 53	66 53	66 53	66 53	66 53	66 53	70.1 50.4

EVAPORATION AND WIND

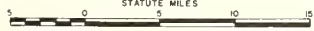
Station		Day of Month																															Total Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSD 1020.1	EVAP WIND MAX MIN	.24 13 83 61	.27 15 85 63	.13 14 79 62	.32 245 88 62	.30 234 85 60	.26 211 84 59	.23 231 83 65	.19 198 78 60	.34 204 87 60	.18 181 76 61	.27 227 87 61	.29 233 87 61	.30 233 87 61	.31 132 83 61	.23 191 79 61	.22 211 83 61	.31 111 83 60	.12 78 79 60	.20 120 77 61	.17 175 70 61	.04 50 72 57	.11 65 73 64	- 152 73 66	.17 157 74 66	-. 164 77 65	.07 257 74 66	.18 243 74 66	.21 206 77 62	.29 203 79 61	.31 276 79 61	.16 198 73 61	6.868 55.2 76.8 61.4
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.14 18 76 66	.30 22 90 64	.12 22 83 63	.30 37 88 62	.19 41 85 63	.29 37 85 62	.19 40 83 62	.21 37 84 62	.24 27 84 62	.23 33 87 62	.30 21 87 62	.16 32 83 62	.30 43 85 59	.13 18 85 61	.20 37 85 62	.30 35 91 62	.30 22 85 61	.19 21 90 65	.21 18 81 62	.22 89 78 63	.13 50 83 64	.12 65 72 64	.15 150 83 69	.15 32 87 69	.20 25 77 68	.12 257 74 64	.21 243 74 64	.21 206 77 64	.30 203 79 64	.42 276 88 65	.11 198 73 65	6.64 100.6 84.4 63.5



HAWAII

HAWAII

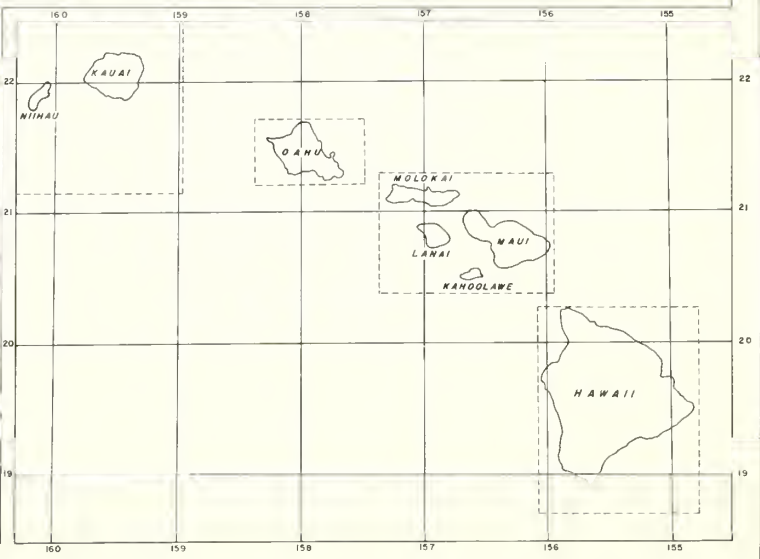
PLATE 2



STATION LEGEND

- ● ① Precipitation only
- ⊕ Precipitation, storage
- ● ① Precipitation and Temperature
- ⊕ ● ① Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording
- ① Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
										10° or Above	11° or Below	11° or Below	12° or Below											0° or Below
KFAAU 92	76.5	64.7	70.6	- .5	82	4	62	1		0	0	0	0	30.24	17.82	9.54	24	.0	0		25	10	9	
KEALAKEKUA 26.2	75.4	62.0	68.7		79	15+	59	21		0	0	0	0	6.12		3.12	17	.0	0		9	2	2	
KONA (KAILUA) 68.3	82.0M	68.8M	75.4M		85	8+	61	12		0	0	0	0	2.06		.0		.0	0				0	
KUKI IMAELE H/C 199														7.18		2.18	19	.0	0		14	3	3	
KULANI CAMP 79	61.2	47.3	54.3		69	30	43	16+		0	0	0	0	8.93		2.03	24	.0	0		18	5	2	
PAAHAA 21	77.0M	62.2M	69.6M	- .2	84	7	59	12		0	0	0	0	9.33	6.17			.0	0				0	
POMAKULOA 107														1.38				.0	0				0	
PUAKO 95.1	83.8	68.2	76.0		87	20	65	26		0	0	0	0	.10		.08	25	.0	0		0	0	0	
PUU WAAHAA 94.1														2.79	.49	.95	20	.0	0			2	0	0
UMIWA 118														7.07	- 2.26	2.77	19	.0	0				1	
WAIKAPA SCU 89.2														30.06		7.69	24	.0	0		26	14	10	
WAIWEE KOHALA	71.3M	55.5M	63.4M		77	26+	49	18		0	0	0	0	.74		.16	21	.0	0		3	0	0	
ISLAND			68.0											9.49				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE, 91° ON THE 17+ AT KEAWAKAPU BEACH 260.2, MAUI
 LOWEST TEMPERATURE, 28° ON THE 19+ AT MAUNA LOA SLOPE OBS, HAWAII
 GREATEST TOTAL PRECIPITATION, 90.07 AT MOUNT WAIALEALE 1047, KAUAI
 LEAST TOTAL PRECIPITATION, .10 AT PUAKO 95.1, HAWAII
 GREATEST ONE-DAY PRECIPITATION, 11.00 ON THE 24TH AT PAAKEA 350, MAUI

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

April fulfilled its traditional role as a month of transition between Hawaii's winter and summer seasons. Although the weather was not particularly severe, thunderstorms were numerous and accompanied at times by hail, by intense rains that gave rise to local flooding and landslides, and by snow on high mountain peaks. Skies were somewhat cloudier than the seasonal norm, with cirrus clouds being reported on about 8 out of 10 days.

The unsettled weather and high clouds were associated with a persistent upper-level trough (low pressure area) which lay over and immediately west of the Hawaiian Islands on about 90 percent of the days in April. At the same time, as a forerunner of the approaching warmer half-year, trade winds at Honolulu Airport prevailed on all but 2 days, with 91 percent of the hourly observations showing winds from directions north-northeast through east, as compared to the April normal of 71 percent.

This combination of low pressure aloft and the ascent of moist trade winds over Hawaii's topographic barriers has been responsible for some of the State's heaviest rains, particularly over mountains and coasts that directly face the trades.

Thunderstorms occurred somewhere in the State on at least 10 days: the 3d, 7th, 15th, 16th, 18th through 21st, and 23d and 24th. The month's first outbreak began on the 3d, and affected all the major islands. Runoff and landslides from heavy thunderstorm and other rains in north Kauai from Haena to Kilauea on the 3d, 4th, and 7th (when Kilauea recorded 6.90 inches between 1 a.m. and 3 a.m., and Princeville Ranch, 3.45 inches between midnight and 3 a.m.) did an estimated \$50,000 in damage to pavements, shoulders, gutters, and drainage structures of Kauai Belt Road. The Hanalei and Kalihiwai Rivers overflowed, destroying a few acres of eggplants, peppers, and tomatoes. No damage to sugarcane fields was reported, but production was slowed. On the 3d lightning struck a parked car at Kapaa, Kauai, and cracked its rear window.

Meanwhile, thunderstorms dropped 5.40 inches of rain at Leilehua, Oahu, between 1 p.m. and 4 p.m. on the 3d, and mantled Mauna Loa and Mauna Kea with snow on the night of the 4th.

Late on the 15th and on the afternoon of the 16th, intense thunderstorms, accompanied by lightning, snow, and hail, knocked out the television transmitter at Haleakala Summit. On the 19th, the temperature there dropped to freezing (32°), and the next day -- the 20th -- thunderstorms hit Haleakala Summit again with hail and snow and

east Maui's Hana district with flooding rains and a landslide.

Nor was Hawaii Island being spared. Intermittent thunderstorms between the 14th and 19th brought lightning and hail to Mauna Loa and Mauna Kea and snow that blanketed their summits down to 10,000 feet and remained in patches for the rest of the month. On the 16th, Captain Cook, Kona, reported lightning strikes, knocked-out power and telephone lines, 1/4-inch hailstones, and 2.75 inches of rain between 10:25 a.m. and 1 p.m. Pohakuloa, on Mauna Kea's southern flank, had 1/2-inch hailstones on the 16th and 1/4-inch hailstones on the 17th. On the 19th, minor flooding occurred at Waiakea Uka, on the windward slopes above Hilo, and a landslide on the road at Ahualoa.

A final outbreak of thunderstorms toward the end of the month appears to have affected principally Kauai and Hawaii Islands, the northernmost and southernmost major islands of the State. Scattered thunderstorm rains on the 23d and 24th caused landslides onto Kuhio Highway at Wainiha and flooded the Hanalei River in northern Kauai, where Koloko Reservoir and Kilauea recorded 3.60 inches and 2.45 inches of rain, respectively, between 3 a.m. and 6 a.m. of the 24th. In the southern part of the island, storm runoff and overflow from a reservoir caused an estimated \$3,000 in damage to Kaumualii Highway, and mud and debris washed down from a subdivision in Eleele onto the intersection of Kaumualii Highway and Eleele Heights Subdivision Road.

The 23d was a day of torrential rain for the Hilo, Hawaii, area also, where nine of Hilo's businesses and homes were flooded, with damage to one of the homes estimated at \$10,000. Hilo Airport had a 24-hour total of 9.66 inches, with intensities of 1.95 inches in 1 hour, 3.33 inches in 2 hours, and 4.77 inches in 3 hours. Lava Tree Park recorded 5.85 inches of rain between 8:10 p.m. on the 23d and 4:55 a.m. on the 24th.

The wet weather in Hawaii Island's Puna area made phytophthora (a fungus disease) difficult to control and affected papaya trees had to be destroyed.

The month's weather also included a number of funnel cloud sightings, most of them associated with the thundery conditions: on the 18th a waterspout 4 miles northeast of Lihue Airport and moving westward for a few minutes before dissipating; on the 22d a funnel cloud, not reaching the sea surface, 15 miles south-southwest of Oahu's Waikiki Beach; on the 23d a water-

SPECIAL WEATHER SUMMARY - Continued

spout 5 miles northeast of Hilo in Hilo Bay; and on the 24th a funnel cloud observed briefly 5 miles south-southwest of Honolulu Airport, Oahu.

Monthly rainfall averages were more generally and greatly exceeded on the northern than on the southern islands of the State. Kauai was wet everywhere, with the northern and southern portions recording over four times their April norms. On Oahu only the eastern tip had below-normal rainfall. But despite the month's fre-

quent widespread thunderstorms, rainfall was below normal in western Molokai, all of Lanai, Maui's central valley and the southern half of west Maui, and Hawaii Island's Kohala and Hamakua coasts and the Waimea to Puako sections, with some gages in a number of these areas showing well-below half their April averages.

Long-record stations which exceeded their previous record April rainfall total are shown below.

Stations Whose Previous Greatest April Rainfall Totals were Exceeded in April 1971

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest April Total	April 1971
		(Inches)	(Inches)
<u>KAUAI</u>			
Brydeswood	62	17.47	17.80
Ililiula Intake	37	28.76	34.75
Kilauea	86	23.25	23.67
North Wailua Ditch	44	33.64	44.58
Powerhouse Wainiha	64	30.03	34.05
Princeville Ranch	62	26.45	27.32
Wahiawa Mountain	71	29.30	31.25
Waiahi Lower	42	21.06	24.88
<u>OAHU</u>			
Kalihi Reservoir Site	44	24.00	24.28
Pauoa Flats	44	30.09	30.76

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DAILY PRECIPITATION

Continued

HAWAII
APRIL 1971

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KIOLAKAA & F 6	7.50																																	7.50
KIPA 99.2	26.43	.77	1.07	2.53	.82	.66	.04	.15	.14	.17	.22	.08	1.49	.47	.05	.95	.66	.62	.23	.97	1.66	2.65	1.16	1.04	.94	.06	.28	.47	.73	1.16	.19			
KOHALA MAULILI 176	3.60	.17	.02	*	.82	.02		.05		.79		.46	.79	.10	.12	.09	.37	*	*	.46	.36	.12	.08	.06	*	.14	.01	.01	.01					
KOHALA MISSION 175.1	3.27	.12	T	.09	.10	.18	.04	T	.05	.37	.01	.04	.18	.12	.01	.11	.59	.27	.04	.01	.33	.17	.14	.06	.09	.05	T	.01	.06	.05				
KOIAHE LOWER 196	12.26		1.18	*						1.20						2.70							6.28											
KONA (KAILUA) 68.3	2.06	.28				.01	T								.01	.35	*	*		.56		.45					.28	T						
KONA VILLAGE 93.8	4.49																																	
KUKAIUA 222	10.37	.05	.79	.65		2.25	.01			.02	T	T	.76	.47	.05	.30	.12	.33	.25	1.10	1.17	.34	.08	.02	1.52	.03		.09						
KUKUIHALE HIC 199	7.18	.20	.20	.20	.02	1.12	.03			.05	.07	T		.46	.24	.03	.08	.20	.15	.16	2.18	1.31	.13	.13	.22	.19								
KUKUIHALE HILL 206	4.92	.23	.10	*		.65	.01					.56	.12	.04	.03	.07	*	*		1.71	1.07	.10	.01											
KULANI CAMP 79	8.93	.12	.75	1.54	.07	.10	.05					.04	.20		.01	.01	.01	.24	.05	.28	.32	.95	.30	.26	2.03	.60	.12	.25	.27	.22	.14			
KULANI MAUKA 76	4.67	.53	.18	.34		.05									.01	.01				1.35	.65	.56					1.01							
KULANI SCHOOL SITE 78	8.58										.20						.80	*	*				4.00											
LANTHAW 68.2	5.49	.05				.86					.13	.05				.14				.25	.14	.10	.11	.34	1.28	.10	.12	.15	.12	.15	.10	1.30		
MAKAMALAU 123	2.59			1.26												.21						.18												
MANUKA 2	4.65					.20							.41								.60	1.40	.40	.30	.05	*		.90			.40			
MAUNA KEA BEACH 98																																		
MAUNA LOA SLOPE OBS	3.67	.22	*	*				.44	*			.05				.32	.09	.18	.34	.47	.01	.18		.10	.35	.67					.25			
MIDDLE HOUALOA 68.1	3.73	.16	*	*			.03								.11																.74			
MIDDLE PEN 147.1	.37																																	
MOAULA 18	8.52																															8.52		
MOUNTAIN VIEW 91	28.59	.46	1.27	3.09	.40	.15	.11	.17	.10	.06	.04	.10	.81	.36	.10	.76	.30	.17	.35	2.92	1.12	2.74	1.14	1.17	7.66	.08	.33	.30			.86	.87	.41	
NAALEHU 14	7.85	.01	.53	1.58	T	.01																												
NAPOOPOO 28	4.00					.94															.11	.02	.41	.17	.49	3.50	.56	.62	.31	.04	.06			
NAULU FOREST 38.6																					1.91							1.09	*	*	*	*		
NIULII 179	3.59	.12	.05	*		.27	.02						.51	.18		.08	.57	*	*	.20	.48	.08	.34	.08	*	*	.37	.01	.18					
ODKALA 223	10.65	.14	1.23	.64	.01	.87	.01			.04		.01	.04	.68	.23	.09	.42	.14	.18	.08	.31	.36	T	.65	.26	.45	T	T	.10	T	.08	.02		
OPIHI MALE 2 24.1	2.52	.01	.02	.03	.01	T				.01																								
OCHILO LAND EST 91.5	33.90		6.70	*						4.32							1.76	*	*															
PAAUHAU 217	4.39	.21	.16	.21		.31	.01			.05	.02	.02	.31	.04	.03	.16	.06	.13	.16	.51	1.17	.17												
PAAUILO 221	9.66	.03	.60	.48		1.90	T	.01	T	T	.77	.24	.03	.19	.17	.33	.08	2.19	.78	.33	.04	T	1.45	.05	T									
PAHALA 21	9.33	.08	.30	*		1.78										.28				1.51	.05	.04		.14	*		4.99	.04	.04	.02	.13			
PAHOLA 65	30.61	1.33	1.19	4.75	.62	.22	.26	.27	.04	.05	.03	.06	.47	.19	.21	.12	.47	.23	.37	3.01	1.61	3.91	.65	2.85	6.41	.07	.27	.07	.37	.31	.23			
PAKAD 37	8.58																															8.58		
PAPAIKOU 144.1	27.15	.62	1.61	2.67	.58	.18	.11	.41	.07	.12	.02	.02	.79	.20	.05	.39	.64	.55	.01	1.05	1.92	4.06	1.13	.97	8.21	.08	.08	.07	.33	.09	.12			
PAPAIKOU MAUKA 140.1	31.94	.33	1.12	3.08	.79	.46	.08	.25	.07	.09	.40	.15	.80	.55	.09	1.35	1.08	.81	.60	2.25	2.30	3.06	1.76	.73	6.93	.11	.23	.24	.77	.34	.17			
PEPEEKO MAKA 144	22.88	1.20	.31	2.95	.80	.23	.05	.26	.01	.05	.01	.05	.23	.10	.11	.05	.68	.95	.12	.08	1.48	5.33	1.24	.83	5.48	.07	.02	.23	.28	.01	.06			
PIIHONUA 89	30.80																																	
POHAKULOA 107	1.38				.05	.03	*						.23	*	*	*																30.80		
PUAKEO 95.1	.10					T							T					.60	*	*	T					.45	*	*	.02	*	*			
PUU KIHE 120	4.49																															4.49		
PUU LAU 102.1	4.29																															4.25		
PUU LEHUA 73	3.50																															3.50		
PUU MALI 113	4.14																															4.14		
PUU OI 82	8.52	.48	.65	.85	.05	.08	.07	.02			.09	.09	.10	.03	T	.12	.41	.28	T	.10	.72	1.17	.51	.22	1.57	.27	.12	.04	.11	.25	.12			
PUU WAANAA 94.1	2.79		.11	*		.18																												
SAOOLE POAO 1 84	35.89	*	18.65	*						3.00	*	*	*	*	*	*		.15	.27		.95	.08			.69	.18	*	*	T		.17			
SOUTH POINT CORRAL 3	4.49				1.35	*																		6.70	*		3.10	*	*	*	7.50			
UMIKOA 118	7.07		.54	*		.27										.53	.02	.75	.24	2.77	.53	.29	.05	*	.93	.07	.06	.02	*	*				
UPOLU POINT USCG 159.2	1.90	.35	T		T	.07	.10			.18			.13	.05	T	.53	.45			.14	.12	.09	.16	.01		.03								
WAIKAEA SCO 88.2	30.06	1.67	.07	2.30	.45	.62	.10	.07	.13	.05	.10	.15	1.31	.56	.10	.65	.33	.43	.48	2.28	2.88	2.70	1.25	1.02	7.69	.11	.03	.31	.76	1.28	.13			
WAIKAEA KOHALA	.74	.01	T		.05	.05	T	.02	.02		.01	T	.08	.01	T		T	.03	T	.12	T		T	T	.05	.14	.01							

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages - percent				Number of days with precipitation					Percent of Possible sunshine	Average sky cover sunrise to sunset		
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99 and over			Total	
							02	08	14	20									
HILO WSD 87	19	1.7	6.1	20	E	25	95	87	75	91	2	7	12	1	5	3	30	21	8.8
HONOLULU WSFO 703	6	12.4	13.7	33	NE	06	74	72	59	72	14	4	1	3	0	0	22	61	7.5
KAHULUI WSD 398	5	10.8	12.4	29	NE	06	86	79	61	78	8	8	4	0	0	0	20	61	7.2
LIHUE WSD 1020.1	6	11.4	12.2	26	NE	05	78	77	73	77	9	5	7	1	3	0	25	-	8.0

DAILY TEMPERATURES

HAWAII
APRIL 1971

Station	Day of Month																															Average				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
ISLAND OF KALAI																																				
KANALOHULUHULL 1075	MAX MIN	67 54	68 54	69 54	69 55	66 57	63 54	70 53	71 56	73 52	74 46	60 52	69 53	70 50	73 47	72 49	71 55	70 53	64 49	64 57	66 55	67 58	69 49	71 54	64 52	67 46	70 56	72 49	62 54	68 54	69 53	68.3 52.7				
KILAUEA POINT 1133	MAX MIN	77 67	77 68	76 71	74 69	75 70	75 69	79 72	78 70	78 65	77 70	79 67	78 68	79 70	77 69	78 73	77 69	79 72	76 69	78 71	76 70	77 69	73 68	73 67	79 70	80 70	78 72	77 70	77 72	78 69	77.2 69.5					
LIMUE WSO 1200.1	MAX MIN	80 70	80 71	80 71	81 71	80 73	79 73	80 74	80 74	80 80	81 73	80 70	80 72	81 71	81 73	80 72	82 73	81 70	82 70	80 70	78 70	81 72	79 69	77 68	79 70	80 72	82 70	81 72	81 74	80 74	81 73	80.1 71.7				
MAKAHUEA POINT 940.1	MAX MIN	78 65	79 66	80 66	78 72	80 67	74 73	77 68	80 65	80 69	80 72	80 70	81 64	80 69	81 68	81 67	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	79.5 67.8				
MAWA 1026	MAX MIN	81 63	81 63	81 64	83 64	85 66	82 66	83 66	82 66	83 66	83 66	84 65	84 61	84 60	84 62	84 62	84 63	84 63	84 64	84 62	84 63	84 62	84 62	84 62	84 62	84 62	84 62	84 62	84 62	84 62	84 62	82.9 63.8				
NIU RIDGE 1235	MAX MIN	78 59	77 59	78 60	79 61	78 61	79 62	80 63	78 62	79 63	80 62	79 60	78 63	79 62	79 63	80 63	80 61	81 61	80 60	81 60	79 60	79 58	78 57	79 60	76 60	78 60	80 60	79 60	80 60	80 60	80 60	78.7 60.7				
WAIAMI OIEH 1054	MAX MIN	75 65	72 64	74 65	75 65	73 65	76 67	76 68	77 65	77 65	78 65	78 62	79 62	79 62	79 61	79 61	79 61	78 60	78 60	76 64	75 64	76 63	76 63	74 63	72 64	77 64	79 63	80 65	76 67	76 68	76 66	76.3 63.8				
ISLAND OF OAHU																																				
EWA PLANTATION 741	MAX MIN	80 64	80 64	78 64	82 66	82 68	81 67	81 70	83 70	81 63	82 62	82 63	81 64	81 64	83 64	83 62	83 62	83 62	83 62	83 62	81 65	81 66	81 69	79 64	81 66	78 66	81 66	81 66	81 66	82 66	82 66	82 68	81.1 65.4			
HONOLULU WSO 703	MAX MIN	81 69	78 70	83 70	82 71	80 70	81 70	83 73	81 70	81 70	81 70	82 69	82 69	82 69	82 70	82 71	82 71	82 71	82 70	81 68	81 68	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81.5 69.6			
HONOLULU SURSTA 704	MAX MIN	77 69	76 71	76 70	78 72	77 70	77 72	80 74	78 75	79 71	77 71	77 71	78 70	79 70	80 71	80 71	80 71	80 71	80 71	80 71	79 67	79 69	79 71	78 69	78 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	78.3 70.6			
KAHUKU 917	MAX MIN	78 67	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78 68	78.9 68.7			
KANEIHE MAUKA 781	MAX MIN	78 65	78 67	76 69	79 65	78 65	76 65	80 65	77 67	79 67	80 68	79 69	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	78.1 67.5			
LUALUALEI 804	MAX MIN	81 69	81 70	79 66	84 68	84 81	82 71	84 72	84 73	81 70	84 68	83 68	84 67	83 68	82 67	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	81.8 68.7		
MAKAUU POINT 724	MAX MIN	74 65	74 69	74 68	79 67	74 67	75 67	76 66	76 66	76 66	76 66	76 66	76 66	74 66	76 66	75 66	74 66	76 66	75 66	74 65	75 65	74 65	76 66	76 68	73 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	75.8 67.2			
UPAFULA 870	MAX MIN	75 63	74 63	74 63	81 63	79 66	74 66	73 65	80 66	78 66	78 63	78 63	78 62	77 63	78 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	77.0 63.7		
PRI WAHIAWA 820.2	MAX MIN	77 64	78 62	78 62	84 64	83 62	78 66	77 66	81 69	80 64	80 64	81 61	79 63	80 65	82 64	81 62	82 62	81 62	82 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	79.4 63.7		
WAIALUA 847	MAX MIN	80 62	80 61	80 62	81 66	82 66	80 66	78 68	83 68	81 67	82 65	80 61	82 61	81 62	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	80.9 63.9		
WAIKIKI 717.2	MAX MIN	80 69	82 67	81 68	84 65	83 64	83 64	82 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	82.7 69.8		
WAIMAALO EXP FARM	MAX MIN	79 67	79 69	77 67	80 68	79 71	80 71	78 71	79 71	80 70	80 69	81 69	80 69	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	79.5 68.9		
ISLAND OF MOLOKAI																																				
MOLOKAI AP 524	MAX MIN	79 69	77 65	79 67	79 69	79 69	79 69	79 69	81 69	80 69	80 68	76 69	79 67	79 67	80 67	80 67	80 67	80 67	80 67	80 67	79 67	76 68	78 68	78 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	79.2 67.7		
ISLAND OF LANAI																																				
LANAI CITY 672	MAX MIN	70 62	71 60	72 62	79 64	73 64	72 63	71 64	76 64	77 65	73 63	73 63	70 63	74 64	74 60	78 62	77 61	75 65	73 61	74 59	73 64	74 64	74 64	73 64	74 64	73 63	74 63	76 63	76 62	80 64	76 64	76 63	75 63	74.3 62.8		
ISLAND OF MAUI																																				
HALEAKALA RS 338	MAX MIN	57 45	54 41	59 43	60 44	60 47	57 45	54 45	66 49	68 49	66 49	66 49	63 47	59 43	64 48	69 44	66 42	56 39	60 41	56 36	60 42	53 39	54 44	53 43	57 41	56 44	56 45	55 48	53 43	62 44	64 45	63 45	62 45	59.9 44.1		
HALEAKALA SUMMIT 338.4	MAX MIN	41 34	45 34	45 34	51 37	41 33	45 37	49 38	54 38	54 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	56 38	49.5 36.9	
HANA AIRPORT 355	MAX MIN	77 67	80 66	80 67	79 69	79 68	76 69	82 68	82 68	80 72	81 65	80 65	81 65	80 65	82 68	82 68	81 66	80 66	81 66	78 66	76 67	79 67	75 67	78 67	78 68	82 68	82 68	79 68	81 68	81 68	81 68	81 68	81 68	79.5 67.2		
KAANIAPALI AIRPORT	MAX MIN	75 65	80 63	79 63	81 66	81 63	80 63	80 63	82 63	83 63	82 62	82 62	80 64	81 62	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	80.9 64.4	
KAHULUI WSO 398	MAX MIN	81 69	84 62	85 63	84 66	82 69	80 71	85 67	85 65	84 68	83 67	83 68	83 68	84 68	85 68	85 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	83.1 65.5	
KAILUA 446	MAX MIN	74 63	74 63	74 63	76 66	75 66	72 66	70 66	75 65	75 65	74 65	74 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	75.0 64.4	
KAWAKAPU BEACH 260.2	MAX MIN	82 62	84 62	82 63	84 66	85 66	84 69	78 66	85 66	88 63	88 63	87 63	89 63	84 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	85.1 63.1
KULA SANATORIUM 267	MAX MIN	66 55	68 56	71 57	70 58	69 58	69 59	73 61	70 50	70 56	70 56	69 55	69 55	71 54	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	69.6 55.8

See Reference Note Following Station Index

DAILY TEMPERATURES

Continued

HAWAII
APRIL 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX	83	83	82	85	85	81	81	86	83	84	83	85	84	84	84	83	86	85	84	83	79	84	83	82	83	85	85	84	83	83	83.5	
	MIN	68	64	65	67	68	70	68	65	65	63	62	63	64	64	65	67	66	65	66	67	64	65	66	66	68	68	67	70	67	68		
WAILUKU 396	MAX	75	75	75	81	78	76	82	80	78	78	80	80	78	78	80	80	75	73	76	78	80	75	73	76	78	80	82	80	79	78.4		
	MIN	66	67		65	71	69	70				67	69	68	68	67			67	68	67	67	68		67	68	65	69	69	68			
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	78	78	79	82	78	76	76	78	78	78	78	77	79	78	78	78	79	79	79	77	76	77	77	75	80	82	80	78	79	78	78.2	
	MIN	64	65	66	65	66	68	66	67	66	63	64	64	65	63	66	67	65	62	64	62	63	63	63	63	65	64	66	64	62	66		
HAWAII VOLCANO NP HO 54	MAX	68	61	70	70	64	64	65	66	66	65	66	64	68	66	65	69	64	68	69	67	64	65	63	60	61	70	67	63	61	62	65.4	
	MIN	53	52	54	55	55	55	55	53	55	52	51	53	49	51	52	52	53	52	51	52	54	52	53	52	55	54	53	54	52			
HILO WSD 87	MAX	71	80	82	76	78	78	80	81	82	78	79	78	78	76	78	78	79	80	79	72	78	76	71	81	83	82	78	80	76	75	78.1	
	MIN	62	62	64	63	65	65	64	63	64	64	63	64	64	62	63	64	63	62	65	63	63	63	62	65	64	65	65	65	64			
KAINALIU 73.2	MAX	75	74	77	77	74	73	74	75	72	73	78	75	77	74	78	77	71	75	76	76	77	75	74	73	72	78	76	72	74	76	75.0	
	MIN	61	62	61	61	64	65	61	61	64	61	61	61	63	59	60	62	60	61	60	60	59	60	61	61	62	61	64	61	64	63		
KAMUELA 192.2	MAX	68	70	71	80	70	70	68	75	76	67	68	68	69	70	71	72	70	72	74	70	70	69	71	72	74	78	78	70	71	71	71.4	
	MIN	54	55	55	55	58	58	58	58	58	57	58	57	58	55	54	54	56	54	57	56	54	54	55	58	54	57	55	54	55			
KEAAU 92	MAX	78	70	78	82	75	77	80	80	80	75	77	78	76	78	77	78	80	80	79	68	70	75	69	77	78	76	74	75	74	76.5		
	MIN	62	64	64	64	67	66	66	66	65	64	64	64	65	64	66	65	63	63	63	64	64	65	64	65	65	67	66	65	65		65	
KEALAKEUA 26.2	MAX	72	73	77	78	75	73	74	76	79	75	73	76	78	74	79	77	73	77	77	78	75	78	75	72	73	77	76	74	74	75	75.4	
	MIN	62	62	61	62	64	65	61	62	66	62	62	62	64	60	62	62	61	61	60	60	59	61	62	62	61	61	64	62	64	64		
KOHALA MISSION 175.1	MAX	77	76	77	83	76	75	75	77	78	75	76	77	77	77	78	76	77	78	78	77	75	76	75	73	72	79	79	75	78	78	76.7	
	MIN	65	64	64	66	67	67	68	67	66	65	66	64	64	66	66	66	66	62	62	62	62	65	63	64	64	65	65	68	68	66		67
KONA (KAILUA) 68.3	MAX	78	80		85	80	82	85	82		82	82	84	84	82	84	80		83	83	82	82	80		83	80	79	83	83	82.0			
	MIN	68	69		69	72	70	68	69		61	69	68	71	70		67	69	68	67	69		67	69		67	72	71	70		69		
KULANI CAMP 79	MAX	62	56	54	67	61	60	63	66	65	65	60	63	63	57	60	65	59	62	63	60	60	61	57	58	63	62	55	60	60	69	61.2	
	MIN	45	45	50	49	50	52	43	48	45	47	44	50	48	44	45	43	45	47	46	47	46	48	48	50	53	48	49	48	48	49		
MAUNA LOA SLOPE OBS	MAX	45	44	45	48	45	42	52	56	51	52	52	52	52	51	49	43	43	46	42	43	42	42	42	45	45	46	48	51	54	50	47.3	
	MIN	34	33	35	35	34	32	36	37	34	32	37	32	34	32	29	30	30	28	28	32	30	31	33	35	35	34	34	36	39			
MOUNTAIN VIEW 91	MAX	75	65	78	78	78	73	74	76	74	74	74	74	73	74	70	74	78	78	78	76	68	70	71	77	77	73	68	68	68	73.7		
	MIN	57	59	59	59	59	62	62	60	60	60	60	60	60	60	61	62	58	58	58	59	59	60	61	61	61	61	61	60	61			
NAALEHU 14	MAX	77	77	77	78	78	75	77	77	77	77	77	77	76	76	77	78	78	77	77	78	76	75	75	75	78	78	76	72	72	72	76.3	
	MIN	64	63	63	64	64	69	68	66	66	62	62	62	66	66	67	69	69	64	64	65	65	65	64	64	64	67	65	64	66			
DOKALA 223	MAX	73	79	78	80	77	76	76	79	80	81	79	79	80	78	79	79	80	79	80	78	71	76	75	73	78	79	78	79	77	78.0		
	MIN	63	63	63	66	65	65	65	66	65	64	64	63	62	64	65	64	64	65	64	63	63	63	64	63	65	64	64	64	64		64	
DRIHIHALE 2 24.1	MAX	73	74	71	77	78	77	77	77	75	75	72	76	75	80	76	76	79	74	76	72	77	75	71	76	80	74	76	73	77	75.4		
	MIN	59	60	61	59	60	61	62	64	60	59	60	61	59	60	61	59	58	57	57	58	58	60	61	60	60	62	61	63	64		64	
PAHALA 21	MAX	78	69		78	77	84	81	86	82		79	77	76	78	80		80	77	76	75	75		80	78	71	76	72	72	72	77.0		
	MIN	61	60		63	67	66	62	62		59	61	61	61	61	61		60	60	61	61	63		63	64	64	64	64	64	64			
PUAKO 95.1	MAX	81	84	84	84	81	84	80	84	84	85	84	84	85	84	84	84	86	85	85	87	85	86	82	78	81	84	85	83	85	85	83.8	
	MIN	67	67	68	69	66	69	69	68	69	66	69	69	67	68	69	72	69	68	68	69	69	67	68	67	66	65	69	69	67	72		
UPOLU POINT USCG 159.2	MAX	77	78	79	85	80	77	77	80	79	80	78	78	78	75	79	73	79	81	81	79	72	80	77	77	80	80	82	77	80	81	78.6	
	MIN	67	69	70	71	69	68	69	69	68	69	68	67	65	69	69	69	67	68	67	65	68	67	66	66	67	72	72	70	68	68		69
WAIKOA KOHALA	MAX	68	71	74	77	72	72	72	73	70	69	70	68	70	71	71	69	71	71	74	70	70	70	70	70	68	77	76	71	73	71	71.3	
	MIN	55	54	54	58	58	54	59	58	58	56	56	56	56	50	58	57	55	49	57	59	58	52	55	54	52	59	52	55	56			

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSD 1020.1	EVAP	.18	.33	.17	-	.10	.13	.22	.18	.24	.33	.28	.30	.31	.33	.36	.26	.18	.34	.28	.34	.31	.32	.36	.20	.20	*	.61	.20	.32	7.918		
	WIND	174	224	147	139	194	244	187	173	199	171	163	128	143	204	196	200	202	117	188	250	268	166	200	140	123	65	95	162	176		148	
	MIN	83	82	82	78	79	78	73	81	81	81	84	84	83	85	84	85	75	83	83	80	75	82	81	75	74	84	86	89	81		82	
* * *																																	
ISLAND OF DAHU																																	
HONDOLUO OBSERV 702.2	EVAP	.24	.15	.15	.30	.15	.03	.46	.21	.30	.12	.45	.15	.39	.30	.30	.30	.18	.30	.29	.18	.11	.24	.17	.04	.13	.21	.25	.20	.23	.22	6.75	
	WIND	22	34	18	16	40	44	36	42	30	29	30	36	34	35	34	41	28	26	37	25	28	28	30	14	22	24	24	35	26	27		
	MIN	87	85	79	95	84	80	82	89	88	91	90	89	89	88	89	88	83	91	88	84	79	89	86	78	83	92	95	88	87	88		

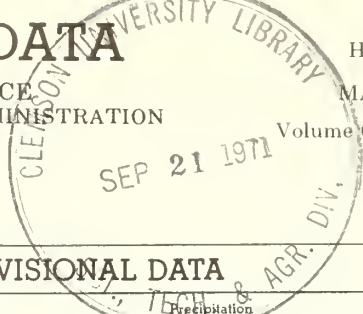
CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MAY 1971

Volume 67 No. 5



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation				Snow/Sleet			No. of Days			
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days		Total	Departure From Normal	Greatest Day	Date	Total	Max Depth on Ground	Date	No. of Days		
										95° or Above	Min.								95° or Below	.10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																					
ANAHOLA 1114	A											1.41	- 1.54			.0	0			0	
KANALOHULUMULU 1075		70.1	51.1	60.6		75	31	42	11			1.01		.45	1	.0	0			0	
KAPAA STABLES 1104	A											3.07				.0	0			0	
KILAUEA FIELD 17 1135	A											3.27	- 4.32			.0	0			0	
KILAUEA POINT 1133		79.1	70.4	74.8		81	31+	67	6			1.85		.49	30	.0	0			0	
* * * ISLAND OF OAHU																					
KOOLA 936	A											2.75	- 1.60			.0	0			0	
LIMUE WSO 1020.1	//R	82.0	71.8	76.9	2.4	85	2	63	10			1.03	- 1.96	.49	1	.0	0			3	
MANA 1026		85.6	64.1	74.9	.2	90	31	60	4			.33	- .57	.29	1	.0	0			1	
N WAILUA OITCH 1051	A											14.54				.0	0			0	
PH WAINIHA 1115												3.69	- 5.47	1.10	31	.0	0			10	
* * * ISLAND OF MOLOKAI																					
PUEHU RIOGE 1040												1.49		.88	1	.0	0			3	
WAHIAWA 930	A	79.3	63.6	71.5		82	16+	58	11			1.29	- .21			.0	0			0	
WAHAI LOWER 1054												6.01		.95	30	.0	0			18	
WAIMEA 947												.29	- .56	.14	2	.0	0			1	
* * * ISLAND OF MAUI																					
ISLAND				71.7								3.00				.0	0			0	
* * * ISLAND OF HAWAII																					
* * * ISLAND OF DAHU																					
HONOLULU OBSERV 702.2	R	82.6	69.8	76.2	.3	87	17	65	11			.65		.46	10	.0	0			0	
HONOLULU WSPD 703												.43	- .56	.18	19	.0	0			1	
KAHUKU 912	A											.43	- 1.73			.0	0			0	
KANEHE MAUKA 781		80.1	69.0	74.6	.4	82	28+	64	10			2.78	- 1.77	1.29	10	.0	0			7	
KOOLA OAH 833	A											15.27		9.16	24	.0	0			1	
* * * ISLAND OF LANAI																					
LUUALALEI 804	A	83.6	68.7	76.2		89	6	62	10+			.45		.14	20	.0	0			0	
MAKAPUU POINT 724		76.6	66.9	71.8		81	11	61	11			.17	- .86	.08	31	.0	0			0	
NUUANU RES 4 783												9.66	- .17	4.34	19	.0	0			13	
OPAELUA 870	A	78.6	63.5	71.1	1.3	83	14+	59	12+			3.01	- .27	.82	20	.0	0			7	
PALDLO VALLEY 718												6.88	- 5.24	1.92	19	.0	0			14	
* * * ISLAND OF KAUAI																					
PRI WAHIAWA 820.2	A	81.5	62.1	71.8		85	19+	58	13+			1.60		.48	11	.0	0			0	
PUNALUU 884												1.82				.0	0			0	
WAHIAWA OAH 863	A											1.67		.38	20	.0	0			0	
WAIAHOLE 837	A											5.16	- 6.99			.0	0			0	
WAILUA 847	A	82.9	62.5	72.7	.7	87	19+	59	12+			.26	- .84	.11	20	.0	0			2	
WAIKIKI 717.2	A	84.3	68.7	76.5		86	30+	63	9			.15				.0	0			0	
* * * ISLAND OF MOLOKAI																					
WAIMANALO EXP FARM		81.5	70.7	76.1		85	11	64	10			.98		.30	31	.0	0			5	
WAIPAHU 750	A											1.66		.46	11	.0	0			1	
* * * ISLAND OF MAUI																					
ISLAND				74.1								2.95				.0	0			0	
* * * ISLAND OF HAWAII																					
* * * ISLAND OF MOLOKAI																					
KUALAPUU 534	A											.26	- 1.32	.15	28	.0	0			1	
MAPULEHU 542												2.05	- .66	.42	22	.0	0			8	
MAUNALOA 511	A											.87	- .60			.0	0			0	
MOLOKAI AP 524		80.1	68.3	74.2		83	31	62	13+			.11		.05	29	.0	0			0	
* * * ISLAND OF LANAI																					
ISLAND				74.2								.82				.0	0			0	
* * * ISLAND OF MAUI																					
* * * ISLAND OF HAWAII																					
LANAI CITY 672	A	75.1	61.9	68.5	.0	80	18	58	13+			2.51	- .16	.83	10	.0	0			4	
* * * ISLAND OF MAUI																					
ISLAND				68.5								2.51				.0	0			0	
* * * ISLAND OF HAWAII																					
* * * ISLAND OF MAUI																					
HALEKALA B E S 434	A											2.10	- 2.30	.42	24	.0	0			8	
HALEKALA RS 338		60.2	41.4	50.8		66	31	35	21+			.85		.25	7	.0	0			0	
HANA AIRPORT 355		82.4	66.5	74.5		85	22+	60	10			3.23		1.01	26	.0	0			9	
HONOKOHUA 493	A											1.97	- .29			.0	0			0	
KAAHAPALI AIRPORT		81.8	64.4	73.1		84	20+	61	11+			.12		.04	29	.0	0			0	
* * * ISLAND OF HAWAII																					
KAHULUI WSO 398	R	85.5	64.7	75.1	.2	90	15	58	12			.10	- .59	.05	23	.0	0			0	
KAILUA 446		76.3	64.7	70.5	.1	78	21+	61	10			5.55	- 4.37	1.02	24	.0	0			14	
KEANAE 346	A											11.20	- 9.90			.0	0			2	
KIPAHULU 258												4.11	- 3.83	.65	9	.0	0			13	
KULA SANATORIUM 267		71.1	54.0	62.6	.9	85	20	49	12			.62	- 1.48	.43	10	.0	0			2	
* * * ISLAND OF HAWAII																					
LAHAINA 361		84.9	66.3	75.6		87	26+	64	26+			.00	- .35	.00		.0	0			0	
PAIA 406												.57	- 1.54	.23	24	.0	0			1	
WAILUKU 386	A					83	18+	63	10			.17	- 1.09			.0	0			0	
* * * ISLAND OF HAWAII																					
ISLAND				68.9								2.35				.0	0			0	
* * * ISLAND OF HAWAII																					
HAINA 214		79.7	64.0	71.9	.5	81	29+	61	13+			.89	- 4.02	.32	7	.0	0			3	
HAWAII VOLCAN NP HO 54		66.7	51.2	59.0	- 1.6	73	31	44	10			6.77	- 2.84	.87	7	.0	0			16	
HILD WSO 87	R	80.9	63.5	72.2	.8	84	16+	59	10			6.49	- 2.84	1.42	6	.0	0			12	
HUEHUE 92.1	A											3.56	- 1.11			.0	0			0	
KATNALIU 73.2		75.5	61.0	68.3		79	14	58	10			2.97	- 4.73	.85	8	.0	0			8	
KEAAU 92		78.2	63.7	71.0	- 1.5	82	16	60	11+			6.11	- 3.77	1.47	7	.0	0			13	

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
MAY 1971

Continued

Station	Temperature											Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	32° or Below	32° or Below	32° or Below														
KEALAKEKUA 26.2	75.8	61.6	68.7		81	14	59	12+		0	0	0	0	2.37		.55	3	.0	0		7	1	0				
KOYA (KAILUA) 68.3					88	14	64	10		0	0	0	0	1.47		.69	21	.0	0				0				
KJKUIMAELE HIC 199														.95	- 5.76	.30	7	.0	0		2	0	0				
KJLANI CAMP 79	61.9	46.0	54.0		82	13	40	13		0	0	0	0	6.14		1.00	20	.0	0		17	3	1				
PAHALA 21										0	0	0	0	3.36	1.04			.0	0								
PAHALA 21					80	4	57	11+		0	0	0	0	3.36	1.04			.0	0								
POHAKULOA 107																		.0	0								
PJAKO 95.1	84.7	68.1	76.4		87	28+	65	17+		0	0	0	0	.46		.25	19	.0	0		3	0	0				
PJU WAAHAA 94.1														1.89	- .84	.66	8+	.0	0		4	2	0				
UMIKOA 118														.33	- 4.73	.07	7	.0	0		0	0	0				
WAIKEA SCO 88.2														10.39		1.78	8	.0	0		21	9	2				
WAIHEA KOHALA	73.0M	52.2M	62.6M		78	17	44	9		0	0	0	0	.17		.10	25	.0	0		1	0	0				
ISLAND			67.1											3.40				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 25+ AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 27° ON THE 9TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 22.17 AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 13 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.74 ON THE 19TH AT KALIHI RES SITE 777, OAHU

See Reference Notes Following Station Index

DAILY PRECIPITATION

Continued

HAWAII
MAY 1971

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KIPA 89.2	A	12.93	.27	.35	.73	.19	.07	.65	2.39	.60	.04			1.34			.01	.26	.15	1.09	.66	.66	.01	1.63	.45	.08	.08	.78	.13	.30	.01		
KOMALA MAULILI 176	A	2.06					.28	.32	.07	*	*						.07		.08	.12	.09	*	*	.42	.02	.02		.32	*	*	.19		
KOMALA MISSION 175.1	A	1.80	.02	T	.01	.28	.07	.17	T				T			.01	.04	T		.07	.17	.10	*	.05	.27		.22	T	.01	.27			
KOIAWE LOWER 196	A	.41	*	*	*				.18	*	*		*						*	*	*	.03	*	*	*						*	*	
KONA (KAILUA) 68.3	A	1.47	*	*	.07	.01						.52	*	*	*		.07		.11		.69				T					*	*		
KONA VILLAGE 93.8	A	.10	.06										.02							.02											*	*	
KUKAIKU 222	A	1.63		.21	T	.03	T	.38	.15	T				.02						.06	.17				.08	.21	.05		.18	.09	T	*	
KUKUIAIE HIC 199	A	.95		.09		.08		.30	.08																.04	.04		.06	.09	.13	.02	*	
KUKUIAIE MILL 206	A	.84	*	.11	.06	.01		.35	*	*			.06											*	*	.04	.04		.06	*	*	.13	
KULANI CAMP 79	A	6.14	.12	.10	.30	.07	.35	.45	.18	.49	.21	.02	.03	.15	.01			.23	.10	1.00	.86	.16	.01	.68	.21	.03		.12	.04	.02	*		
KULANI MAUKA 76	A	1.08				.07	.12	.12	.14	.15																						*	
KULANI SCHOOL SITE 78	A	6.27	.77	*	*	*		1.66	.10											.65	.05	.05			.07	.06				.25	*		
LANIHOU 68.2	A	5.82	.04	.16	1.25	.10	.04	.15	.46	.18	.10		.14				.32			.28	.32			1.74	.07	*	*	*	*	1.47	*		
MAKAHALA 103	A	.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.68	.56	.15	*	*	*	*	*	.11		
MAUKA 2	A	3.47	*	*	.50	.02	T	.70	*	*	1.30	T	.05	T	*	*	T	.16									.10	T	.40	*	*		
MAUNA KEA BEACH 98	A	.49																													*		
MAUNA LIDA SLOPE DB5	A	3.76	*	*	.13	.30	.04		.04	.03	.02								.04	.01										.02	.08	.19	
MIDDLE MOULALOA 88.1	A	.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.51												*		
MIDDLE PEN 147.1	A	1.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.51					2.31						*		
MOAULA 18	A		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.48		
MOUNTAIN VIEW 91	A	10.55	.29	.27	.30	.22	.34	3.32	.78	.07			.01	.03	.21		.02	.38	.08	.59	.41	.35	.02	.94	.49	.10	.02	.86	.12	.28	.05		
NAALEHU 14	A	1.40	.27	.12			.14				.40				.04					.04	.02	.09	.06	.02	.20					*			
NAROPPO 28	A	1.78	*	*	.52	*	*	*	*	*	.45	*	*	*	*	*	*	*													*		
NAULU FOREST 38.6	A	1.46	*	*	*	.14	.20	.26	*	*	*	*	*	*	*	*	*	*													*		
NIULII 179	A		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.48		
ODKALA 223	A	3.95		.05	.01	.08	.11	.55	.43	.03				.02	.01																*		
OPHIOMALE 2 24.1	A	3.58	.18	.08	.04	.02	.02	.05	.59	T	.31	.16	T		.07	.17		.08	.04	T	.28	.20	.13							.02			
ORCHIO LANO EST 91.5	A	7.37	*	*	*	*	*	2.74	*	*					.97																*		
PAAHUU 217	A	.56	*	.04		.04	.15	.12	*	*																					*		
PAAULD 221	A	.86		.18	T	.01	T	.18	.11	T				.01																	*		
PANALA 21	A	3.30	*	*	.28		.01	.03	*	*	2.86																				*		
PAHKA 65	A	7.05	.13	.12	.46	.45	.81	.87	.52	.05			.07	.09	*		.08	.06	.02	.09										*			
PAKAO 37	A	2.00	*	*	.12	.46	.45	.81	.87	.52	.05			.07	.09	*		.08	.06	.02	.09									*			
PAPAIAKU 144.1	A	6.96	.13	.01	.03	.28	.55	.47	1.13	.63	.05		T	T	.20				.05	.10	.12	.22	.23	.88	.01	.67	.35	.06	.07	.58	.04	.03	
PAPAIAKU MAUKA 140.1	A	10.13	.22	.09	.46	.17	.14	1.50	.70	.20			T	T	.67	.01			.05	.25	.15	1.11	.45	.36	.05	1.26	.65	.10	.18	.58	.12	.21	
PEPEEKED MAKAL 144	A	4.63	.05	*	.02	.55	.35	.11	.65	.25	.03		.01	.28	.02		.02						.44	.01	.05	.33	.22	.48	.13	.23	.12	.17	.05
PIIMOHUA 89	A	17.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00		
POMAKULUA 107	A		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.40		
PUAKO 95.1	A	.46	T	.10																											*		
PUU KIME 120	A	.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.25		
PUU LAAU 102.1	A	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.70		
PUU LEHUA 73	A	1.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.30		
PUU MALI 113	A	.49	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.49		
PUU DD 82	A	5.23	.09	.04	.36	T	.05	.21	.26	.08	.36	.38	.11	T	.27	T															*		
PUU WAANAA 94.1	A	1.89		.21		.66		.66	.36																						*		
SAOOLE ROAD 1 84	A	14.99	*	*	*	*	*	4.57	*	*	*	*	*	*	2.75	*	*	*	*	*	*	4.32	*	*	*	*	*	*	*	*	*		
SOUTH POINT CORRAL 3	A	1.68		.30	*	*	*	.07	*	.16																					*		
UMUKA 118	A	.33	.05	*	.02	.02	.13	.07	T	.04	.01	.01	.01												1.06	.04	.06	.01		.11	*		
UPDLU POINT USCG 159.2	A	.57																													*		
WAIKAEA SCO 88.2	A	10.39	.37	.07	.57	.25	.18	.34	1.43	1.78	.25			.51				.21	.13	.66	.51	.56	.05	.92	.38	.13	.17	.55	.24	.13	.04		
WAIHEA KOMALA	A	.17	T											.02				T	T	T					T	.03	.10	T		T	.01		

SUPPLEMENTAL DATA

	Wind (Speed - m.p.h.)						Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover sunrise to sunset	
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over			Total
							150TH MERIDIAN												
							02	08	14	20									
HILO WSD 87	14	1.3	6.2	20	E	20	89	77	65	86	3	11	9	1	2	0	26	36	6.6
HONOLULU WSD 703	5	12.6	14.1	29	NE	24	72	65	54	67	13	7	1	0	0	0	21	78	4.4
KAHULUI WSD 398	5	11.4	12.6	29	E	19	83	70	52	73	7	5	0	0	0	0	12	81	3.5
LIHUE WSD 1020.1	6	10.5	12.1	22	NE	24	77	71	64	73	7	11	3	0	0	0	21	70	5.5

DAILY TEMPERATURES

HAWAII
MAY 1971

Station	Day of Month																															Average			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
ISLAND OF KAUAI																																			
KANALOHULUHULU 1775	MAX MIN	70 53	72 48	70 53	68 55	70 54	69 53	67 45	70 54	69 53	67 45	68 44	71 42	71 46	68 46	68 49	74 52	56 55	48 71	70 49	70 54	71 52	69 49	71 54	69 55	70 53	71 52	72 46	70 55	71 54	71 51	75 54	70.1 51.1		
KILAUEA POINT 1133	MAX MIN	77 70	78 71	77 69	77 68	79 69	79 67	78 71	79 69	78 71	80 68	81 71	79 71	79 70	79 70	78 71	80 71	80 73	80 71	80 73	80 72	81 71	81 69	79 69	79 71	79 71	79 70	79 72	79 70	79 72	81 68	81 73	79.1 70.4		
LIHUE WSO 1020.1	MAX MIN	75 69	85 67	80 73	81 71	81 72	81 73	81 73	81 73	81 73	81 73	81 73	81 73	82 70	82 75	82 75	82 75	83 74	83 74	82 73	83 72	82 71	83 69	83 69	83 71	83 71	82 70	83 72	84 72	83 70	84 72	83 68	84 72	82.0 71.8	
MAKAHUEA POINT 940.1	MAX MIN	83 67	83 66	83 66	80 66	80 66	81 66	80 66	81 66	80 66	80 66	86 65	82 65	86 66	82 66	85 69	85 74	85 73	85 75	85 75	82 74	82 72	81 70	83 70	80 70	81 70	81 70	83 71	83 71	81 69	83 68	81 69	84 69	82.5 69.3	
MANA 1026	MAX MIN	83 67	79 64	85 66	85 62	84 65	85 65	88 64	86 64	84 64	83 65	83 65	83 65	82 63	83 65	82 61	85 63	88 65	85 65	85 65	84 65	88 65	88 65	89 67	87 63	88 65	88 62	87 64	87 63	87 63	89 62	88 63	89 65	85.6 64.1	
NIU RIDGE 1035	MAX MIN	80 63	79 60	81 60	80 62	78 65	80 65	80 65	82 62	82 61	81 60	80 60	80 60	81 60	81 61	80 60	80 62	81 61	80 60	81 60	81 60	82 60	80 63	81 64	82 58	80 60	81 62	82 58	82 60	81 61	82 61	82 65	82 64	80.7 61.0	
WAIAMI LDWR 1054	MAX MIN	73 65	79 59	78 66	77 65	77 65	77 64	78 64	78 64	80 60	80 59	82 58	80 60	80 64	80 64	82 64	81 65	81 66	81 66	80 65	80 66	80 66	80 66	78 66	80 64	80 64	78 62	78 62	79 65	79 65	79 61	80 63	79.3 63.6		
ISLAND OF OAHU																																			
EWA PLANTATION 741	MAX MIN	82 65	77 63	82 65	81 64	81 65	82 64	82 64	82 60	80 61	80 60	82 61	83 63	82 62	85 64	85 66	82 64	85 66	82 64	85 66	80 64	83 65	83 65	83 65	83 65	83 65	83 65	82 65	83 65	82 64	83 66	84 66	85 66	85 66	82.5 64.0
HONOLULU WSO 703	MAX MIN	77 69	84 68	81 71	82 70	82 71	83 69	83 68	81 66	83 66	84 65	83 67	83 67	84 70	84 70	85 72	87 72	84 72	84 72	82 71	83 71	82 71	82 69	81 71	83 70	81 69	83 71	82 70	82 70	82 70	83 72	82 70	83 72	82.6 69.8	
HONOLULU SUBSTA 704	MAX MIN	76 70	79 69	78 71	79 72	80 72	79 71	80 69	78 67	79 67	81 66	81 69	81 69	82 71	80 72	81 72	81 72	81 72	81 72	82 71	82 71	81 71	80 71	80 71	80 72	80 71	80 72	80 71	80 71	80 71	80 71	79 73	79 71	79 72	79.6 70.9
KAHUKU 912	MAX MIN	80 70	80 69	80 71	80 69	80 69	79 69	79 69	79 69	79 69	79 69	80 62	81 69	81 69	82 69	81 70	82 72	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82.6 69.8
KANEHE MAUKA 781	MAX MIN	78 70	78 69	80 71	79 67	79 72	79 72	79 72	80 68	80 66	81 66	81 66	82 65	80 66	80 66	79 71	81 71	81 71	82 72	82 72	80 71	82 71	80 71	80 67	80 67	79 68	81 70	80 68	79 68	79 68	81 69	81 69	81 69	81 69	80.1 69.0
LUALUALEI 804	MAX MIN	82 66	75 64	83 64	82 70	82 70	82 70	82 70	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82.6 69.8
MAKAPUU POINT 724	MAX MIN	76 67	74 62	77 62	74 65	75 65	76 67	76 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	77 67	76.6 66.9
OPAEOUA 870	MAX MIN	75 66	78 61	79 66	77 63	77 63	77 63	77 63	78 63	77 63	79 63	83 63	83 63	80 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82 63	82.6 69.8
PRI WAIHAWA 820.2	MAX MIN	80 64	72 61	81 61	80 63	80 63	81 63	81 63	80 63	80 63	80 63	80 63	83 63	84 63	83 63	84 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	81.5 62.1
WAIALUA 847	MAX MIN	80 69	77 66	82 66	82 63	82 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	82.9 62.5
WAIKIKI 717.2	MAX MIN	83 68	77 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	84.3 68.7
WAIMANALO EXP FARM	MAX MIN	79 70	77 70	80 71	80 70	80 70	80 70	81 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	81.5 70.7
ISLAND OF MOLOKAI																																			
MOLOKAI AP 524	MAX MIN	77 68	79 71	80 69	78 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	82 62	82 66	82 69	82 69	81 73	81 69	82 68	82 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	80.1 68.3
ISLAND OF LANAI																																			
LANAI CITY 672	MAX MIN	72 62	72 63	75 62	73 59	73 61	74 63	74 62	74 61	75 61	74 59	74 58	74 58	75 58	75 59	77 63	78 60	77 61	80 63	78 60	77 61	78 61	78 61	78 61	78 61	78 61	78 61	78 61	78 61	78 61	78 61	78 61	78 61	78 61	75.1 61.9
ISLAND OF MAUI																																			
HALEAKALA RS 338	MAX MIN	64 46	61 44	62 45	59 44	64 41	61 40	58 43	59 38	57 36	51 36	57 39	59 41	61 39	58 40	60 41	61 41	65 41	65 41	60 40	61 38	58 35	52 36	59 43	60 42	59 42	62 39	61 42	61 42	62 42	62 42	62 42	62 42	62 42	60.2 41.4
HALEAKALA SUMMIT 338.4	MAX MIN	50 41	57 35	51 36	51 36	52 38	50 33	52 33	47 32	46 34	50 32	52 41	56 41	55 44	55 44	53 40	53 41	55 41	55 41	54 37	54 40	55 38	54 33	55 33	54 33	54 33	54 33	54 33	54 33	54 33	54 33	54 33	54 33	54 33	52.8 37.5
MANA AIRPORT 355	MAX MIN	81 69	82 66	82 64	82 66	80 67	81 64	81 64	82 64	82 64	82 64	82 64	82 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	83 64	82.4 66.5
KAANAPALI AIRPORT	MAX MIN	78 64	77 64	82 63	81 65	81 65	81 65	82 62	82 62	82 62	81 61	81 63	82 63	83 63	83 63	83 63	84 63	84 63	84 63	84 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	81.8 64.4
KAHULUI WSO 398	MAX MIN	83 62	85 62	83 70	84 69	85 69	84 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85.8 64.7
KAILUA 446	MAX MIN	73 66	76 66	77 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76.3 64.7	
KEAWAKAPU BEACH 260.2	MAX MIN	79 63	80 63	83 61	91 61	90 61	86 61	84 61	87 61	88 60	86 60	89 58	87 60	86 60	85 60	86 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	86.9 61.5
KULA SANATORIUM 267	MAX MIN	70 57	72 56	71 55	70 52	70 50	70 51	71 55	70 52	69 52	69 52	67 51	69 51	69 49	71 50	72 53	73 55	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	72 56	71.1 54.0

DAILY TEMPERATURES

Continued

HAWAII
MAY 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX	80	80	84	85	86	82	85	85	85	85	84	84	84	86	85	85	86	85	85	86	86	87	86	86	86	87	85	86	85	85	86	
	MIN	66	67	67	67	67	67	68	68	66	68	68	64	64	66	65	66	67	66	66	67	66	66	66	66	65	65	64	66	65	66	66	
WAILUKU 386	MAX			79	79	78	78	79				80	80	81	81	80			83	83	81	82	81			79	79	79	79				
	MIN			66	69	69	68	68				63	66	68	67	70			68	70	69	69	70			67	68	69	68				
* * *																																	
ISLAND OF HAWAII																																	
HALENA 214	MAX	79	78	79	80	79	79	80	79	80	80	80	81	79	80	79	79	81	80	81	80	79	80	80	79	80	80	80	80	81	80	79	
	MIN	62	64	66	64	63	64	63	62	61	63	61	63	61	63	66	68	63	65	63	67	67	63	64	65	65	62	65	66	66	63	66	
HAWAII VOLCNS NP HO 54	MAX	62	65	67	66	62	65	66	65	65	68	67	70	69	69	68	71	71	71	68	65	60	63	67	69	63	66	67	66	69	64	73	
	MIN	53	55	53	52	51	51	52	49	48	44	49	49	48	54	52	51	52	54	52	54	53	49	49	52	49	51	52	51	53	52		
HILO WSD 87	MAX	78	82	82	80	81	80	79	79	80	82	82	82	79	81	84	84	83	83	79	83	80	80	80	79	80	81	79	80	80	83		
	MIN	63	66	65	62	60	61	64	62	60	59	61	62	63	63	63	66	64	66	66	69	64	64	63	65	64	62	64	65	64	65		
KAINALIU 73.2	MAX	74	72	72	76	74	76	75	75	75	74	75	75	77	79	77	77	76	75	76	76	77	76	75	76	77	75	74	76	77	77		
	MIN	62	64	61	60	61	60	60	59	59	58	60	60	60	61	62	61	63	64	63	62	62	59	60	59	60	61	61	61	63	62		
KAMUELA 192.2	MAX	70	74	72	72	70	72	71	72	70	74	75	76	71	77	76	74	78	76	74	75	69	74	72	70	69	71	72	71	71	72		
	MIN	54	55	57	57	58	57	58	57	46	45	45	48	50	51	53	50	52	55	50	53	57	55	57	56	55	57	57	56	58	57		
KEAAU 92	MAX	74	77	78	79	78	78	78	76	77	78	79	79	80	78	79	82	80	80	80	75	78	78	78	79	76	78	78	77	79	80		
	MIN	65	66	67	64	63	63	63	62	61	60	60	63	63	66	64	65	64	64	65	64	64	64	63	63	64	62	64	64	64	65		
KEALAKEUA 26.2	MAX	72	73	72	76	74	77	77	76	77	74	74	75	76	81	76	77	76	75	77	76	76	76	76	76	76	76	76	76	77	77		
	MIN	64	64	62	62	61	61	60	60	59	59	61	59	61	62	61	63	65	63	63	63	63	60	61	60	61	62	62	62	63	63		
KOHALA MISSION 175.1	MAX	77	77	78	78	76	77	77	78	76	78	81	79	79	80	79	79	80	80	79	79	77	79	79	78	78	78	78	78	79	79		
	MIN	65	65	67	66	65	65	64	65	61	62	61	66	63	65	67	65	65	66	66	66	66	65	65	64	65	65	65	66	66	66		
KONA (KAILUA) 68.3	MAX			84	83	80	83	83			83	83	80	82	88			85		83	80	86			83	82	82	83	81				
	MIN			67	69	69	68	69			64	68	70	68	69			68		70	69	66			65	68	67	69	70				
KULANI CAMP 79	MAX	72	59	61	61	61	54	61	59	59	61	63	62	82	62	53	67	67	65	65	64	30	58	61	62	61	59	61	60	61	59		
	MIN	45	49	50	48	44	45	44	45	41	41	44	56	40	41	44	43	44	50	50	49	48	45	44	50	48	45	47	48	44	44		
MAUNA LOA SLOPE OBS	MAX	52	48	51	51	52	48	45	44	46	51	54	58	52	53	57	54	55	52	55	50	49	49	55	55	55	54	56	53	53	50		
	MIN	38	34	32	32	31	30	30	28	27	32	35	38	35	34	35	37	35	34	33	32	32	33	33	33	33	35	34	33	34	37		
MOUNTAIN VIEW 91	MAX	75	75	75	75	70	74	74	77	77	77	76	78	77	76	79	79	79	78	73	73	72	76	76	76	71	75	75	74	67			
	MIN	60	60	60	60	58	57	59	54	54	54	54	56	57	59	59	59	59	60	61	62	62	57	57	57	60	56	58	60	61	61		
NAALEHU 14	MAX	72	76	76	78	76	76	76	76	76	76	77	75	77	77	77	78	78	78	77	77	76	76	77	77	74	77	77	77	78	78		
	MIN	66	65	65	67	65	63	63	63	60	60	64	64	65	68	68	65	65	67	67	67	64	64	63	63	66	61	63	67	67	67		
ODKALA 223	MAX	76	78	80	79	78	77	78	78	78	78	78	79	78	80	79	79	79	79	75	78	78	78	78	78	78	78	79	79	80	79		
	MIN	66	63	66	64	64	64	63	62	62	62	62	65	64	62	66	65	67	65	64	65	63	64	64	64	63	62	64	64	65	70		
OPIHIHALE 2 24.1	MAX	73	76	76	72	73	77	79	78	77	78	73	76	79	77	75	74	75	81	75	76	75	72	74	77	77	77	73	71	77	79		
	MIN	63	62	59	58	58	59	58	59	60	58	59	58	57	59	61	62	64	61	61	61	59	61	58	60	59	58	58	59	61	60		
PAHALA 21	MAX			76	80	78	77	79			77	77	76	77	78			79	78	77	78	76			78	77	77	78	78	79	79		
	MIN			61	62	61	60	61			57	57	58	58	60			60	65	62	64	66			59	61	59	59	61	60	60		
PUAKO 95.1	MAX	83	84	84	87	85	84	85	85	84	84	83	82	83	87	86	83	84	85	85	85	85	85	85	85	86	86	85	87	85	86		
	MIN	68	69	68	70	70	70	70	68	65	65	65	66	67	67	68	68	65	69	66	68	69	69	67	69	71	70	68	69	68	69		
UPOLU POINT USCG 159.2	MAX	80	79	80	80	79	81	79	80	80	82	83	82	81	83	82	83	85	83	80	80	80	82	80	80	76	80	80	81	80	82		
	MIN	70	71	71	69	61	67	69	69	69	70	66	67	68	69	70	69	70	67	70	71	68	67	70	68	70	66	72	66	66	68		
WAIMEA KOHALA	MAX	72	72	71	72	71	72	72	72	71	74	74	74	73	72	73	75	78	76	74	76	72	76	70	70	72	73	72	72	74	76		
	MIN	52	54	58	54	55	55	52	52	44	46	45	54	50	54	47	47	47	52	50	56	55	54	56	57	57	52	50	57	50	54		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSD 1020.1	EVAP	.17	.06	.29	.33	.31	.57	.31	.30	.24	.18	.30	.26	.33	.37	.32	.33	.33	.28	.35	.49	.45	.40	*	.59	.35	.32	.45	.41	.39	.28	-	
	WIND	137	24	*	*	157	150	133	96	59	52	69	144	128	160	124	167	149	157	204	209	159	201	*	451	216	168	209	226	80	139	105	
	MIN	63	60	61	63	63	63	62	60	38	59	59	61	63	63	64	65	64	64	64	63	64	62	-	62	62	62	61	62	62	63	62	
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.19	.03	.19	.26	.30	.21	.30	.26	.27	.26	.25	.26	.21	.29	.26	.26	.30	.30	.25	.15	.32	.35	.34	.31	.36	.30	.34	.33	.39	.28	.32	
	WIND	26	4	26	41	35	33	31	26	24	25	20	29	31	38	26	30	34	24	29	28	40	30	35	38	49	42	31	48	47	35	29	
	MIN	82	75	86	90	88	89	91	89	91	92	93	92	87	90	89	91	90	90	87	82	88	90	92	88	91	90	89	89	91	89	90	

See Reference Notes Following Station Index

STATION INDEX

HAWAII
MAY 1971

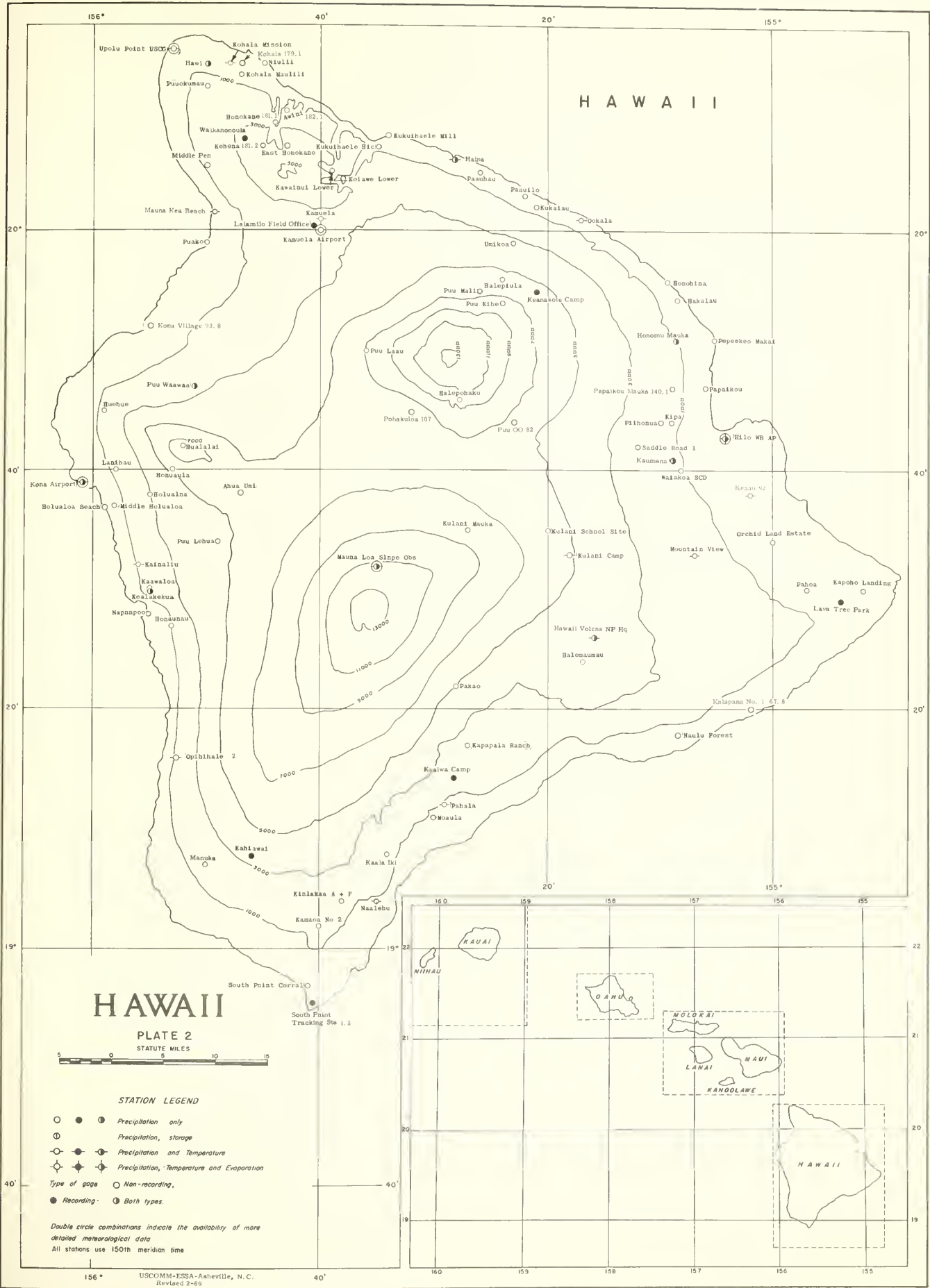
CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII																									
MIDDLE PEN 147.1	A 627	01	N KOHALA	1 20 06	155 50	1380		VAR				KAHUA RANCH	UPOLO POINT USCG 159.2	883	01	N KOHALA	1 20 15	155 53	61	8A	8		U S COAST GUARD		
MOULU 19	A 640	01	KAU	3 19 11	155 30	800		7A				HAWAIIAN RANCH CO	WAIKAPA SCV 88.2	9025	02	S HILO	2 19 40	155 06	1050	7A	7		SHINICHI KANESHIRO		
MOUNTAIN VIEW 91	A 658	02	PUNA	2 19 33	155 07	1530	6A	6A				PUNA SUGAR CO	WAIKANDOUA 178.6	9350	01	N KOHALA	1 20 08	155 47	3830	8A	8		KAHUA RANCH		
NAALEHU 14	A 689	04	S KOHA	3 19 04	155 35	673	8A	8A				HUTCHINSON SUGAR CO	CLOSED STATIONS	9550	05	S KOHALA	5 20 00	155 40	2665	8A	8		HAWAIIAN AIRLINES		
NAHOHOE 23	A 689	04	S KOHA	3 19 23	155 35	982		7A				WAIKANDOUA SUGAR CO													
NAULU FOREST 38.6	A 673	02	PUNA	2 19 19	155 09	1400		VAR				HAWAII VOLCANOES NAT PK													
NIULII 179	A 680	01	N KOHALA	1 20 14	155 45	75		6A				KOHALA SUGAR CO													
OPIMAHALE 2 24.1	7131	02	N HILO	2 20 03	155 17	430	7A	7A				LAIPANOHU SUGAR CO													
ORCHID LAGO EST 91.5	7116	04	S KUNA	4 19 16	155 53	1270	7A	7A				MISS C LEONARD													
	A 7185	02	PUNA	2 19 34	155 00	445		VAR				ROARO OF WATER SUPPLY													
PAALUHU 217	7204	01	HAWAIIA	1 20 05	155 26	415		7A				PAALUHU SUGAR CO													
PAALUHU 221	7312	01	HAWAIIA	1 20 08	155 22	800		7A				HAWAIIAN MILL CO													
PAHALA 21	A 7421	03	KAU	3 19 12	155 29	870	8A	8A				HAWAIIAN RANCH CO													
PAHOA 65	7457	02	PUNA	2 19 30	154 57	670		6A				PUNA SUGAR COMPANY													
PAKAO 37	A 7643	23	KAU	3 19 22	155 28	5000		7A				HAWAIIAN RANCH CO, INC.													
PAPA'IKOU 144.1	7711	02	S HILO	2 19 47	155 00	200		7A				MAUNA KEA SUGAR CO.													
PAPA'IKOU MAUNA 140.1	7721	02	S HILO	2 19 47	155 08	1270		7A				PEREGRINE SUGAR CO													
PEPEKOU MAKA 144	800	02	S HILO	2 19 51	155 05	100		7A				STATE DIV OF FORESTRY													
PIIHONUA 89	A 8051	02	S HILO	2 19 44	155 10	1730		VAR				STATE DIVISION OF PARKS													
POHAKULUA 107	A 8063	02	HAWAIIA	2 19 45	155 32	6511		VAR																	
PUNAO 95.1	A 8136	05	KOHALA	5 19 59	155 50	5	8A	8A				ERWIN H. RAPP													
PUU HINE 120	A 8393	01	HAWAIIA	1 19 24	155 24	7750						KURIAU RANCH CO													
PUU LA'AU 102.1	A 8452	05	HAWAIIA	5 19 50	155 30	7440						STATE DIV OF FISH-GAME													
PUU LEHIA 73	A 8460	04	N KOHA	4 19 34	155 49	4880						GREENWELL RANCH													
PUU MAU 113	A 8515	01	HAWAIIA	1 19 55	155 26	6940						KURIAU RANCH CO													
PUU OI 42	A 8530	02	S HILO	2 19 44	155 23	6340						ODN WINTERS													
PUU WAHAA 94.1	A 8558	05	N KOHA	5 19 47	155 51	2320		6A				BILLINGHAM RANCH INC													
SADOLE ROAD 1 84	A 8590	02	S HILO	2 19 42	155 12	2340						BUSH OF WTR SUPPLY													
SOUTH POINT CORRAL 3	A 8675	03	KAU	3 18 57	155 41	500						HAWAIIAN RANCH COMPANY													
UHIKOA 118	8780	01	HAWAIIA	1 19 59	155 23	3420		7A				KURIAU RANCH CO													

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

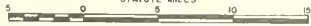
- Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".
- DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in F° , precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.
- OBSERVATION TIME:** Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.
- EVAPORATION:** Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.
- NORMALS:** for all stations are climatological standard normals based on the period 1931-1960.
- STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.
- DELAYED DATA AND CORRECTIONS:** will be carried only in the June and December issues of this bulletin.
- INTERPOLATED VALUES:** for monthly precipitation totals may be found in the annual issue of this publication.
- IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
 - No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
 - + And also on an earlier date or dates
 - ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data
 - * Amount included in following measurement, time distribution unknown
 - A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
 - B Adjusted to a full month.
 - J "Supplemental Data" table.
 - M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 - R Amounts from recording gage.
 - T Trace, an amount too small to measure.
 - V Includes total for previous month.
- IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- AR Observation made after rain.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - MO Gage read once monthly, usually on the last day.
 - OC Gage readings at periods varying from a few weeks to several months.
 - S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
 - SS Observation time is near sunset.
 - VAR Observation time is variable.
 - WI Gage read weekly or irregularly only.
 - WM Gage read weekly and last day of month.
 - * Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- Stations appearing in the tables with no data were either missing or received too late to be included in this issue.
- General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.
- Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.
- Subscription Price. 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.



HAWAII

HAWAII

PLATE 2
STATUTE MILES



STATION LEGEND

- ● ○ Precipitation only
- ○ Precipitation, storage
- ○ Precipitation and Temperature
- ○ Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording
- ○ Both types.

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JUNE 1971

Volume 67 No. 6

OCT 25 1971

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days				
									9° or Above	10° or Above	32° or Below	9° or Below					Total	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
																								Max.	Min.
* * * ISLAND OF KAUAI																								
ANAHOLA 1114	A	71.9	52.8	62.4		75	29+	44	3	0	0	0	0	2.89	1.24	1.00	17	.0	0	0	0	2	1	0
KANALOHULUHULU 1075	A									0	0	0	0	1.55		.78	15	.0	0	0	0	3	1	0
KAPAA STABLEC 1104	A									0	0	0	0	3.86		1.47	16	.0	0	0	0	2	1	0
KILAUEA FIELO 17 1135	A									0	0	0	0	2.10				.0	0	0	0	0	0	0
KILAUEA POINT 1133	A	79.8	70.7	75.3		82	29+	67	14	0	0	0	0	2.29		1.10	16	.0	0	0	5	1	1	
* * * ISLAND OF OAHU																								
KOLOA 936	A									0	0	0	0	5.06	1.37	3.36	16	.0	0	0	0	1	1	1
LIMUE WSD 1020.1	//R	83.3	72.5	77.9	- 1.3	85	12+	64	14	0	0	0	0	2.98	1.52	1.68	16	.0	0	0	3	2	1	
MANA 1026	A	86.9	66.3	76.6	.1	89	29+	63	4	0	0	0	0	1.58	.94	.65	17	.0	0	0	3	2	0	
N WAILUA OITCH 1051	A									0	0	0	0	7.87		1.16	16	.0	0	0	0	9	0	0
PH WAINIHA 1115	A									0	0	0	0	2.15	- 3.83	.35	23	.0	0	0	0	9	0	0
PUEHU RIGGE 1040	A									0	0	0	0	.76		.34	15	.0	0	0	0	3	0	0
WAHIAHA 930	A	80.4	64.9	72.7		83	30+	59	14	0	0	0	0	1.70	.38	.64	16	.0	0	0	0	1	0	0
WAIHI LOWER 1054	A									0	0	0	0	3.48		.47	16	.0	0	0	0	13	0	0
WAIMEA 947	A									0	0	0	0	.70	.42	.34	16	.0	0	0	0	3	0	0
ISLAND																								
73.0																								
2.78																								
.0																								
* * * ISLAND OF MOLOKAI																								
HONOLULU OBSERV 702.2	R	83.5	71.0	77.3	-.6	86	29+	65	16	0	0	0	0	2.16		1.55	16	.0	0	0	3	1	1	
HONOLULU WSD 703	A									0	0	0	0	2.46	2.13	2.00	15	.0	0	0	0	2	1	1
KAHUKU 912	A	81.9M	70.1M	76.0M	.7	84	22	62	16	0	0	0	0	3.04	1.63	1.79	16	.0	0	0	0	2	1	1
KANEHE MAUKA 781	A	81.1	69.4	75.3	-.6	83	30+	63	19	0	0	0	0	4.94	2.00	2.60	16	.0	0	0	9	2	1	
KODLAU OAM 833	A									0	0	0	0	7.65	-.57	1.79	16	.0	0	0	0	2	1	1
* * * ISLAND OF LANAI																								
LUALUALEI 804	A	83.9M	70.8M	77.4M		86	18+	64	3	0	0	0	0	5.14		2.95	16	.0	0	0	3	2	2	
MAKAPUU POINT 724	A	77.6	68.7	73.2		81	30	63	6	0	0	0	0	2.11	1.61	1.97	16	.0	0	0	1	1	1	
NUUANU RES 4 783	A									0	0	0	0	8.46	1.29	5.40	15	.0	0	0	0	10	3	1
OPAEULA 870	A	79.2	64.4	71.8	.2	85	14	60	15	0	0	0	0	3.51	.91	1.50	16	.0	0	0	4	2	2	
PALOLD VALLEY 718	A									0	0	0	0	8.56	-.23	4.86	15	.0	0	0	0	11	3	1
* * * ISLAND OF MAUI																								
PRI WAHIAHA 820.2	A	82.8	64.5	73.7		87	30	58	3	0	0	0	0	2.35		1.56	16	.0	0	0	0	1	1	
WAHIAWA OAM 863	A									0	0	0	0	2.52		1.57	16	.0	0	0	0	1	1	
WAIHOLE 837	A									0	0	0	0	4.13	- 3.87	1.84	16	.0	0	0	0	2	2	
WAILUA 847	A	83.8	64.3	74.1	- 1.2	88	30	59	3	0	0	0	0	2.86	2.14	1.52	17	.0	0	0	0	1	1	
WAIKIKI 717.2	A	84.4	70.5	77.5		86	30+	65	14	0	0	0	0	2.84		2.62	16	.0	0	0	0	1	1	
WAINALD EXP FARM	A	82.0	70.2	76.1		85	15	64	14	0	0	0	0	4.19		3.76	16	.0	0	0	0	1	1	
WAIPAHU 750	A									0	0	0	0	2.32	1.72	1.62	16	.0	0	0	0	3	1	
ISLAND																								
75.2																								
4.07																								
.0																								
* * * ISLAND OF HAWAII																								
KUALAPUU 534	A									0	0	0	0	1.26	.59	.63	15	.0	0	0	2	1	0	
MAPULEHU 542	A									0	0	0	0	1.40	.79	.23	9	.0	0	0	0	8	0	
MAUNALO A 511	A									0	0	0	0	.72	.03	.60	16	.0	0	0	0	1	1	
MOLOKAI AP 524	A	81.0	69.7	75.4		84	18	64	30	0	0	0	0	.33		.23	16	.0	0	0	0	1	0	
ISLAND																								
75.4																								
.93																								
.0																								
* * * ISLAND OF LANAI																								
LANAI CITY 672	A	76.8	63.7	70.3	.2	80	24+	60	4	0	0	0	0	.13	- 1.29	.06	25	.0	0	0	0	0	0	
ISLAND																								
70.3																								
.13																								
.0																								
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A									0	0	0	0	.46	- 2.32	.22	9	.0	0	0	0	2	0	
HALEAKALA RS 338	A	66.7	48.5	57.6		73	26	42	29+	0	0	0	0	.00		.00	0	.0	0	0	0	0	0	
HANA AIRPORT 355	A	83.5	66.4	75.0		86	30+	62	14	0	0	0	0	1.71		.42	26	.0	0	0	0	0	0	
HONOKOHU 493	A									0	0	0	0	.55	- 1.13	.14	16	.0	0	0	0	1	0	
KAANAPALI AIRPORT	A	83.0	65.8	74.4		85	24+	62	29	0	0	0	0	.41		.36	16	.0	0	0	0	1	0	
KAHULUI WSD 398	R	86.1	68.5	77.3	.1	89	17	61	29	0	0	0	0	.21	.03	.17	15	.0	0	0	0	1	0	
KAILUA 446	A	77.2	65.6	71.4	.5	80	18+	63	29+	0	0	0	0	2.97	- 4.66	.66	9	.0	0	0	0	9	2	
KEANAE 346	A									0	0	0	0	3.70	- 10.07			.0	0	0	0	10	1	
KIPAHULU 258	A									0	0	0	0	2.80	- 4.96	.55	26	.0	0	0	0	2	0	
KULA SANATORIUM 267	A	72.6	55.5	64.1	.8	75	27+	51	5	0	0	0	0	.27	- 1.42	.15	15	.0	0	0	0	2	0	
LAHAINA 361	A	86.3	67.0	76.7		89	28+	65	30+	0	0	0	0	.17	.11	.17	16	.0	0	0	0	1	0	
PAIA 406	A									0	0	0	0	.18	.01	.07	9	.0	0	0	0	0	0	
WAILUKU 386	A	81.1M	69.1M	75.1M	- 1.3	87	17	66	15+	0	0	0	0	.31	-.03	.18	16	.0	0	0	0	2	0	
ISLAND																								
71.5																								
1.06																								
.0																								
* * * ISLAND OF HAWAII																								
HAINA 214	A	80.8	65.8	73.3	.3	83	29+	61	29	0	0	0	0	.41	- 1.51	.31	11	.0	0	0	1	0	0	
HAWAII VOLCONS NP HO 54	R	68.3	53.0	60.7	- 1.3	73	26	49	13	0	0	0	0	1.32	- 3.21	.17	3	.0	0	0	0	10	0	
HILD WSD 87	A	83.1	66.8	75.0	.7	87	16	63	4	0	0	0	0	2.79	- 4.00	.55	7	.0	0	0	0	1	0	
HUEHUE 92.1	A									0	0	0	0	1.22	- 3.28			.0	0	0	0	8	1	
KAINALIU 73.2	A	76.6	62.3	69.5		81	17	59	29	0	0	0	0	2.15	- 5.80	.68	30	.0	0	0	0	8	1	
KEAAU 92	A	79.9	64.9	72.4	- 1.3	86	16	62	20	0	0	0	0	2.99	- 4.87	.46	9	.0	0	0	0	11	0	

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
									Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.30 or More	1.00 or More
									90° or Above	32° or Below	32° or Below	90° or Below										
KEALAKEKUA 26.2	76.8	62.7	69.8		80	17	60	30+	0	0	0	0	2.38		1.10	30	.0	0		7	1	1
KONA (KAILUA) 68.3	83.5M	69.3M	76.4M		87	3	68	30+	0	0	0	0	.53				.0	0		0	0	0
KUKUIHAELE HIC 199													.86	- 2.18	.31	11	.0	0		2	0	0
KULANI CAMP 79	62.6	45.4	54.0		75	21	40	30+	0	0	0	0	.78		.14	3	.0	0		3	0	0
PAHALA 21	79.2M	61.5M	70.4M	- 1.8	83	28	58	14	0	0	0	0	.19	- 1.14	.14	29	.0	0		1	0	0
POMAKULOA 107													.09				.0	0		0	0	0
PAKAO 95.1													T		T	25	.0	0		0	0	0
PUU WAAWAA 94.1													.04	- 2.08	.04	4	.0	0		0	0	0
UMIKOA 118													.17	- 1.53	.08	11	.0	0		0	0	0
WAIKAEA SCO 88.2													4.34		.73	3	.0	0		10	3	0
WAIKAEA KOHALA	73.1M	54.8M	64.0M		76	30+	46	13	0	0	0	0	.40		.14	14	.0	0		1	0	0
ISLAND			69.4										1.22				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 2D AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 29° ON THE 2D AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 15.27 INCHES AT MOUNT WAIKAELE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 11 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.18 INCHES ON THE 15TH AT PAUOA FLATS 784, OAHU

SPECIAL WEATHER SUMMARY

June presented the curious picture of record-breaking rains in some areas and a worsening dry spell in others. However, as in previous dry periods, water shortages and their adverse effects were not particularly widespread, but were being felt in only a few localities.

Except for mid-month rains in parts of Kauai, Oahu, and Maui, the dry conditions of May continued unabated through June. On northern and central Kauai, throughout Maui (except along the southwestern coast, where several gages recorded 4 to 7 times their monthly means), and on all of Lanai and Hawaii Island, only a few stations received even half their average rainfall for June, while many had less than one-fourth.

By the end of the month the following effects were being noted:

1. Soil moisture was depleted and pasture conditions poor, especially on ranches in Hawaii Island's Hamakua District, where forage was low and in some places being supplemented by grain -- for example, in the Ahualoa, Paauilo, Honokaa, Kukuihaele, and Kukaiiau areas. Some herds were being thinned to stretch out feed, and a few ranches and dairies were hauling in water for stock.

2. Also in Hamakua, where most sugarcane (a 2-year crop in Hawaii) is unirrigated, its growth had been retarded and damage to next year's crop was feared.

3. Crops in unirrigated fields were showing moisture stress and irrigation water was below normal.

4. The dry conditions had extended from Hamakua northward and westward into Kohala and into Kona. In the latter area, unlike most of the State, summer is the wetter season whose rains usually green the pastures, ranchers were pumping county water.

5. In east Maui's Hana area, known for its lush greenery, Wai'anapanapa State Park was closed for lack of water and water was being hauled to a large pigery.

On the 15th, an unseasonably late cold front that swept in from the northwest, and a low pressure center that formed 600 miles north-northeast of Honolulu, in the front's convergence zone with the surface trough of low pres-

sure over the northern islands, brought steady rains to Kauai, Oahu, and central Maui.

Rainfall was heaviest on Oahu, where several records for 24-hour and monthly accumulations were broken. Honolulu Airport received 2.39 inches during the storm and 2.46 inches for the month as a whole, in contrast with its June average and previous maximum (in 25 years of record) of 0.33 inches and 2.43 inches, respectively.

Downtown Honolulu's 3.20 inches in 24 hours exceeded its previous 68-year record of 1.23 inches, and the June total, 3.49 inches, was second only to the 4.26 inches registered by that station in June 1913.

Also on Oahu, Maunawili, a windward (eastern) locality, recorded 6.25 inches between 6 a.m. on the 15th and 4 p.m. on the 16th. Lualualei, a normally dry leeward (western) station, whose June rainfall averages only 0.76 inches, recorded 4.90 inches between 2 a.m. on the 15th and 6 p.m. on the 16th.

On Kauai, the 2.17 inches that fell at Lihue Airport in 24 hours, surpassed that station's previous 24-hour rainfall of 1.65 inches, established over a 21-year period of record.

At 1:05 p.m. on the 15th, a squall, suspected to have been a waterspout-tornado, probably spawned from clouds associated with the trough of low pressure than over Oahu, moved onshore from Keehi Lagoon and travelled east-northeastward through and over the industrial area of Oahu's Kalihi-Kai peninsula. Tracing out a short, straight path about 15 yards wide, the "waterspout-tornado" tore out sections of the sheet metal roof and wall and buckled the steel I beam along the wall of a large warehouse, flipped over a large sheet metal open-walled structure in the adjoining yard, causing an estimated \$30,000 in damage, and ended its career about a half mile inland, where it blew off a roof's sheet metal eave 100 feet above street level. Although no funnel was seen, workers caught in the junk yard as the "waterspout-tornado" passed over reported heavy rain, "roaring" noises and material whirling upwards.

As shown below, a number of gages with long periods of record had more rain than in any previous June, while an even greater number, principally on Hawaii Island, had their driest June of record.

H A W A I I - J U N E 1 9 7 1
SPECIAL WEATHER SUMMARY - Continued

Stations With More Rain in June 1971
Than in Any Previous June

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest June Total (Inches)	June 1971 (Inches)
<u>OAHU</u>			
HSPA Experiment Station	54	3.71	4.18
Lualualei	47	3.93	5.14
St. Stephens Seminary	29	6.91	7.02
Waianae	81	3.16	3.53

Stations With Less Rain in June 1971
Than in Any Previous June

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least June Total	June 1971
<u>MAUI</u>			
Honomanu Gulch	38	0.10	0.00
<u>HAWAII</u>			
Kaawaloa	71	2.36	1.62
Kainaliu	41	3.30	2.15
Lanikai	29	2.28	1.85
Manuka 2	43	0.70	T
Napoopoo	70	1.19	0.84
Papaikou Mauka	46	5.25	5.08

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DAILY TEMPERATURES

HAWAII
JUNE 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX	73	72	73	74	72	71	73	72	69	73	73	75	75	72	70	68	72	73	62	62	73	72	71	74	72	74	75	73	75	74	71.9	
	MIN	50	49	44	47	49	57	56	54	56	55	53	57	48	45	52	54	56	50	56	56	57	55	57	56	55	53	54	55	50	49	52.8	
KILAUEA POINT 1133	MAX	79	80	79	81	79	81	80	80	79	80	80	81	80	78	80	81	79	79	82	79	79	79	80	79	81	78	80	80	82	79	79.8	
	MIN	72	71	72	73	72	70	73	71	72	69	73	72	70	67	72	69	70	69	69	69	72	69	73	69	70	70	71	71	73	69	70.7	
LIHUE WSO 1020-1	MAX	84	84	83	84	84	83	84	83	84	83	84	85	84	84	85	83	84	81	84	83	81	83	83	83	83	84	83	83	84	83	83.3	
	MIN	74	74	68	76	73	75	73	72	74	75	74	71	70	64	68	69	75	76	75	72	71	75	75	73	75	75	73	74	72	71	69	72.5
MAKAHUEA POINT 940.1	MAX	82	81	84	85	82	84	83	80	83	80	84	84	82	85	87	89	79	86	83	83	83	83	80	83	78	83	82	85	82	85	83.0	
	MIN	71	69	71	68	75	68	75	70	71	65	73	68	69	68	71	67	72	70	69	69	71	65	69	74	75	71	69	73	70	69	70.2	
MANA 1026	MAX	86	87	87	88	87	88	89	87	86	87	88	88	87	86	88	83	82	87	89	88	88	88	87	86	86	85	86	87	89	87	86.9	
	MIN	65	64	64	63	64	65	66	66	66	64	67	69	66	65	67	65	70	69	66	66	66	65	70	70	65	68	67	66	67	68	66.3	
NIU RIIOE 1035	MAX	80	81	82	80	82	80	81	82	81	82	83	81	81	82	80	79	80	82	80	81	80	81	82	80	81	82	80	81	82	81.0		
	MIN	61	63	63	63	60	60	61	62	63	63	64	60	61	62	60	60	59	63	62	62	63	64	63	64	62	62	63	61	61	60	61.8	
WAIAMI LOWER 1054	MAX	79	79	80	83	83	81	81	80	79	80	82	82	82	80	79	78	80	80	80	79	80	80	80	80	80	81	81	78	83	83	80.4	
	MIN	65	65	65	65	64	64	64	66	66	64	64	66	64	59	60	64	65	67	65	66	67	69	66	67	67	68	69	63	60	62	64.9	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX	84	84	83	85	85	84	83	84	83	83	84	84	85	84	80	85	85	83	84	84	84	85	84	85	84	85	84	85	84	85	83.7	
	MIN	67	67	62	65	65	68	66	68	68	70	65	66	61	68	64	65	67	66	66	67	65	72	68	65	65	67	65	64	67	65	64	66.2
HONOLULU WSO 703	MAX	84	83	84	83	83	82	83	82	83	84	84	84	85	82	79	82	86	85	83	84	84	83	84	83	84	84	84	85	86	84	83.5	
	MIN	72	70	67	71	72	72	70	72	72	73	72	72	70	67	67	65	69	73	72	73	73	72	72	70	72	72	74	72	71	72	71.0	
HONOLULU SUBSTA 704	MAX	80	79	80	80	80	79	80	81	80	80	80	82	81	78	77	80	83	82	81	80	80	81	81	81	81	81	80	81	82	82	80.4	
	MIN	70	71	70	72	72	71	71	73	73	72	72	72	71	69	66	65	72	73	73	73	73	73	71	74	73	74	72	71	73	71.7		
KAHUKU 912	MAX	81	82	81	82	82	82	82	82	81	82	81	82	81	82	82	80	82	82	80	84	81	82	82	84	81	82	82	82	83	83	81.9	
	MIN	72	70	72	72	71	71	71	71	71	71	72	72	70	66	66	62	64	72	70	71	73	70	73	73	72	70	73	72	70	73	70.1	
KANEOHE MAUKA 781	MAX	80	82	79	80	80	80	79	81	80	80	81	81	83	83	83	79	81	82	82	82	82	82	81	81	82	81	81	81	81	83	81.1	
	MIN	71	67	69	67	69	69	67	72	73	69	73	68	68	66	67	64	68	71	63	69	71	71	70	69	72	73	73	70	71	71	69.4	
LUALUALEI 804	MAX	86	85	85	84	84	83	85	85	84	84	84	84	86	83	79	81	86	84	82	85	85	84	85	84	85	84	85	84	85	81	80	83.9
	MIN	70	71	64	71	74	72	70	72	72	73	72	72	65	70	67	68	72	73	72	72	72	72	72	72	72	74	74	68	68	66	70.8	
MAKAPUU POINT 724	MAX	76	75	77	78	76	76	76	75	75	76	76	78	78	80	80	79	78	78	79	78	78	77	78	78	78	78	78	78	79	81	77.6	
	MIN	71	68	67	67	68	63	67	68	67	68	67	70	70	68	69	68	69	69	70	69	71	69	70	69	70	69	70	71	69	69	68.7	
OPEAULA 870	MAX	78	78	79	81	80	78	77	79	78	76	78	81	80	85	83	77	73	81	79	78	79	80	79	80	78	76	80	81	82	81	79.2	
	MIN	66	65	61	62	63	66	65	65	66	66	64	64	62	61	60	62	63	63	65	65	65	66	66	66	68	66	67	65	64	65	64.4	
PRI MAHIWA 820.2	MAX	83	82	82	85	82	82	83	83	82	82	82	82	85	86	82	80	78	84	82	80	83	83	83	84	82	83	83	84	84	87	82.8	
	MIN	63	66	58	61	65	68	65	66	67	67	65	65	61	59	61	62	62	65	68	65	65	64	66	64	65	67	70	65	66	62	64.5	
WAIALUA 847	MAX	84	84	84	85	83	82	82	83	83	82	82	84	84	87	86	83	83	85	82	83	83	83	84	85	85	83	83	83	86	88	83.8	
	MIN	63	64	59	61	62	64	69	64	64	65	62	63	65	62	65	66	67	64	66	67	63	63	64	65	63	64	70	65	60	64.3		
WAIKIKI 717.2	MAX	84	85	84	84	84	85	84	85	84	84	85	85	86	85	80	82	85	85	85	84	84	84	84	84	85	85	85	85	85	86	84.4	
	MIN	72	71	64	71	72	72	71	71	70	72	71	70	70	65	71	66	69	73	72	71	72	72	73	71	72	72	73	69	67	69	70.5	
WAIMANALO EXP FARM	MAX	82	82	80	80	79	80	82	83	82	82	83	83	83	85	80	81	83	82	83	83	82	83	82	83	82	81	82	81	83	84	82.0	
	MIN	71	69	70	71	70	71	69	71	71	70	71	71	70	64	66	67	67	72	72	70	71	72	72	69	71	72	72	72	70	72	70.2	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	80	82	81	80	80	80	82	81	80	80	80	81	83	78	78	78	82	84	79	82	80	81	81	82	82	83	83	83	82	82	81.0	
	MIN	70	70	70	70	70	72	70	70	70	70	70	70	74	68	68	70	69	69	70	72	69	69	71	69	69	68	74	68	68	64	69.7	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX	75	76	74	79	77	74	75	76	77	76	78	77	77	77	78	73	80	78	75	79	76	76	75	76	80	79	77	78	77	78	76.8	
	MIN	62	63	61	60	61	62	64	65	62	65	65	64	62	62	63	64	63	63	66	66	63	66	66	66	65	66	66	65	64	65	66.5	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX	65	67	66	65	69	67	67	67	65	65	68	67	67	62	63	62	64	70	69	68	67	68	68	68	69	73	71	66	64	63	66.7	
	MIN	51	48	44	48	52	52	45	52	49	51	44	44	48	42	44	42	49	54	52	47	53	53	54	48	49	55	50	47	42	47	48.5	
HALEAKALA SUMMIT 338.4	MAX	57	56	57	60	60	57	60	57	54	59	55	59	62	64	58	54	60	61	56	63	58	58	56	59	55	54	56	54	52	57.5		
	MIN	36	40	40	41	42	44	42	42	36	42	44	40	43	42	42	35	39	44	44	43	42	43	45	40	44	42	39	36	38	39	41.0	
HANA AIRPORT 355	MAX	82	83	82	83	81	82	82	79	82	82	82	84	84	84	86	86	85	85	84	83	84	85	84	86	83	83	84	85	86	83.9		
	MIN	67	67	66	67	67	68	67	65	68	66	63	63	65	62	66	63	73	67	68	68	65	67	68	67	69	69	64	66	64	66.4		
KAANAPALI AIRPORT	MAX	84	83	84	81	84	82	83	82	82	83	82	84	84	83	81	82	84	8														

DAILY TEMPERATURES

HAWAII
JUNE

1971

Continued

Station		Day of Month																														Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
LAHAINA 361	MAX	87	86	87	84	86	87	87	85	86	88	86	87	86	86	83	84	84	87	87	87	87	87	89	87	87	87	87	85	85	85	
	MIN	67	69	66	65	65	65	67	65	66	66	68	65	65	65	72	69	68	67	68	67	67	67	69	69	68	69	68	65	65		
WAILUKU 386	MAX	82	80	79	80			80	80	80	81	80			81	80	81	87	82			81	80	82	83	81		82	81	81		
	MIN	69	69	69	68			69	70	69	69	69			66	66	68	69	70			69	70	71	71	70	72	70	68	69		
* * *																																
ISLAND OF HAWAII																																
HAINA 214	MAX	79	81	79	81	81	79	79	80	79	79	78	81	81	80	82	82	83	80	81	82	82	82	81	82	81	81	81	81	83	82	
	MIN	67	66	65	65	68	67	65	66	65	65	67	63	62	62	65	68	67	67	67	67	66	68	66	66	66	66	67	66	65	61	66
HAWAII VOLCNS NP HO 54	MAX	69	68	63	65	67	69	69	65	67	67	67	67	67	68	68	70	72	70	69	62	69	69	70	70	70	73	66	70	71	72	
	MIN	53	54	56	55	52	52	52	52	53	52	53	50	49	54	53	52	56	54	52	53	52	52	53	55	52	56	54	53	51	54	
HILO WSO 87	MAX	83	80	80	82	81	81	82	82	81	79	81	83	83	84	86	87	86	82	84	84	84	84	86	86	84	81	83	83	84	86	
	MIN	66	66	67	63	64	67	67	67	67	67	67	65	65	66	65	65	71	69	66	68	66	66	66	68	69	70	70	66	67	67	
KAINALIU 73.2	MAX	77	77	77	78	75	78	77	77	78	75	78	75	75	73	76	79	81	78	77	75	76	76	75	78	76	75	78	77	74	77	
	MIN	62	64	63	62	61	62	60	61	60	62	62	61	63	62	60	61	63	67	64	64	63	61	64	65	64	63	64	61	59	60	
KAMUELA 192.2	MAX	70	71	67	75	70	71	69	70	71	70	65	70	71	74	74	75	78	72	74	71	74	72	70	72	70	72	70	71	74	75	
	MIN	56	58	54	56	54	55	54	56	57	56	57	56	49	52	54	52	55	56	55	56	57	56	57	56	57	58	57	58	58	56	
KEAAU 92	MAX	80	79	78	79	78	78	78	80	79	78	75	78	80	79	81	86	83	81	79	80	82	81	82	82	81	79	80	80	80	80	
	MIN	66	66	66	65	64	64	65	65	64	64	65	64	64	64	64	64	64	66	66	62	65	64	64	66	65	68	67	64	64	66	
KEALAKEUA 26.2	MAX	76	76	77	78	77	79	77	78	78	77	78	76	76	75	77	79	80	78	74	74	75	76	76	76	74	76	77	79	77	78	
	MIN	62	63	64	63	63	63	61	60	60	62	63	62	63	61	60	62	63	67	64	65	63	61	64	65	65	64	65	64	60	60	
KOHALA MISSION 175.1	MAX	79	79	77	79	79	78	78	79	79	79	75	79	79	80	79	85	84	81	80	81	80	81	81	82	81	80	80	81	82	83	
	MIN	66	66	66	67	68	62	66	66	66	65	66	66	63	65	66	67	67	68	67	62	70	68	70	68	70	68	69	68	66	65	66
KONA (KAILUA) 66.3	MAX	84	82	87	85			84	83	84	84	84			83	82	83	85	82			83	83	83	83	81		84	82	85		
	MIN	71	70	71	69			68	68	70	69	68			68	69	69	70	71			69	69	71	69	71		68	68	68	68	
KULANI CAMP 79	MAX	68	63	63	61	51	62	63	54	63	62	54	63	61	53	65	66	64	70	67	65	75	65	66	65	64	60	67	62	60	66	
	MIN	48	50	49	43	42	47	48	47	47	45	47	43	40	46	45	45	48	47	45	47	46	44	44	44	43	48	48	46	40	40	
MAUNA LOA SLOPE OBS	MAX	51	48	54	56	60	60	58	62	60	59	56	55	55	59	56	56	59	59	59	59	61	63	59	60	57	51	52	56	49	48	
	MIN	32	29	32	37	42	42	38	38	41	38	39	39	39	38	42	39	38	39	41	41	43	43	42	40	38	34	32	33	32	32	
MOUNTAIN VIEW 91	MAX	75	75	74	71	75	75	75	74	76	75	74	78	78	78	77	82	80	79	79	79	79	78	79	79	80	76	76	76	78	79	
	MIN	60	60	60	59	59	59	59	61	60	60	62	57	57	57	60	59	65	63	60	60	60	58	60	61	61	59	59	59	60	61	
NAALEHU 14	MAX	78	78	76	74	79	79	79	74	78	79	76	76	77	77	77	79	80	77	77	78	78	79	79	79	79	79	79	79	79	78	
	MIN	68	67	67	66	65	65	65	66	67	66	65	65	62	62	63	62	68	63	63	63	63	65	64	69	67	67	64	64	66	67	
OOKALA 223	MAX	79	80	78	60	80	82	80	78	80	78	75	79	79	79	78	81	81	80	82	81	82	80	80	82	81	80	82	82	81	81	
	MIN	66	64	64	65	65	65	64	64	63	64	64	64	64	65	65	65	65	66	67	66	66	66	66	67	64	68	66	64	65	66	
OPIHIHALE 2 24.1	MAX	81	78	80	78	80	78	78	76	74	75	76	75	73	74	78	77	78	76	77	78	77	78	81	77	77	79	76	79	78	79	
	MIN	62	62	63	62	61	60	61	59	60	59	60	62	60	58	56	58	62	64	63	61	59	60	62	61	61	61	62	59	60	60	
PAHALA 21	MAX	80	78	76	75			82	77	78	79	78			81	79	79	78			81	80	80	80	80	80	80	80	79	78	79	
	MIN	61	63	65	61			61	62	63	63	62			58	62	61	62	63			60	60	60	63	62	61	60	60	60	60	
PUAKO 95.1	MAX	85	86	85	84	86	86	85	85	85	84	86	88	85	84	84	85	86	85	86	85	85	87	85	84	87	85	88	85	85		
	MIN	71	70	68	70	72	71	71	71	69	68	70	71	67	70	67	68	68	73	71	71	70	71	68	71	71	68	71	68	70	70	
UPOLU POINT USCG 159.2	MAX	81	82	80	82	83	78	81	81	81	81	76	80	82	82	83	84	83	83	80	82	84	82	82	81	82	82	82	81	83	81	
	MIN	72	68	68	69	66	69	68	67	68	60	72	67	66	69	72	70	71	71	73	73	72	70	71	74	65	71	72	71	67	68	
WAIHEA KOHALA	MAX	73	73	69	75	74	69	72	73	73	71	72	73	72	75	73	74	76	72	74	74	74	73	74	72	72	72	74	75	76		
	MIN	58	57	54	57	56	54	55	56	57	54	57	54	46	54	56	51	55	55	56	57	54	55	54	51	60	58	53	54	50		

EVAPORATION AND WIND

Station		Day Of Month																														Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
* * *																																
ISLAND OF KAUAI																																
LIHUE WSO 1020.1	EVAP	-	-	.15	.36	.44	.39	.42	.50	.36	.39	.52	.37	.38	.33	.21	-	.14	.39	.48	.21	.43	.28	.30	.28	.27	.40	.28	*	*	.83	
	WIND	105	210	129	146	199	231	220	218	237	268	233	141	113	74	64	37	60	141	-	-	119	142	132	183	189	188	155	7	10		
	MAX	85	84	85	88	86	81	82	84	83	81	82	84	87	87	83	78	81	88	85	83	84	86	85	85	83	85	84	84	84	89	
	MIN	63	63	61	61	62	63	63	63	63	63	62	63	64	64	60	62	63	64	64	64	63	63	64	64	63	64	65	64	63	62	
* * *																																
ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.33	.30	.30	.25	.30	.40	.25	.34	.36	.36	.37	.40	.35	.29	.27	.15	.14	.24	.30	.30	.30	.30	.33	.30	.27	.30	.30	.22	.25		
	WIND	51	37	32	33	41	55	47	44	56	58	47	33	30	29	46	41	32	30	47	28	39	41	41	43	36	50	42	28	21	33	
	MAX	90	91	90	87	90	91	85	92	90	89	90	92	91	90	91	84	83	90	90	89	92	92	91	92	89	91	91	90	92	89	
	MIN	64	66	63	6																											

DAILY PRECIPITATION

HAWAII
LATE REPORTS

Station	Total	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • • JANUARY 1971 MOUNT WAIALEALE 1047	30.73	.55		.87	1.93	.71		1.06	.39	.39	1.10	.28	.31	1.69	1.69	.43	.04			.83	1.65	1.06	.04				2.36	4.92	.79	.04		7.60
• • • FEBRUARY 1971 MOUNT WAIALEALE 1047	12.81	.16	.43	.24	.12	.08	.04							.24	1.22			.12	2.20	.35	.24	.59	2.09	3.07	.20		.16	1.26				

CORRECTIONS

DATE	TABLE	STATION	CORRECTIONS
MAY 1971	ISLAND OF MAUI DAILY PRECIPITATION	PUOHOKAMOA 2343	TOTAL 69.40, 12TH 55.60
ANNUAL SUMMARY 1970	ISLAND OF HAWAII TOTAL PRECIPITATION & DEPARTURES FROM NORMAL	DIVISION	DELETE ANNUAL PRECIPITATION DEPARTURE

STATION INDEX

HAWAII
JUNE 1971

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE I	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE I	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII:																									
MOUNTAIN VIEW 91	6592	02	PUNA	2	19 33	155 07	1530	8A	8A				PUNA SUGAR CO	WAIKONOUA 178.6	9350	01	N KOHALA	1	20 08	155 47	3930	7A	8A	KAHUA RANCH	
NALEMU 14	6588	03	KAU	3	19 04	155 35	673	8A	8A				HUTCINSON SUGAR CO	WAIHEA KOHALA	9354	05	S KOHALA	5	20 00	155 40	2665	8A	8A	HAWAIIAN AIRLINES	
NAROPU 28	6597	04	S KOHA	4	19 28	155 55	395	7A					KONA EXPERIMENT STA												
NAUHU FOREST 38.8	6731	02	PUNA	2	19 19	155 08	1400	VAR					HAWAII VOLCANOES NAT PA												
NIULI 119	6804	01	N KOHALA	1	20 14	155 45	75	8A					KOHALA SUGAR CO												
NOHALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A				LAUPAHOE SUGAR CD												
OPINUKAHE 224.1	7106	04	S KOHA	4	19 18	155 33	1270	7A	7A				HISS C LEONARD												
ORCHID LAND EST 91.5	7185	02	PUNA	2	19 34	155 00	445	VAR					BOARD OF WATER SUPPLY												
PAHOAHO 217	7204	01	HAWAIIA	1	20 25	155 24	415	7A					PARAKAU SUGAR CD												
PAKULU 221	7312	01	HAWAIIA	1	20 03	155 22	800	7A					HAWAIIA HILL CO												
PAHALA 21	7421	08	KAU	8	19 12	155 29	870	8A	8A				HAWAIIAN AGG CO												
PAHOA 65	7457	02	PUNA	2	19 30	154 57	870	8A	8A				PUNA SUGAR COMPANY												
PAHOA 37	7643	03	KAU	3	19 22	155 28	9000	VAR					HAWAIIAN RANCH CO. INC.												
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 08	200	7A					MAUNA KEA SUGAR CO.												
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270	7A					MAUNA KEA SUGAR CO.												
PEPEKEO MAKA 144	8000	02	S HILO	2	19 41	155 05	100	7A					PEPEKEO SUGAR CO												
PILINGUA 89	8091	02	S HILO	2	19 44	155 10	1730	VAR					STATE DIV OF FORESTRY												
POHAKULUA 107	8063	02	HAWAIIA	1	19 45	155 32	6511	VAR					STATE DIVISION OF PARKS												
PUKO 95.1	8180	05	KOHALA	5	19 59	155 10	5	8A	8A				EMERY H. RAPP												
PUU KIME 120	8393	01	HAWAIIA	1	19 54	155 24	7750	VAR					KUKAIAU AANCH CD												
PUU LAHU 102.1	8452	05	HAWAIIA	5	19 50	155 36	7440	VAR					STATE DIV OF FISH-GAME												
PUU LEHUA 73	8460	04	N KOHA	4	19 34	155 49	4880	VAR					GREENWELL RANCH												
PUU MAI 113	8515	01	HAWAIIA	1	19 55	155 24	6940	VAR					KUKAIAU RANCH CD												
PUU DD 82	8553	02	S HILO	2	19 44	155 23	6340	6A					ODN WINTERS												
PUU MAWA 94.1	8555	05	N KOHA	5	19 47	155 51	2520	7A					DILLINGHAM RANCH INC												
SADOLE ROAD 1 84	8594	02	S HILO	2	19 42	155 12	2340	VAR					BOARD OF WTR SUPPLY												
SOUTH POINT CORRAL 3	8679	03	KAU	3	18 57	155 41	500	VAR					HAWAIIAN RANCH COMPANY												
UMUKOA 114	8790	01	HAWAIIA	1	19 59	155 23	3420	7A					KUKAIAU RANCH CD												
UPULU POINT USCG 159.2	8800	01	N KOHALA	1	20 15	155 93	61	8A	8A				U S COAST GUARD												
WAIKAEA SCO 88.2	9029	02	S HILO	2	19 40	155 08	1050	7A					SHINICHI KANEHIRD												

- 1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIRECTIONAL UNITS: Unless otherwise indicated, directional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind direction and speed in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation", "Daily Temperature", and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: For all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for date of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month

J "Supplemental Data" table.

M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

VI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

* Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either closed or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposures, etc., of substations through 1957 may be found in the publication "Sub-station History" for this State, price 35 cents. Similar information for Regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual: \$2.50 per copy. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

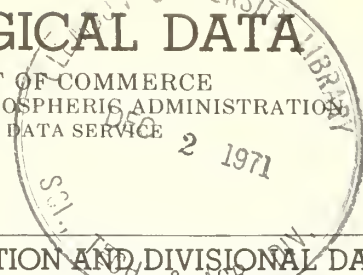
CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

JULY 1971

Volume 67 No. 7



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days			Total	Departure From Normal	Greatest Day	Date	Snow/Sleet			No. of Days				
										10° or Above	32° or Below	37° or Below					Total	Max. Depth on Ground	Date	1.00 or More	.50 or More	1.00 or More		
																							10° or Below	
* * * ISLAND OF KAUAI																								
ANAHOLA 1114	A	72.9	52.8	62.9		76	31+	45	19+		0	0	0	0	2.50	.11	.68	2	.0	0		5	1	0
KANALOHULUHULU 1075	A										0	0	0	0	1.67				.0	0		0	0	0
KAPAA STABLES 1104	A										0	0	0	0	1.58				.0	0		0	0	0
KILAUEA FIELDO 17 1135	A										0	0	0	0	2.70	- 4.01	.74	9	.0	0		5	2	0
KILAUEA POINT 1133	A	80.4	71.7	76.1		82	26	69	10+		0	0	0	2.32				.0	0		0	0	0	
* * * ISLAND OF OAHU																								
KOOLA 936	A														2.82	- 2.24			.0	0				0
LTHUE WSD 1020.1	//R	84.6	74.2	79.4	1.8	86	31+	70	17+		0	0	0	0	.84	- 1.10	.15	30	.0	0		4	0	0
MANA 1026	A	88.4	67.3	77.9	.0	90	24+	65	10+		5	0	0	0	.18	-.38	.11	12	.0	0		1	0	0
N WAILUA OITCH 1051	A														8.46				.0	0				0
PH WAINIHA 1115	A														4.71	- 5.37	1.10	11	.0	0		9	4	1
* * * ISLAND OF MOLOKAI																								
PUEHU RIOGE 1040	A														.18		.18	11	.0	0		1	0	0
WAHIAWA 930	A														1.30	-.39	.40	9	.0	0		0	0	0
WAIHI LOWER 1054	A	81.7	65.7	73.7		88	28	61	26+		0	0	0	0	5.19		.98	11	.0	0		13	2	0
WAIHEA 947	A														.08	-.39	.05	12	.0	0		0	0	0
* * * ISLAND OF LANAI																								
ISLAND				74.0											2.47				.0	0				0
* * * ISLAND OF MAUI																								
HONOLULU OBSERV 702.2	R	85.0	72.7	78.9	.1	87	26+	70	17+		0	0	0	0	.00		.00	7	.0	0		0	0	0
HONOLULU WSPD 703	R														.04	-.40	.03	7	.0	0		0	0	0
KAHUKU 912	A														.46	- 1.43			.0	0		0	0	0
KANEOME MAUKA 781	A	82.4	70.6	76.5	.0	85	30	66	3		0	0	0	0	1.43	- 2.88	.33	30	.0	0		6	0	0
KOOLA OAM 833	A														8.63	- 1.15	3.31	8	.0	0		0	0	2
* * * ISLAND OF HAWAII																								
LUALUALEI 804	A	85.5	71.1M	78.3M		88	26	65	2		0	0	0	0	.25		.17	8	.0	0		1	0	0
MAKAPUHI POINT 724	A	79.1	69.8	74.5		85	23	68	10+		0	0	0	0	.96	-.12	.85	2	.0	0		1	1	0
NUUANU RES 4 783	A														2.42	- 6.23	.88	10	.0	0		7	1	0
OPAUELA 870	A	81.1	66.2	73.7	1.5	85	10	64	2		0	0	0	0	.93	- 2.37	.54	8	.0	0		2	1	0
PAOLO VALLEY 718	R														2.86	- 7.95	.48	10	.0	0		10	0	0
PRI WAHIAWA 820.2	A	84.6	65.3	75.0		88	27	61	27+		0	0	0	0	.72		.52	8	.0	0		1	1	0
WAHIAWA OAM 863	A														.77		.50	8	.0	0		1	1	0
WAIHOLE 837	A														3.70	- 7.24			.0	0				0
WAIALEE 896.3	A														.15	-.59	.13	8	.0	0		1	0	0
WAIALUA 847	A	85.3	65.2	75.3	-.9	88	28+	61	29+		0	0	0	0	.10		.04	8	.0	0		0	0	0
WAIKIKI 717.2	A	85.9	71.5	78.7		88	27+	68	26+		0	0	0	0	.46		.16	2	.0	0		2	0	0
WAIMANALO EXP FARM	A	83.3	71.7	77.5		85	30+	69	26+		0	0	0	0	.10	-.57	.05	8	.0	0		0	0	0
WAIKAMU 750	A														.10		.05	8	.0	0		0	0	0
* * * ISLAND OF HONOLULU																								
ISLAND				76.5											1.41				.0	0				0
* * * ISLAND OF MOLOKAI																								
KUALAPUU 534	A														.24	-.64	.11	10	.0	0		1	0	0
HAPULEHU 542	A														.95	- 1.99	.19	29	.0	0		3	0	0
MAUNALO 511	A														.04	- 1.22			.0	0		0	0	0
MOLOKAI AP 524	A	82.7	69.7	76.2		86	4	65	27+		0	0	0	0	.02		.01	24+	.0	0		0	0	0
* * * ISLAND OF LANAI																								
ISLAND				76.2											.31				.0	0				0
* * * ISLAND OF MAUI																								
LANAI CITY 672	A	76.8	65.3	71.1	.0	79	22+	61	2		0	0	0	0	.39	- 1.33	.09	8	.0	0		0	0	0
* * * ISLAND OF HAWAII																								
ISLAND				71.1											.39				.0	0				0
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A														2.14	- 1.99	1.04	8	.0	0		4	2	1
HALEAKALA RS 338	A	67.0	47.3	57.2		73	20	39	29		0	0	0	0	.94		.31	8	.0	0		3	0	0
HANA AIRPORT 355	A	84.7	67.5	76.1		87	23+	64	29+		0	0	0	0	2.46		.70	28	.0	0		6	1	0
HONOKOHU 493	A														.85	- 1.53	.30	30	.0	0		0	0	0
KAANAPALI AIRPORT	A	84.0	67.0	75.5		86	30	63	29+		0	0	0	0	.22		.17	8	.0	0		1	0	0
KAHULUI WSD 398	R	87.4	68.5	78.0	-.3	91	3	59	27		2	0	0	0	.09	-.34	.05	9	.0	0		0	0	0
KAILUA 446	A	78.3	66.9	72.6	-.1	82	29	63	2		0	0	0	0	5.09	- 5.06	1.15	30	.0	0		14	4	1
KEANAE 346	A														9.50	- 10.37			.0	0				0
KIPAHULU 258	A														2.42	- 7.11	.37	7	.0	0		8	0	0
KULA SANATORIUM 267	A	73.6	56.5	65.1	-.9	77	19+	54	2+		0	0	0	0	.11	- 1.95	.04	16	.0	0		0	0	0
LAHAINA 361	A	86.9	67.9	77.4		90	14	65	29		1	0	0	0	.02	-.09	.01	30+	.0	0		0	0	0
PAIA 406	A														.53	- 1.36			.0	0		0	0	0
WAILUKU 386	A					84	6	67	2		0	0	0	0	.06	- 1.65	.04	30	.0	0		0	0	0
* * * ISLAND OF HAWAII																								
ISLAND				71.7											1.88				.0	0				0
* * * ISLAND OF HAWAII																								
HAINA 214	A	81.5	67.1	74.3	.2	84	27+	64	26		0	0	0	0	2.99	- 1.47	.99	13	.0	0		12	6	3
HAWAII VOLCNS NP HO 54	R	89.4	54.4	61.9	- 1.0	74	30+	51	2		0	0	0	0	6.25	- 1.13	1.50	30	.0	0		13	4	2
HILO WSD 87	R	84.1	69.0	76.6	1.7	87	4+	64	26		0	0	0	0	4.13	- 5.69	.66	29	.0	0		0	0	0
HUEHUE 92.1	A														2.13	-.37	.52	15	.0	0		0	0	0
KAINALIUI 73.2	A	76.7	63.8	70.3		81	11	60	27+		0	0	0	0	8.51	- 1.04	1.47	26	.0	0		18	6	2

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
										80° or Above	31° or Below	31° or Below	30° or Below											
KEAAU 92	80.6	66.3	73.5	- .9	83	30+	64	27+		0	0	0	0	5.54	- 4.60	1.08	30	.0	0		14	4	1	
KEALAKEKUA 26.2	77.0	64.3	70.7		81	14	60	1		0	0	0	0	7.56		1.18	27	.0	0		16	4	3	
KONA (KAILUA) 68.3	83.9M	70.6M	77.3M		85	28+	68	28+		0	0	0	0	3.02		.0	0	.0	0		7	3	0	
KUKUIHAELE HIC 199					70	13	42	30+		0	0	0	0	3.26	- 2.28	.98	13	.0	0		12	3	3	
KULANI CAMP 79	62.7	47.6	55.2											7.92		2.02	30	.0	0					
PAHALA 21					87	13	60	27+		0	0	0	0	1.24	- .28	.00		.0	0				0	0
POHAKULOA 107														.00		.00		.0	0				0	0
PUAKO 95.1					89	12+	66	19		0	0	0	0	.03		.02	30	.0	0				0	0
PUU WAAWAA 94.1	86.5	71.1	78.8											2.75	.65	2.18	15	.0	0				3	1
UMIKOA 118														3.08	.09	.98	30	.0	0				5	3
WAIKAE SCD 88.2														11.56		2.80	30	.0	0		17	6	4	
ISLAND			71.0											4.37				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 9+ AT 2 STATIONS

LOWEST TEMPERATURE: 31° ON THE 1ST AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 16.65 INCHES AT MOUNT WAIKAELE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 17 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.71 INCHES ON THE 15TH AT LANIHAU 68.2, HAWAII

SPECIAL WEATHER SUMMARY

In most of the State dry weather continued, with some areas reporting their fifth or sixth successive month of below-normal rainfall. Meanwhile, a succession of tropical storms approaching the islands from the east held out, at the same time, the hope of needed rain and the threat of destructive winds and floods.

DENISE, the first of these storms, formed in the warm waters off Central America, birthplace for many of the Eastern Pacific's tropical storms, and travelled westward toward Hawaii, covering 3,400 miles in 9 days. En route, she grew to a full-fledged hurricane, attaining maximum winds of 135 m.p.h. on the evening of the 8th, but then weakened rapidly, and at her closest approach to the State, 150 miles south of Hawaii Island on the 13th, was but a shadow of her former self. Nevertheless, DENISE's moisture-laden clouds reaching northward to Hawaii Island brought more than an inch of rain to the Hamakua District's parched pastures and sugar plantations, while in the Kailua-Kona area, flooding streams blocked Kuakini Highway, Alii Drive, and Middle Road and stranded motorists.

Tropical Storm ELEANOR came hard on the heels of DENISE, but never attained full hurricane strength before dying on the 11th, still some distance east of the islands.

In their life cycles and tracks, DENISE and ELEANOR closely resembled Hurricanes LORRAINE and MAGGIE, which had threatened Hawaii in August 1970, nearly a year earlier.

Beneficiaries of Hurricane DENISE, other than the farmers and ranchers of Hawaii Island, were Sheila Scott, a British aviatrix flying solo around the world, and Windward Passage, winner of the Transpacific Yacht Race -- both of whom, bound

from San Francisco to Honolulu, were helped on their way by the strong easterly winds along DENISE's northern fringe.

Except in the Anahola to Kealia coastal strip in eastern Kauai, the Launiupoko area in southwestern Maui, and parts of Hawaii Island, the month's rainfall was everywhere well below normal, with most gages on Oahu, Molokai, Lanai, and Maui reporting less than half, and many less than a quarter, of their July means. On Hawaii Island, despite DENISE's beneficial rains, and another inch or so which further improved pasture conditions in the Hamakua District on the 29th, monthly totals in the Kohala, Hamakua, and Hilo Districts were still below normal, and only a few gages in Kona, Kau, and at middle elevations on Mauna Loa exceeded their July average.

By month's end heavy supplementary feeding was still needed in Hamakua and, except for parts of North Kona, all other pasture areas in Hawaii Island were also in need of rain. In Maui's Upper Kula District, water storage facilities were almost empty, with little inflow from supply sources, and supplementary water was being pumped up from Lower Kula. The Kalae area of Molokai was in similar straits, with water being trucked in to the storage facilities.

Also worthy of note was the sighting from Ke-ahole Airport, North Kona, Hawaii Island, on the 30th, of 6 funnel clouds moving northward 10 to 15 miles to the west. The funnels, described as dark and rope-like, were accompanied by rain-showers and appeared to reach the ocean surface from cumulus clouds whose tops and ragged bases were estimated at 5,500 and 1,500 feet, respectively.

Stations With Less Rain in July 1971
than in Any Previous July

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least July Total	July 1971
		(Inches)	(Inches)
KAUAI			
Iliiliula Intake	37	8.00	7.93
OAHU			
Honolulu Substation (Federal Bldg.)	67	0.13	0.11
HSPA Experiment Station	54	0.63	0.32

SPECIAL WEATHER SUMMARY - Continued

Stations With Less Rain in July 1971
than in Any Previous July

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least July Total	July 1971
OAHU - Continued		(Inches)	(Inches)
Kahuku	81	0.78	0.46
Kalihi Reservoir Site	44	2.70	2.24
Kapalama	50	1.35	0.50
Manoa Tunnel 2	44	5.07	3.08
Nuuanu Reservoir 4	67	3.66	2.42
Palolo Valley	44	4.55	2.86
Pauoa Flats	46	5.94	4.38
St. Stephen's Seminary	29	2.45	1.18
Waikane	56	4.52	3.95
MOLOKAI			
MaunaIoia	45	0.25	0.04
HAWAII			
Hilo Airport	29	4.25	4.13

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DAILY PRECIPITATION

HAWAII
JULY 1971

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * * ISLAND OF KAUAI																																		
ANAOHOLA 1114	A	2.50	.51	*	*	*	.50	.12	.07	*	*	1.15	.01	.02	*	*	*	*	.07	*	*	*	*	*	*	*	*	*	*	*	*	.06	*	*
BRYCESWOOD STA 985	A	2.68	.05	*	*	*	.39	.05	.76	.39	*	*	.73	.01	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.06	*	*
EAST LAWA 934	A	2.99	.10	*	*	*	.51	.07	.61	.53	*	*	.84	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.29	*	*	
ELEELE 927	A	.86	*	*	*	*	.15	.03	.27	.11	*	*	.19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.11	*	*	
HAAUULA 1110	A	2.29	.25	*	*	*	.32	.09	.15	.10	*	*	1.15	.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.03	.11	*	*	
HALENANAOH 1006	A	2.91	*	*	*	*	.86	.06	.40	.43	*	*	.51	.04	.04	*	*	*	*	*	*	*	*	*	*	*	*	.05	.05	.39	*	*		
HUKIPU 945	A	.25	.10	*	*	*	.02	.19	.05	.02	*	*	.13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
LIILUULU INTAKE 1050	A	7.93	*	*	*	*	.59	.32	.85	.82	*	*	2.75	.05	.06	*	*	*	*	*	*	*	*	*	*	*	*	.15	.04	.03	.34	.74	*	*
INTAKE WAINIHA PC 1086	A	6.72	*	*	*	*	1.50	*	*	*	*	2.25	*	.90	*	*	*	*	*	.12	.03	.02	*	*	*	*	*	*	*	.03	.34	.74	*	*
KANALDHULUULU 1075	A	1.67	.68	.21	.02	*	.03	.04	.13	.38	.11	*	*	*	*	*	*	*	*	.07	*	*	*	*	*	*	*	*	.01	*	.03	.03	*	
KANEHA RESERVOIR 1092	A	3.30	.04	.45	*	*	.24	.03	.23	.25	*	*	1.60	.03	.11	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	*	.03	.03	*	
KAPAA STABLES 1104	A	1.58	.12	*	*	*	.16	.18	.20	.35	*	*	.42	.04	.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.11	*	*	*	
KEALIA 1112	A	2.42	1.05	*	*	*	.20	.05	.21	.20	*	*	.50	.02	.03	*	*	*	*	*	*	*	*	*	*	*	*	.02	.05	.05	*	*	*	
KEKAHA 944	A	2.40	.10	*	*	*	.02	.01	.35	.35	*	*	.09	.02	.06	*	*	*	*	*	*	*	*	*	*	*	*	.02	.07	.14	.24	*	*	
KILAUEA 1134	A	1.40	.10	*	*	*	.01	.01	.35	.35	*	*	.94	.02	.06	*	*	*	*	*	*	*	*	*	*	*	*	.02	.07	.14	.24	*	*	
KILAUEA FIELD 17 1135	A	2.70	.07	.16	*	*	.05	.01	.10	.26	*	*	1.73	.03	.06	*	*	*	*	*	*	*	*	*	*	*	.02	.05	*	.07	.01	.02	.22	*
KILAUEA POINT 1133	A	2.32	.07	.16	*	*	.02	.16	.23	.74	.48	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	.01	.05	*	.07	.01	.11	.03	*	*
KILOA 936	A	2.82	.03	*	*	*	.62	.08	.42	.43	*	*	.85	.08	.05	*	*	*	*	*	*	*	*	*	*	.02	.03	.03	.14	.23	.03	*	*	
KILOA MAUKA 994	A	3.63	.03	*	*	*	.90	.10	.54	.48	*	*	.67	.08	.05	*	*	*	*	*	*	*	*	*	*	.02	.03	.03	.14	.23	.03	*	*	
KOLOKO RES 1137	A	3.21	.15	*	*	*	.06	.01	.40	.32	*	*	1.84	.05	.03	.02	*	*	*	*	*	*	*	*	*	.10	.03	.03	.23	*	*	*	*	
KUKUIULA 935	A	1.54	.07	*	*	*	.50	.02	.25	.26	*	*	.40	T	*	*	*	*	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
LIHUE VARIETY STA	A	2.85	.41	.05	*	*	.07	.15	.14	.17	.35	.22	.69	.02	.04	*	*	*	*	.01	*	*	*	*	.08	.03	.03	.02	.03	.02	.10	.12	*	
LIHUE 1020	A	1.69	.33	*	*	*	.13	.09	.21	.20	*	*	.25	.02	.04	*	*	*	*	.01	*	*	*	*	.08	.03	.03	.02	.03	.01	.38	*	*	
LIHUE WSD 1020.1	//R	.84	.14	.13	T	T	.02	.01	.06	.07	.09	.14	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
MAKAHUNA POINT 940.1	A	2.38	.12	.64	*	*	.03	.08	.09	1.08	.01	*	.02	*	*	*	*	*	.02	*	*	*	*	*	*	.01	.04	.06	.04	.06	*	*	*	
MAKAHELI 965	A	.53	.06	*	*	*	.01	.01	.10	.01	.06	.12	.11	*	*	*	*	*	*	*	*	*	*	*	*	.16	.16	.16	.16	.16	.16	.16	.16	.16
MAKAHELI 1025	A	1.18	.07	*	*	*	.19	.08	.27	.26	*	*	.42	.04	.04	*	*	*	*	.01	*	*	*	*	.08	.03	.03	.02	.02	.02	.02	.02	.02	
MOHIHI UPR CROSS 1083	A	3.53	1.00	.08	.15	*	.08	.46	.38	.54	.61	*	.94	.03	*	*	*	*	*	*	*	*	*	*	*	.03	.03	.03	.03	.03	.03	.03	.03	.03
MOLOAA 1145	A	1.48	.21	*	*	*	.12	.08	*	*	*	*	.94	.03	*	*	*	*	*	*	*	*	*	*	*	.10	.03	.03	.10	.10	.10	.10	.10	.10
MOUNT WAIALALE 1047	R	16.65	.28	.91	.12	.47	.47	.71	1.14	1.54	1.54	3.11	.28	.28	.59	.08	.16	.35	.16	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	
NIU RIDGE 1035	A	.13	.46	*	*	*	.80	.46	1.40	1.80	*	*	2.16	.20	.30	*	*	*	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	
N WAILUA OITCH 1051	A	8.46	.46	*	*	*	.80	.46	1.40	1.80	*	*	2.16	.20	.30	*	*	*	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	
PH WAINIHA 1115	A	4.71	.10	.51	*	*	.02	.11	.05	.44	.46	.79	1.10	.01	.05	*	*	*	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
PRINCEVILLE RANCH 1117	A	.16	.30	*	*	*	.06	.48	.49	*	*	1.57	.13	.04	*	*	*	.08	*	*	*	*	*	*	*	.03	.03	.03	.03	.03	.03	.03	.03	.03
PUEHU RIDGE 1040	A	.18	.05	*	*	*	.52	.14	.29	.17	*	.18	.40	.06	.04	*	*	*	.04	*	*	*	*	*	.04	.05	.05	.05	.05	.05	.05	.05	.05	.05
PUIHI 1013	A	2.21	.03	*	*	*	.19	.08	.27	.26	*	*	.42	.04	.04	*	*	*	.05	*	*	*	*	*	.08	.03	.03	.06	.06	.06	.06	.06	.06	
RESEDAVILL 6 1004	A	3.37	.03	*	*	*	.18	.05	.37	.40	*	.23	.04	.04	*	*	*	.05	*	*	*	*	*	.08	.03	.03	.06	.06	.06	.06	.06	.06	.06	
WAIHANA 930	A	1.30	.03	*	*	*	.18	.05	.37	.40	*	.23	.04	.04	*	*	*	.05	*	*	*	*	*	.08	.03	.03	.06	.06	.06	.06	.06	.06	.06	
WAIHANA MOUNTAIN 990	A	7.25	.03	*	*	*	.18	.05	.37	.40	*	.23	.04	.04	*	*	*	.05	*	*	*	*	*	.08	.03	.03	.06	.06	.06	.06	.06	.06	.06	
WAIHI LOWER 1054	A	5.19	.66	.19	.09	.12	.24	.30	.44	.46	.41	.98	.13	.02	.06	*	*	*	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	
WAIHI UPPER 1052	A	7.36	1.20	.28	.23	.24	.16	.30	1.02	.55	.85	1.10	.14	.03	.12	*	*	*	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	
WAIHANA 943	A	.13	.13	*	*	*	.01	.12	.09	.11	*	.09	.44	.04	*	*	*	.10	*	*	*	*	*	*	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
WAILUA KAI 1065	A	1.20	.08	*	*	*	.03	.12	.09	.11	*	.09	.44	.04	*	*	*	.10	*	*	*	*	*	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
WAIHANA 947	A	.08	.08	*	*	*	.03	.12	.09	.11	*	.09	.44	.04	*	*	*	.10	*	*	*	*	*	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
WEST LAWA 931	A	1.79	.03	*	*	*	.36	.08	.26	.43	*	.41	.02	*	*	*	*	*	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	
* * * ISLAND OF OAHU																																		
BERETANIA PUMPING STA	A	.24	T	*	*	*	.02	.05	.01	.15	*	.05	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
CAMPBELL LND PK 702.5	A	.05	.04	*	*	*	.01	.01	.17	*	.03	.03	.01	.02	.01	*	*	*	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
CAMP 84 807	A	.27	.04	*	*	*	.01	.01	.17	*	.03	.03	.01	.02	.01	*	*	*	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
CHURCH COLLEGE LAIE	A	.81	.03	.04	.03	*	.15	.02	.15	.09	T	.01	.02	.01	.05	*	*	*	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	
COCONUT ISLAND 840.1	A	.60	.13	*	*	*	.03	.14	.01	.01	.13	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
EWA PLANTATION 741	A	.00	.10	*	*	*	.26	.03	.44	*	*	.52	.04	.33	*	*	*	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06
HELEMANO INTAKE 881	A	1.52	.10	*	*	*	.26	.03	.44	*	*	.52	.04	.33	*	*	*	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06
HOKULUA 725.2	A	.39	.06	*	*	*	.06	.03	.06	.06	*	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06
HONOLULU OBSERV 702.2	A	.00	.04	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
HONOLULU WSPD 703	R	.04	.04	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
HONOLULU SUBSTA 704	R	.11	.11	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
H S & J EXP STA 707	A	3.32	.03	*																														

DAILY TEMPERATURES

HAWAII
JULY 1971

Station	Day of Month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																	
HANALOHULUHULU 1075	MAX MIN	73 55	68 51	70 48	73 54	72 54	72 58	70 57	71 55	73 55	72 60	71 58	72 58	71 55	72 55	74 51	73 46	75 45	75 51	73 51	75 54	74 57	75 55	74 46	73 46	73 46	74 49	76 49	74 49	75 49	76 57	72.9 52.8	
KILAUEA POINT 1133	MAX MIN	80 73	80 72	81 72	81 71	81 73	80 71	81 77	80 69	81 71	80 69	79 72	81 70	80 71	80 73	81 71	81 73	81 71	81 73	81 71	81 73	80 72	81 71	81 72	81 72	81 73	82 72	80 73	81 72	80 72	81 73	80 73	80.4 71.7
LIHUE WSO 1020.1	MAX MIN	83 70	83 71	83 76	84 74	83 74	85 73	84 72	85 71	84 74	84 76	84 76	85 76	85 76	85 75	85 72	85 70	85 75	85 75	85 73	85 73	85 73	85 73	86 74	85 74	85 74	85 74	85 74	86 74	86 73	85 73	86 77	84.6 74.2
MAWAHUNA POINT 949.1	MAX MIN	83 69	84 68	88 69	83 70	84 73	81 70	82 75	84 70	82 71	84 71	84 71	84 74	84 74	84 68	84 70	81 69	85 69	85 69	84 69	85 71	84 72	85 73	84 74	85 65	84 74	85 71	88 75	85 74	87 73	82 74	84.3 71.7	
HANA 1026	MAX MIN	88 66	89 65	86 68	87 67	88 67	89 68	89 67	88 66	88 66	87 65	88 70	87 69	87 69	89 69	88 69	89 68	89 67	89 67	89 67	89 68	89 68	89 68	89 68	89 68	89 68	89 68	89 68	88 68	88 68	88 68	88 67	88.4 67.3
NIU RIDGE 1035	MAX MIN	81 63	80 63	80 62	81 62	81 63	82 64	81 63	82 64	82 63	81 62	82 63	83 63	82 63	84 64	83 63	82 63	81 63	82 63	82 63	82 63	82 63	81 62	82 63	83 64	82 63	83 62	84 65	83 62	83 62	84 63	82 63	82.1 63.3
WAIAMI LOWER 1054	MAX MIN	82 61	82 61	81 64	81 65	79 67	80 68	80 67	79 66	79 66	80 69	80 68	81 70	81 69	81 68	82 66	82 66	82 66	81 65	83 65	81 64	82 66	82 66	82 66	82 66	82 66	82 66	84 66	85 66	83 67	83 67	83 67	81.7 65.7
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	82 64	82 64	83 65	85 67	85 67	85 84	84 70	84 68	84 68	85 69	85 68	85 69	86 73	85 68	85 69	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	84.8 67.0
HONOLULU WSO 703	MAX MIN	84 70	87 71	85 72	84 74	84 73	84 73	83 72	84 72	83 72	85 73	83 75	85 74	84 74	85 73	86 73	87 72	85 70	86 72	85 72	86 73	86 73	86 73	86 74	85 73	85 73	85 73	85 73	85 73	85 73	85 73	85 73	85.0 72.7
HONOLULU SUBSTA 704	MAX MIN	80 72	83 74	82 74	81 74	81 74	81 73	81 72	80 72	81 72	80 73	81 75	81 74	82 75	79 74	80 73	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81.4 73.4
KAHUKU 912	MAX MIN	83 73	83 70	83 70	83 72	83 72	83 71	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83.3 72.7
KANEHOE MAUKA 781	MAX MIN	83 70	83 69	83 68	81 69	81 72	83 70	80 69	82 71	80 74	80 71	81 72	83 72	82 73	82 72	84 71	82 69	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	82.4 70.6
LUALUALEI 804	MAX MIN	84 66	85 65	82 67	86 74	84 67	85 68	84 67	84 68	84 68	83 75	87 75	84 75	87 76	86 74	86 73	86 71	86 72	86 70	86 72	86 72	86 72	86 72	86 72	86 72	86 72	86 72	86 72	86 72	86 72	86 72	86 72	85.5 71.1
MAKAPUU POINT 724	MAX MIN	81 69	81 68	81 68	80 69	77 69	77 72	78 69	76 71	77 69	78 69	79 72	79 69	79 71	79 70	81 71	81 71	79 71	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79 69	79.1 69.8
OPAELUA 870	MAX MIN	83 65	82 64	81 65	80 65	78 65	81 65	79 65	78 65	78 65	80 65	80 65	81 65	82 65	83 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	81.1 66.2
PRI WAIHANA 820.2	MAX MIN	85 61	85 62	82 65	84 64	85 66	85 66	84 67	84 65	82 65	81 67	84 70	85 67	85 65	85 65	84 65	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	84.6 65.3
WAIALEE 896.3	MAX MIN	83 68	83 69	83 69	83 72	83 72	83 71	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83.3 71.7
WAIALUA 847	MAX MIN	88 61	86 63	85 64	85 66	84 66	84 66	84 66	84 66	82 64	86 67	84 67	86 67	85 65	85 65	84 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85 63	85.3 65.2
WAIKIKI 717.2	MAX MIN	83 68	84 69	87 69	85 72	84 72	86 72	84 72	85 72	84 72	85 73	87 74	87 74	86 73	87 71	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	85.9 71.5
WAIMANALO EXP FARM	MAX MIN	83 72	84 69	83 69	82 72	83 73	83 71	82 72	81 69	83 71	80 71	83 71	81 71	83 72	84 73	83 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	83.3 71.7
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	84 65	84 66	84 69	86 74	83 70	83 71	82 70	81 69	81 69	82 71	83 76	82 69	83 69	80 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82.7 69.7
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	78 63	79 61	79 63	79 64	77 64	78 66	78 66	76 65	77 67	78 64	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76.8 65.3
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	63 41	61 44	62 40	67 43	70 45	71 47	70 47	64 45	64 45	65 47	67 53	67 55	66 54	68 55	68 48	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	68 49	67.0 47.3
HALEAKALA SUMMIT 338.4	MAX MIN	53 38	56 41	62 48	59 48	63 48	65 48	62 44	56 37	55 36	54 42	56 42	60 42	54 40	55 44	59 44	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58 46	58.1 42.8
HANA AIRPORT 355	MAX MIN	85 65	86 65	86 70	86 67	84 70	84 70	85 73	85 68	83 68	83 68	82 68	80 70	84 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	84.7 67.5
KAANAPALI AIRPORT	MAX MIN	84 67	84 68	85 68	84 70	84 73	84 73	83 67	83 66	83 70	83 68	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83 67	83.0 67.0
KAPULUI WSO 398	MAX MIN	89 62	90 61	91 66	88 64	87 70	87 71	86 70	86 70	87 70	88 65	88 73	87 72	86 73	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88 72	88.4 68.5	
KAILUA 446	MAX MIN	79 65	78 63	79 65	77 66	78 66	80 66	80 66	77 66	78 66	78 66	78 66	78 66	77 67	77 67	75 65	78 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	79 65	78.3 66.9
KEAWAKAPU BEACH 260.2	MAX MIN	87 63	87 64	86 67	88 66	90 65	88 67	91 66	89 66	91 63	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88.9 65.0	

See Reference Notes Following Station Index

STATION INDEX

HAWAII JULY 1971

Main data table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
AUGUST 1971

Continued

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	80° or Above	70° or Above	60° or Above											90° or Below	80° or Below	70° or Below	60° or Below
KEAAU 92	82.5	65.5	74.0	- 1.1	86	15	63	10		0	0	0	0	3.02	- 8.73	.52	31	.0	0		10	1	0
KEALAKEKUA 26.2	78.4	63.8	71.1		82	31	62	28+		0	0	0	0	3.50		1.27	11	.0	0		6	3	1
KONA (KAILUA) 68.3	84.9M	69.8M	77.4M		86	31+	59	4		0	0	0	0	.86		.0	0	.0	0		0	0	0
KUKUIHAELE HIC 199														.88		.0	0	.0	0		3	0	0
KULANI CAMP 79	65.7	46.5	56.1		70	9	42	31+		0	0	0	0	2.81		.75	17	.0	0		8	2	0
PAHALA 21	83.2M	62.6M	72.9M	- 1.1	87	17	61	26+		0	0	0	0	.38	- 2.68	.35	11	.0	0		1	0	0
POHAKULOA 107														.47		.0	0	.0	0		0	0	0
PUAKO 95.1														.01		.01	14	.0	0		0	0	0
PUU WAAWAA 94.1	87.1	70.7	78.9		90	17	67	10		1	0	0	0	4.82	- 2.69	2.55	9	.0	0		4	3	2
UMIKOA 118														.74	- 4.32	.28	16	.0	0		3	0	0
WAIAKEA SCO 88.2														3.57		.80	16	.0	0		9	2	0
ISLAND			71.5											1.89				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 18+ AT 2 STATIONS

LOWEST TEMPERATURE: 29° ON THE 8TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 10.85 INCHES AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 10 STATIONS

GREATEST ONE-DAY PRECIPITATION: 2.55 INCHES ON THE 9TH AT PUU WAAWAA 94.1, HAWAII

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The dry spell of June and July continued unabated through August.

At this season the major source of rainfall is showers which form within the moist trade wind air as it ascends and traverses the mountain barriers of the various islands, and although the trades themselves occurred with their seasonal strength and frequency, the customarily associated showers were, for reasons not well understood, conspicuously light or lacking. Ideal as the resulting warm, sunny weather may have been for recreation, construction, and other outdoor activities, it was most unwelcome to ranching and agriculture, particularly in ordinarily wet areas where sugarcane is grown without irrigation, and to the suppliers and users of domestic water. Hardest hit was East Maui, which, unlike West Maui, is entirely dependent on rainfall, since no ground water has been discovered there, and particularly the Kula area and other sections of Haleakala's relatively dry western and northwestern slopes, for which windward East Maui, with its normally abundant rainfall (over 300 inches a year, in places) serves as a watershed. In some localities, such as Pukalani, shortages appeared to be compounded by the fact that population growth had outstripped water availability. In the Kula area, the water crisis involved about 3,500 people and 10,000 head of cattle, the latter alone consuming about 175,000 gallons daily.

As the month progressed, a number of effects were being noted and actions taken:

1) At Kalae, Molokai, water was being trucked in to 40 families, about 150 people. This had begun July 26.

2) By mid-month, conditions had become critical in the East Maui areas of Kula, Hana, Makawao-Pukalani, Kokomo-Kaupokalua, Haiku-Pauwela, and Haliimaile-Olinda. When water consumption remained high, despite appeals for voluntary conservation, rationing was imposed in Kula, watering of lawns was forbidden, and agricultural irrigation was restricted to twice-weekly 7-hour daylight periods. On August 30 irrigation was further restricted to only once weekly.

3) On August 19 the Maui County Board of Water Supply declared a drought and stipulated penalties for violating water-use schedules and regulations.

4) By August 25, Wailua Stream, Hana's main source of water, was completely dry. Water for domestic use in the District was restricted to periods totalling only 7 hours between 6 a.m.

and 8 p.m. and Wainapanapa State Park remained closed.

5) By August 25, the main sources of water for Upper Kula were nearly exhausted. The 1 million gallons impounded by Waikamoi Dam were gone. Waikamoi's two 15-million-gallon reservoirs contained only 2 feet (about 3 million gallons) of water, and the 11.5-million-gallon reservoir at Olinda was down to three-fourths of a million gallons. Fortunately, the Lower Kula system's 50-million-gallon capacity Piiholo Reservoir, near Makawao, was nearly full, and jury-rigged pumps borrowed from Civil Defense, plantations, and the East Maui Irrigation Company, were pumping water into the severely depleted Upper Kula system.

6) Also on August 25 the East Maui Irrigation Company reported that its ditches, which supply irrigation water to sugar plantations in the normally dry central valley, had delivered only two-thirds of their normal quantity during July, and that the June through August period had been the driest since 1901, when records began. The irrigation interval was lengthened to 16 days.

7) The Maui County Council formally expressed the need to find new ground water sources for East Maui and the Maui Planning Department deferred subdivision approvals in Kula and Hana pending the resolution of the water shortage problem.

8) As the month ended, Maui was considering asking the Governor to declare a drought emergency in order to make State and Federal funds available to the island.

The dry weather had a mixed effect on sugarcane. It was beneficial, in that it facilitated mechanical harvesting and improved juice quality, but, on the other hand, the deficiency of water during the peak growth months for sugarcane, a 2-year crop in Hawaii, could reduce next year's yield.

The dry spell was being felt elsewhere than on Maui. In the Papa-Milolii-Honomalino area of southwestern Hawaii Island, the extended dry weather had set back macadamia nut production, and water for agricultural purposes was being trucked in, at a cost of \$3,000 thus far this year. In the Kau District, sugarcane fields at lower elevations were drying out and planting was being postponed pending significant rain.

Over the State as a whole, as the accompanying maps show, only a scattering of rain gages out of the several hundred reporting exceeded their

SPECIAL WEATHER SUMMARY - Continued

average for the month, with gages in many areas reading well under half, or even under one-fourth of their monthly mean rainfall, for example, in the Kohala, Hamakua, and Kau Districts of Hawaii Island.

At Waikamoi Dam in the East Maui watershed, this year's May through August rainfall is the lowest since records began in 1911, (1931-1936 data missing), and only 30 percent of normal, as compared to 40 and 74 percent, respectively, during the droughts of 1953 and 1962.

Table I compares May through August rainfall for 1971 at a number of stations in Maui with that during the dry spells of 1953 and 1962. A considerable number of gages, many of them with 25 years of record or more, had substantially less rain in August 1971 than in any previous August. These are given in Table II. The number of days with measurable rain (one-hundredth inch or more) at a few major locations is listed in Table III.

T A B L E I
May-August Rainfall During Recent and Past
Periods of Extended Dry Weather

Island of Maui

Station	1953	1962	1971	Average	1971 Percent of Average
Haleakala BES	8.31	6.10	6.24	15.99	39
Haleakala Summit	--	4.55	1.19	5.44	22
Hana	11.92	--	6.40	17.28	31
Hana Airport	15.10	18.10	8.60	21.79	39
Kailua	34.40	46.60	16.50	38.95	42
Kihei	0.14	1.22	0.71	0.60	118
Kula	--	3.68	1.45	7.69	19
Kula Sanatorium	3.60	6.20	2.40	8.14	30
Lahaina	0.00	1.57	0.39	0.94	41
Olinda	4.50	3.70	2.30	7.83	29
Paakea	65.10	47.70	28.60	67.11	43
Ulupalakua Ranch	--	4.49	3.48	6.67	52
Waikamoi Dam	55.80	28.60	22.30	74.68	30
Wailuku	1.84	1.16	0.83	3.17	26

T A B L E II
Stations With Less Rain in August 1971
than in Any Previous August

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least August Total	August 1971
<u>KAUAI</u>		(Inches)	(Inches)
Ililiula Intake	37	8.40	6.63
<u>OAHU</u>			
Kapalama	50	0.83	0.71
Manoa Tunnel 2	44	4.04	2.82
Palolo Valley	43	2.44	2.14
Pauoa Flats	44	5.72	3.38

SPECIAL WEATHER SUMMARY - Continued

Station	Length of Record (Yrs.)	Previous Least August Total (Inches)	August 1971 (Inches)
<u>MAUI</u>			
Hana	51	1.80	0.61 *
Kailiili	47	1.79	1.38
Keanae	67	5.47	3.10
Lupi Upper	75	4.10	2.80
Nakalele	34	0.93	0.73
Paakea	67	5.75	4.16
Puohokamoa 2	47	6.60	3.40
Waikamoi	66	6.28	2.40
<u>HAWAII</u>			
Hakalau	80	2.90	2.73
Hilo Airport	29	4.15	2.66
Honohina	51	3.49	2.59
Kaalaiki	33	0.96	0.50
Keaau	71	3.77	3.02
Mountain View	71	3.82	3.34
Papaikou	73	4.11	3.41
Papaikou Mauka	46	7.05	5.23
Pepeekeo Makai	82	3.29	3.08
Piihonua	47	7.80	4.40

* -- Least in any month of record

T A B L E III
Number of Days with Measurable Rain
(.01 inches or more)

Station	August 1971	Average	Percent of Average August 1971
Hilo Airport	16	27	59
Honolulu Airport	7	7	100
Honolulu City	6	13	46
Kahului Airport	5	7	71
Lihue Airport	13	19	68

Saul Price
Regional Climatologist for Pacific Region
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY TEMPERATURES

HAWAII
AUGUST 1971

Station	Day of Month																															Average			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
• • •																																			
ISLAND OF KAUAI																																			
KANALOHILUHULU 1075	MAX MIN	70 57	70 57	73 57	74 59	70 56	71 50	70 53	70 50	71 50	69 49	74 52	76 57	76 58	71 57	77 53	70 59	73 58	74 57	75 57	72 54	71 54	72 51	73 51	74 50	73 51	76 50	77 50	71 49	73 52	75 55	78 57	72.9 54.0		
KILAUEA POINT 1133	MAX MIN	81 73	80 73	80 72	80 69	80 72	81 72	81 72	82 74	81 73	80 72	82 73	81 73	81 73	82 74	83 73	82 74	83 73	82 74	83 74	82 74	81 73	82 74	82 74	82 73	84 74	81 73	82 74	82 74	82 73	82 74	82 73	82 74	81.5 73.0	
LIHUE WSO 1020.1	MAX MIN	85 75	85 72	85 73	85 72	85 71	84 71	86 70	85 70	87 71	86 70	85 71	86 77	86 77	85 77	86 77	86 75	85 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	85.8 74.0	
MAKAHUEA POINT 940.1	MAX MIN	85 71	83 69	84 70	84 71	84 71	86 71	87 72	87 71	87 71	89 71	86 70	80 70	80 70	81 71	86 71	86 72	86 72	86 72	86 72	87 72	87 72	87 72	87 72	85 73	88 71	86 70	85 70	84 71	88 70	87 70	87 70	87 70	86.0 72.1	
MANA 1026	MAX MIN	90 66	90 67	88 68	89 71	90 69	89 68	88 68	88 68	90 70	84 68	85 70	89 68	88 68	89 67	91 67	90 68	88 67	89 67	88 67	89 67	89 67	89 67	87 68	87 68	87 67	90 66	91 65	90 69	90 68	91 69	90 69	88.8 67.9		
NIU RIIOGE 1035	MAX MIN	83 62	85 64	84 63	83 64	84 64	80 63	82 61	83 63	79 61	80 63	84 63	85 63	84 63	85 65	84 63	83 63	84 63	85 63	84 63	83 63	84 63	84 63	85 64	84 64	85 64	85 65	84 65	85 65	84 66	83 66	86 63	83.4 64.1		
HAIAHI LOWER 1054	MAX MIN	81 64	80 66	76 67	78 68	79 66	79 66	79 62	79 61	79 62	80 62	79 64	79 68	78 68	79 67	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79 68	79.5 65.5	
• • •																																			
ISLAND OF OAHU																																			
EWA PLANTATION 741	MAX MIN		85 66	85 68	85 70	86 65	83 64			83 64	83 67	84 66	86 68	87 68			87 68	87 70	86 71	86 69	87 68			86 66	85 66	86 66	86 66	86 66	87 66	87 66	87 66	87 66	87 66	85.6 67.1	
HONOLULU WSO 703	MAX MIN	84 71	84 71	85 71	88 72	86 73	86 72	87 70	85 71	84 72	86 71	86 74	87 74	87 74	86 75	87 74	85 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	86.5 72.5	
HONOLULU SUBSTA 704	MAX MIN	81 73	82 73	82 73	84 72	83 73	84 74	83 73	82 74	81 74	83 74	83 74	83 76	83 76	84 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	83 76	82.6 74.3	
KAHUKU 912	MAX MIN		84 69	84 70	85 71	84 74	85 70			84 68	86 68	85 74	85 74	85 73			85 73	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84.5 72.0	
KANEHE MAUKA 781	MAX MIN	82 72	82 68	82 74	83 69	83 70	85 69	83 68	84 69	84 70	82 71	84 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83 74	83.4 71.3	
LUALUALEI 804	MAX MIN	86 70	86 71	86 74	86 68	86 67	87 68	86 68	87 68	87 68	83 69	85 71	86 75	86 75	86 71	86 71	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	87.0 70.8
MAKAPOU POINT 724	MAX MIN	79 69	79 69	79 69	79 70	81 70	82 70	82 70	83 70	83 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	84 70	80.4 70.5
OPAELUA 870	MAX MIN	85 67	90 63	82 63	83 63	85 65	84 65	84 65	86 65	83 63	84 63	85 63	84 63	83 63	85 63	84 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83.4 64.3	
PRI WAHIAWA 820.2	MAX MIN	84 67	86 66	85 68	83 67	86 63	90 62	87 61	86 63	89 62	83 64	86 62	86 62	86 67	85 66	81 65	87 65	85 67	84 68	86 66	84 66	86 66	84 66	86 66	84 66	86 66	84 66	86 66	84 66	86 66	84 66	86 66	84 66	85.7 65.0	
WAIALEE 896.3	MAX MIN																																		
WAIALUA 847	MAX MIN	85 69	84 66	85 65	85 62	88 62	88 62	89 63	88 63	85 66	86 64	86 62	86 64	87 65	86 66	87 68	85 66	86 66	86 67	86 67	85 67	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86.3 64.7	
WAIKIKI 717.2	MAX MIN	86 73	85 71	85 73	85 71	85 72	85 71	87 69	86 72	85 71	86 70	87 72	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	87 73	86.6 71.4	
WAIHANALO EXP FARM	MAX MIN	85 73	84 72	84 71	85 69	86 72	85 68	86 69	85 70	85 71	83 70	84 71	84 73	84 74	83 72	85 74	83 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84 74	84.6 71.8	
• • •																																			
ISLAND OF MOLOKAI																																			
MOLOKAI AP 524	MAX MIN	83 74	81 70	82 70	82 71	84 68	85 67	85 68	85 76	85 74	83 69	84 69	82 70	85 71	84 70	86 76	85 70	84 73	83 73	84 70	83 70	84 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83 70	83.5 70.4	
• • •																																			
ISLAND OF LANAI																																			
LANAI CITY 672	MAX MIN	78 68	79 64	78 65	78 66	78 66	79 66	79 66	78 65	78 65	77 62	79 65	75 68	76 68	79 67	81 63	80 66	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	79 67	78.1 65.5	
• • •																																			
ISLAND OF MAUI																																			
HALEAKALA RS 338	MAX MIN	66 47	65 44	64 46	64 49	68 41	60 47	64 47	65 43	65 42	64 42	65 46	63 45	66 45	70 53	67 46	52 45	63 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64 47	64.7 45.2	
HALEAKALA SUMMIT 338.4	MAX MIN	50 44	50 40	59 40	60 42	54 41	58 38	56 41	56 39	52 38	54 38	58 39	58 40	59 39	51 40	51 36	62 35	50 35	52 37	52 37	52 37	52 37	52 37	52 37	52 37	52 37	52 37	52 37	52 37	52 37	52 37	52 37	52 37	56.8 40.7	
HANA AIRPRT 355	MAX MIN	85 66	86 66	85 65	85 65	85 64	85 64	87 65	83 63	85 63	86 64	86 68	85 68	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86.2 65.6	
KAANAPALI AIRPRT	MAX MIN	86 66	84 66	85 65	84 65	85 64	84 64	83 65	84 64	83 64	84 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	85 64	84.7 66.5	
KAHULUI WSO 398	MAX MIN	88 71	88 69	87 72	89 70	88 64	89 63	88 63	88 65	89 64	89 63	87 63	87 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88 63	88.1 72.2	
KAILUA 4+6	MAX MIN	78 60	78 60	78 60	79 68	81 68	81 68	79 68	80 65	80 63	82 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	80 69	79.4 66.8	
KEAWAKAPU BEACH 260.2	MAX MIN	89 66	89 65	88 65	89 65	87 64	88 64	89 64	89 66	89 66	89 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88.6 64.6	

See Reference Notes Following Station Index

DAILY TEMPERATURES

Continued

HAWAII
AUGUST 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	77	76	75	76	75	74	79	75	77	75	73	77	79	72	78	77	77	79	78	78	78	73	76	76	77	75	75	74	73	77	75	
	MIN	56	56	57	56	55	56	57	58	57	58	58	57	58	59	57	58	60	59	60	57	57	58	57	57	56	57	55	56	54	57	58	57
LAHAINA 361	MAX	87	89	88	89	86	86	86	86	86	87	86	88	89	87	86	88	89	89	88	87	88	88	88	87	88	88	89	88	89	89		
	MIN	68	68	68	69	67	67	68	68	69	67	66	70	70	67	70	68	71	70	69	68	67	68	68	67	68	67	67	68	68	69	70	67
WAILUKU 386	MAX	82	82	82	82	82	83	83	84	81	82	84	81	82	84	82	82	82	83	83													
	MIN	69	69	71	71	70					68	67	67	70	71		85	82	82	83	83												
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	82	81	82	83	82	83	83	82	82	84	84	83	84	80	84	84	82	83	83	83	84	84	83	84	81	84	84	84	84	83		
	MIN	68	66	67	67	67	65	65	67	65	64	65	67	67	65	72	67	67	70	69	67	67	69	67	67	66	66	66	66	67	67	66	
HAWAII VOLCNS NP HO 54	MAX	70	67	68	69	74	72	73	72	74	73	73	71	67	73	74	73	69	70	71	71	71	69	67	69	69	72	72	73	73	74	72	
	MIN	52	53	54	55	52	55	54	53	48	50	52	54	52	51	52	55	55	55	55	54	53	55	50	54	53	54	54	54	52	57	52	
HILO WSO 87	MAX	84	82	84	84	86	85	86	88	88	87	87	86	88	91	88	85	85	86	85	84	86	85	85	84	78	86	86	89	87	83	86	
	MIN	68	68	70	69	67	63	66	66	66	68	67	70	67	67	70	70	69	69	70	66	71	71	67	68	64	66	65	66	64	70	64	
KAINALIU 73.2	MAX	75	76	79	77	78	80	79	78	79	77	77	78	78	77	79	78	77	79	78	78	78	78	78	79	76	78	77	77	76	81	80	
	MIN	63	66	65	64	62	63	62	63	65	62	61	63	64	61	62	63	61	64	64	63	62	62	61	60	60	60	60	62	63	62	63	
KAMUELA 192.2	MAX	71	73	73	74	71	79	80	78	79	78	76	78	76	74	73	73	74	73	74	73	72	73	74	75	73	72	73	74	76	74	75	
	MIN	60	58	58	59	58	58	57	58	55	50	53	58	58	55	58	59	60	60	60	59	60	62	63	64	60	59	57	50	53	56	58	
KEAAU 92	MAX	81	81	80	81	81	83	83	84	84	84	84	84	82	84	86	85	82	82	82	82	83	83	82	82	82	82	79	77	84	84	79	
	MIN	65	67	66	66	65	65	67	66	64	63	66	65	66	64	66	67	67	67	67	64	64	64	68	65	65	64	66	65	64	64	65	
KEALAKEKUA 26.2	MAX	74	77	78	76	79	79	79	79	77	75	77	78	78	78	80	80	80	78	79	78	78	80	79	79	80	79	80	77	77	80	82	
	MIN	63	65	65	64	62	64	64	64	66	64	62	64	64	63	64	64	63	65	64	65	63	64	64	63	64	64	63	62	65	63	65	
KOHALA MISSION 175.1	MAX	80	80	80	81	81	82	82	82	83	84	84	82	81	80	81	83	82	81	82	83	82	84	83	84	83	83	84	84	84	80	82	
	MIN	69	67	68	69	66	67	66	66	65	65	67	68	68	68	69	67	66	69	71	66	68	70	69	69	68	69	67	65	62	70	69	
KONA (KAILUA) 68.3	MAX	86	85	83	85	85		86	84	86	84	83		85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	86	86		
	MIN	69	73	59	70	71		71	69	69	69	70		67	69	72	72	72	72	72	72	72	72	72	72	72	72	72	71	73	73		
KULANI CAMP 79	MAX	67	67	62	65	67	67	68	69	70	68	67	66	60	67	67	68	68	64	64	62	67	62	62	62	64	66	65	67	67	68	65	
	MIN	49	49	50	49	43	44	48	45	44	46	43	46	45	42	46	51	50	50	46	48	47	50	44	48	44	44	51	44	44	50	42	
MAUNA LOA SLOPE OBS	MAX	57	58	57	53	53	50	49	50	49	55	59	60	52	53	47	48	52	49	50	59	59	56	56	55	56	53	54	57	60	56	58	
	MIN	37	38	39	33	32	35	31	29	31	38	40	40	39	35	32	33	31	32	30	35	39	39	36	30	36	37	38	42	37	37		
MOUNTAIN VIEW 91	MAX	77	77	75	77	77	80	82	82	82	81	81	81	76	82	82	82	78	79	79	79	79	79	79	79	79	78	77	70	80	81		
	MIN	61	61	62	63	59	58	58	58	58	58	61	61	60	60	60	60	62	63	63	60	62	63	63	60	59	59	59	59	59	59	58	
NAALEHU 14	MAX	82	82	80	80	81	80	80	82	82	81	81	81	78	78	81	81	82	82	82	82	82	82	81	81	81	81	81	81	81	81	81	
	MIN	63	63	66	66	64	67	67	65	65	66	69	67	69	69	67	67	65	70	67	67	67	67	67	67	67	67	66	66	65	65	68	
OOKALA 223	MAX	80	80	80	80	79	82	76	74	82	81	82	82	82	81	82	83	81	82	81	83	82	83	82	82	82	82	78	82	82	83	82	
	MIN	64	65	64	65	68	62	68	58	66	65	65	62	67	65	68	67	66	69	69	67	66	69	68	67	66	66	66	66	66	66	69	
OPIHIHALE 2 24.1	MAX	79	78	80	78	79	80	81	80	79	78	77	76	77	82	82	83	82	81	80	81	82	80	81	82	79	80	81	80	79	81	81	
	MIN	61	62	60	61	62	63	64	65	62	63	64	64	65	59	60	61	62	61	62	61	62	60	62	64	60	62	60	62	60	59	65	
PAHALA 21	MAX	84	82	83	83	82		84	83	83	82	81		84	87	82	82	83															
	MIN	61	63	63	61	62		62	62	62	63	63		63	66	65	65	64	63														
PUAKO 95.1	MAX	87	88	88	87	87	86	87	88	85	86	87	86	87	86	86	87	86	86	87	88	87	87	88	87	87	88	87	89	86	87	88	
	MIN	71	74	73	71	69	69	72	70	70	67	68	72	68	70	71	75	74	74	72	73	69	72	72	69	69	70	69	68	69	70	73	
UPDLU POINT USCG 159.2	MAX	83	84	80	85	85	85	84	84	84	86	85	84	81	83	83	84	84	82	82	84	84	82	77	84	83	84	84	83	85	84	83	
	MIN	67	70	67	67	69		71	74	73	65	70	70	73	68	73	69	67	72	74	65	70	72	73	72	68	70	69	71	70	71	69	

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.37	.28	.46	.44	.37	.37	.30	.30	.30	.29	.36	.35	.29	.33	.38	.35	.39	.39	.34	.39	.30	.38	.30	.40	.30	.33	.20	.30	.32	.35		
	WIND	40	53	50	50	31	32	33	38	29	32	34	45	33	39	52	48	47	59	60	45	45	45	42	38	36	35	38	36	37	37		
	MIN	66	65	66	66	66	66	66	66	70	68	66	67	68	68	68	67	67	67	66	66	65	65	65	66	65	64	66	66	66	65	66.3	

See Reference Notes Following Station Index

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)										TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII																									
HAUNA LOA SLOPE OBS	0198	03	HAWAIIA	5 19 32	155 35	1114	MID	MID					HAUNA LOA OBSERVATORY	SOUTH POINT CORRAL 3	8875	03	KAU	9 18 57	155 41	200					HAWAIIAN RANCH COMPANY
MIDDLE NDUALDA 08.1	0268	04	N KONA	4 19 37	155 58	975	8A						KONA EXPERIMENT STA	UMUKA 118	8780	01	HAWAIIA	11 19 59	155 43	3420	7A				KURAIKU RANCH CO
MIDDLE PEN 147.1	0370	01	N KONA	1 20 06	155 50	1390	VAR						KAHUNA RANCH	UPDLU POINT USCC 159.2	8830	01	N KONA	11 20 15	155 53	61	8A				U S COAST GUARD
MOAULA 18	0607	03	KAU	3 19 11	155 30	600							HAWAIIAN RANCH CO	MAIATAKA SCD 881.2	9025	02	S HILLO	11 19 40	155 08	1010	7A				SHINICHI KANEHIRO
MOUNTAIN VIEW 91	0592	02	PUNA	2 19 53	155 07	1230	8A	6A					PUNA SUGAR CO	MAIKANONDULA 175.6	9350	01	N KONA	11 20 08	155 47	3830	7A				KAHUA RANCH
NAALEHU 14	0388	03	KAU	3 19 04	155 31	673	8A						HUTCHINSON SUGAR CO	NEW STATIONS											
NARPOPO 28	0697	04	S KONA	4 19 28	155 55	395	7A						KONA EXPERIMENT STA	ISLAND OF MAUI											
NAULU FOREST 38.6	0731	02	PUNA	2 19 19	155 08	1400	VAR						HAWAII VOLCANOES NAT PK	KAUPANULUA RES. 492.0											
NTULU 179	0806	03	N KONA	1 20 14	155 45	75	8A						KOHALA SUGAR CO	3561	02	MAKAWAO	1 20 55	156 18	640					EAST MAUI IRRIGATION CO	
ODKALA 223	7131	02	N HILLO	2 20 01	155 17	430	7A	7A					LAUPAHEHO SUGAR CO												
OPIMHALE 2 24.1	7166	04	S KONA	4 19 16	155 53	1270	7A	7A					MISS C LEONARD												
ORCHID LAND EST 91.5	7185	02	PUNA	2 19 34	155 00	445	VAR						BOARD OF WATER SUPPLY												
PAUMOU 217	7204	03	HAWAIIA	1 20 08	155 26	415	7A						PAUMOU SUGAR CO												
PAUULU 221	7312	01	HAWAIIA	1 20 03	155 22	800	7A						HAWAIIA MILL CO												
PAHALA 121	7421	03	KAU	3 19 12	155 29	870	8A	8A					HAWAIIAN AGRI CO												
PANDA 65	7457	02	PUNA	2 19 30	154 57	970	8A						PUNA SUGAR COMPANY												
PAKAU 37	7643	03	KAU	3 19 22	155 28	5000							HAWAIIAN RANCH CO, INC.												
PAPA'KOU 144.1	7711	03	S HILLO	2 19 47	155 08	300	7A						HAUNA KEA SUGAR CO.												
PAPA'KOU MAKA 140.1	7721	02	S HILLO	2 19 47	155 08	1270	7A						HAUNA KEA SUGAR CO.												
PEPEEKE MAKA 144	8000	02	S HILLO	2 19 51	155 05	100	7A						PEPEEKE SUGAR CO												
P11HONGA 89	8051	02	S HILLO	2 19 44	155 10	1730							STATE DIV OF FORESTRY												
POROKULUA 107	8003	02	HAWAIIA	2 19 45	155 32	6511	VAR						STATE DIVISION OF PARKS												
PURAO 94.1	8186	03	KONA	5 19 59	155 20	5	8A	8A					ERWIN H. RAPP												
PUI K1HF 120	8393	01	HAWAIIA	1 19 54	155 24	7750							KUKAIKU RANCH CO												
PUI LAU 102.1	8452	03	HAWAIIA	5 19 30	158 36	7440							STATE DIV OF FISH-CAME												
PUI LEHUA 73	8440	04	N KONA	4 19 34	155 49	4880							W.M. GREENWELL RANCH												
PUI MAI 113	8515	01	HAWAIIA	1 19 58	155 26	6940							KUKAIKU RANCH CO												
PUI OJ 82	8550	02	S HILLO	2 19 46	155 23	6340	6A						SON WINTERS												
PUI WAHAA 94.1	8555	03	N KONA	5 19 47	155 51	2520	7A						OILLINGHAM RANCH INC												
SADDLE ROAD I 84	8590	02	S HILLO	2 19 42	155 12	2340							BOARD OF WTR SUPPLY												

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C in Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin, if daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological data, price 45 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual: \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Fitzgerald
Director, National Climatic Center

USCOM-NOAA-ASHEVILLE, N. C. 12/1/71-890

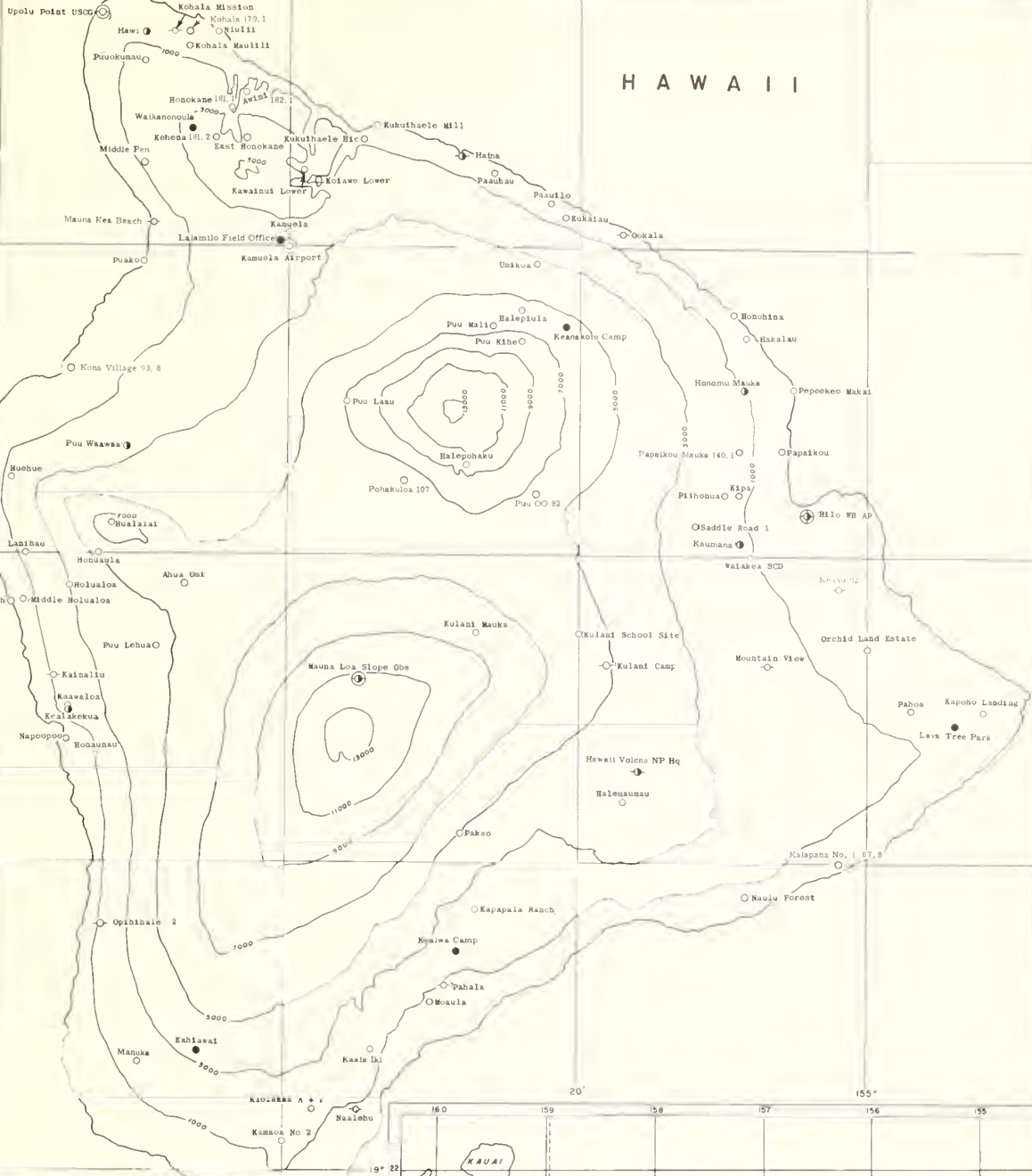
156°

40'

20'

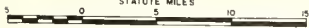
155°

HAWAII



HAWAII

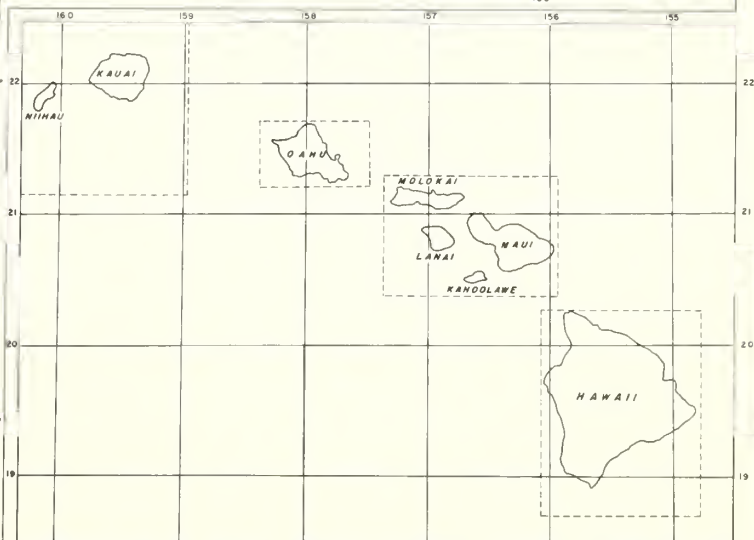
PLATE 2
STATUTE MILES



STATION LEGEND

- ● ● Precipitation only
- ○ Precipitation, storage
- ● ● Precipitation and Temperature
- ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording, ● Both types

Double circle combinations indicate the availability of more detailed meteorological data
 All stations use 150H meridian time.



156°

USCOMM-ESSA-Ashville, N.C.
Revised 3-59

40'

160

159

158

157

156

155

19°

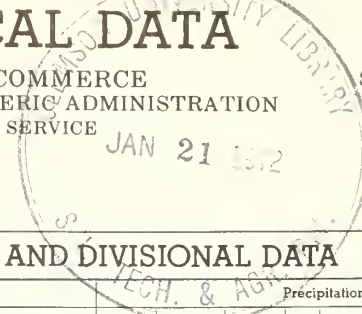
CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

SEPTEMBER 1971

Volume 67 No. 9



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										91° or Above	81° or Above	71° or Above	61° or Above					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																											
ANAHOA 1114																											
KANALOHULUHULU 1075	73.0	54.9	64.0		78	22+	48	16+		0	0	0	0	3.35	1.22			.0	0			7	1	0			
KAPAA STABLES 1104														2.24				.0	0					0			
KILAUEA FIELD 17 1135														2.65				.0	0					0			
KILAUEA POINT 1133	83.5	73.5	78.5		94	19	70	29+		1	0	0	0	3.71	-1.57	.80	24	.0	0			11	1	0			
KOLOA 936														5.70	1.32			.0	0					0			
LIHUE WSD 1020.1	85.4	74.5	80.0	1.9	87	23+	70	15		0	0	0	0	2.69	.61	.76	24	.0	0			8	1	0			
MANA 1026	87.1	68.2	77.7	.2	92	10	65	27		3	0	0	0	.86	.07	.18	6	.0	0			5	0	0			
N HAILUA DITCH 1051														14.49				.0	0					0			
PH WAINIHA 1115														4.00	-2.07	.44	5	.0	0			13	0	0			
PUEHU RIDGE 1040														2.18		.91	24	.0	0			7	1	0			
WAHIAWA 930														1.64	-.07			.0	0					0			
WAIAMI LOWER 1054	79.4	65.8	72.6		82	1	60	19		0	0	0	0	7.90		1.08	29	.0	0			21	5	1			
WAIAMA 947														.63	-.03	.26	20	.0	0			3	0	0			
ISLAND																											
* * * ISLAND OF OAHU																											
HONOLULU OBSERV 702.2														.62		.36	24	.0	0			1	0	0			
HONOLULU WSPD 703	86.7	71.5	79.1	.1	89	7+	68	14		0	0	0	0	1.03	.04	.49	24	.0	0			3	0	0			
KAHUKU 912	84.8M	71.7M	78.3M	.1	86	20	67	14		0	0	0	0	2.15	.30	.73	24	.0	0			10	2	0			
KANEHE MAUKA 781	83.3	71.3	77.3	.5	86	17+	69	25+		0	0	0	0	3.48	-.60	.60	8	.0	0			18	9	3			
KODIAU OAM 833														12.39	6.15	2.10	11	.0	0					0			
LUALUALEI 804	87.2	72.0	79.6		91	7	68	25+		1	0	0	0	1.36		.55	24	.0	0			1	0	0			
MAKAPUU POINT 724	80.5	70.8	75.7		84	26+	69	14+		0	0	0	0	.55	.16	.33	24	.0	0			3	0	0			
NUUANU RES 4 783														9.20	.67	2.68	24	.0	0			17	4	2			
OPAULA 870	82.1	65.2	73.7	.5	87	6	61	24+		0	0	0	0	1.50	-.94			.0	0			0	0	0			
PALLO VALLEY 718														8.58	.15	2.36	24	.0	0			16	4	1			
PRI WAHIAWA 820.2	85.3	65.8	75.6		88	15+	63	14+		0	0	0	0	2.90		.72	15	.0	0					0			
WAHIAWA OAM 863														4.08		2.09	24	.0	0			1	1	0			
WAIANOLE 837														6.76	-3.03	1.54	24	.0	0					0			
WAIALEE 896.3	86.9	64.7	75.8	.5	89	23+	62	15+		0	0	0	0	1.25	.46	.52	26	.0	0			5	1	0			
WAIALUA 847																		.0	0					0			
WAIKIKI 717.2	87.2	70.7	79.0		90	17	67	25+		1	0	0	0	1.79		.60	26	.0	0			3	1	0			
WAIMANALO EXP FARM	84.9	72.1	78.5		88	15	69	14+		0	0	0	0	2.30		1.21	24	.0	0			5	1	0			
WAIPIHU 750														2.47	1.39			.0	0					0			
ISLAND																											
* * * ISLAND OF MOLOKAI																											
KUALAPUU 534														.40	-.38			.0	0			5	2	1			
MAPULEHU 542														3.43	.83	.78	2	.0	0			13	1	0			
MAUNALO A 511														1.89	.78			.0	0					0			
MOLOKAI AP 524	83.9	71.9	77.9		87	19	66	15		0	0	0	0	.10		.05	3	.0	0			0	0	0			
ISLAND																											
* * * ISLAND OF LANAI																											
LANAI CITY 672	78.0M	64.6M	71.3M	.2	82	20	61	15		0	0	0	0	1.50	-.77			.0	0					0			
ISLAND																											
* * * ISLAND OF MAUI																											
HALFAKALA B E S 434	63.5	45.4	54.5		70	1	41	20+		0	0	0	0	3.14	.84	1.07	3	.0	0			5	2	1			
HALFAKALA RS 338														1.87	.30	.30	3	.0	0			8	0	0			
HANA AIRPORT 355														1.99	.31	.42	3	.0	0					0			
HONOKOHUA 493														.37		.20	24	.0	0			1	0	0			
KAANAPALI AIRPORT	84.7	66.6M	75.7M		87	15	62	15		0	0	0	0	.25	-.00	.14	3	.0	0			1	0	0			
KAHULUI WSD 398	88.6	68.4	78.5	.1	92	18	64	16+		8	0	0	0	5.82	-1.68	1.34	3	.0	0			16	2	1			
KAILUA 446	79.7	67.2	73.5	.2	81	21+	64	30		0	0	0	0	11.00	-1.23			.0	0					0			
KEANAE 346														5.47	-1.38	.70	24	.0	0			18	3	0			
KIPAHULU 258														1.42	-.55	.42	14	.0	0			5	0	0			
KULA SANATORIUM 267	73.8	58.6	66.2	.3	78	10+	56	27+		0	0	0	0					.0	0					0			
LAHAINA 361	88.2	69.0	78.6		92	26	66	11		3	0	0	0	.21	-.08	.13	3	.0	0			1	0	0			
PAIA 406														.85	-.43	.21	4	.0	0			4	0	0			
WAILUKU 386	82.5M	71.2M	76.9M	.9	86	27+	69	15+		0	0	0	0	.25	-.35	.17	3	.0	0			1	0	0			
ISLAND																											
* * * ISLAND OF HAWAII																											
HAINA 214	83.2	67.7	75.5	1.0	86	18	66	15+		0	0	0	0	.61	-1.68	.17	29	.0	0			1	0	0			
HAWAII VOLCANES NP HQ 54	71.1M	54.1M	62.6M	.7	75	17	49	22		0	0	0	0	4.63	-.46	1.58	21	.0	0					0			
HILO WSD 87	85.1	68.1	76.6	1.1	90	14	65	27+		1	0	0	0	8.63	.13	1.35	21	.0	0			16	5	3			
HUEHUE 92.1														1.07	-2.16			.0	0					0			
KAINALIU 73.2	77.9	62.3	70.1		80	29+	60	23+		0	0	0	0	8.38	.78	2.25	23	.0	0			15	4	3			

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
SEPTEMBER 1971

Continued

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										90° or Above	31° or Below	37° or Below	1° or Below					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	82.4	65.9	74.2	-.7	85	17+	64	11+		0	0	0	0	5.62	-3.43	.96	28	.0	0		15	4	0
KEALAKEKUA 26.2	78.4	64.1	71.3		80	29+	62	23+		0	0	0	0	7.45		2.27	23	.0	0		13	5	1
KONA (KAILUA) 68.3	85.0M	70.0M	77.5M		88	1	67	24		0	0	0	0	3.42		1.11	2	.0	0		3	0	0
KUKUIHAELE HIC 199														.71	-2.08	.23	29	.0	0		4	0	0
KULANI CAMP 79	65.1	49.1	57.1		69	19+	45	16+		0	0	0	0	4.92		1.43	21	.0	0		14	1	1
PAHALA 21	82.3M	63.4M	72.9M	-.8	85	1	62	23+		0	0	0	0	3.18	.65	1.26	21	.0	0			2	1
POHAKULOA 107														.40		.00	0	.0	0			0	0
PUAKO 95.1														.34		.27	12	.0	0		1	0	0
PUU WAAHAA 94.1	85.8	70.6	78.2		87	27+	66	24		0	0	0	0	2.37	.04	.75	14	.0	0		5	2	0
UMIKOA 118														.22	-1.94	.08	14	.0	0		0	0	0
WAIAKEA SCD 88.2														7.66		1.34	21	.0	0		16	6	1
ISLAND			71.6											3.73				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 19TH AT KILAUEA POINT 1133, KAUAI

LOWEST TEMPERATURE: 33° ON THE 24TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 28.70 INCHES INCHES AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 5 STATIONS

GREATEST ONE-DAY PRECIPITATION: 5.71 INCHES ON THE 21ST AT MOUNT WAIALEALE 1047, KAUAI

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

September saw the passing of what for some areas appears to have been their most severe dry spell in at least 70 years (see the June, July, and August 1971 issues of this publication).

As the month opened, water rationing was in effect in East Maui's Kula and Hana areas, water was being pumped from the Lower Kula into the nearly exhausted Upper Kula system, and Maui County was on the verge of asking the Governor to declare a drought emergency as a means of obtaining State and Federal funds. The ditch that conveys water from watersheds in the ordinarily wet mountains of windward East Maui to sugar plantations in the central valley, and is the main source for the Haiku-Makawao-Pukalani County water system, held only 22 million gallons of its 200-million-gallon capacity, and supplies for Kula from the new 50-million-gallon Piihola Reservoir above Makawao were estimated at only 35 days. About 60 percent of Kula's residents were suffering from water shortages, and growers of the vegetables, fruits, and flowers for which the area is noted had been seriously hurt.

On September 1, the Hana and Koolau Forest Reserves in eastern and northeastern Maui were closed owing to extreme dry weather and critical fire danger conditions, and on September 3, all hunting and recreation activities were forbidden in the Kula and Kahikiniui Forest Reserves on Haleakala's northwestern and southeastern slopes. The possibility of developing additional water from untapped springs above Hana was being seriously looked into as a longer-range solution to water deficits and even cloud seeding had been proposed as a means of inducing or augmenting rainfall over East Maui, but this was quickly dismissed owing to the uncertainty of the techniques and the unsuitability of the clouds.

Other regions of the State were dry as well. Unirrigated sugarcane on Kauai and Hawaii was showing the effects of deficient rainfall, and by midmonth it had become evident that papaya production, most of it on Hawaii Island, had been cut by half.

Meanwhile, however, from about the second or third day of the month, and particularly over the East Maui watershed, trade wind showers had begun to return and to fill the ditches and replenish the reservoirs.

By September 10, bans were eased on the use of

water for domestic purposes in the Hana area, although conservation was still being urged and lawn watering and car washing forbidden. On September 13, the Waikamoi Reservoir held 11 million gallons, and irrigation in the Kula area, restricted since mid-August to only 6 hours weekly (9 a.m. to 3 p.m. once a week), was raised to 8 hours: 8 a.m. to noon, twice weekly. Water haulage to 40 families at Kalae, Molokai, was discontinued, although, in contrast, water was still being trucked to several families in Hawaii Island's Papaikou section, an area whose average annual rainfall exceeds 150 inches.

On September 20, water restrictions in Hana ended entirely, although retained elsewhere on Maui and Molokai, while at the same time, rationing was imposed on Lalamilo Farms, in Hawaii Island's Waimea district, with irrigation permitted only between 7 a.m. and 5 p.m. daily. Also on September 20-21, Naalehu recorded a 24-hour rainfall of 1.47 inches and Hilo of 2.24 inches, not a great deal as rainfall in those localities goes, but their first substantial rains since May.

As the month continued so did the showers, and by September 27 irrigation everywhere along the Kula pipeline was extended to Monday through Saturday between 8 a.m. and noon, although the County Board of Water Supply warned that the drought and rationing still existed and permitted only minimal water use for lawns and cars.

In contrast to August, when all the islands but Kauai and Lanai had large areas with less than one-fourth their average monthly rainfall, only a scattering of gages showed similar deficiencies in September. Nevertheless, monthly rainfall totals were well below half the September means on Oahu's extreme southeastern coast, in Maui's central valley, and in the eastern and southwestern portions of West Maui, at lower elevations on Lanai and Molokai, and particularly in Hawaii Island's Waimea district and throughout Hamakua, at both lower and higher elevations.

Also worth noting during the month was the large funnel cloud visible for about 15 minutes to thousands of persons in Oahu's Pearl Harbor-Waipahu area on the afternoon of September 25. The cone-shaped funnel, unusually broad at the base, descended at least 1,500 feet earthward from the bottom of a cumulonimbus cloud, and then withdrew and faded away.

Saul Price
Regional Climatologist for Pacific Region
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
SEPTEMBER 1971

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF MAUI																																	
MAUI 1114	A	3.35		.45					.35	.20	.07	.07			.05	.04					.02		.07	.07		.03			.40	.05	.15	.07	
FOSS, POND STA 764	A	4.41	.01	.64	.01				.55	.53	.08	.18			.70	.01	.10	.01	.26				.07	.07		.44			.42	.14	.26	.17	
KILAUEA 934	A	1.91		.07	.03				.70	.41	.14	.23			.35	.01	.08	.03	.03			.02	.11	.31	2.43			1.11	.36	.39	.16		
SELF 927	A	1.28							.12	.25	.03	.10			.06									.14		.12			.31	T	.06	.06	
WAILAU 1110	A	3.13		.30					.60	.33	.13	.15			.18	.02							.04			.03		1.04	.06	.32			
ISLAND OF MOLOKAI																																	
MULEHANGA 1006	A	5.39		.05	.02				1.24	.40	.18	.16			.41	.31	.32	.03	.06			.05	.02	.23		.31			.52	.16	.78	.06	
WINDY 944	A	1.39									.04															.68	.32	.05	.10				
INTAKE 1050	A	13.89	.22	.42	.03				1.94	.85	.61	.23			.87	.19	.12		1.60			1.04	.09	.96	1.32		.99	.25	1.91	.25			
INTAKE KAHANA P. 1086	A	4.87							.40		.01	.12							.01							.67			.29				
KANALOHU LUMBU 1075	A	2.24		.05		.01	.09	.05		.10		.16						.22			.06	.03		.04	.46		.02	.54	.22		.02	.06	.01
ISLAND OF HAWAII																																	
KAHEHA RESERVOIR 1091	A	5.18	.17	.31					.85	.49	.12	.13			.21	.25	.60		.09	.03			.30	.15		.05			.65	.10	.50	.18	
STARBUCKS 1104	A	2.65	.01	.20					.45	.15	.05	.10			.10								.10					.92	.47				
KALIA 1112	A	1.90	.02	.74					.46	.15	.10	.11			.03								.08		.02	.10		.40	.02	.24			
KIWAHA 944	A	.83							.04														.07			.39	.13	.13	.06	.05	.05		
KILAUEA 1134	A	4.94	.16	.05	.01				1.01	.16	.09	.02			.21	.26	.02		.06				.18	.10	.05	1.39		.49	.04	.50	.14		
ISLAND OF OAHU																																	
ISLAND OF MOLOKAI																																	
ISLAND OF MAUI																																	
ISLAND OF HAWAII																																	

DAILY PRECIPITATION

HAWAII
SEPTEMBER 1971

Station	Total	Day of Month																																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
KAWAIIHI TRIP 197	5.24			2.40							1.32							.32						1.20												
FEAR 95	5.62		.09	.19	.77		.22	.02		.03	.13	.10	.04							.38	.28		.13	.04	.51	.42		.13	.21	.01	.96	.40	.70			
WALAKAUA 206.2	7.45	.19	.36	.04	.04	.56	.04	.17	.20	.13	.83	.09										.75	.46	.01	2.27	.02										
PEPEHA 181.7																																				
WIDLEKA 3 E F 5	5.00																																		5.00	
KIPA 87.2	9.69		.48	.19	.69	.02	.16	T	.01	.09	.01	.01	.40	.01				.14	.33	.11	.39	2.35	1.10		.16	.27	.13	.08	.32	1.39	.85					
KOHAHA MAULILI 1.6	2.38	.74	.05	1.10					.19	.13	.02			.03								.01	.08	.19	.02				.12	.19	.07	.16				
KAHALA MISSION 15.1	2.68	.52	.08	.90	.04	.01	.03	.03	.03	.23	.12	.05	.03	.02							.23		.04	.09	.26	T	.09	.01	T	.31	.04	.25				
KULANI OHMP 96	2.36			1.15							.58			.37	.01																					
KONA (61.28) 68.3	3.42	1.11				1.63			.01	.07												.42			.40											
KONA VILLAGE 93.8	.60												.55	.05																						
KUKIJAU 222	.99			.29	T				.01	.03			.01														T	T		.05	.28	.18				
KUKIHALEI VIC 199	.71	.03	.01			.12			.01	.03					.01											.08	.02	T		.14	.23	.02				
KUKIHALEI MILL 486	.50									.16																				.02	.22	.02				
KULANI CAMP 79	4.92	.03	.30	.11	.30	.02	.05			.10		.15	.08	.08	.01	.05		.10	.06	.07	.25	1.43	.36		.15	.24	.03	.08	.16	.43	.38					
KULANI MAUKA 76	1.33	.02	.09	.13				.05	.11								.04		.05	.17	.21					1.84			.03	.18	.02	.10				
KULANI SCHOOL SITE 78	3.73				1.02							.12	.13						.35																	
LANIMAL 68.7	9.96	.22	.51	.13		.13				.38	.47	.13		.12	.15	.54		1.85	3.54	.85			.65	.12	.11	.12										
KAHAHA KU 193	.35								.46	T	.50	1.20			.15	.05	.30	.50				.70	.10						.80	.10	.10					
KANUKU 7	4.90																																			
KAUNA OMA SLOPE DBS	.74																		.27			.11				.07	.01		T							
KIDOLE KOLIALOA 68.1	7.80		1.10				.46							.96											5.26											
KIDOLE PSH 167.1	.00																																			
KAULA 18	1.75																																			1.75
MOUNTAIN VIEW 91	7.99		.48	.44	.53	.15	.02			.11	.11	.16	.08				.09	.04	.28	.13	.06	1.47	.49		.42	.13	.27	.06	1.09	.79	.59					
KALEHIHI 14	3.78	T	.24	.01				.04	.50	.06				.03		.02	.09				.74	1.47	.09	.02	.08				.33	T	.04					
KAPOOUE 28	4.42					.67							1.01								.69								1.85							
KULILI 179	2.22	.02	.07	.88				.09	.27	.07			.02								.02	.30							.23	.12	.15	.13				
KOKAUA 223	2.17			.04	.16								.13	.02							.36	.04						.04		.12	.84	.39				
KUPIHUHI 2 24.1	4.80	.07	T	.14	.07	.08		.05	.07	.14	.33	T		.03	.51	.14	T	.37	.07	T	.02	.55	.17	.05	T	.07	.01	.15	T	1.71						
ORCHID LANO FST 61.5	4.48			1.69						.71							.25										1.83									
PAAHINE 217	.52	.03	.01		.03				.03																			.04		.15	.15	.08				
PAAULIU 221	.77		.37	.04		.03	T						.02											.01	T											
PAAHAA 21	3.18	.57				.04							.15		.03	.21	.02			.29	1.26	.28	.03	.09				.21								
PAHOA 67	6.79	.14	.12	.29	.72	.20	.03	.22	.24	.37	.13	.09		.12	.18	.18	.54	.24	.06	.66	.18	.08	.39	.07	.12	.01	.21	.86	.54							
PAKAU 37	5.79																																		5.75	
PAPAIAHI 144.1	8.65		.44	.16	.47	.12	.02		.54		.03	.11					.15	.05	.02	.10	1.65	.99	.35	.17	.40	.18	.74	.92	1.18							
PAPAIAHI MAUKA 144.1	9.30	T	.55	.36	1.10	.04	.15	.01	.22	.04	.22			.54	.06	.05	.19	2.38	.92	T	.11	.24	.55	.01	.63	.95	1.00									
PEPEEED MAKAI 144	6.88	.02	.52	.92	.07	.02	.09	.07	.18	.13	.04					.10			.11	2.03	.10	.03	.12	.05	.13	.02	.58	1.04	1.03							
PIIHOHUA 89	12.40																																		12.40	
POHAKU 107	.40									.04										.11	.07							.17	.01							
POHAKU 95.1	.34	T											.27																							
POHU KIMF 120	.41																						.02			.05									.41	
POHU LAHI 102.1	1.89																																		1.88	
POHU LEHUA 73	1.80																																		1.80	
POHU MAI 113	.49																																		.49	
POHU OD 82	3.08															.04	.15	.03	.10	.17	1.11	.32	.03		.11	.06	.06		.60	.30						
POHU WAKAUA 94.1	2.37			.02						.06				.13	.75	.07		.11			T		.72		.42	.06			.03							
SADLER ROAD 1 84	10.90			3.30																						7.20										
SOUTH POINT CORRAL 3	1.72				.06								.11						.13								1.42									
UMIKOHA 118	.22		.06	.01						.02				.08								.05														
WAILANI POINT USCG 159.2	1.15	.10	.07	.22	T	.05		.06	.10	.02		.01												.28				.12		.98	.10					
WAIKAEA SCO 88.2	7.64		.41	.64	.11	.06			.06	.10	.18	.27	.05				.10	.50	.10	.52	1.34	.80	.24	.40	.04	.08	.47	.98	.64							

SUPPLEMENTAL DATA

Station	Wind (Speed - m.p.h.)						Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover sunrise to sunset	
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over			Total
							02	08	14	20									
							02	08	14	20									
HILO WSD 87	17	1.0	5.9	18	SE	20	86	79	69	85	2	9	11	2	3	0	27	51	6.8
HONOLULU WSFD 703	5	10.5	12.7	26	NE	03	77	72	55	70	6	13	3	0	0	22	74	6.1	
KAHULUI WSD 398	5	11.2	12.5	32	E	20	86	71	54	74	9	4	1	0	0	14	71	5.6	
LIHUE WSD 1020.1	6	9.6	11.3	24	NE	30	79	73	64	75	5	10	7	1	0	23	58	5.8	

DAILY TEMPERATURES

HAWAII
SEPTEMBER 1971

Station	Day of Month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	78 58	74 68	72 56	77 55	71 58	74 59	74 56	74 60	74 59	73 57	75 57	74 55	70 49	72 50	72 48	69 48	74 50	74 51	74 57	74 56	74 51	78 56	74 51	69 50	72 54	73 53	71 56	68 57	72 56	70 56		73.0 54.9
KILAUEA POINT 1133	MAX MIN	83 73	84 74	82 72	80 74	83 72	82 75	85 74	84 75	84 75	84 75	84 75	83 75	83 72	87 74	83 73	84 75	83 74	83 73	84 75	83 74	83 74	84 73	88 71	80 73	83 71	83 73	83 72	83 70	82 71	80 71	83.5 73.5	
LIHUE WSD 1020.1	MAX MIN	86 75	86 75	86 78	86 72	85 74	86 76	86 77	86 76	87 75	86 76	86 77	86 75	86 73	86 71	86 70	86 72	86 72	86 72	86 72	86 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	85.4 74.9	
MAKAHUNA POINT 940.1	MAX MIN	87 73	87 73	86 73	84 73	86 75	86 76	88 71	87 72	84 72	86 72	87 72	87 73	87 73	86 72	86 70	86 76	89 72	82 72	88 72	88 72	88 72	85 73	87 71	88 73	88 71	88 73	88 73	88 73	88 73	88 73	85.5 72.1	
MANA 1026	MAX MIN	90 70	87 69	88 66	89 66	81 70	84 69	89 67	89 71	89 69	89 69	88 66	86 67	85 69	85 69	86 71	85 69	85 67	85 67	85 67	88 66	89 69	88 69	86 70	86 69	88 68	88 69	87 69	87 65	88 66	88 66	87.1 68.2	
NIU RIDGE 1035	MAX MIN	84 65	84 64	83 64	84 65	83 62	84 64	86 65	85 63	83 64	82 63	85 62	82 63	83 64	80 63	81 63	83 64	84 63	82 64	82 63	83 63	83 62	83 62	84 65	83 64	80 63	80 63	81 64	81 63	81 64	82 64	82.8 63.7	
WAIHI LOWER 1054	MAX MIN	82 68	81 69	78 68	81 65	81 64	80 67	78 69	79 68	79 68	79 68	80 67	79 65	79 65	79 65	80 62	80 62	80 62	81 62	80 62	80 62	80 62	80 62	81 62	81 62	79 68	79 65	79 66	79 66	79 66	79 66	79.4 65.8	
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	86 68	88 69	86 71				87 67	88 69	86 69	86 67			87 64	85 65	84 68	86 66	85 66															86.1 67.7
HONOLULU WSFU 703	MAX MIN	89 73	88 73	87 72	89 73	89 70	88 73	89 72	87 72	87 72	88 73	88 72	87 69	87 73	84 72	83 70	85 69	86 70	87 70	88 74	88 73	87 74	88 73	83 70	81 69	85 69	87 73	87 73	87 73	87 73	84 72	86.7 71.5	
HONOLULU SUBSTA 704	MAX MIN	84 75	84 75	82 74	83 73	84 72	83 74	83 72	82 74	83 73	83 72	83 74	83 73	85 75	82 74	82 73	85 73	84 76	85 74	85 73	86 74	86 73	83 73	83 71	81 74	81 71	81 73	81 71	81 74	84 73	84 74	83.3 73.6	
KAHUKU 912	MAX MIN	85 73	85 72	85 71				85 72	85 74	85 74	85 73	85 73	85 73	85 73	85 72	85 70	85 71	85 72	85 70	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	84.8 71.7	
KANEHE MAUKA 781	MAX MIN	85 71	80 70	83 69	80 69	84 72	85 72	84 72	83 71	83 73	84 70	84 71	83 73	84 70	84 69	85 70	86 69	86 70	84 70	83 73	83 73	83 73	82 71	85 70	84 70	80 69	81 71	82 70	82 72	82 73	82 73	83.3 71.3	
LUALUALEI 804	MAX MIN	89 74	87 73	88 74	86 76	89 74	88 73	91 74	88 71	89 73	88 73	88 76	89 70	89 70	84 70	87 68	86 69	87 70	88 70	88 74	89 69	86 76	86 73	89 72	85 69	85 68	85 70	85 69	85 71	85 71	85 71	87.2 72.0	
MAKAPUU POINT 724	MAX MIN	80 69	81 69	79 67	78 69	80 71	80 71	80 80	80 69	80 69	80 71	80 71	80 69	80 69	80 71	80 69	82 69	83 71	84 71	81 73	81 70	80 70	81 74	81 70	81 71	81 71	81 71	84 71	84 71	80 70	78 70	80.5 70.8	
OPAULA 870	MAX MIN	85 62	85 64	81 68	85 69	84 71	87 67	83 69	85 69	82 69	81 68	84 69	84 69	80 67	80 65	82 63	80 61	81 63	80 65	81 65	80 65	81 65	81 65	83 67	81 61	81 61	80 62	80 62	80 62	81 62	80 64	82.1 65.2	
PRI WAHIAWA 820.2	MAX MIN	87 65	87 66	86 68	83 68	86 68	87 65	88 68	86 68	86 68	86 68	86 68	86 64	86 63	88 63	88 64	88 64	85 65	85 65	82 64	85 67	85 68	85 68	85 67	85 67	85 67	85 67	85 67	85 67	85 67	85 67	85.3 65.8	
WAIALEE 896.3	MAX MIN																																
WAIALUA 847	MAX MIN	87 65	89 65	86 67	87 68	87 66	88 65	88 65	87 65	87 65	86 65	87 65	87 62	87 62	86 62	86 62	84 64	89 64	88 64	88 64	88 64	87 64	87 64	87 64	85 65	85 65	84 68	88 68	88 68	85 68	85 63	86.9 64.7	
WAIKIKI 717.2	MAX MIN	87 70	88 73	87 71	88 73	87 69	89 72	87 69	88 71	88 73	88 71	87 69	87 71	87 71	86 69	86 69	86 69	87 71	87 71	87 71	87 71	87 71	87 71	87 71	87 71	87 71	87 71	87 71	87 71	87 71	87 71	87.2 70.7	
WAIMANALO EXP FARM	MAX MIN	85 72	85 71	85 69	83 73	85 74	86 74	85 71	87 70	84 70	85 70	84 71	84 71	85 71	85 71	88 70	87 69	87 69	88 70	87 72	86 72	86 72	85 73	85 74	85 76	83 74	86 71	85 74	83 74	83 74	82 72	84.9 72.1	
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	84 72	84 73	85 73	84 71	84 71	84 72	83 71	84 72	84 71	83 72	83 69	83 74	85 78	84 70	85 66	85 69	85 68	85 70	87 74	86 76	83 74	83 74	81 72	84 72	81 71	81 67	86 74	84 78	83 72	84 73	83.9 71.9	
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	78 62	77 65	79 65	78 64			79 67	76 67	79 67	77 65	77 66			75 63	80 61	80 63	78 65														78.0 64.6	
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	70 51	66 44	65 50	65 49	65 47	61 48	67 48	67 51	65 48	63 46	65 41	61 42	60 41	62 42	60 42	63 46	64 42	63 46	61 44	65 41	65 50	61 44	63 47	65 45	59 47	63 45	67 46	64 44	58 42	62 42	63.5 45.4	
HALEAKALA SUMMIT 338.4	MAX MIN	57 40	65 40	50 40	50 38	50 37	52 39	54 37	54 42	53 40	54 39	52 37	52 40	59 37	57 44	57 44	58 44	57 44	60 44	55 41	60 41	56 40	48 41	50 39	51 40	50 41	53 41	53 41	53 40	55 40	55 40	53.8 40.4	
HANA AIRPORT 355	MAX MIN																																
KAANAPALI AIRPORT	MAX MIN	85 65	86 68	85 67	85 64	86 67	86 68	86 68	86 68	86 66	86 66	85 66	85 66	83 68	85 65	83 68	84 62	87 68	85 62	84 68	85 68	85 66	85 69	85 65	85 68	84 67	84 67	82 67	84 71	85 65	84 64	84.7 66.4	
KAHULUI WSD 398	MAX MIN	87 64	90 64	89 72	87 68	87 70	89 72	87 67	87 72	87 72	88 67	89 67	89 66	87 67	89 66	86 66	91 66	91 66	92 66	89 67	89 71	88 70	87 65	87 65	90 65	91 65	89 67	88 72	87 70	87 72	88 72	88.6 68.4	
KAILUA 446	MAX MIN	80 68	81 69	80 67	78 68	79 67	80 67	80 68	80 68	80 68	80 67	80 67	79 66	79 66	80 66	80 66	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	79.7 67.2	
KEAWAKAPU BEACH 260.2	MAX MIN	88 64	87 64	90 64	90 64	92 64	86 64	87 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	87.8 65.7	

See Reference Notes Following Station Index

DAILY TEMPERATURES

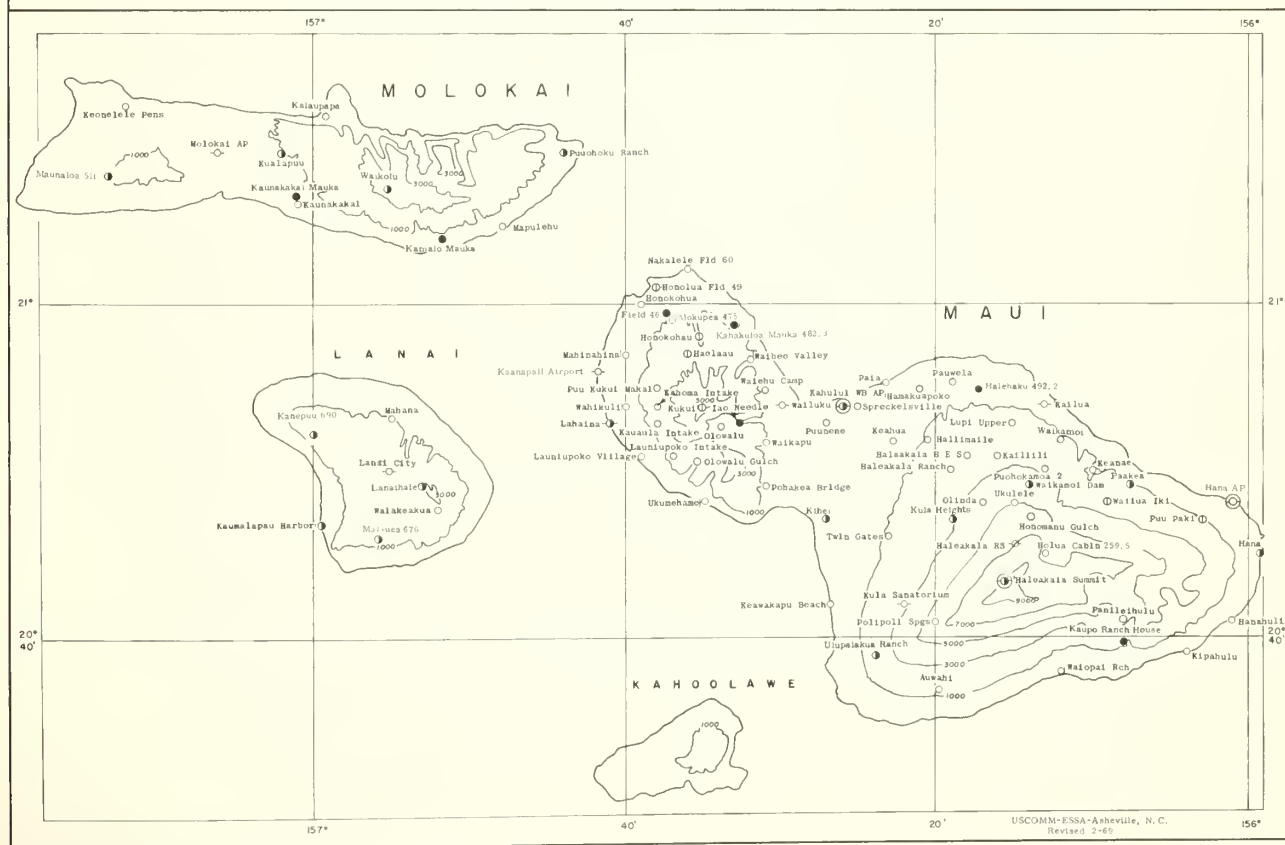
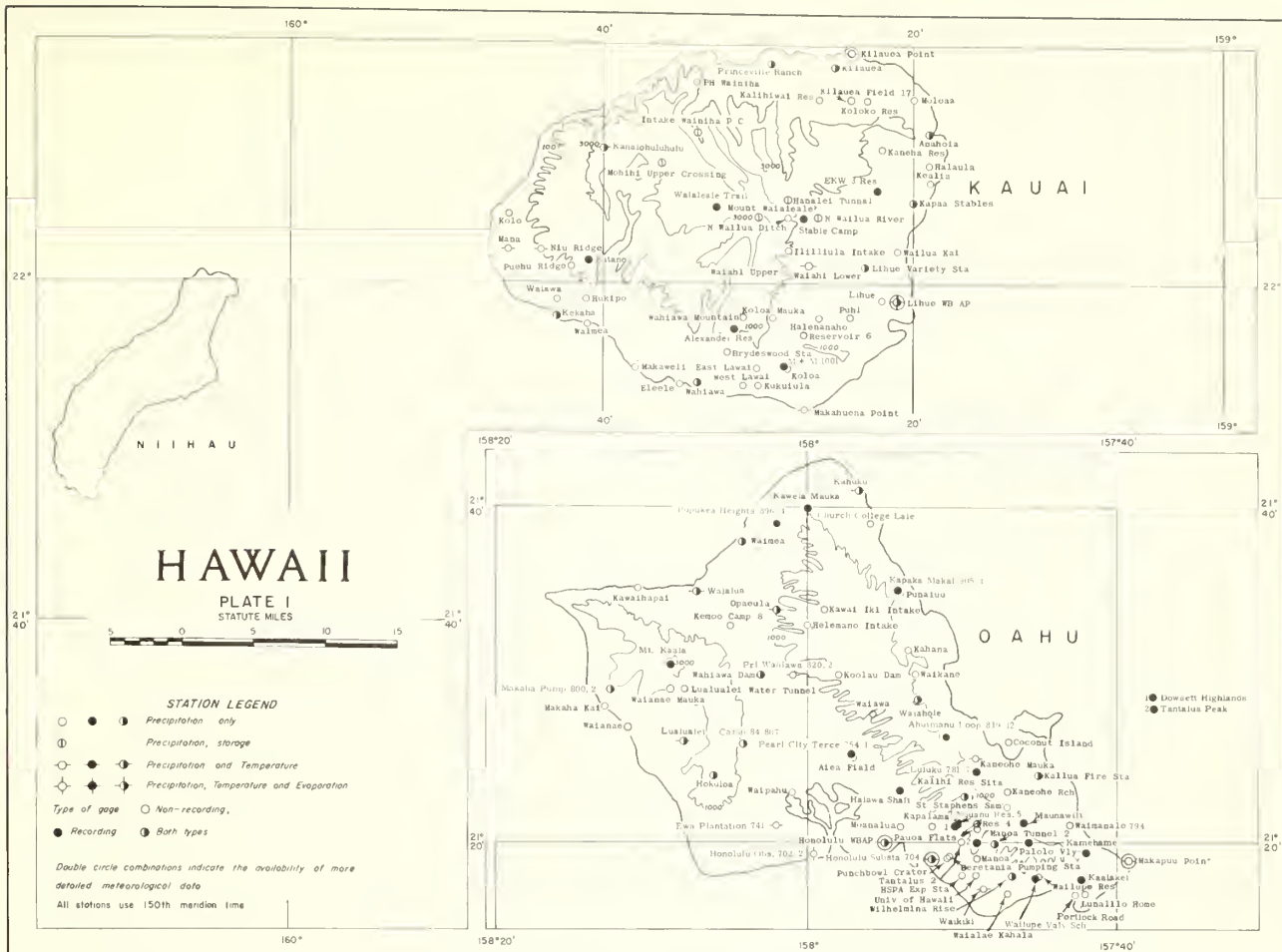
HAWAII
SEPTEMBER 1971

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	75	72	76	75	78	75	78	76	73	78	75	72	72	74	72	73	71	71	77	71	73	72	75	74	70	72	75	73	73	74	73.8	
	MIN	59	58	59	59	57	57	58	59	60	59	58	57	58	56	57	60	60	61	61	60	61	61	60	58	59	59	56	57	58	59	58.6	
LAMAINA 361	MAX	87	88	87	88	88	88	88	88	87	88	89	86	88	87	90	88	88	88	89	89	89	89	88	88	86	92	90	89	89	87	88.2	
	MIN	68	69	70	67	69	69	70	72	71	69	66	67	68	69	69	70	70	70	70	69	71	70	69	69	68	68	68	70	68	67	69.0	
MAILUKU 386	MAX	82	82	84				82	82	81	82			82	81	83	83	83				86	83	83	82	82						82.5	
	MIN	72	73	70				70	71	71	72			71	69	69	70	73				72	74	72	70	70						71.2	
ISLAND OF HAWAII																																	
HAINA 214	MAX	84	85	83	82	82	80	84	84	83	83	83	83	82	84	84	85	84	86	85	82	82	82	82	84	83	85	83	83	84	81	82	83.2
	MIN	67	68	67	66	68	67	67	69	67	68	68	69	68	66	66	66	67	67	70	68	68	70	67	68	67	69	68	67	67	68	68	67.7
HAWAII VOLCANO NP HQ 54	MAX	73	74	70	73	71	71	70	73	72	73	70	72	70	73	73	74	75	71	71	67	70	66	71	72				71	72	65	69	71.1
	MIN	55	52	55	53	53	54	55	56	54	54	53	54	54	55	51	54	55	58	55	52	55	49	55	55				54	56	53	56	54.1
HILO WSO 87	MAX	86	86	85	84	85	84	86	86	84	86	86	86	88	90	88	89	86	87	83	82	82	84	85	86	86	83	84	79	83	83	85.1	
	MIN	66	68	69	66	69	70	68	68	69	69	65	69	68	68	67	69	72	68	67	70	66	67	70	68	65	70	68	65	69	67	69	68.1
KAINALIU 73.2	MAX	79	77	80	80	76	76	77	77	75	78	77	77	78	78	78	77	80	78	79	77	76	77	77	78	79	79	80	80	80	78	77.9	
	MIN	63	63	61	63	60	61	63	63	61	63	63	62	62	61	61	60	62	65	64	63	63	63	63	60	61	63	63	63	63	63	62.3	
KAMUELA 1+2.2	MAX	74	72	74	71	73	74	74	75	72	74	74	73	75	75	78	77	78	79	78	73	73	76	77	77	78	79	73	75	72	73	74.9	
	MIN	60	58	59	58	57	57	58	59	58	58	57	58	60	54	49	52	54	57	60	59	57	57	57	55	58	57	60	60	59	59	57.1	
KEAAU 92	MAX	82	85	83	83	82	82	82	83	83	82	83	83	84	84	84	85	85	84	81	81	80	80	83	83	82	82	81	81	78	81	82.4	
	MIN	64	66	66	66	66	67	67	66	66	64	64	65	67	67	65	65	66	68	67	66	66	65	65	66	66	66	65	65	66	66	65.9	
KEALAKEUA 26.2	MAX	80	80	79	79	80	75	76	77	79	79	78	77	79	79	79	80	78	79	80	78	75	76	79	79	79	79	79	80	78	79	78.4	
	MIN	64	65	63	64	62	63	64	65	65	65	63	63	63	63	64	63	64	67	66	65	64	64	62	64	65	65	65	65	64	64	64.1	
KOHALA MISSION 175.1	MAX	83	83	83	80	82	82	82	82	82	80	82	81	82	83	84	84	85	84	82	82	81	80	82	84	85	83	82	83	78	81	82.2	
	MIN	69	67	69	70	68	67	67	69	67	69	69	69	68	66	66	66	67	69	70	68	68	69	66	66	69	70	69	68	69	67	68.0	
KONA (KAILUA) 68.2	MAX	88	85	86			85	83	84	82				84	84	85	86	86				86	84	84	86	85			86	85	85	85.0	
	MIN	72	71	71			68	71	70	69	68			69	71	70	70	71				69	69	72	69	67			69	72	71	70.0	
KULANI CAMP 79	MAX	66	66	64	62	65	65	65	67	57	66	63	65	65	68	69	69	67	69	69	64	67	66	64	65	67	64	61	65	60	62	65.1	
	MIN	49	49	51	47	50	48	45	50	51	55	48	51	46	47	45	45	47	53	49	47	54	46	48	52	51	49	46	52	50	53	49.1	
MAUNA LOA SLOPE OBS	MAX	54	57	54	53	55	59	58	55	56	56	52	54	56	56	55	56	52	40	51	54	50	51	51	53	50	46	49	56	54	51	53.1	
	MIN	36	36	36	35	36	38	39	39	39	37	36	36	39	38	39	38	37	38	35	34	41	36	35	33	35	34	34	35	35	35	36.5	
MOUNTAIN VIEW 91	MAX	80	80	79	79	79	79	79	81	79	77	80	80	80	81	80	82	81	78	78	78	74	75	78	79	80	78	78	78	71	77	78.6	
	MIN	59	61	61	60	60	60	60	61	61	60	58	58	58	60	59	59	61	59	59	59	59	59	59	60	59	59	59	59	61	62	59.6	
NAALEHU 14	MAX	82	82	80	80	80	82	82	82	81	81	82	82	82	80	82	81	82	82	83	83	79	78	79	82	82	80	80	82	78	80	81.0	
	MIN	66	68	70	70	70	66	66	66	66	68	68	66	66	69	66	68	70	70	67	67	67	67	68	69	67	67	67	69	68	70	67.5	
ODKALA 223	MAX	82	83	83	82	82	83	84	83	82	82	83	83	84	83	82	84	83	86	86	81	80	82	82	83	80	82	81	83	81	81	82.5	
	MIN	68	68	67	67	67	67	69	70	69	68	68	68	69	68	66	65	69	69	69	69	68	68	67	67	66	70	66	62	66	67	67	67.6
OPIHIHALE 2 24.1	MAX	74	80	81	75	74	74	74	76	76	76	77	77	76	74	75	78	75	76	75	76	77	79	73	81	77	81	77	78	77	75	76.5	
	MIN	64	61	62	61	60	60	62	64	63	60	60	60	60	61	62	62	63	66	66	62	64	60	60	62	62	63	62	63	61	62	61.9	
PAHALA 21	MAX	85	84	81			83	81	82	83	83			84	83	83	84	84				83	82	77	81	81			83	78	83	82.3	
	MIN	64	63	66			62	63	63	62	63			62	63	63	63	65				64	65	62	62	63	63	63	63	65	65	63.4	
PUAKO 95.1	MAX	97	87	87	86	87	87	85	87	84	85	87	86	85	84	85	86	86	83	85	87	87	84	86	85	84	87	87	86	86	85	85.8	
	MIN	71	71	70	73	70	70	69	70	74	71	69	68	69	68	69	70	70	73	74	72	73	69	70	66	69	70	69	73	73	75	70.6	
UPDLU POINT USCG 159.2	MAX	84	82	82	84	83	83	83	83	83	81	84	84	65	83	85	85	86	84	84	83	79	79	80	83	86	85	82	82	80	76	82.8	
	MIN	70	73	72	69	70	69	69	72	72	70	71	67	70	67	71	73	66	69	74	73	73	69	73	73	69	73	72	69	69	68	70.6	

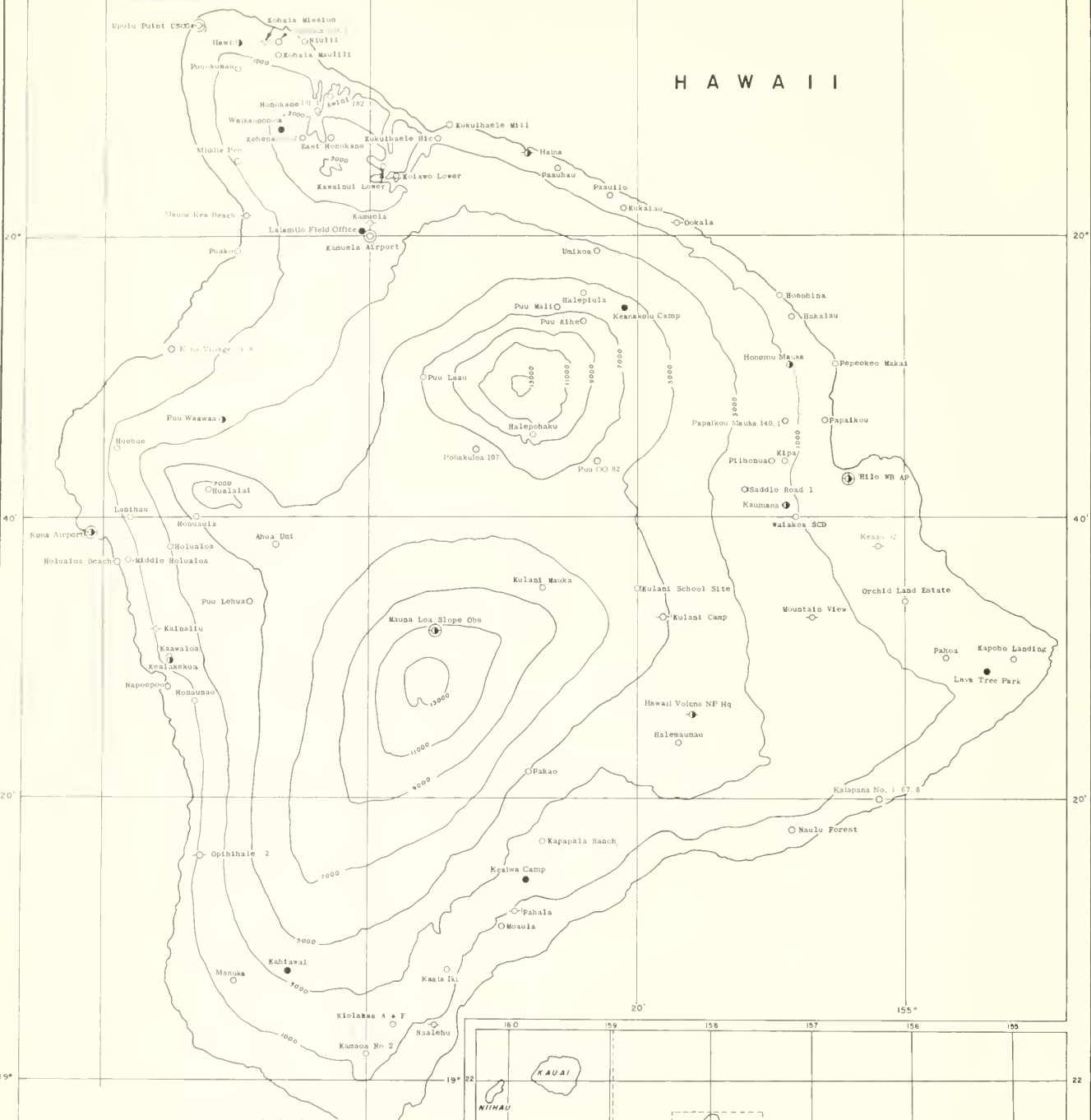
EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.38	.43	.38	.36	.31	.31	.36	.27	.34	.36	.38	.36	.34	.32	.26	.27	.20	.35	.34	.38	.39	.30	.35	.35		.30	.33	.29	.17	.32	9.858	
	WIND	146	154	226	188	123	146	168	151	184	197	210	173	63	153	63	64	70	128	161	191	224	180	109	87	79	156	209	199	180	211	4593	
	MIN	64	65	65	63	63	65	65	65	65	64	64	63	63	62	61	61	62	63	66	64	65	65	65	62	62	61	63	63	64	64	64	63.5
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.36	.26	.32	.34	.31	.40	.31	.40	.25	.30	.24	.30	.18	.30	.24	.24	.22	.17	.16	.28	.29	.20	.30	.10	.14	.15	.15	.16	.38	.30	7.75	
	WIND	38	31	42	42	38	34	39	27	34	42	36	27	30	30	27	27	30	26	26	37	41	35	27	14	26	21	33	34	39	46	979	
	MAX	94	91	91	91	91	92	91	87	87	91	88	88	90	90	94	93	92	85	83</													



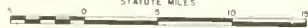
156° 40' 20' 155°

HAWAII



HAWAII

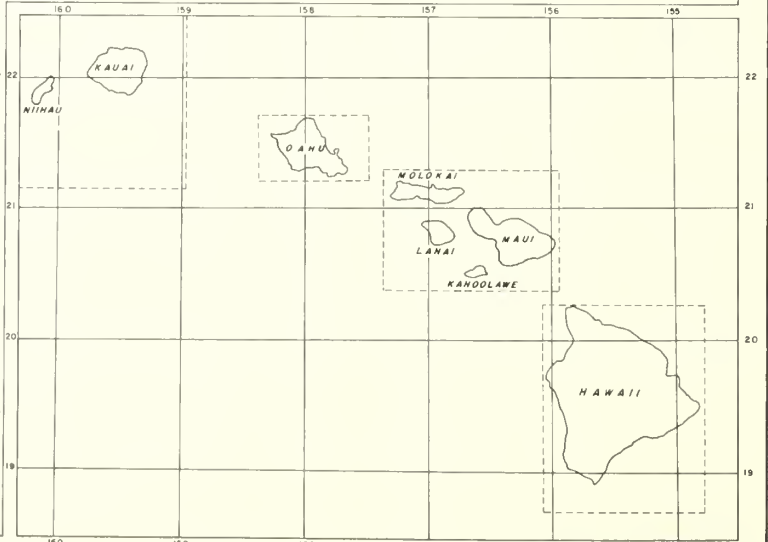
PLATE 2
STATUTE MILES



STATION LEGEND

- ● ● ● ● ● Precipitation only
- ⊕ Precipitation, storage
- ● ● ● ● ● Precipitation and Temperature
- ⊕ ● ● ● ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording
- ⊕ Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time



156° 40' 20' 155°

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801



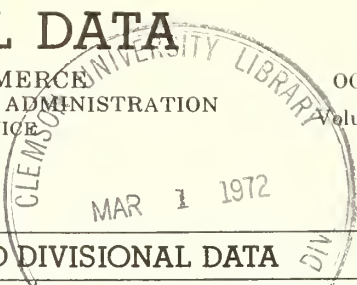
POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 ENVIRONMENTAL DATA SERVICE

OCTOBER 1971
 Volume 67 No. 10



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days			Total	Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days				
									80° or Above	50° or Below	31° or Below					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
																						Max.	Min.
* * * ISLAND OF KAUAI																						
ANAHOLA 1114																						
KANALOHULUHULU 1075	71.0	52.3	61.7		76	10	46	26	0	0	0	0	1.14	- 3.78	1.11	31	.0	0	6	2	1	
KAPAA STABLES 1104													4.14				.0	0				
KILAUEA FIELD 17 1135													1.76				.0	0				
KILAUEA POINT 1133	80.8M	72.4	76.6M		87	17	67	17	0	0	0	0	3.44	- 3.63	.50	28	.0	0	14	1	0	
													3.14				.0	0				
* * * ISLAND OF OAHU																						
KOOLA 936													3.31	- 2.00			.0	0				
LIHUE WSD 1020.1	83.0	73.6	78.3	- 1.4	85	17+	68	28+	0	0	0	0	3.18	- .85	1.15	29	.0	0	5	2	1	
MANA 1026	85.6	66.4	76.0	- 1.0	90	18	62	31	1	0	0	0	1.75	- .30	.91	30	.0	0	4	1	0	
N WAILUA QITCH 1051													13.32		3.66	19	.0	0				
PH WAINIHA 1115													3.31	- 4.93	.70	19	.0	0			1	0
* * * ISLAND OF MOLOKAI																						
PUEHU RIDGE 1040													3.11		1.50	30	.0	0	6	2	1	
WAHIAWA 930													2.11	- .91	1.04	27	.0	0			1	0
WAIHI LOWER 1054	77.5	65.5	71.5		81	8	60	28	0	0	0	0	7.59		.95	19	.0	0	19	5	1	
WAIIMEA 947													2.38	.47	1.10	30	.0	0	5	2	1	
* * * ISLAND OF MAUI																						
ISLANDO			72.8										3.83				.0	0				
* * * ISLAND OF HAWAII																						
HONOLULU OBSERV 702.2	85.2	70.7	78.0	- .2	88	6	64	28	0	0	0	0	3.24		1.58	30	.0	0	4	2	2	
HONOLULU WSPD 703													2.27		1.12	29	.0	0	4	1	0	
KAHUKU 912													1.00	- 3.16			.0	0				
KANEHE MAUKA 781	82.3M	71.2	76.8M	.7	85	30	67	28	0	0	0	0	4.00	- 1.75	1.05	19	.0	0	9	3	1	
KOOLA OAH 833													6.79	- 1.01	1.25	23	.0	0	16	5	2	
LUALUALEI 804	85.3	70.5	77.9		88	9+	64	28	0	0	0	0	.95				.0	0			0	
HAKAPUU POINT 724	79.7	70.5	75.1		84	14	69	29+	0	0	0	0	.97	- 2.03	.37	26	.0	0	3	0	0	
NUUANU RES 4 783													3.86	- 5.07	.72	25	.0	0	12	3	0	
OPAEULA 870	79.2	62.1	70.7	- 1.7	82	3	59	17	0	0	0	0	1.37	- 3.48			.0	0			0	
PALOLO VALLEY 718													4.10	- 6.73	.74	25	.0	0	12	3	0	
PRI WAHIAWA 820.2	83.5	64.4	74.0		87	7	59	29+	0	0	0	0	3.16		1.00	19	.0	0			1	
WAHIAWA DAM 863													5.31		3.35	19	.0	0			1	
WAIHOLE 837													5.96	- 6.12			.0	0				
WAIALEE 896.3																	.0	0				
WAIALUA 847	84.9	64.1	74.5	- .9	88	13+	59	28	0	0	0	0	1.45	- 1.24	.58	30	.0	0	5	1	0	
WAIKIKI 717.2	85.7	71.2	78.5		87	17+	64	28	0	0	0	0	1.37		.78	30	.0	0	4	1	0	
WAIMANALO EXP FARM	83.4	71.4	77.4		86	14	65	29+	0	0	0	0	2.53		1.40	19	.0	0	6	1	1	
WAIPAHU 750													2.72	.38			.0	0				
* * * ISLAND OF LANAI																						
ISLANDO			76.2										3.00				.0	0				
LANAI CITY 672		M	M	M	79	25+	59	20+	0	0	0	0	1.28	- 1.67			.0	0			0	
* * * ISLAND OF KAUAI																						
ISLANDO			76.2										1.28				.0	0				
* * * ISLAND OF MAUI																						
HALEAKALA B E S 434	63.5	44.1	53.8		70	16	37	27	0	0	0	0	2.20	- 2.09	1.00	22	.0	0	5	1	1	
HALEAKALA RS 338													1.15		.37	18	.0	0	7	0	0	
HANA AIRPORT 355	83.5	64.5	74.0		86	10	59	19	0	0	0	0	3.71		.56	24	.0	0	10	2	0	
HONOKOHUA 493													1.41	- 1.27			.0	0				
KAANAPALI AIRPORT	83.3	66.1M	74.7M		86	14	62	18	0	0	0	0	1.04		.88	12	.0	0	1	1	0	
KAHULUI WSD 398	86.7	66.6	76.7	- .6	92	13	60	28	1	0	0	0	.07	- .80	.02	21+	.0	0	0	0	0	
KAILUA 446	78.3	65.5	71.9	- .8	80	18	62	28	0	0	0	0	6.60	- 2.72	.83	1	.0	0	17	5	0	
KEANAE 346													8.20	- 7.15			.0	0				
KIPAHULU 258													3.69	- 4.61	.68	22	.0	0	11	3	0	
KULA SANATORIUM 267	73.3	57.6	65.5	- .7	76	31+	55	15	0	0	0	0	.95	- 1.31	.75	18	.0	0	1	1	0	
LAHAINA 361	87.5	67.8	77.7		90	23	65	15	1	0	0	0	.20	- .80	.20	29	.0	0	1	0	0	
PAIA 406													.43	- 1.73	.16	22	.0	0	1	0	0	
WAILUKU 386	81.7M	69.8M	75.8M	- 1.2	85	14	66	28	0	0	0	0	.11	- 1.75	.07	2	.0	0	0	0	0	
* * * ISLAND OF HAWAII																						
ISLANDO			71.3										2.29				.0	0				
HAINA 214	81.3	67.0	74.2	.2	83	13+	64	19	0	0	0	0	1.90	- 3.35	.66	20	.0	0	4	2	0	
HAWAII VOLCONS NP HQ 54	69.9	53.0	61.5	- 1.4	75	25+	45	19	0	0	0	0	5.27	- 1.61	1.52	7	.0	0	12	3	1	
HILD WSD 87	83.7	67.0	75.4	.3	87	12	63	18	0	0	0	0	7.28	- 3.92	1.64	6	.0	0	16	5	0	
HUEHUE 92.1													.73	- 2.86			.0	0				
KAINALIU 73.2	78.1	61.7	69.9		81	29+	59	19+	0	0	0	0	3.08	- 3.12	.86	31	.0	0	7	2	0	

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 121

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
OCTOBER 1971

Continued

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										80° or Above	31° or Below	31° or Below	31° or Below														
KEAAU 92	81.2	64.5	72.9	- 1.5	84	13	61	18*		0	0	0	0	8.27	- 4.11	1.58	7	.0	0		18	7	2				
KEALAKEKUA 26.2	78.6	63.5	71.1		81	31*	60	19*		0	0	0	0	2.07		.53	31	.0	0		4	2	0				
KONA (KAILUA) 68.3					87	11	67	18		0	0	0	0	.07		.05	13	.0	0		0	0	0				
KUKUI-AELE HIC 199					69	20	40	15		0	0	0	0	2.67	- 3.27	.82	7	.0	0		4	2	0				
KULANI CAMP 79	63.9*	47.6*	55.8*		69	20	40	15		0	0	0	0	5.29		1.33	7	.0	0		10	4	1				
PAHALA 21					85	4	59	19		0	0	0	0	.72	- 3.29			.0	0				0	0			
PONAKULDA 107														.81			31	.0	0				0	0			
PUDKO 95.1					88	24*	66	25*		0	0	0	0	.03		.02	31	.0	0				0	0			
PUU HAAWAA 94.1	85.8	70.2	78.0											.50	- 2.38	.20	13	.0	0				3	0			
UMIKOA 118														.80	- 4.15	.24	18*	.0	0				3	0			
WAIKOA SCO 88.2														9.23		2.52	7	.0	0		16	7	3				
ISLAND			69.9											3.05				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

- HIGHEST TEMPERATURE: 92° ON THE 13TH AT KAHULUI WSO 398, MAUI
- LOWEST TEMPERATURE: 31° ON THE 17TH AT MAUNA LOA SLOPE OBS, HAWAII
- GREATEST TOTAL PRECIPITATION: 10.82 AT HONOMU MAUKA 138, HAWAII
- LEAST TOTAL PRECIPITATION: .00 AT 8 STATIONS
- GREATEST ONE-DAY PRECIPITATION: 3.86 ON THE 7TH AT MOUNTAIN VIEW 91, HAWAII

See Reference Notes Following Station Index

U
N
F
A

SPECIAL WEATHER SUMMARY

Although the month was devoid of spectacular or damaging weather, the first high surf of the season and a band of thunderstorms and intense, but scattered, showers brought a foretaste of the coming winter. Meanwhile, a prolonged dry spell hung on over much of the State, but the drought in Maui and Molekai was declared officially over.

High waves generated by a Pacific storm far to the north of Hawaii began arriving along the north and west shores of Kauai and Oahu on the morning of October 7. Swell of 8 to 9 feet over the open sea near the northern islands produced surf of 20 feet or more at Waimea Bay and of 12 to 15 feet at Sunset Beach and Haleiwa -- all noted surfing spots on Oahu's north shore. The surf reached heights of 30 feet at French Frigate Shoals but of no more than 6 to 8 feet along exposed coasts of Maui and Hawaii Island. Although the waves did no damage, a number of surfers and swimmers made incautious by a long summer of small surf had to be assisted ashore by lifeguards and fire rescue squads.

On October 17 and 18 a broad westward-moving band of bad weather, associated with low pressure systems at both lower and upper levels of the atmosphere, moved over the islands, accompanied by massive clouds, thunderstorms, and intense but widely scattered showers. Localized street flooding occurred in Honolulu and two waterspouts were observed off western Oahu.

During most of the rest of the month trade winds of moderate strength prevailed. These became strong and gusty at times and from 5 p.m. on the 21st to 5 a.m. on the 24th small craft warnings were in effect for Hawaiian waters.

The effects of the persistent dry spell that had affected the State since early in the year continued to dwindle away. By October 4 full water service had been restored to Maui's Kula residents after almost 2 months of strict rationing. A few days later, on October 8, forest reserves which had been closed since September 1 in the Koolau and Hana areas and since September 3 in the Kula and Kahikinui areas, all on East Maui, were reopened. And on October 18 the Maui County Board of Water Supply declared the drought in Kula and in Kalae, Molokai, officially over. The only remaining water restrictions in the State, those imposed September 20 on irrigation in Hawaii Island's Lalamilo area, were to be lifted October 31.

But despite the widespread drought-relieving trade wind showers, especially frequent over the mountain watersheds of the northern islands, and the scattered downpours of the October 17-18 period, rainfall totals for the month were still well below normal over much of the State, with large portions of all the islands reporting less than half their October means. This was true of northeastern Kauai, parts of Lanai and Oahu, all of Molokai, Maui's central valley and southeastern West Maui (many gages in both areas received no rain at all) and of Hawaii Island's Hamakua and Kona districts. In fact, October's rainfall deficiencies were so widespread as to make it seem premature to consider the drought safely over. Perhaps even more ominous, however, was the increasing number of stations with lengthening periods of deficient rainfall. A representative selection of those with below-normal rainfall in six or more successive months is listed below.

Station	Number of Successive Months With Below-Normal Rainfall (6 or more months, only)
<u>KAUAI</u>	
North Wailua River	6
Powerhouse Wainiha	6
<u>OAHU</u>	
Kahana	6
<u>LANAI</u>	
Lanai City	9
<u>MAUI</u>	
Hana	6

H A W A I I - O C T O B E R 1 9 7 1

SPECIAL WEATHER SUMMARY

Station	Number of Successive Months With Below-Normal Rainfall (6 or more months, only)
<u>MAUI</u> - Continued	
Kailua	6
Kula Sanatorium	6
Mahinahina	9
Paakea	6
Paia	6
Wailuku	9
<u>HAWAII</u>	
Haina	7
Halepiula	8
Honohina	6
Huehue	9
Kamuela	9
Mauna Loa Observatory	6
Niulii	7
Pahoa	6

Stations With Less Rain in October 1971
than in Any Previous October

(25 years of record or more, only)

Station	Length of Record (Years)	Previous Least October Total	October 1971
<u>KAUAI</u>			
Anahola	41	1.16 Inches	1.14 Inches
<u>HAWAII</u>			
Middle Holualoa	29	0.87	0.33
Napoopoo	31	1.54	1.29

Saul Price
Regional Climatologist for Pacific Region
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
OCTOBER 1971

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KAWAII LOWER 193	8.17	1.27	*	*	*	*	*	3.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KEAU 92	8.27	.57	1.06	.55	.01	.17	.54	1.56	.01	.15			.10	.21																				
KEALAKEUA 26.2	2.07	.07	.06	T																														
KEHENA 181.2	6.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KILOAKAA A & F 6	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KIPA 89.2	9.33	.81	.31	.14	.62	.02	.45	2.44	T	.03			.10	.15	.09																			
KOHALA MAULILI 176	2.94	.02	*	*	.21	.17	.48	.58	.02	*																								
KOHALA MISSIION 175.1	2.31	.01	.02	.13	.16	.12	.42	.50	T				.03	.20	.04																			
KOIKAE LOWER 196	4.80	.52	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KONA (KAIIUA) 68.3	4.00	T						2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KONA VILLAGE 93.8	.00																																	
KUKAIUA 222	1.93	.05	.15	.09	T	.01	.01	.65					.02	T																				
KUKUIHAELE HIC 199	2.67	.04	.08	.06		.05	.03	.47	.82	.01	.07		.06	.03																				
KUKUIHAELE MILL 206	1.88	.06	*	*	.23	.01	.05	.85						.15																				
KULANI CAMP 79	5.29	.30	.17	.02		.03	.13	1.33	.03	.03			.02	.01																				
KULANI MAUKA 76	1.16	.05						.39	.03																									
KULANI SCHOOL SITE 78	5.69	*	1.47	*				.04																										
LANIHAU 68.2	2.51	.04	.08						.04																									
MAKAHALAU 103	1.36	T	*	*	.60	T		.16																										
MANUKA 2	.70	*	*	*				.10																										
MAUNA LOA SLOPE ORS	.81							.04																										
MIDDLE HOUAULOA 68.1	.33	.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MIDDLE PEN 147.1	.00																																	
MOAULA 18	1.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MOUNTAIN VIEW 91	10.53	.50	.66	.33	.11	.06	.60	3.86	.03	.20		.14	.28																					
NAALEHU 14	4.02	*	*	*	.08	*	.03	.71	.01																									
NAPOOPOO 28	1.29	*	*	*	.24	*	*	.07	.01																									
NIULILI 179	2.04	.03	*	*	.08	.10	.60	.67	*	*	*	*	.05	.11	.03																			
OKALA 223	3.34	.11	.21	.29	.04	T	.16	1.20	T																									
OPHIHALE 2 24.1	2.67	.93	.47	T				.04	.10	T	.03	T	.01	.09	T																			
ORCHIO LANO EST 91.5	9.81	2.77	*	*	*	*	*	4.27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PAAUHU 217	1.82	.02	.11	.08		.05	.03	.67	.03	.01	.02																							
PAAUHU 221	1.49	.01	.20	.02	T	.01	.01	.61	T	.01																								
PAHALA 21	.72	*	*	*	*	*	*	.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PAHALA 65	10.53	.97	1.05	.53	.17	.12	.47	.87	.15	.29		.20	.40	.03																				
PAKAO 37	4.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PAPAIAKOU 144.1	8.87	.76	.38	.64	.23	.04	.56	1.95	.08		.03	.23	.01																					
PAPAIAKOU MAUKA 140.1	8.89	.71	.46	.18	.15	.01	.52	2.10	T	.09	.05	.55	.01																					
PEPEEKOKAI 144	8.91	.93	.15	.13	.04	.04	.95	2.25	.02	.10																								
PIIHONUA 89	8.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
POHAUKOULA 107	.81	.24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUAKO 95.1	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU KIIHE 120	1.22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU LAU 102.1	.74	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU LEHUA 73	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU MALI 113	1.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU OO 82	2.56	.12	.19										.03	.07																				
PUU WAIWAI 94.1	.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
SADDLE ROAD 1 84	12.07	.70	*	*	*	*	*	3.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
SOUTH POINT CORRAL 3	2.21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
UMIKOA 118	.80	.05	.24	.03				.11																										
UPOLU POINT USCG 159.2	.71		.01				.34	.07						.02																				
WAIKAEA SCO 88.2	9.23	.65	.51	.13	.05	.03	.44	2.52		.10	.06	.10																						

SUPPLEMENTAL DATA

Station	Wind (Speed — m.p.h.)						Relative humidity averages— percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover	sunrise to sunset	
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over				Total
							150TH MERIDIAN													
							02	08	14	20										
HILO WSD 87	19	1.2	5.6	16	E	12	86	79	69	86	4	5	11	4	1	0	25	45	6.8	
HONOLULU WSFO 703	5	10.5	12.9	28	NE	22	78	74	56	71	8	8	3	0	1	0	20	64	5.5	
KAHULUI WSD 398	5	9.9	11.6	31	NE	31	83	72	54	74	7	4	0	0	0	0	11	73	4.4	
LIHUE WSD 1020.1	6	8.5	11.1	22	NE	19	77	73	67	75	10	11	3</							

DAILY TEMPERATURES

HAWAII
OCTOBER 1971

Station	Day of Month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																		
KANALOHULUHU 1075	MAX 58	70	71	73	70	75	73	73	72	73	76	75	67	69	73	75	74	73	69	74	73	71	70	70	72	69	67	71	66	64	62	71	71.0	
	MIN	58	57	55	48	48	47	52	52	51	49	55	55	53	54	54	55	52	48	48	49	54	58	57	55	51	55	52	46	51	50	52	52.3	
KILAUEA POINT 1133	MAX	81	80	84	79	82	79	65	79	83	80	79	79	85	79	83	78	87	79	84	78	78	80	81	79	83	79	84	78	78	78	80	80.8	
	MIN	78	70	76	69	77	69	75	69	78	71	77	69	77	69	77	69	69	67	69	78	72	69	69	76	69	75	69	74	68	74	68	76	72.4
LIHUE WSO 1020.1	MAX	84	83	83	83	83	84	84	85	83	84	83	82	85	84	84	85	85	83	83	82	83	83	83	83	82	83	84	81	79	78	82	83.0	
	MIN	74	76	73	70	72	76	76	74	76	76	76	73	71	78	77	72	70	68	70	75	77	78	76	72	76	73	70	68	70	73	77	73.6	
MAKAHUEA POINT 940.1	MAX	84	85	84	85	84	83	83	83	85	86	85	85	81	87	81	82	85	83	87	85	84	85	66	84	84	87	83	84	83	84	81	84.1	
	MIN	74	70	72	65	69	76	73	70	74	75	74	74	77	74	74	70	74	66	73	75	76	74	73	71	72	72	74	68	71	68	71	72.2	
MANA 1026	MAX	88	89	88	88	87	85	88	89	87	87	88	84	81	86	83	89	88	90	86	85	87	87	81	85	84	84	83	88	83	79	76	85.6	
	MIN	65	67	66	69	65	68	68	64	66	69	65	68	72	65	64	67	67	69	65	63	69	65	66	67	66	67	65	66	65	67	62	66.4	
NIU RIDGE 1035	MAX	82	81	82	83	80	81	82	81	81	83	82	84	82	83	83	82	83	84	82	80	81	83	81	82	83	79	80	85	87	77	79	81.8	
	MIN	65	63	63	64	63	65	65	64	64	65	63	66	65	65	66	64	64	65	63	64	64	64	63	63	64	62	63	63	64	65	66	64.1	
WAIHI LOWER 1054	MAX	77	78	78	78	79	79	78	81	80	80	78	77	78	77	78	80	80	78	77	76	78	76	76	76	76	76	78	72	72	75	77.5		
	MIN	66	64	65	62	64	65	66	64	66	67	66	67	64	67	65	64	64	67	62	67	69	66	68	67	68	68	63	60	65	67	67	65.5	
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX	84		84	86	85	87	86		86	87	84	85	85		86	86	85	86	83	86	85	84		84	83	84	86	83					
	MIN	68		66	65	64	66	65		66	66	70	67	66		70	67	66	62	62	69	70	71		67	68	63	59	64					
HONOLULU WSO 703	MAX	86	87	86	87	86	88	87	87	86	87	87	84	83	87	87	86	84	82	86	85	85	85	84	85	86	86	81	83	80	83	85.2		
	MIN	73	73	72	70	69	68	69	73	72	74	74	71	72	72	72	72	68	66	66	74	74	73	71	70	71	70	68	64	69	69	73	70.7	
HONOLULU SUBSTA 704	MAX	81	82	81	83	82	83	83	83	83	84	84	84	83	83	82	83	82	81	82	82	82	81	81	81	83	84	82	80	82	81	81	82.2	
	MIN	74	75	75	74	75	75	75	75	73	74	74	74	73	75	75	75	72	71	72	76	76	75	74	72	73	72	73	70	71	70	75	73.6	
KAHUKU 912	MAX	83		84	84	84	81	83		85	85	84	85	85	84		85	85	84	83	83	83	83		83	82	83	84	83					
	MIN	73		73	74	74	71	75		72	71	71	76	75		66	70	75	75	76					70	73	63	65	64					
KANEHOE MAUKA 781	MAX	81	82	83	82	83	83	80	83	84	82	83	84	82	84	83	84	84	83	83	82	81	82	82	80	80	83	82	80	85	80	82.3		
	MIN	71	71	69	70	70	71	70	71	71	69	72	72	70	71	73	72	70	68	70	74	74	74	72	71	72	71	72	67	68	72	73	71.2	
LUALUALEI 804	MAX	85	84	86	87	85	88	87	86	88	87	87	86	87	83	86	86	86	85	83	86	84	84	84	84	85	85	84	84	84	84	83	85.3	
	MIN	71	74	73	71	72	68	71	70	74	74	74	68	69	72	75	68	68	67	65	68	76	74	71	70	70	72	67	64	65	70	75	70.5	
MAKAPUU POINT 724	MAX	78	80	80	80	80	78	80	80	80	79	79	80	83	84	78	79	80	80	82	80	79	79	79	79	79	79	79	79	80	83	79	79.7	
	MIN	70	70	71	70	70	71	70	71	70	71	73	70	70	73	73	70	70	70	71	70	71	70	69	70	70	70	70	70	69	70	73	70.5	
OPAUELA 870	MAX	80	80	82	80	80	80	80	80	80	80	75	80	80	81	79	81	80	80	81	79	80	79	78	79	80	75	79	79	73	75	79.2		
	MIN	64	66	64	61	64	60	60	62	66	62	60	62	60	62	64	65	59	61	61	60	64	63	65	60	62	60	62	60	62	61	62.1		
PRI WAIHANA 820.2	MAX	83	82	83	84	86	85	87	86	86	84	86	86	86	85	85	86	84	85	84	82	82	81	81	78	82	82	84	84	83	80	76	83.5	
	MIN	65	65	66	64	62	63	63	65	65	68	64	63	63	69	65	64	62	60	60	61	70	69	68	66	65	66	62	59	59	66	70	64.4	
WAIALEE 896.3	MAX																																	
	MIN																																	
WAIALUA 847	MAX	84	84	85	85	88	86	86	88	86	87	87	88	88	87	86	84	85	84	84	85	84	82	83	83	83	85	85	85	83	85	76	84.9	
	MIN	64	64	65	64	61	62	62	63	64	65	65	63	68	65	61	63	64	65	61	65	66	65	66	69	67	66	60	59	63	64	68	64.1	
WAIKIKI 717.2	MAX	86	85	86	86	87	86	87	86	87	87	87	87	87	86	87	86	87	85	85	85	86	85	84	86	84	86	86	86	85	84	82	85.7	
	MIN	74	73	73	69	68	71	70	73	73	73	74	75	73	74	75	69	67	67	67	75	75	74	72	71	72	70	68	64	68	68	72	71.2	
WAIMANALO EXP FARM	MAX	82	84	84	84	85	85	85	85	85	84	84	84	85	86	85	84	84	85	80	82	83	82	82	82	80	82	82	83	81	82	82	83.4	
	MIN	74	74	74	74	73	74	72	74	73	71	73	74	72	73	72	72	73	66	69	70	75	72	72	70	71	70	69	65	65	69	69	71.4	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX	82	81	82	83	84	83	86	83	83	83	81	85	84	83	83	81	81	82	77	84	82	80	83	80	80	84	82	84	83	81	82.4		
	MIN	72	70	73	70	70	70	70	70	71	74	72	67	67	71	70	69	75	65	65	67	72	72	72	70	70	69	64	64	70	73	69.9		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX	77		78	76	78	78	78		77	78	78	79	78		79	78	79	76		79	73	79	76		79	77	75	75					
	MIN	64		59	63	64	62	64		63	65	63	63	63		63	63	63	63		59	59	65	63		62	64	63	60					
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX	65	61	60	61	63	67	61	64	69	66	68	63	59	60	61	70	63	60	58	64	68	69	66	69	64	64	60	58	57	63	68	63.5	
	MIN	45	45	43	39	40	40	42	46	49	49	44	40	42	40	41	49	41	39	42	50	54	47	45	46	47	40	37	39	43	50	54	44.1	
HALEAKALA SUMMIT 338.4	MAX	55		57	58	58	54	57		60	60	60	57	62	61		58		53	56	55	57			62	54	53	56	56					
	MIN	38		36	44	42	42	45		42	42	42	48	45		36		41	42	41	44			42	40	40	37	38						
HANA AIRPORT 355	MAX	84	85	84	84	85	82	85	83	84	86	85	85	85	85	85	84	85	85	80	84	80	84	83	82	82	83	82	84	80	81	82	83.5	

DAILY TEMPERATURES

Continued

HAWAII
OCTOBER 1971

Station		Day of Month																															Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KULA SANATORIUM 267	MAX	72	70	75	73	74	71	72	75	73	73	72	74	72	73	75	75	72	72	73	76	75	74	72	75	73	73	72	71	75	73	76	73	76	
	MIN	59	59	57	57	56	57	59	57	58	58	58	59	60	58	55	56	57	57	57	58	57	58	57	57	58	57	57	56	57	60	59	57	57	
LAHAINA 361	MAX	87	89	89	89	88	88	88	89	88	88	87	88	87	88	88	87	88	88	87	87	88	88	89	90	88	86	87	86	85	85	84	86	86	
	MIN	67	67	68	67	67	67	69	68	68	68	68	69	68	70	68	65	66	66	66	66	68	67	70	69	70	70	69	67	66	69	70	68	68	
WAILUKU 386	MAX	83	81		82	81	82	82	81		82	82		82	85				82	81	80	82	82	81			83	81	81	80	82	81	81		
	MIN	71	70		70	71	72	73	70		70	70		70	70				67	69	71	72	70	70			70	67	69	66	68	68	68		
* * *																																			
ISLAND OF HAWAII																																			
HAINA 214	MAX	82	80	82	82	82	82	78	82	83	82	82	82	83	81	82	81	81	82	82	77	80	81	61	81	82	81	81	82	82	81	81	81	81	
	MIN	69	69	65	67	66	66	67	67	68	67	69	67	65	70	66	65	65	66	64	69	68	67	68	68	66	65	67	66	69	68	68	68	68	
HAWAII VOLCNS NP HO 54	MAX	70	64	69	70	71	70	67	70	72	72	70	69	74	70	68	72	72	73	72	75	68	67	69	65	75	72	71	69	69	64	67	69	69	
	MIN	55	54	54	53	53	57	56	53	55	54	56	50	53	53	52	46	48	45	54	54	54	56	52	53	52	52	50	55	57	58	50	53	50	
HILO WSO 87	MAX	82	84	83	83	85	81	83	83	84	83	86	87	86	85	84	84	85	84	85	82	84	83	83	84	86	84	82	85	79	83	82	83	87	
	MIN	68	66	68	68	67	67	69	67	68	68	69	65	68	69	65	65	64	63	64	67	67	68	66	66	66	66	66	66	69	72	70	67	67	
KAINALIU 73.2	MAX	80	74	78	78	79	79	79	76	79	80	81	79	79	77	79	77	77	77	76	78	79	78	79	77	76	78	79	80	81	79	79	78	81	
	MIN	63	62	60	61	60	61	64	61	63	63	61	62	62	63	63	61	60	59	59	62	63	63	61	61	60	61	60	61	64	64	66	61	67	
KAHUELA 192.2	MAX	73	72	75	73	74	75	76	74	73	74	74	75	78	75	74	72	74	79	76	74	73	72	74	73	75	77	75	76	78	77	80	74	8	
	MIN	60	59	60	60	58	53	56	59	60	60	60	60	53	56	59	54	50	49	48	51	60	59	57	53	47	50	54	56	57	53	55	58	8	
KEAAU 92	MAX	81	79	81	81	81	81	79	81	82	82	81	82	84	83	80	82	82	82	82	82	80	81	82	82	82	82	81	79	83	78	80	81	2	
	MIN	67	65	65	65	64	63	65	66	65	67	68	63	62	66	65	61	61	61	62	63	66	67	64	64	64	64	64	65	66	68	65	64	5	
KEALAKEUA 26.2	MAX	79	75	79	79	80	80	80	78	79	79	80	81	80	77	80	79	79	79	76	78	79	78	79	77	76	77	77	79	80	78	81	78	6	
	MIN	66	64	63	63	62	62	65	63	65	64	63	64	64	64	64	63	62	60	60	64	65	64	63	63	63	62	63	62	65	66	67	63	5	
KOHALA MISSION 175.1	MAX	80	80	82	82	81	79	75	80	80	80	80	81	81	81	81	79	80	81	81	80	79	79	79	80	82	82	80	82	83	80	80	80	3	
	MIN	69	70	67	67	67	68	68	69	69	68	69	65	65	66	67	68	64	64	64	66	69	67	70	67	67	66	65	66	68	69	70	67	2	
KONA (KAILUA) 68.3	MAX	85			85	85	85	85	85	85			87	86	85	83	85			85	86	86			85			85	83	85	85	85	85	8	
	MIN	72			68	69	70	72	70				71	70	71	70	70			67	69	70	73	72			71	70	69	70	71				
KULANI CAMP 79	MAX	64	61	63	64	65	60	65	63	67	67	65	54	67	62	64			67	67	68	69	65	64	63	61	64	67	63	65	65	65	63	9	
	MIN	52	50	50	46	44	53	53	48	50	49	52	46	47	48	40			42	45	44	48	49	50	47	47	44	47	45	45	49	54	45	6	
MAUNA LOA SLOPE OBS	MAX	52	53	57	58	62	55	55	55	57	58	54	54	58	60	56	52	49	50	58	59	60	59	58	58	54	52	50	49	48	48	56	55	0	
	MIN	37	36	35	39	42	38	39	39	38	40	40	37	39	42	39			35	31	33	36	40	39	41	41	39	37	33	33	34	37	39	37	
MOUNTAIN VIEW 91	MAX	77	77	77	77	78	78	72	77	78	78	78	78	79	78	76	81	81	81	60	80	75	77	77	77	77	81	76	76	77	74	74	74	7	
	MIN	62	59	59	59	58	58	60	61	61	61	61	58	60	60	60	55	55	55	55	58	63	64	58	58	58	59	60	58	58	58	58	58	58	
NAALEHU 14	MAX	80	80	82	82	80	81	81	80	80	82	82	80	80	81	81	80	81	81	81	82	81	81	80	80	80	81	81	81	80	80	79	80	6	
	MIN	70	70	65	65	67	69	68	64	64	66	66	65	69	68	64	64	64	64	66	70	68	70	70	66	66	67	68	67	69	69	67	66	9	
OOKALA 223	MAX	81	78	81	82	81	82	80	80	80	81	81	81	82	81	81	81	81	81	81	79	80	80	80	80	81	80	80	80	81	82	80	80	80	5
	MIN	67	67	61	66	66	68	68	67	67	67	67	67	66	68	67	66	64	64	63	65	67	67	64	66	68	67	65	66	67	68	69	69	69	
OPIHIHALE 2 24.1	MAX	75	74	75	76	80	77	78	79	80	78	77	75	77	78	77	79	75	75	77	78	78	77	77	74	76	77	77	78	79	79	76	77	0	
	MIN	63	60	60	59	59	61	61	62	61	61	61	62	60	60	61	61	57	56	58	61	62	61	60	58	59	58	59	61	63	65	60	60	3	
PAHALA 21	MAX	81			85	83	82	82	78				84	82	83	80	83			82	83	84	83	82			84	83	82	83	81			4	
	MIN	67			62	62	62	67	63				62	61	61	66	61			60	59	66	64	65			63	63	62	62	65				
PUAKO 95.1	MAX	86	85	86	87	85	85	87	87	87	87	87	86	84	86	85	86	86	85	86	86	85	86	86	87	87	88	85	85	86	86	83	81	84	8
	MIN	76	73	73	71	69	67	72	73	74	73	72	69	72	70	68	72	68	67	66	66	70	73	73	72	66	65	69	70	71	70	70	70	70	
UPDLU POINT USCG 159.2	MAX	82	82	80	82	84	81	83	83	83	85	85	83	84	82	84	82	81	81	84	78	82	82	80	83	81	80	80	82	83	82	81	81	2	
	MIN	67	72	72	70	67	69	68	67	71	70	69	70	66	72	67	67	70	73	69	73	67	67	74	66	70	72	73	68	75	74	75	70	0	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.31	.29	.31	.29	.27	.30	.32	.29	.24	.30	.31	.29	.13	.20	.36	*	*	.95	.28	.28	.21	.26	.38	.32	.32	*	.56	.16	.15	-	.02	8.378
	WIND	212	214	192	116	109	140	149	144	138	152	139	118	36	134	198	173	109	83	54	182	189	267	270	256	194	151	116	85	56	75	101	4552
	MAX	82	83	83	82	84	84	84	83	84	84	84	83	77	80	81	84	84	85	81	82	75	79	79	80	80	81	84	83	83	68	66	81.0
	MIN	63	63	62	62	62	64	64	64	64	64	64	64	63	63	63	63	63	62	58	58	60	65	63	63	63	63	62</					

STATION INDEX

HAWAII OCTOBER 1971

Main table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. Includes sections for ISLAND OF KAUAI and ISLAND OF HONOLULUI.

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE



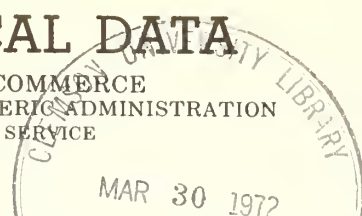
CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

NOVEMBER 1971

Volume 67 No. 11



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation										
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow/Sleet		No. of Days		
										50° or Above	40° or Above	30° or Above	0° or Above					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																						
ANAHOLA 1114	A																					
KANALOHULUHULU 1075		68.0	52.2	60.1		75	21	44	29													
KAPAA STABLES 1104	A																					
KILAUEA FIELD 17 1135	A																					
KILAUEA POINT 1133		79.4	71.1	75.3		87	7	64	3													
KOOLA 936	A																					
LIHUE WSD 1020.1 AP	//R	81.3	72.6	77.0	2.5	83	7+	67	16													
MANA 1026		84.6	64.8	74.7	.0	87	24+	62	22+													
N WAILUA OITCH 1051	A																					
PH WAINIHA 1115																						
PUEHU RIDGE 1040																						
WAHIAWA 930																						
WAIHAI LOWER 1054	A	74.3	64.0	69.2		77	7+	60	16													
WAIHEA 947																						
ISLAND																						
* * * ISLAND OF OAHU																						
HONOLULU OBSERV 702.2																						
HONOLULU WSPD 703 AP	R	82.0	69.4	75.7	-.2	85	6	64	30+													
KANUKU 912	A																					
KANEHE MAUKA 781		79.0	70.5	74.8	.6	83	6	62	8													
KODIAU OAM 833	A																					
LUALUALEI 804	A	82.8	69.2	76.0		86	6	63	28													
MAKAPUU POINT 724		77.0	68.0	72.5		81	7+	52	8													
NUUANU RES 4 783																						
OPAEULA 870	A	73.7	61.9	67.8	-2.4	80	30+	59	4													
PALOLD VALLEY 718	R																					
PRI WAHIAWA 820.2	A	79.9	64.2	72.1		86	8+	60	16+													
WAHIAWA OAM 853	A																					
WAIHOLE 837	A																					
WAIALEE 896.3																						
WAIALUA 847	A	82.2	63.5	72.9	-.5	86	6	60	11													
WAIKIKI 717.2		83.2	70.2	76.7		86	7	66	15													
WAIMANALO EXP FARM		80.5	70.8	75.7		84	6	66	15													
WAIPIHU 750	A																					
ISLAND																						
* * * ISLAND OF MOLOKAI																						
KUALAPUU 534	A																					
MAPULEHU 542																						
MAUNALOA 511	A																					
MOLOKAI AP 524		80.3	69.1	74.7		84	16+	65	5+													
ISLAND																						
* * * ISLAND OF LANAI																						
LANAI CITY 672	A																					
ISLAND																						
* * * ISLAND OF MAUI																						
HALEAKALA 8 E S 434	A																					
HALEAKALA RS 338		61.8	44.4	53.1		69	23+	36	11													
HANA AIRPORT 355		80.4	63.8	72.1		84	5	59	20+													
HONOKOHUA 493	A																					
KAANAPALI AIRPORT		81.1	66.6	73.9		85	7	62	5													
KAHULUI WSD 398 AP	R	85.1	65.9	75.5	.5	90	4	60	29+													
KAILUA 446		75.9	65.2	70.6	-.4	79	11+	63	24+													
KEANAE 346	A																					
KIPAHULU 258																						
KULA SANATORIUM 267		72.7	56.7	64.7	.3	76	5+	54	22+													
LAHAINA 361		85.5	65.9	75.7		87	27+	63	23+													
PAIA 406																						
WAILUKU 386	A	80.5	69.1	74.8	.0	87	8	66	29													
ISLAND																						
* * * ISLAND OF HAWAII																						
HAINA 214		78.8	65.7	72.3	.3	82	26+	63	4													
HAWAII VOLCNS NP HQ 54		69.8	53.1	61.5	.7	75	25+	45	19													
HILD WSD 87 AP	R	81.1	66.5	73.8	.6	84	5+	62	20													
HUEHUE 92.1	A																					
KAINALIU 73.2		76.7	60.7	68.7		81	19	57	22													

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	31° or Below	32° or Below	33° or Below										
KEAAU 92	78.4	64.4	71.4	- 1.2	81	6+	63	21+		0	0	0	0	19.08	5.15	4.20	25	.0	0		27	11	5
KEALAKEKUA 26.2	77.3	62.3	69.8		80	19+	59	23+		0	0	0	0	5.32	1.05	13		.0	0		13	3	1
KONA (KAILUA) 68.3	84.4M	69.2M	76.8M		88	9+	66	30		0	0	0	0	2.19	- 4.72	1.30	12	.0	0		4	2	1
KUKUIHAELE HIC 199														2.04		.40	9	.0	0		6	0	0
KULANI CAMP 79	58.9	46.4	52.7		65	5	35	11		0	0	0	0	17.89		3.02	25	.0	0		25	9	6
PAHALA 21					84	9	60	30+		0	0	0	0	13.08	7.64	5.18	25	.0	0				0
PONAKULOA 107														1.48		.02	25	.0	0				0
PUAKO 95.1														.03		.37	15	.0	0		0	0	0
PUU WAANAA 94.1					87	9+	66	30+		0	0	0	0	1.38	- .71	.89	9	.0	0		0	0	0
UMIKOA 118														2.53	- 3.87			.0	0				0
WAIKOA SCO 88.2														27.41		3.79	25	.0	0		27	14	10
ISLAND			69.3											7.80				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 90° ON THE 6TH AT KAHULUI WSO 398 AP, MAUI

LOWEST TEMPERATURE: 29° ON THE 22D AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 35.83 INCHES AT KIPA 89.2, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 9 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.85 INCHES ON THE 25TH AT NAALEHU 14, HAWAII

SPECIAL WEATHER SUMMARY

November continued what has thus far been a quiet winter, in contrast to last year's tempestuous weather. But there were occasional reminders of the season.

Toward the end of the month, a westward moving area of low pressure (trough) in the upper atmosphere brought a surge of rainfall to the southeastern slopes of Hawaii Island. The bulk of the rain occurred between about noon on the 24th and 8 p.m. of the 25th, with totals of 8 to 10 inches between South Point and the Pahala area. Although intensities did not exceed about 1.25 inches an hour, there was some flooding of fields and roads, with the Belt Highway closed for several hours.

On the 27th, surf along the north shores came up for the second time this season. The big waves, which reached heights estimated at up to 20 feet at Sunset Beach, contributed handsomely to a surfing exhibition, but did no damage, although the usual number of swimmers and surfers had to be helped ashore.

Otherwise, trade winds predominated throughout the month with small craft warnings in effect on four separate occasions, for a total of slightly over 7 days.

Although in terms of water availability, the State seemed to be recovering from the drought of earlier this year, rainfall remained deficient over large areas of all the islands. Thus, while good showers broke an 8-month dry spell in the Waimea area of Hawaii Island, Wailuku, on Maui, registered its tenth successive month of below-normal rainfall, with amounts less than one-fourth of the monthly mean in eight of those months. Elsewhere, western Kauai, Lanai, Maui's south-western coast and central valley, and other scattered gages also had less than one-fourth their average November rainfall.

Also worthy of note were the funnel clouds reported from Wheeler Air Force Base, Oahu, on November 3 and from Lihue, Kauai, on November 15. In the former instance, two funnels reached to within about 1,000 feet of the ground from cumulus clouds with bases at 4,000 feet and tops at 6,000 feet. The Lihue sightings also involved two funnel clouds. These were columnar in shape, one dark and one white, and extended down about 1,500 feet from cumulus clouds whose bases were estimated at 2,200 feet and tops at 4,500 feet. Most remarkable about these occurrences is that the funnels appear to have come from clouds only 2,000 to 4,000 feet thick, in contrast to the towering cumulo-nimbus clouds with which they are ordinarily associated.

Stations With Less Rain in November 1971
than in Any Previous November

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least November Total	November 1971
<u>MAUI</u>			
Keahua	63	.34 inches	.22 inches
Waikapu	79	.17 inches	.06 inches

Saul Price
Regional Climatologist for Pacific Region
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
NOVEMBER 1971

Station	Total	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																
ANAHOLA 1114	A	3.49	.85						.07	.10	.11	.15			1.30	.45	.09					.20	.04	.03						.07	.36	
BRYESWOOD STA 985	A	5.12	.85	.02	.06	.06	T		.59	.25	.08	.58	.12		.13	.02	.08	.16	.07			.53	.04	.04						1.08	.36	
EAST LAWA 934	A	5.44	.86	.05	.02	.02			.57	.30	.21	.48	.16		.15	.02	.06	.22	.07			.89	.08	.09						.81	.38	
ELEELE 927	A	2.51	.90	T		.12			.11	.06	.01	.06	.03		.10	T	.01	.03				.40	.06	T					.30	.32		
HAULAHA 1110	A	4.62	1.10						.15	.07	.05	.23			2.10	.20	.11				.25	.05	.07						.20	.04		
HALENAHOMA 1006	A	5.82	.74	.12	.07	.12			.52	.24	.23	.29	.03		1.33	.05	.22		.04			.56	.08						1.02	.16		
HUKIPO 945	A	.10																														
ILILILUA INTAKE 1050	A	15.11	1.85	.29	.14	.44	.08		.84	.35	.22	.99	.89		2.13	.35	.76	.26	.17			1.35	.05	.19					3.64	.32		
INTAKE MAIHAHA PC 1086	A	8.20	.95	.08					.09	.19	.24	.13	.10	.02		.01						1.26							1.24	.32		
KANALOHULUHULU 1075	A	1.43	.02		.02			.02											.09	.14		.05	.04		.10	.06	.06		.05			
KANEHA RESERVOIR 1092	A	9.55	1.40		.07	.04	.10		.30	.30	.10	.35	.11		4.20	.76	.40		.03			.59	.05	.30				.30	.15			
KAPAA STABLES 1104	A	6.27	1.28			.05			.10	.14	.10	.35			3.40	.04	.23	.03				.30	.03					.13	.07			
KEALIA 1112	A	3.90	.90						.10	.07	.15	.14			1.60	.25	.10				.45	.03	.03					.06	.02			
KEKANA 944	A	.04																														
KILAUEA 1134	A	5.14	.59	.02	.02	.09	.02		.14	.17	.16	.60	.13		2.01	.05	.66	.03	.03			.22	.07					.12	.01			
KILAUEA FIFTE 17 1135	A	7.67	1.03	.09	.01	.12	.01		.30	.16	.23	.55	.31		2.60	.07	.47	.07	.07			.40	.05					.82	.31			
KILAUEA POINT 1133	A	8.64	.14	.06	.11			.08	.07	.08	.41	.14	.50		1.99	.03	1.98	.19	.25	2.00		.10	.40				.01	.10				
KOLOA 1033	A	.03																														
KOLOA 936	A	5.77	1.24	.05		.10			.48	.28	.19	.83	.11		2.20	.01	.05	.10	.04			.64	.16					.75	.54			
KOLOA MAUKA 994	A	8.00	.91	.14	.08	.24			.87	.41	.17	.80	.23		.48				.14			.91	.12					1.41	.75			
KOLOKOLE RES 1137	A	7.99	1.12	.05	.02	.12	.01		.21	.13	.23	.36	.06		3.56	.21	.47	.06	.06			.43	.06					.65	.18			
KUKULUA 935	A	3.10	1.04	.01	T	.13			.31	.16	.08	.36	.05		.02	T	.01		.01			.30	.23	.06				.28	.26			
LIHUE VARIETY STA	A	4.68	.01	.01	.01	.48	.08		.11	.25	.11	.07	.05	.04	1.14	.12	.71	.02	.02	.20	.29	.05	.17	.15	.63	.10		.02	.04			
LIHUE 1020	A	4.67	1.33	.02				T	.08	.02	.11	.01	.04		1.65	.01	.24	.03				.24	.05	.10				.61				
LIHUE WSO 1020.1 AP	//R	2.25	T		.01	.11		T	.06	.02	.13	.15	.01		.64	T	.45	T	.19	.06	.02	.05	.12	.25	.22	T	T					
MAKAHUNA POINT 940.1	A	1.71				.01		.01	.19	.09	.13	.15	.01		.02			.02	.01		.05	.10	.02	.02	.03	.12	.02		.88			
MAKAWALI 965	A	.75				.14		.01	.01	.01	.02	.08						.08	.02		.11				.11			.23	.09			
MAKA 1028	A	.00																														
MOHIMI UPR CROSS 1083	A	3.09				.49			.25	.16	.41	.49	.08	.16				.08		.08	.25	.16	.08	.16	.16	.08		.15	.26			
MOLOAA 1145	A	3.93	.46						.08	.09	.24	.14			1.55	.37	.45				.14											
MOUNT WAIALEALE 1047																																
NIU RIDGE 1035	R																															
N. WAILUA OI TCH 1051	A	18.43	2.00	.36	.20	.20	.30		1.10	.36	.40	.90	.46		3.10	.36	1.16	.36	.16		.12	.02	.11	.98	.21			.01	.02			
PRINCETON 1115	A	4.75	.01	.01	.02			.02	.22	.35	.35	.85	.27	.26	.02	.02		.06	.03	.24	.54											
PRINCEVILLE RANCH 1117	A	4.01		.04					.14	.12	.19	.55	.22		.62			.66	.06	.03		.49	.11	.04					.64	.10		
PUEHU RIDGE 1040																																
PUEHU 1013	A	5.73	1.46	.07	.02	.11	.02		.05	.23	.09	.19	.01		2.11	.05	.10	.07	.02			.32	.08		.03				.81	.04		
RESERVOIR 6 1004	A	5.41	.90	.05	.02	T			.54	.25	.22	.43	.11		.95	.10	.07	.13	.05			.49	.07					.70	.32			
WAILAUA 930	A	1.98	.63	T		.09			.23	.18	.01	.09	.05		.01	T	T	.03	.01		.30	T	T					.18	.26			
WAILAUA MOUNTAIN 990	A	11.00																											11.00			
WAILAHI LOWER 1054	A	8.80	.04	.12	.06	.04	.18		.34	.35	.23	.56	.10	.20	2.0	1.79	.16	.19	.21	.17	.28	.61	.16	.11	.19	1.50	.35	.17	.12	.08	.29	
WAILAHI UPPER 1052	A	11.29	.20	.25	.25	.23	.08	.10	.10	.50	.25	.20	1.05	.65	.30	4.1	.99	.25	.50	.20	.15	.40	.55	.05	.03	.21	2.30	.64	.09	.12	.09	.15
WAILAHA 943	A	.09																														
WAILAUA KALI 1065	A	3.94	1.48		.05				.11	.10		.14			1.20		.09					.23	.08	.05				.43	.08			
WALMEA 947	A	.08																														
WEST LAWA 931	A	3.28	.68	T	.01				.46	.27	.16	.40	.07		.03		.05	.02	T			.38	.05	.07				.30	.33			
ISLAND OF OAHU																																
BERETANIA PUMPING STA CAMPBELL LNO PK 702.5																																
CAMP 84 807	A	2.11	.96	.01	.02	.02		.04			.03				.05			.05		.05		.12						.83	.03			
CHURCH COLLEGE LAIE	A	1.91		.03	.18			.01	.17	.01	.12	.17	.02		.41	.32	.09	.08			.11	.03	.03	.10	.12	.01		.02	.11			
CCDDMT ISLAND 840.1	A	2.64	.04		.18	.57	.16	.02	.09	.03	.08	.08	.02		.14	.06	.55				.03	.09						.02	.03			
EWA PLANTATION 741																																
MELEMANO INTAKE 881	A	5.71	1.31			.56			.34		.03				.60			1.20				.01			1.34				1.70	.06		
HONOLULU 755.2	A	2.12							.04	.23	.02	.43	.11		.95	.10	.07	.13	.05			.13						1.37	.03			
HONOLULU OBSERV 702.2	A	1.32							.02	.06	T				T	T					.02	T	T	.03	.44	.01		.02	.01			
HONOLULU WSPF 703 AP	R	.95	.02	T		T	T	T	T	T	T	T	T		.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
HONOLULU SUBSTA 704																																
H S P A EXP STA 707	A	2.30		.01		.05	.06		.03	.03	.54	.33	.05	.06	.07	.24	T	.09	T	T	.08	.07	.04	.14	.08	.29	.04	.11	T	.01		
KAHANA 883	A	21.90						9.69	.05	.03	.07	.10	.02		.44	.30	.02				2.14							.68	.80			
KANUKU 912	A	2.51	.70	.10	.08				.05	.03	.54	.10	.02		.05	.05	1.00	.01	T	.03	.02	.07	.05					.40				
KALIUA FIRE STA 791.3	A	2.83				.55	T	.28	.08	.28	.06	.11	.02		.05	.05	1.00	.01	T	.03	.02	.01	.01	.22	.15							
KALIMI RES SITE 777	R	10.46	.04	.14	.14	.06	.10		.48	.14	.22	.46	.08	.04	1.4	1.08	1.48	.56	.04	.04	.04	.24	.12	.04	.06	1.12	2.02	.46	.14	.70		
KANDIHE MAUKA 781	A	6.90	.13		.15			.10	.15	.10	.42	.03	.04	.31	.14	1.16	.86	.03	.02	.12	.10	.12	.08	.11	1.10	.30	.25	.01	1.33			
KAPALAMA 773	A	4.03	.98	.38	.08				.17	.02	.22	.41	.03		.31	.22					.03	.02	.08	.01								
KAWAHAPAI 841	A	1.07	.52						.01	.01	.01	.04	T		.03	.01					.03	T						.40	.01			
KAWAI IWI INTAKE 880.2	A																															
KEMO CAMP 8 855																																
KODLUA DAM 833	A	12.49																														

DAILY PRECIPITATION

HAWAII
NOVEMBER 1971

Continued

Station	Type	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF MOLOKAI																																	
KALAUAPA 563	A	2.19								.03			.06	.04		.06	.12	.03	.05		.23	.02		.06	.01	.78		.23	.03				
KAMAOKAI 536	A	.77																															
KEONELE PENS 551	A	.00																															
KUALAPU 534	A	1.58																															
HAPULEHU 542	A	2.76	.08	.01							.02	.04	.27	.25	.01	.09	.32	.17	.01	T			.02	.01	.01	.19	*	*	.05	T	.08	*	*
HAUNALOA 511	A	1.06				.01					.01		.39			.35																	
HOLOKAI AP 524	A	1.08																															
PUUOHUKU RANCH 542.1	A	1.52																															
WAIKOLU 540	A																																
* * * ISLAND OF LANAI																																	
KANEPUU 690	A	.16																															
KAUHALAPU HARBR 658	A	.25																															
LANAI CITY 672	A	.42				.13																											
LANAIHALE 684	A	.79																															
HAHANA 694	A	.02																															
HALAUFA 676	A	.13																															
WAIKAEKUA 685	A	.14																															
* * * ISLAND OF MAUI																																	
AUWAHI-252	A	1.16																															
HALEKALA B E S 436	A	3.81							.04		.25	.18	.73	.21	.20		.06	.05	.12	.26		.04	.19	.08		.01	.06	.67	.54	.12	.60		
HALEKALA RANCH 432	A	1.93								.32	.09	.30	.98	.07	.07		.14	.5	.13	.09						.03	.21	.08	.21	.13	.22	.58	
HALEKALA RS 338	A	1.55								T		.06	.30	.01	T		.08	.06	.07	.03	T												
HALEKALA SUMMIT 338.4	A	3.32	.08	T		.01		.07			.12	.05	T	.05	T		.37	.02	.09	.03	T					.01	.03						
HAIIIMAILE 423	A	1.48									.02	.05	.06	.47	.06	.06		.05	.08		.02	*	*	*		.21	*	*	*	*	*	*	
HANAKOULU 485	A	4.48							.07	.09	.15	.16	.48	.39	.19	.06	.20	.01	.47	.29	.07	.18	.05		.05	.07	.89	.22	.03	.02			
HANA 354	A	7.07	.11	.18	.06					.32	.09	.30	.98	.07	.07		.14	.5	.13	.09					.15	.20	.25	.30	.01	.01			
HANA AIRPORT 355	A	5.72	.10	.05	.09				.20	.17	.11	.70	.31	.11	.10	.42	1.02	.09	.19		.02	.35	.07		.03	.04	.49	.32	.06	.09	.29	.11	.04
HANAHULI 281	A	3.62	.05	.12	.08	.04	.03			.16	.05	.22	.06		.12	.20	.22	.03	.25	.15					.26	.56	.22	.18	.10	.20	.12	.15	
HOLUA CABIN 259.5	A	3.34													.85		2.00								.35		.10	.04					
HONOKOHAU 480	A	7.84														.26	.28	.69		.10					.15	.14	.21						
HONOKOHAU 493	A	2.23								.02	.02																						
HONOHANU GULCH 341	A	4.03														.11	.02	T	.01						.06		.01	.01					
KAANAPALI AIRPORT	A	.30																															
KAHONA INTAKE 374	A	2.50																															
KAHULUI NSD 398 AP	R	1.95								.05	.01	.05	T	.01												.09	.01						
KAILIHI 436	A	8.00																															
KAILUA 446	A	11.33	.12	.34	.15			.04	.51	.32	.35	.80	.58	.75	.42	.27	.89	.10	.73	.60		.03	.45	.30	.15	.43	1.15	1.39	.11	.06	.23	.06	
KAUOLA INTAKE 375	A	1.36														.70										.46							
KEAHUA 410	A	.22																															
KEANAE 346	A	17.30																															
KEAWAUPU BEACH 260.2	A	.00																															
KIHEI 311	A	6.80	.16	.20	.06				.20	.16	.15	.45	.52	.14	.22	.17	.84	.23	.53	.26	.07	.31		.12	.36	.35	.44	.10	.22	.26	.12	.16	
KIPAHULU 258	A																																
KULA HEIGHTS 323.2	A	.20						.07							.03																		
KULA SANATORIUM 267	A	.30																															
LAHAINA 361	A	.00																															
LAUNIUPKO INTAKE 376	A	2.40																															
LAUNIUPKO VILLAGE 372	A	.00																															
LUPI UPPER 442	A	13.50																															
MAHINAHINA 466	A	1.88										.12	.50	.33	.13	.10	.03																
MAKALELE -FLO 60-497	A	1.31											.05	.16	.02	*	*	.16	.02	.03	.01	T			.09	.01	.13		.35				
OLINDA 332	A	1.08																															
TOWALO 296	A	.00																															
* * * ISLAND OF MOLOKAI																																	
OLDWALU GULCH 377	A	.60																															
PAAKEA 350	A	20.95	.36	.41	.15			.06	.88	.91	.65	.76	.75	.17	1.03	.57	1.74	.45	1.52	1.25		.37	.54	.45	.33	.55	.87	3.50	1.60	.08	.41	.59	
PAIA 408	A	1.35							.01	.03	.06	.28	.07	.16	.01	.04		.17	.03		.01	.06	T	.01	.01	.31	.05	.04					
PANILEIHULU 259.2	A	7.75																								.25							
POHAKEA BRIDGE 307.2	A	.02																															
* * * ISLAND OF MAUI																																	
POLIPOLI SPRINGS 267.2	A	.67																															
PUOHOKAHA 2 343	A	19.40																															
PUU KUKUI MAKAI 472	A	4.00																															
PUUNENE 396	A	1.10								.01	.01	T	.02	T											.01		.05	T					
SPRECKELSVILLE 400.2	A	.56								.02	.03	.03	.10	.02	.05	.02								.07		.20	.01	.01					
TWIN GATES 261.3	A	.00																															
UKULELE 283	A	2.55																															
UKUHEHE 301	A	.00																															
ULUPALAKUA RANCH 250	A	.31																															

DAILY PRECIPITATION

HAWAII
NOVEMBER 1971

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAWAUNI LDWER 193	0.21					.52						3.28							1.06														
KEAAU 92	19.08	.40	.48	.10	.07		.25	.76	.17	.83	.20	.49	.65	.73	.50	.20		.90	1.36	1.40	.06	.46	.25	.22	.23	1.35							
KEALAKEUA 26.2	5.32		.18	.19																													
KEHENA 181.2	2.10					2.10																											
KILOAKAA A C F 6	17.30																																17.30
KIPA 89.2	35.83	.46	.36	1.00	.18	T	.47	1.32	.35	1.11	.01	1.43	1.03	.94	.57	5.71	.75	3.50	3.10	2.70	.58	.11	.44	.42	1.07	4.80	2.28	.39	.03	.20	.72		
KOMALA MAJILLI 176	5.61	.29	.14	.08					.09	.44	.04	.21	.62	.21			.08	.09	1.07	.84			.35	.07	.15							.85	.03
KOMALA MISSION 175.1	3.71	.06	.08	.02					.09	.35	T	.14	.49	.03	.10	T	.03	.06	.38	.49	.04	.01	.09	.09	.10	.40	.45				.20	.01	
KOIHAE LDWER 195	2.90											1.12								.82													
KONA (KAILUA) 6R.3	2.19					.10						1.30				.19																	.55
KONA VILLAGE 93.8	.08																																
KUKIUAU 222	7.36		.03	T				T	.15	1.05	.03	.58	1.05	.06		.16		.31	.78	1.21	.14	.02		.04	.14	1.28	.33						
KUKUIHAELE HIC 199	2.04								.02	.40	.08	.38	.13	.08	.06			.01	.02	.32	.02		.04	.02	.30	.10	.06						
KUKUIHAELE MILL 206	1.41								.28	.02	.30	.05						.02	.02	.17		.07	.02	.16								.30	
KULANI CAMP 79	17.89	.09	.13	.10	.13	.28	.12	.14	.10	.22	.02	.52	.52	.17	.27	.55	.36	1.75	2.60	1.65	.34	.10	.07	.08	1.70	3.02	2.40	.16	.04	.10	.16		
KULANI MAUKA 76	5.62				.13	.02	.03		.05	.04	.06	.09	.09	.03			.19	1.82	.51	.07				.73	1.14	.51	.05				.01	.05	
KULANI SCHOOL SITE 78	16.36					.04					.06	.09	.09	.03																			
LANIHAU 88.2	4.46	.12	.16	.35							.05			1.05			.21	.32															
MAKAKULOU 103	.73																.08																
MANUKA 2	3.80	.60															.60																2.60
MAUNA LOA SLOPE DR5	2.55				.03	.12												.14	.01					.37	.96	.39						.53	
MIDDLE HOUAOUA 68.1	3.08		.80																					.23		.25							
MIDDLE PEN 147.1	1.25																																1.25
MOAULA 18	9.98																																9.98
MOUNTAIN VIEW 91	25.78	.49	.38	.20	.21	.02	.25	.74	.17	.74	.08	.80	.57	1.08	1.25	.51	1.14	3.12	3.10	1.37	.50	.28	.25	.19	1.27	4.21	1.48	.12	.10	.14	1.02		
NAALEHU 14	13.46	.01	T		.02			.03	.05	T		T			2.34	.01	.06	1.17	.23						.26	6.85	2.28					.12	.03
NAPPOPOO 28	3.27	.41							.56						.79				.79				.57		.26	6.85	2.28					.94	
NIULII 179	2.49		.02						.02	.45		.15	.73		.02		.06	.10	.30			.12	.06	.22								.23	
OHAKA 223	11.23	.01	.25					.19	.02	1.24	.02	.69	1.12	.07	.01	.62	.03	.39	1.66	1.11	.48	.04	.13	.06	.11	2.20	.78						
PIHIHALE 2 24.1	2.98	.38	.03	T				.05	.04	.15	.07	T	.06	T			.03	.29	.04	T				.12	1.06	.30	T	.23	.01	.07	.05		
POKIO LANO EST 91.5	18.00					2.40									2.64																		
PAAHU 217	3.39									.62		.31	.35	.07			.22	.21	.39	.06		.01	.08	.19	.57	.31							
PAUULLO 221	4.85			.01				T	.03	1.05	.02	.41	.68	.03		.05	.12	.40	.73	.11	.02		.03	.10	.86	.20							
PAMALA 21	13.08	.84			.07			.04	.03	.03					2.20	.19	.07	.89	.01						.25	5.18	3.19					.03	.09
PAMUA 65	19.70	.59	.38	.17	.22	.48	1.37	.32	.74	.09	.59	.42	.60	.09	.28	.62	2.20	1.29	.22	.23	.13	.11	.32	.88	3.70	1.30	.11	.06	.14	1.45			
PAKAO 37	14.40																																14.40
PAPAIKOU 144.1	26.37	.29	.34	.10	.07	.47	.58	.10	.85	.08	.83	1.06	.41	.67	5.80	.53	1.15	1.44	.12	.51	.14	.46	.26	.72	5.05	2.69	.42	.04	.37	.82			
PAPAIKOU MAUKA 140.1	30.17	.31	.47	.22	.13	T	.30	1.20	.35	1.38	.12	.82	1.05	.70	.58	3.80	.69	2.20	2.70	1.39	.80	.15	.51	1.03	.82	4.32	2.83	.28	.05	.19	.77		
PEPEEKED MAKAI 144	20.11	.35	.31	.14	.04	.50	.30	.09	.68	.01	.62	.65	.40	.92	2.85	.53	1.00	.76	.05	.20	.26	.35	.48	.37	4.98	1.64	.06	.03	.56	.98			
PIHIONUA 89	44.00																																44.00
POHAKULOA 107	1.48					.71																											
PUAKO 95.1	.03														T																		
PUU KIHE 120	1.88																																1.88
PUU LAAU 102.1	2.22																																2.22
PUU LEHUA 73	.90																																.90
PUU HALL 113	.97																																.97
PUU OO 82	13.38			.04	.09	.05	1.18	.08		.09	.27	.34	.06	.23	.50	.47	1.65		5.45		.30		.07								2.51		
PUU WAHAA 94.1	1.38				.14										.12	.37	.05																.01
SAOULE ROAD 1 84	21.50					2.50									7.00																		
SOUTH POINT CORRAL 3	5.86																																5.86
UMIKOA 118	2.53							.12	.89		.12	.24	.04		.07		.14	.06	.05	.02				.05	.18							.51	.02
UPDLU POINT USCG 159.2	2.17	.13	.04					.01	.06		.18	.01	.07			.05	.03	.69	.11		.02	.08	.02	.03	.58						.06		
WALAEKA SCO 86.2	27.41	.38	.32	.24	.12	.57	1.47	.27	1.48	1.05	.35	.60	.66	.38	3.04	1.13	3.50	2.46	1.11	.47	.09	.40	.41	1.16	3.79	.97	.35	.04	.12	.48			

SUPPLEMENTAL DATA

Station	Wind (Speed — m.p.h.)						Relative humidity averages-percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover sunrise to sunset	
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over			Total
							02	08	14	20									
							02	08	14	20									
HILLO WSD 87	19	2.2	6.1	17	SE	26+	86	87	74	89	0	1	17	7	2	2	29	29	7.3
HONOLULU WSFD 703	6	12.0	13.8	29	NE	23	80	77	62	75	15	6	2	0	0	0	23	66	5.9
KAHULUI WSD 398	6	9.8	11.7	30	NE	17	82	76	55	77	7	7	0	0	0	0	14	72	4.3
LIHUE WSD 1020.1	7	10.8	12.4	24	NE	09+	77	76	70	75	9	9	6	1	0	0	25	30	6.9

See reference notes following Station Index

DAILY TEMPERATURES

HAWAII
NOVEMBER 1971

Station	Day of Month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																
ISLAND OF KAUAI																																
KANALOHULUHULU 1075	MAX MIN	70 54	68 52	69 45	68 46	68 47	70 48	69 59	68 58	62 57	64 55	66 54	65 52	68 52	69 48	70 54	70 48	68 50	68 56	68 55	70 55	75 53	65 52	65 51	68 55	68 56	69 58	68 59	67 47	69 44	68 46	68.0 52.2
KILAUEA POINT 1133	MAX MIN	78 67	81 74	82 64	82 76	77 81	81 76	87 74	80 69	86 76	78 75	77 68	78 75	68 69	77 73	78 68	77 79	81 68	77 67	79 76	79 67	80 77	80 69	80 77	80 69	80 74	77 68	77 72	77 69	80 75	79.4 71.1	
LIHUE WSO 1020.1 AP	MAX MIN	82 76	82 76	82 72	83 70	82 72	82 71	83 75	81 74	81 72	79 72	81 73	81 74	81 75	81 71	81 68	81 68	81 77	81 75	81 75	81 75	81 75	81 72	81 71	81 72	81 72	81 74	81 75	81 73	81 70	81.3 72.6	
MAKAHUEA POINT 940.1	MAX MIN	85 73	82 73	84 71	78 73	84 70	86 73	85 70	82 72	82 73	80 70	81 69	82 69	80 75	81 67	82 73	80 68	81 76	81 75	79 72	82 69	81 69	80 71	79 67	81 71	81 73	82 71	81 73	81 71	82 69	82.3 71.3	
MANA 1026	MAX MIN	84 65	84 65	85 67	86 64	87 69	87 62	87 68	82 65	83 66	85 63	85 62	84 63	85 66	84 63	85 66	83 65	86 65	86 65	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	84.6 64.8	
NIU RIOGE 1035	MAX MIN	84 62	84 62	82 61	83 62	84 61	85 62	86 61	84 61	85 63	86 61	80 61	80 62	84 60	83 61	84 60	82 63	82 64	81 60	80 61	81 60	81 60	81 60	81 60	81 60	81 60	81 60	81 60	81 60	81 60	82.2 61.6	
WAIHI LOWER 1054	MAX MIN	75 65	75 65	76 62	75 64	77 64	77 66	77 65	73 62	73 66	74 63	74 65	74 61	74 61	75 61	74 61	75 68	74 68	74 68	74 64	75 64	74 64	74 64	73 62	73 62	73 64	73 64	72 68	74 64	76 61	74.3 64.0	
* * *																																
ISLAND OF OAHU																																
EWA PLANTATION 741	MAX MIN	85 68	83 66	83 63	83 63	84 63		84 65	82 65	82 64	81 65	80 64	82 64		82 63	82 64	82 69	82 71	83 66				81 64	81 64	81 68				82 62	82 61	82.0 69.4	
HONOLULU WSO 703 AP	MAX MIN	83 71	83 70	83 68	81 67	82 68	85 70	84 74	82 73	80 70	81 70	82 70	82 70	83 70	81 68	81 66	83 68	83 73	84 73	82 71	81 68	80 68	82 70	82 71	82 71	77 71	81 68	82 64	82 67	83 64	82.0 69.4	
HONOLULU SUBSTA 704	MAX MIN	80 75	81 74	81 73	83 71	82 72	83 72	81 73	80 73	79 71	79 70	78 72	78 70	79 68	80 69	80 69	81 70	80 73	80 72	79 69	78 71	78 72	79 69	79 71	79 72	78 72	80 74	77 71	79 69	81 70	79.7 71.4	
KAHUKU 912	MAX MIN	86 67	84 71	83 70	81 67	83 67		83 71	81 70	80 70	77 72	80 72			81 66	81 66	81 73	81 74	81 74	81 74	81 74	81 74	81 74	80 67	80 70				80 70	80.0 70.2		
KANEDHE MAUKA 781	MAX MIN	79 74	80 72	81 70	81 68	83 69	72	80 73	79 62	80 70	79 71	79 72	79 68	79 71	79 69	78 69	78 74	78 74	78 74	78 74	78 74	78 74	78 74	78 74	78 74	78 74	78 74	78 74	78 74	78 74	79.0 70.5	
LUALUALEI 804	MAX MIN	84 66	82 73	84 67	83 65	83 66	86 70	84 72	85 68	82 73	81 72	83 72	83 72	84 71	82 66	84 64	84 64	83 66	83 64	83 74	83 69	83 72	83 72	83 72	83 72	80 69	80 71	82 70	83 71	84 64	82.8 69.2	
MAKAPUU POINT 724	MAX MIN	77 72	77 70	78 68	81 57	80 70	81 70	81 52	81 71	76 69	76 60	75 71	78 69	75 69	78 69	77 69	76 69	76 69	76 69	76 69	76 69	76 69	76 69	76 69	76 69	76 69	76 69	76 69	76 69	76 69	77.0 68.0	
OPAULA 870	MAX MIN	72 62	71 62	75 60	72 59	80 60	75 60	80 62	80 62	72 61	70 60	65 60	70 60	76 62	77 65	73 61	73 63	72 62	70 62	70 62	70 62	70 62	70 62	70 62	70 62	70 62	70 62	70 62	70 62	70 62	73.7 61.9	
PRI WAHIAWA 820.2	MAX MIN	82 60	81 65	82 62	81 62	83 62	86 62	82 70	86 62	78 67	78 63	80 63	80 63	80 63	81 60	81 60	82 65	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	79.9 64.2	
WAIALEE 896.3	MAX MIN																															
WAIALUA 847	MAX MIN	83 64	82 65	84 62	84 62	85 63	86 64	84 67	84 68	81 63	81 63	81 63	82 61	82 61	82 61	83 64	83 68	83 70	83 70	84 61	80 62	80 61	80 61	81 62	81 62	81 62	82 66	82 67	82 69	83 62	82.2 63.5	
WAIKIKI 717.2	MAX MIN	83 73	85 72	85 69	85 68	85 67	85 67	86 74	86 73	83 70	82 71	82 70	82 70	83 71	83 66	84 66	84 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83 73	83.2 70.2	
WAIMANALO EXP FARM	MAX MIN	82 73	81 73	81 71	82 68	83 69	84 70	83 72	82 74	82 72	82 70	79 68	80 72	81 69	80 66	80 66	80 74	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80.5 70.8	
* * *																																
ISLAND OF MOLOKAI																																
MOLOKAI AP 524	MAX MIN	80 70	82 70	81 65	82 65	83 65	83 69	84 70	80 72	80 71	78 69	78 69	79 69	80 69	82 68	82 67	84 67	82 68	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80.3 69.1	
* * *																																
ISLAND OF LANAI																																
LANAI CITY 672	MAX MIN																														83 67	
* * *																																
ISLAND OF MAUI																																
HALEAKALA RS 338	MAX MIN	68 42	64 41	62 40	58 41	58 39	59 41	64 45	64 48	63 45	58 46	56 37	60 43	61 49	60 51	63 45	63 49	63 51	66 42	64 44	62 39	59 43	63 47	58 43	58 43	56 44	58 49	59 52	69 55	66 45	61.8 44.4	
HALEAKALA SUMMIT 338.4	MAX MIN	57 43	56 42	57 42	54 38	50 40	53 40	52 39	59 38	54 38	52 36	53 34	50 38	51 40	52 38	52 37	48 35	47 38	48 41	48 40	48 39	48 39	48 39	48 39	48 39	48 39	48 39	48 39	48 39	52.5 39.0		
HANA AIRPORT 355	MAX MIN	82 63	82 63	81 69	82 66	84 60	82 67	79 66	81 65	81 62	78 66	81 63	81 63	82 63	81 63	82 63	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	81 62	80.4 63.8		
KAANAPALI AIRPORT	MAX MIN	82 65	81 68	82 65	83 65	82 62	82 67	85 68	83 67	81 63	80 66	79 69	80 69	80 66	81 65	82 65	82 68	81 68	82 68	81 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	81.1 66.6		
KAHULUI WSO 398 AP	MAX MIN	87 63	87 65	87 63	87 62	88 60	89 63	86 66	84 69	86 68	86 68	86 68	85 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	85.1 65.9		
KAILUA 446	MAX MIN	79 63	76 66	76 66	77 64	78 65	79 65	79 65	79 65	79 65	78 65	79 65	76 65	74 65	76 65	76 65	75 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	75.9 65.2		
KEAWAKAPU BEACH 260.2	MAX MIN	89 62	87 63	89 63	85 64	87 64	85 64	88 65	89 64	87 61	87 61	88 60	89 60	89 60	86 63	85 63	86 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	86.5 62.7		

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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267		MAX MIN	76 55	73 56	72 57	73 58	76 58	74 59	75 58	73 57	73 55	74 55	72 55	72 55	73 55	72 56	74 57	75 59	72 55	73 56	72 54	72 55	71 55	72 57	69 57	72 58	73 59	72 56	73 57	69 57	72.7 56.7		
LAHAINA 361		MAX MIN	87 66	85 66	85 66	84 67	86 66	85 67	87 67	87 67	86 67	86 65	86 64	86 65	85 65	86 66	85 68	86 68	86 67	86 65	86 67	85 67	85 64	84 63	85 66	85 66	86 67	83 69	87 66	85 64	84 66	85 66	85.5 65.9
MAILUKU 386		MAX MIN	83 69	81 71	81 69	82 68	82 70		87 68	79 69	80 68	79 69	79 68		79 69	83 71	81 72	80 71	71														82.5 69.1
ISLAND OF HAWAII																																	
HAINA 214		MAX MIN	81 68	80 68	80 65	81 63	81 64	81 65	82 67	81 67	79 66	79 66	80 65	78 65	77 64	78 65	80 66	79 68	76 68	76 68	78 67	78 65	78 65	77 66	75 66	75 67	82 67	80 65	79 64	75 65	80 65	78.8 65.7	
HAWAII VOLCNS NP HO 54		MAX MIN	70 55	64 54	69 54	70 53	71 53	70 57	67 56	70 53	72 55	72 56	69 56	69 56	74 53	70 53	68 52	72 54	73 54	73 54	68 54	68 54	68 54	68 54	68 54	68 54	68 54	68 54	68 54	68 54	68 54	69.8 53.1	
HILD WSO 87 AP		MAX MIN	83 66	84 69	81 68	84 66	84 67	83 67	81 69	80 68	81 65	81 63	82 67	80 68	83 69	82 65	79 71	80 71	80 71	82 68	81 68	82 64	80 66	81 65	82 66	81 66	82 66	81 66	81 66	81 66	81 66	81.1 66.5	
KAINALIU 73.2		MAX MIN	78 61	77 59	77 59	79 60	78 61	80 63	78 63	80 60	78 60	76 60	75 60	76 60	78 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	79 60	76.7 60.7	
KAMUELA 192.2		MAX MIN	72 56	73 56	73 52	78 49	76 52	78 50	81 56	70 56	68 56	69 57	70 57	71 56	70 52	71 52	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72.6 55.3	
KEAAU 92		MAX MIN	80 65	79 65	79 65	79 64	81 63	81 63	78 64	78 65	77 65	79 63	80 62	78 64	77 65	80 65	78 66	77 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78 66	78.4 64.4	
KEALAKEKUA 26.2		MAX MIN	79 62	79 61	79 61	79 62	79 64	80 63	78 64	80 63	78 63	78 62	78 62	78 62	77 61	78 61	79 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	77.3 62.3	
KOHALA MISSION 175.1		MAX MIN	77 69	80 68	80 66	81 65	81 65	80 65	83 68	80 65	77 65	78 65	78 64	77 64	78 64	80 65	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	77.9 66.0	
KONA (KAILUA) 68.3		MAX MIN	87 70	85 69	84 69	85 70	86 70		88 71	88 61	88 61	84 62	84 62	84 62	84 62	85 64	84 70	83 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	84.4 69.2	
KULANI CAMP 79		MAX MIN	61 49	61 49	61 44	60 47	65 46	60 49	59 47	54 48	61 48	62 48	60 49	60 49	61 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	62 49	58.9 46.4	
MAUNA LOA SLOPE 085		MAX MIN	58 37	56 36	50 34	47 33	47 31	47 32	49 33	52 33	54 32	52 34	52 32	52 32	52 31	53 32	47 35	47 36	49 35	49 35	49 35	49 35	49 35	49 35	49 35	49 35	49 35	49 35	49 35	49 35	49 35	50.2 34.1	
MOUNTAIN VIEW 91		MAX MIN	74 58	75 58	76 60	76 59	77 58	76 58	76 58	72 58	72 57	73 57	76 59	74 60	74 60	73 60	72 58	69 64	68 64	68 64	68 64	68 64	68 64	68 64	68 64	68 64	68 64	68 64	68 64	68 64	68 64	73.9 58.6	
NAALEHU 14		MAX MIN	79 67	77 67	75 68	78 67	79 67	79 67	79 67	79 67	79 67	78 68	78 68	78 68	78 68	78 68	77 68	79 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	77 68	77.5 66.2	
OAKALA 223		MAX MIN	79 66	80 66	80 65	81 64	80 65	81 65	81 65	80 65	78 65	78 65	79 65	79 65	79 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80 65	80.7 65.5	
OPIHIHALE 2 24.1		MAX MIN	77 59	74 59	78 60	77 60	78 60	78 60	77 62	76 63	76 63	74 63	74 63	75 63	79 63	78 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	76 62	77.5 59.5	
PAHALA 21		MAX MIN	82 63	79 65	78 63	79 63	80 63		82 62	84 62	80 61	83 62	80 62			82 62	76 62	82 62	80 67	77 66												79.9 61.6	
PUAKO 95.1		MAX MIN	85 70	85 70	84 67	84 67	84 67	85 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	86 67	84.1 69.1	
UPOLU POINT USCG 159.2		MAX MIN	80 71	80 70	80 71	82 64	85 64	83 68	80 72	80 70	79 67	81 68	80 67	81 67	81 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	80.5 68.8	

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP		EVAP WIND MAX MIN	.21 215 77 62	.28 214 77 62	.26 165 78 62	.17 99 79 61	.18 73 83 60	.21 47 83 63	.22 183 78 62	.28 219 79 62	.21 220 74 62	.29 218 74 60	.22 226 70 61	.22 220 77 61	.29 208 77 60	.20 91 80 58	.16 60 80 58	.18 155 77 58	.21 219 76 64	.23 201 74 61	.21 229 77 60	.25 191 77 60	.21 189 77 60	.22 170 76 59	.21 173 74 60	.24 214 77 61	.13 98 76 61	.14 186 77 62	.22 127 77 62	.23 104 79 61	.22 101 80 60	6.61 4992 77.1 60.8	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP WIND MAX MIN	.15 37 84 64	.25 30 84 64	.15 21 85 64	.15 18 84 64	.15 14 87 64	.14 24 88 66	.17 36 86 67	.24 42 86 66	.17 36 82 64	.12 25 80 64	.15 28 81 62	.20 36 82 62	.14 26 83 63	.20 22 83 63	.14 15 86 64	.11 15 86 64	.16 33 86 66	.21 45 86 67	.21 42 83 67	.26 49 83 62	.15 32 80 63	.25 35 79 63	.15 29 82 63	.21 47 82 63	.36 35 77 65	.06 15 77 67	.15 19 84 64	.18 21 84 62	.18 17 82 62	.07 14 80 62	5.23 876 83.0 63.9

STATION INDEX

HAWAII NOVEMBER 1971

Main data table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE I, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE I, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER.

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

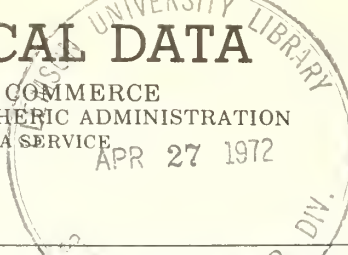
POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE



CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
DECEMBER 1971
Volume 67 No. 12



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days			
										90° or Above	80° or Below	70° or Below	60° or Below					Total	Total	Max. Depth on Ground	Date	-10 or More	-50 or More
* * * ISLAND OF KAUAI																							
ANAOHOLA 1114	A	64.1	51.3	57.7		59	6+	43	31	0	0	0	0	12.54	7.14	2.96	19	.0	0	12	3	1	
KANALOHULUHULU 1075										0	0	0	0	6.66				.0	0				
KAPAA STABLES 1104	A									0	0	0	0	12.83				.0	0				
KIIAUEA FIELD 17 1135	A	77.1M	70.4M	73.8M		80	25+	65	16	0	0	0	0	11.86	2.11	3.80	19	.0	0	22	5	2	
KIIAUEA POINT 1133										0	0	0	0	8.70	1.08			.0	0				
KOI OA 936	A	78.9	70.0	74.5	2.3	82	6+	64	18+	0	0	0	0	7.52	2.34	4.40	18	.0	0	7	2	2	
LIHUE WSO 1020.1 AP	//R	83.3	62.6	73.0	.9	86	15+	59	31+	0	0	0	0	4.59	1.29	2.84	19	.0	0	8	1	1	
MANA 1026										0	0	0	0	22.89				.0	0				
N WALLUA OI TCH 1051	A									0	0	0	0	8.38	- 5.21	2.05	20	.0	0	16	5	2	
PH WAINIHA 1115										0	0	0	0	6.76	2.97	1.9		.0	0	9	4	3	
PUEHU RIDGE 1040										0	0	0	0	7.79	3.30			.0	0				
WAHIAWA 930	A	72.4	62.7	67.6		77	6	58	22	0	0	0	0	19.50	6.87	1.9		.0	0	27	10	4	
WAIAHI LOWER 1054										0	0	0	0	7.25	3.90	4.47	19	.0	0	6	2	2	
WAIMEA 947										0	0	0	0	10.64				.0	0				
ISLAND																							
* * * ISLAND OF OAHU																							
HONOLULU OBSERV 702.2	R	79.4	67.2	73.3	-.3	83	9+	60	24	0	0	0	0	2.32	.91	1.7		.0	0	4	2	0	
HONOLULU WSPD 703 AP										0	0	0	0	2.88	- .11	1.47	17	.0	0	4	2	1	
KAHUKU 912	A	77.2	67.8	72.5	.4	82	19+	61	27	0	0	0	0	5.30	1.02			.0	0				
KANEHE MAUKA 781										0	0	0	0	17.25	7.25	2.75	16	.0	0	22	9	5	
KOOLAU OAM 833	A									0	0	0	0	.86				.0	0				
LUALUALEI 804	A	80.6	67.6	74.1		85	6	60	31+	0	0	0	0	4.15	.84	1.75	17	.0	0	3	3	2	
MAKAPUU POINT 724		75.7	67.5	71.6		82	19	63	22	0	0	0	0	10.23	- .82	1.84	19	.0	0	17	7	4	
NUUANU RES 4 783										0	0	0	0	7.32	.35			.0	0				
OPAFULA 870	A	75.8	61.4	68.6	1.1	82	6+	57	16	0	0	0	0	8.76	- 4.55	2.32	19	.0	0	15	5	3	
PALOLO VALLEY 718	R									0	0	0	0	5.32				.0	0				
PRI WAHIAWA 820.2	A	77.9	62.0	70.0		84	20+	56	27+	0	0	0	0	5.01		1.45	19	.0	0				
WAHIAWA OAM 863	A									0	0	0	0	13.07	- 1.22			.0	0				
WAIAHOLE 837	A	77.3	65.9	71.6		82	19+	62	11+	0	0	0	0	8.45		3.75	18	.0	0	12	3	2	
WAIALEE 896.3		79.5	61.4	70.5	-.7	85	9+	55	22	0	0	0	0	6.31	2.37	4.04	18	.0	0	5	3	2	
WAIALUA 847	A									0	0	0	0	2.58		.81	18	.0	0	7	2	0	
WAIKIKI 717.2		81.2	67.0	74.1		83	6	59	25	0	0	0	0	4.22		1.74	18	.0	0	5	2	2	
WAIMANALO EXP FARM		78.5	68.5	73.5						0	0	0	0	2.40	- 1.14			.0	0				
WAIPAHU 750	A									0	0	0	0	6.26				.0	0				
ISLAND																							
* * * ISLAND OF MOLOKAI																							
KUALAPUU 534	A													.28	- 3.98			.0	0				
MAPULEHU 542														2.19	- 2.02	.58	30	.0	0	7	1	0	
MAUNALOA 511	A	78.2	66.8	72.5		84	7+	61	31	0	0	0	0	1.87	- 1.63	1.75	17	.0	0	4	0	0	
MOLOKAI AP 524										0	0	0	0	.56		.16	17+	.0	0				
ISLAND																							
* * * ISLAND OF LANAI																							
LANAI CITY 672	A		M	M	M	83	20	55	27+	0	0	0	0	1.40	- 2.32			.0	0				
ISLAND																							
* * * ISLAND OF MAUI																							
HAIKAKALA 8 E S 434	A	59.4	42.1	50.8		71	9	34	26+	0	0	0	0	4.57	- 5.89	1.15	14	.0	0	10	4	1	
HAIKAKALA RS 338										0	0	0	0	3.54		1.88	19	.0	0	6	2	1	
HANA AIRPORT 355		78.1	62.5	70.3		80	18+	56	11	0	0	0	0	3.46		.47	14	.0	0	14	0	0	
HONOKOHU 493	A									0	0	0	0	1.79	- 2.86	.75	14	.0	0				
KAANAPALI AIRPORT		79.1M	63.9M	71.5M		85	19	56	5	0	0	0	0	.91		.65	17	.0	0	1	1	0	
KAHULUI WSO 398 AP	R	82.7	62.6	72.7	.0	89	18	56	26	0	0	0	0	.14	- 2.56	.07	11	.0	0	0	0	0	
KAILUA 446		73.6	63.6	68.6	-.3	79	19	60	19+	0	0	0	0	6.55	- 5.30	1.39	14	.0	0	16	4	1	
KEANAE 346	A									0	0	0	0	13.20	- 9.12			.0	0				
KIPAHULU 258										0	0	0	0	6.06	- 4.85	.73	14	.0	0	18	2	0	
KULA SANATORIUM 267		71.5	54.3	62.9	.6	78	19	50	26+	0	0	0	0	.10	- 2.93	.08	1	.0	0	0	0	0	
LAHAINA 361		84.3	63.8	74.1		91	19	60	28+	1	0	0	0	.00	- 2.29	.00		.0	0	0	0	0	
PAIA 406										0	0	0	0	.94	- 3.28	.30	12	.0	0	3	0	0	
WAILUKU 386	A	80.8M	63.1M	72.0M	-.6	89	27	52	31+	0	0	0	0	.20	- 4.12			.0	0	0	0	0	
ISLAND																							
* * * ISLAND OF HAWAII																							
HAINA 214		76.6	63.2	69.9	-.3	81	19	59	31	0	0	0	0	3.99	- 3.71	.92	15	.0	0	10	4	0	
HAWAII VOLCNS NP HO 54		62.5	50.4	56.5	- 2.2	68	6+	45	22+	0	0	0	0	22.96	12.82	5.30	19	.0	0	26	13	5	
HILD WSO 87 AP	R	77.7	64.0	70.9	-.6	83	7	60	22+	0	0	0	0	32.19	17.01	6.37	13	.0	0	27	15	8	
HUEHUE 92.1	A									0	0	0	0	1.93	-.43			.0	0				
KATNALIU 73.2		76.1	59.4	67.8		79	31+	56	23	0	0	0	0	3.32	.31	1.02	3	.0	0	6	3	2	

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

December continued what had thus far been a quiet winter, free from major storms. However, the month was marked by tragedy, when two lives were lost in a rain-swollen stream on Oahu. But while Oahu and, to a greater extent, Kauai were subjects to occasionally heavy rains, the islands to the south remained in the grip of an unrelenting dry spell which in some areas had already exceeded a year in length.

For much of the month, the Central Pacific was dominated by large areas of high pressure, which helped deflect to the north the cold fronts and migratory cyclones ordinarily responsible for most of Hawaii's heavier winter rains. However, this pattern and the trade winds associated with it were frequently interrupted by periods of rain and of light or southerly winds.

A brief chronological review of the month's more important weather events follows:

1. December 6. Scattered thunderstorms and rain occurred on Kauai and over the Ka'u (southeastern) slopes of Hawaii Island from moist unstable air and southeasterly winds accompanying a low pressure area about 500 miles west-northwest of Kauai.

2. December 10-12. Trade winds gusting to 46 m.p.h. stirred up the dust and numerous complaints in Maui's central valley and in the Puako area of Hawaii Island. On the 11th, the wind knocked down telephone lines in Kohala, disrupting service for about 4 hours.

Also on December 11, the Danish freighter, Heering Kirse, went down near Midway Island after a week of battling seas of up to 30 feet. Thirty-one of 36 persons aboard were rescued.

3. December 13. Low pressure aloft, over trade winds lower in the atmosphere, gave Hawaii Island's Hilo and Puna areas heavy rains and thunderstorms. Hilo Airport reported a waterspout 1/2 mile offshore. A 6-inch snowfall, wind-blown into 3-foot drifts, made the road to Mauna Kea Observatory almost impassable, and blanketed that mountain and Mauna Loa to an elevation of 10,000 feet.

4. December 16-18. Strong southerly winds, associated with a low pressure area as it moved from about 500 miles north to 750 miles northwest of Honolulu, brought heavy, but localized, rain and scattered thunderstorms to Kauai and Oahu, and on the 18th, to the Hilo area of Hawaii Island. Following intense rains (2-day storm totals in the area reached 8 to 10 inches) Kauai's Wailua River overflowed for about an hour on the afternoon of the 18th, inundating the Coco Palms

Hotel parking lot to a depth of about 3 feet and entering a home. In southern and southwestern Kauai, where rainfall totalled 5 to 9 inches, floodwaters and mudslides damaged roads at Kaumakani and in Lawai Valley. In the Kalaheo area alone, repairs to Kamualii Highway amounted to \$15,000.

At about the same time (at 2 p.m. on the 18th) a waterspout came ashore at Kaumakani and became a minor tornado that moved north-northeastward through Olokele Sugar Company fields, accompanied by a thunderstorm and heavy rain. Damage to cane and irrigation flumes was negligible. About an hour later, another funnel cloud was observed 2 miles east of Lihue Airport, while at Kealia, at 3:30 p.m., hailstones "the size of marbles," and others described as cigar-shaped and "up to 1/2 inch in diameter and 2 inches long," an extraordinarily large size for Hawaii, were reported to have occurred.

5. From about December 21 to the end of the month, freighters and barges caught in storms between Hawaii and the West Coast limped into Honolulu harbor with cargos damaged and losses of as high as 80 percent. One barge captain reported encountering 80- to 90-foot swell and 75 m.p.h. winds.

6. Between 1 and 2 p.m. on December 31, a group of people attempting to cross Kaluanui Stream just below Sacred Falls' pool on windward Oahu was swept downstream when the water, already rain-swollen to the height of a "man's shoulder," surged higher and the guide rope broke. A young girl and a woman who attempted to rescue her were drowned. A man suffered two broken toes and a boy bruises and contusions. The rain responsible for the flooding appears to have occurred from an isolated cloud tower. A rain gage 2 miles north of the site recorded only 1.35 inches between 8 and 9 a.m. (.60 inch within a very few minutes) and .39 inch between 1:30 and 2:30 p.m. No other rain of consequence was measured in the area.

Earlier that day, another waterspout came ashore at Kaumakani, Kauai, about 1/2 mile west of that of December 18, and moved northeastward through Olokele Sugar Company fields, but did little damage. These two waterspout-tornados occurred in the same area severely battered by a tornado in December 1967.

7. Small craft warnings were put into effect on four occasions - three times for gusty trades, once for strong southerly winds - for a total of 9 days during the month.

The occasional outbreaks of heavy rain over

SPECIAL WEATHER SUMMARY - Continued

Kauai, Oahu, and southeastern Hawaii Island, had left the central islands and even large portions of Hawaii Island dry. By month's end, pastures on leeward and lowland Molokai, and on Maui's Kula slopes and in western Maui were browning in places and badly deteriorated. Water was being hauled and supplemental feed used to counter the adverse effects on cattle in those areas.

On Kauai, rainfall was deficient only in the north-western section.

Oahu had as many gages with below their December rainfall average as above, and a scattering had less than half their monthly means.

The mountain watershed of windward East Maui, whose drought the Maui County Council had declared officially over in October 1971, again recorded well under its average monthly rainfall. Elsewhere, Maui's December rainfall ranged from below half its average for the month to less than 10 percent in the central valley and Kula. The Wailuku area recorded its eleventh successive month of below-normal rainfall, with amounts less than half the monthly mean in nine of those months. A number of gages on Maui read zero for the month - several of them, as the table below

shows, for the first time in long periods of record.

Molokai and Lanai were dry everywhere. Molokai's central valley - including the Kalae area, which until mid-October had been hauling in water to relieve its drought - had less than one-tenth of its mean December rainfall. No reporting gage on Lanai showed as much as 40 percent of its normal rainfall, and Lanai City had its eleventh successive month of deficient rainfall.

On the Big Island, most gages in the Ka'u (southeastern) District reached at least their average rainfall for the month, and in the Puna and Hilo areas, a number had two and occasionally three times their December means. In contrast, Kohala and Hamakua continued dry, with some lower-elevation gages on the western slopes of the Kohala Mountains reading zero. Kona was also dry at lower and higher elevations and about average in between.

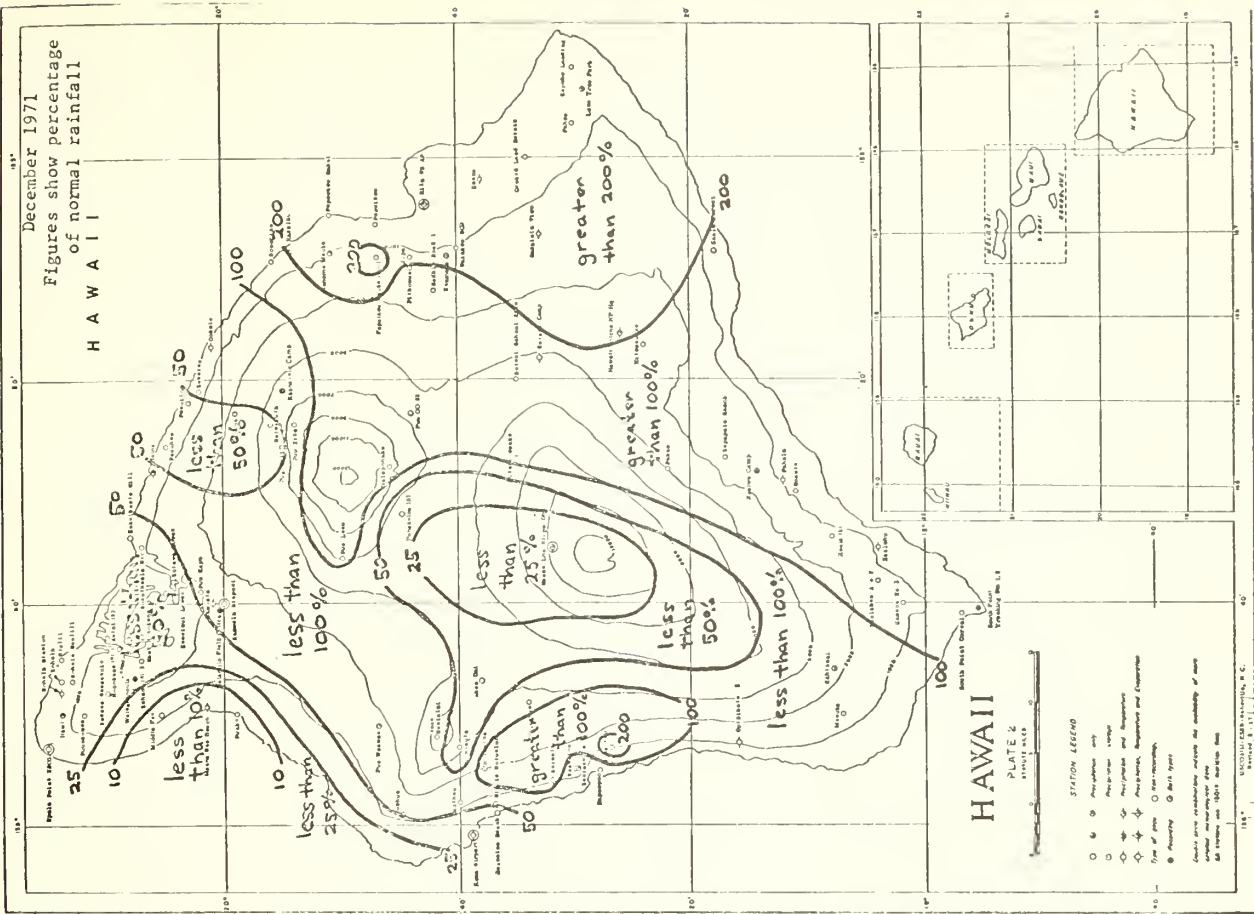
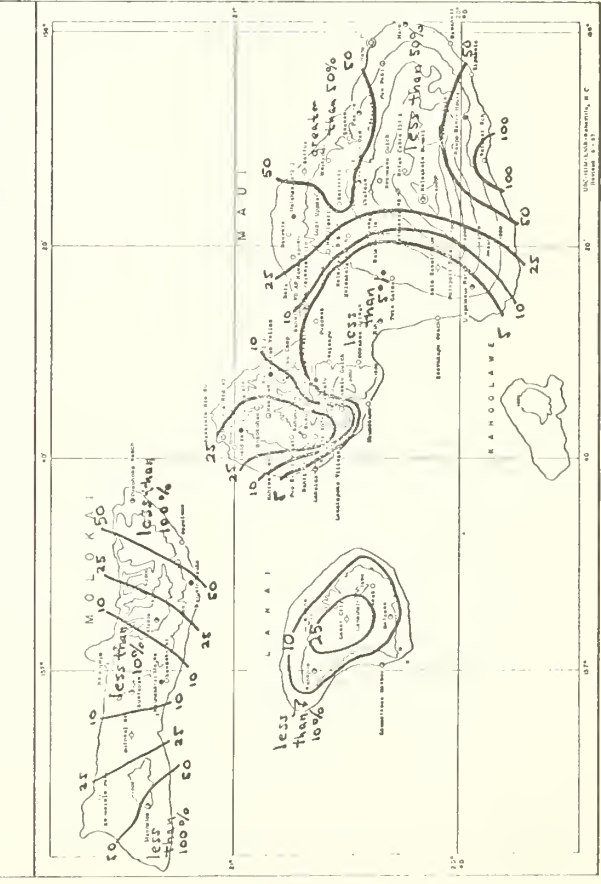
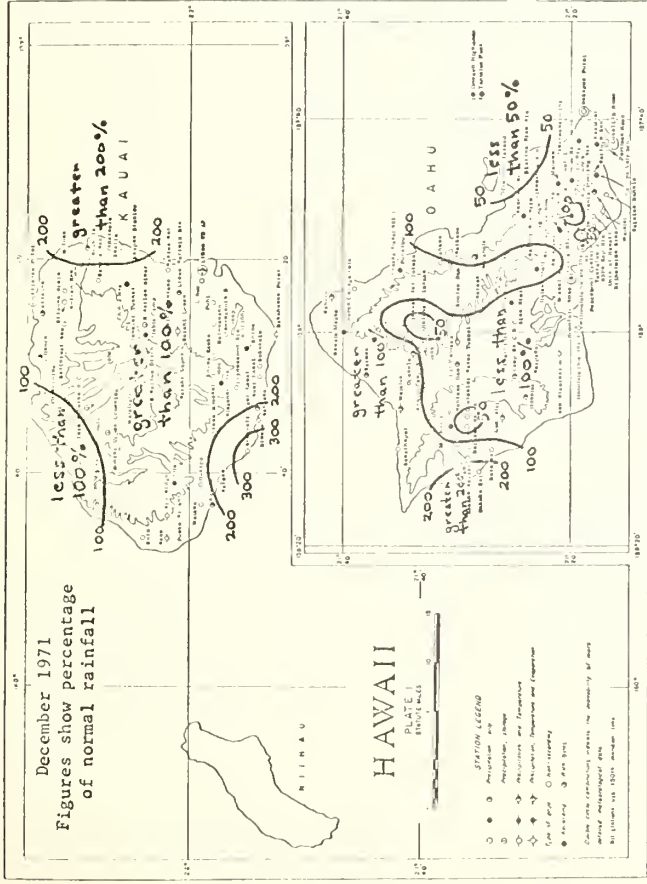
As the table below shows, a number of long-record stations on Maui and Molokai had less rain in December 1971 than in any previous December.

Stations with Less Rain in December 1971 than in Any Previous December

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least December Total	December 1971
MAUI			
Keahua	47	0.30 Inches	0.14
Nakalele	34	1.27	0.79
Puunene	51	0.25	0.10
Spreckelsville	69	0.51	0.42
Ukuhamehame	43	0.02	0.00
Wahikuli	51	0.23	0.00
MOLOKAI			
Kalaupapa	33	1.40	0.35

Saul Price
Regional Climatologist for Pacific Region
National Weather Service Office
P. O. Box 3650
Honolulu, Hawaii 96811



DAILY PRECIPITATION

HAWAII
DECEMBER 1971

Station	Total	Day of Month																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KAUNAOI LOWER 193	8.13			2.38									.28						3.10																.32
KAL 93	32.55	.14	1.02	.45	.65	.71	.00	.72	.30	.40			.50	.49	.78	2.00	6.55	1.82	.32	.01	1.40	7.30	.70	.40	.09	.09	1.10	1.62	.22	.09	.24	.28	.41	2.05	
KAUNAOI A 26.2	2.30	.05		.21									.01	.31					.14															.10	
KIHEA 181.2	8.00																																		
KIHEA A C F S	7.95																																	7.95	
KIHEA 89.2	46.77	.11	2.98	.24	.98	.21	1.14	2.96	.23	.46	1.35	1.61	.69	2.35	6.63	4.45	.50	T	.96	8.00	3.46	.87	.41	.07	.03	1.26	.14	.13	.28	.43	.80	3.01			
KIHEA WISSON 175.1	2.60	.31	.08	.05			.03				.02			.55	.12	.11	.08	.01			.85	.05	.07									.27	.04	.18	
KIHEA LOWER 194	2.93	.31	.11	.02	.06						.03	.41	.26	.05	.20	.15	.05			.21	.59	.03									.04	T	.11	.03	.24
KIHEA (KAI) 88.3	5.18			1.12							.06								2.17															.18	
KIHEA (KAI) 88.3	4.2			.07														.23				.03											.09		
KIHEA VILLAGE 93.8	.00																																		
KIHEA 222	7.99		.28	T								.11	.58	.29	.89	1.68	1.49	.12	.04	.03	.11	.50	.39	.29	.01			.18	.24	.01	.44	.11			
KIHEA SELF 199	4.21	.03	.18								.04	.72	.09	.06	.06	.93	.09	.01			.02	.30	.50	.05				.03	.03			1.10			
KIHEA MILL 209	2.85		.02								.03			.50	.08	.48	.08				.27	.07	.33										.01		
KIHEA CAMP 79	17.24	.99	.11	.66	.71	.21	1.02	2.20	.80		.92	.96	.24	1.00	2.50	.90	.05	.08	2.02	.74	.23	.15					.41	.23	.07	.10	.13	.11	.20		
KIHEA MAKA 76	4.92	.10	.32	.08							.20	.03	.26	1.28	.85	.13	.66	.02			.52	.06				.03							.22		
KIHEA SCHOOL SITE 78	13.20											2.40								6.14															
KIHEA 88.1	2.75		.10	1.39	.04							.12						.10			.49	.20	.06												
KIHEA 103	.43																																		
KIHEA 2	2.10						.20											.60			.95	.30											.05		
KIHEA LCA SLOPE OPS	.60		.06																		.17													.16	
KIHEA WOLUOLA 88.1	1.65																		.22														.30		
KIHEA PEN 147.1	.00																																		
KIHEA 18	8.10																																		
KIHEA MOUNTAIN VIEW 91	37.15	.05	1.60	.30	.62	.19	.57	2.44	.21	.49	.72	.44	.69	2.30	3.88	4.42	.29	.01	1.65	8.57	.77	.59	.21	.12	.15	1.22	.15	.07	.48	.41	.56	2.97			
KIHEA 14	7.53		.65	T																	3.66	T					.02						.91	T	
KIHEA 28	.99																				.20												.43		
KIHEA 179	2.28	.26	.07											.49	.25	.12	.02				.74	.01	.04										.10	.02	.12
KIHEA 223	11.55		.70	T	.01						.17	.43	.59	1.49	2.5	1.23	2.70	1.33	.05	.02	.25	.76	.65	.37	.20	T	T	.46	.31	.02	.73	.56			
KIHEA 2 24.1	2.54			.07		.05	.24	T	.40		.04	.01	T				.79	T			.26	.34	T									.08	.21	T	
KIHEA LAND EST 91.5	33.25			2.85								2.83								14.69													2.97		
KIHEA 217	3.67		.15									.46	.18	.19	.76	.65	.01				.12	.22	.09				.03					.07	.72	.02	
KIHEA 221	5.88		.20	T							.07	.64	.18	.54	1.14	1.58	.04	T			.07	.26	.25	.25	T						.20	.01	.34	.04	
KIHEA 21	8.43	.71	.40					.53	.10		.01							.173			4.48												.10	.07	
KIHEA 64	35.08	.29	.63	.31	.65	.22	.63	.70	.33	.28	.25	.53	.82	2.75	4.40	2.56	.15	.43	1.48	7.66	.72	.38	.31	.07	.15	1.07	.13	.06	.39	.70	.96	5.07			
KIHEA 37	7.45																																		
KIHEA 144.1	35.05	.02	.89	.15	.45	.13	.59	1.27	.20	.29	.61	.85	.73	3.23	6.83	2.49	.53	T	1.10	7.99	.84	.66	.22	.05	.08	.90	.19	.12	.10	.20	.80	2.54			
KIHEA 140.1	43.65	.03	1.82	.24	1.14	.12	1.12	2.42	.62	.81	.61	1.26	.88	3.13	6.55	2.83	.63	.01	1.16	9.83	2.98	1.08	.41	.02		1.10	.18	.07	.24	.26	.70	1.60			
KIHEA MAKA 144	26.79	.02	.64	.67	.28	.08	.31	.81	.14	.52	.08	.68	.61	2.40	7.20	2.19	.12		.99	4.51	.50	.31	.38	.05	.03	.42	.08	.14	.14	.13	.84	1.45			
KIHEA 89	41.80																																	41.80	
KIHEA 107	.51				.05						.04											.34													
KIHEA 99.1	T																																		
KIHEA 120	4.24																																	4.24	
KIHEA 102.1	1.50																																	1.50	
KIHEA 73	1.30																																	1.30	
KIHEA 113	1.00																																	1.00	
KIHEA 92	T		2.51	.10	.56		.15				.95	.28		1.55	2.10	1.45	.05																.60		
KIHEA 94.1	1.27																	.09			.18											.30	.49		
KIHEA ROAD 1 84	28.03			5.35								6.20							16.48																
KIHEA SOUTH POINT CORRAL 3	2.56																																	2.56	
KIHEA 118	4.44		.21									.51		.39	.55	1.01	.13	.13			.03	.18				.58						.74			
KIHEA SOUTH POINT USCG 159.2	1.64	.05	T	.02	.03	.13	.65	2.45	.17	.51	.62	1.14	.75	2.09	6.30	3.84	1.12		.63	.15	1.85	.67	.54	.02	.04	1.04	.10	.09	.02	.10	.03	.74			
KIHEA SCD 88.2	38.2		1.39	.39	1.03	.13	.65	2.45	.17	.51	.62	1.14	.75	2.09	6.30	3.84	1.12		.63	.15	1.85	.67	.54	.02	.04	1.04	.10	.09	.02	.10	.03	.74			

SUPPLEMENTAL DATA

	Wind (Speed - m.p.h.)						Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine		
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99 and over	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
							02	08	14	20									
HILO WSD 87	19	2.8	6.4	21	SE	17	92	91	77	91	0	4	12	7	3	5	31	21	8.1
HONOLULU WSFD 703	7	11.3	14.0	33	NE	13	79	78	59	74	9	8	2	1	1	0	21	65	6.4
KAHULUI WSD 398	6	9.0	11.5	36	E	09	83	81	54	78	7	6	0	0	0	0	13	76	4.3
LIHUE WSD 1020.1	8	9.4	11.8	27	E	13	79	78	69	77	5	15	5	0	1	1	27	23	7.4

DAILY TEMPERATURES

HAWAII
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Station	Day of Month																															Average			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
* * *																																			
ISLAND OF KAUAI																																			
KANALOHULU 1075	MAX MIN	69 49	68 56	67 59	68 48	68 52	69 57	67 50	68 50	67 59	64 54	63 52	62 54	62 54	65 54	62 54	65 54	61 48	62 54	66 57	60 53	60 50	63 48	61 51	62 51	65 45	64 45	62 49	61 50	59 51	63 49	63 43	64.1 51.3		
KILAUEA POINT 1133	MAX MIN	77 68	80 74	77 67	79 74	79 70	79 74	77 71	77 74	78 75	78 72	78 74	77 71	77 73	78 71	78 73	77 71	76 73	76 66	76 67	75 71	75 68	76 70	76 70	80 72	76 67	76 70	76 66	75 66	75 69	77 69	78 65	77.1 70.4		
LIHUE WSO 1020.1 AP	MAX MIN	81 75	81 73	80 71	80 74	82 72	82 73	81 71	81 74	80 75	79 71	80 72	81 71	80 70	80 73	78 70	78 69	75 66	75 64	78 69	78 64	78 68	77 69	79 68	79 67	77 68	77 67	77 66	78 65	77 69	78 68	78 67	78.9 70.0		
MAKAHUEA POINT 940.1	MAX MIN	82 68	84 70	75 70	82 74	82 70	84 74	84 70	83 72	82 72	83 71	83 69	75 68	85 70	80 69	80 66	80 66	70 64	80 68	76 64	75 68	80 68	78 69	79 68	78 67	82 67	81 69	79 68	78 68	79 68	79 68	79 68	79.5 68.6		
MANA 1026	MAX MIN	86 64	85 65	86 64	85 61	85 64	83 67	83 63	85 66	85 65	86 61	85 59	84 63	84 59	86 63	86 61	84 62	84 62	84 62	84 67	84 67	80 62	81 60	80 66	80 66	80 65	81 61	81 61	81 60	80 63	81 59	81 59	83.3 62.6		
NIHU RIDGE 1035	MAX MIN	80 63	80 64	81 62	80 63	81 63	82 64	79 63	80 66	80 65	81 61	82 63	80 64	81 63	79 60	79 60	79 58	79 58	79 58	80 60	80 60	81 59	80 60	79 63	79 68	80 63	80 62	79 68	77 65	77 65	78 65	79.4 61.2			
WAIHAI LOWER 1054	MAX MIN	74 67	74 67	74 64	75 64	75 63	77 66	76 62	73 67	74 67	71 64	71 64	74 64	74 63	72 66	70 64	73 63	73 59	74 59	70 63	69 63	70 60	71 58	70 62	70 59	73 60	74 59	70 63	70 63	71 62	72 59	72.4 62.7			
* * *																																			
ISLAND OF OAHU																																			
EWA PLANTATION 741	MAX MIN	83 64	81 66	81 64				82 62	82 62	82 64	82 67	81 68				80 65	80 66	80 65	78 60	79 60				83 63	77 60	77 57	77 59	78 55				82 59	78 63	74 62	
HONOLULU WSO 703 AP	MAX MIN	82 70	82 70	81 70	80 65	80 67	82 69	83 66	82 70	83 70	80 69	80 70	81 70	82 70	80 68	80 66	80 66	80 68	78 66	78 66	80 68	75 70	75 66	75 66	77 64	77 63	77 60	79 64	80 66	80 67	79 67	78 68	79.4 67.2		
HONOLULU SUBSTA 704	MAX MIN	79 73	78 71	81 72	80 69	80 70	81 71	79 70	80 72	80 70	78 68	78 66	77 69	78 68	77 68	77 68	77 68	83 68	78 68	77 68	74 71	75 66	74 67	75 69	78 67	77 65	75 68	76 68	75 70	76 65	76 65	77.5 69.1			
KAHUKU 912	MAX MIN																													82 60					
KANEHHE MAUKA 781	MAX MIN	80 70	79 72	77 72	80 68	82 65	81 66	78 72	78 71	78 72	78 71	77 71	78 71	77 69	77 70	76 69	78 69	78 65	78 64	82 67	74 68	74 67	75 68	75 65	78 64	79 65	77 61	71 68	73 68	75 68	75 64	77.2 67.8			
LUALUALEI 804	MAX MIN	83 65	82 65	82 63	82 66	84 66	85 66	84 65	83 67	84 74	81 60	80 70	80 72	80 71	80 71	80 71	84 66	80 65	84 71	78 70	84 67	77 67	77 64	82 64	79 64	82 60	78 60	82 60	77 65	78 60	78 60	80.6 67.6			
MAKAPUU POINT 724	MAX MIN	76 69	78 68	78 67	75 69	80 69	81 69	75 65	78 71	80 70	79 66	78 67	74 69	73 67	74 68	75 69	77 66	78 69	78 69	82 69	73 62	72 66	73 68	73 67	74 64	76 66	73 65	73 68	72 65	73 64	73 65	75.7 67.5			
OPAELUA 870	MAX MIN	82 61	75 61	72 61	75 61	72 60	82 60	80 60	80 63	76 63	75 60	80 61	75 62	75 61	75 61	75 61	80 62	81 62	71 67	78 61	68 61	68 61	74 61	77 63	79 63	77 61	76 63	72 64	73 64	73 64	76 61	75.8 61.4			
PRI WAIHAWA 820.2	MAX MIN	81 62	80 65	79 65	80 62	83 62	84 61	84 62	79 63	78 66	80 66	73 66	76 66	77 66	78 65	78 65	77 65	76 65	82 61	82 62	82 60	75 61	75 60	76 56	77 56	79 56	78 56	75 60	75 63	77 57	77 57	77.9 62.0			
WAIALEE 896.3	MAX MIN	79 69	79 68	79 65	79 66	81 66	82 66	79 70	80 70	79 70	78 68	77 67	77 67	78 67	77 67	77 67	77 67	77 67	77 67	82 69	75 65	75 64	76 66	76 63	77 63	77 66	79 66	77 66	76 66	76 66	77 63	77.3 65.9			
WAIALUA 847	MAX MIN	85 63	83 63	82 62	85 62	85 62	85 62	83 62	83 65	85 67	82 65	76 66	77 64	78 61	80 63	80 62	78 58	79 60	69 65	69 65	83 65	73 65	76 65	78 55	79 65	79 56	79 56	78 56	78 56	78 56	78 56	79.5 61.4			
WAIKIKI 717.2	MAX MIN	83 67	83 71	83 71	83 65	84 68	85 69	84 69	84 68	83 68	83 69	81 69	81 70	81 71	81 67	81 67	81 67	79 65	79 65	81 67	77 65	77 65	77 65	79 65	80 60	80 60	80 60	81 67	81 67	82 67	82 65	81.2 67.0			
WAIMANALO EXP FARM	MAX MIN	80 72	80 71	80 72	80 66	81 64	83 72	82 72	82 69	80 67	79 67	79 68	78 68	77 68	78 68	78 68	76 64	78 64	78 64	78 64	75 68	75 68	75 68	76 69	76 69	77 69	80 62	78 65	78 65	77 65	77 65	78.5 68.5			
* * *																																			
ISLAND OF MOLOKAI																																			
MOLOKAI AP 524	MAX MIN	82 70	78 70	78 67	82 64	84 68	80 70	84 64	83 64	82 70	80 70	76 68	75 69	76 69	79 70	77 65	80 66	79 68	81 70	75 69	74 66	74 66	75 66	77 64	77 64	75 64	75 64	78 62	78 65	76 65	77 65	78.2 66.8			
* * *																																			
ISLAND OF LANAI																																			
LANAI CITY 672	MAX MIN	78 60	75 62	74 60				78 59	78 61	78 60	79 62	79 61				78 58	74 60	74 63	77 61	77 57				83 61	77 59	69 55	71 55				74 55	72 56	74 58	69 59	
* * *																																			
ISLAND OF MAUI																																			
HALEAKALA RS 338	MAX MIN	61 45	61 41	61 47	66 45	63 48	67 44	64 42	64 46	71 49	63 47	60 43	57 43	56 41	56 45	54 44	56 38	57 37	59 39	61 44	59 46	59 39	55 34	54 35	57 37	53 36	50 34	58 44	61 46	64 47	58 42	57 36	59.4 42.1		
HALEAKALA SUMMIT 338.4	MAX MIN	46 37	48 37	52 38				52 39	52 37	51 35	50 32				49 28	45 37	45 37	43 34	45 28				49 36	46 33	50 36	56 38	56 39								
HANA AIRPORT 355	MAX MIN	78 62	80 64	76 63	80 65	80 63	80 63	80 66	80 69	78 64	78 60	79 56	79 65	78 65	78 62	80 65	80 65	77 66	75 62	77 62	77 62	77 62	78 63	76 60	76 62	77 65	77 65	78 62	77 62	78 62	77 62	78.1 62.5			
KAANAPALI AIRPORT	MAX MIN	81 64	79 65	81 64	81 63	82 63	80 63	82 65	79 69	80 69	81 64	79 65	79 67	79 67	79 69	78 67	80 67	78 67	70 69	79 62	76 62	76 62	77 63	78 63	78 63	80 60	80 62	80 62	80 63	81 63	81 62	79.5 63.9			
KAHULUI WSO 398 AP	MAX MIN	83 64	85 66	85 61	85 60	87 58	86 60	87 64	86 62	86 62	82 68	81 68	81 68	81 69	81 69	82 69	83 69	85 69	81 69	81 69	79 69	79 62	79 62	81 62	82 62	80 62	80 62	80 62	80 62	80 62	80 62	82.7 62.6			
KAILUA 446	MAX MIN	75 67	75 67	75 67	74 67	75 64	76 64	73 66	74 66	75 64	73 66	72 64	72 64	73 64	72 66	72 66	77 66	78 66	77 66	77 66	79 60	78 65	69 65	69 65	72 63	73 63	73 63	72 63	72 63	73 63	70 61	73.6 63.6			
KEAWAKAPU BEACH 260.2	MAX MIN	84 62	86 63	86 62	85 60	85 60	83 62	85 65	86 65	85 64	88 62	86 59	86 60	87 58	85 61	86 59	84 61	85 61	87 68	83 68	83 68	83 68	85 60	81 60	81 60	81 60	81 60	83 61	85 61	83 61	83 61	84.1 60.2			

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
DECEMBER 1971

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	72	71	71	73	72	73	72	73	75	74	73	73	72	73	71	71	72	76	78	72	68	67	71	70	68	69	70	70	69	65	71	
	MIN	57	57	56	55	54	55	56	57	58	54	53	53	54	55	55	51	52	58	62	55	50	51	52	55	54	50	51	52	53	53		
LAHAINA 361	MAX	85	85	84	85	85	86	85	85	85	87	85	87	66	87	87	85	82	84	91	86	84	82	81	83	83	83	83	82	84	82		
	MIN	65	67	64	64	63	66	64	67	64	65	63	66	64	66	63	62	63	66	70	63	62	60	62	65	62	60	60	62	64	63		
HAILUO 386	MAX	82	78	80			83	80	80	84	79			77	79	78	77	79			84	75	75	76	82			89	86	85	84	87	
	MIN	71	70	69			62	65	66	67	69			66	69	68	66	61			62	63	64	63	62			52	55	55	54	52	
ISLAND OF HAWAII																																	
HAINA 214	MAX	77	78	78	78	78	79	80	78	80	78	76	77	76	73	73	76	77	80	81	75	72	75	75	74	76	76	75	76	74	79		
	MIN	65	66	64	63	63	63	65	64	65	67	64	64	62	64	66	63	61	62	61	65	61	62	61	60	64	62	63	64	65	62	59	
HAWAII VOLCNS NP HO 54	MAX	68	68	65	62	63	68	66	65	64	60	63	62	60	59	62	61	65	66	63	64	60	58	61	61	59	61	60	61	64	58	61	
	MIN	52	55	51	48	48	53	55	54	50	50	50	50	52	52	54	49	48	52	57	52	45	45	46	48	51	48	49	49	50	49	49	
HILO WSD 87 AP	MAX	80	79	77	80	81	74	83	82	79	78	79	78	79	78	73	75	79	80	82	67	74	73	77	78	78	72	78	77	77	78	75	
	MIN	65	67	65	63	63	67	67	65	65	65	66	64	65	65	66	61	62	67	68	65	63	60	62	62	60	62	62	63	62	63	62	
KAINALIU 73.2	MAX	77	76	76	78	76	76	78	77	75	78	76	77	78	76	77	78	76	77	78	77	73	73	74	73	74	74	73	75	79	74	79	
	MIN	59	63	63	60	58	61	61	61	60	62	59	58	59	61	59	57	57	60	64	63	57	57	56	58	58	57	59	58	61	59	57	
KAMUELA 192.2	MAX	76	70	69	74	76	77	78	74	78	74	68	69	68	69	68	70	72	76	74	67	64	64	66	76	72	67	70	67	65	65	75	
	MIN	53	58	52	50	47	45	48	53	50	55	52	54	55	56	56	57	44	46	49	52	50	52	42	44	47	53	54	50	53	44		
KEAAU 92	MAX	78	79	77	76	77	79	74	79	79	76	77	77	76	69	73	77	77	79	74	75	71	74	77	75	72	75	75	76	76	73	74	
	MIN	64	65	65	61	61	63	65	66	64	64	63	63	64	63	63	61	61	62	66	66	60	59	59	60	63	61	61	62	62	61	62	
KEALAKEUA 26.2	MAX	78	77	75	76	78	76	79	76	77	77	77	77	76	75	78	77	75	77	79	78	70	73	73	74	74	75	76	75	77	73	75	
	MIN	61	65	65	61	59	63	63	63	61	62	60	60	59	62	60	59	59	62	64	64	58	59	57	58	58	59	61	59	62	60	58	
KOMALA MISSION 175.1	MAX	78	77	77	74	79	79	78	78	78	76	76	75	75	74	75	76	76	81	81	70	70	73	74	79	76	75	74	74	73	72	76	
	MIN	66	66	65	63	62	63	64	64	65	67	67	64	65	65	65	64	60	62	65	66	62	62	60	60	62	64	64	65	65	62	60	
KUNA (KAILUA) 68.3	MAX	84	82	84			84	83	82	82	84			83	82	82	82	81			86	79	82					81	80	80			
	MIN	67	68	69			68	69	68	68	69			66	68	68	67	62			66	65	65					64	65	65			
KULANI CAMP 79	MAX	64	65	62	59	62	66	64	50	58	59	59	59	55	52	54	58	48	62	63	52	56	52	56	56	57	49	56	56	58	59	55	
	MIN	43	47	45	42	41	49	50	46	42	46	47	46	49	48	47	43	44	44	52	48	44	40	41	42	46	42	42	42	43	43		
MAUNA LOA SLOPE OBS	MAX	47	46	49	49	49	46	49	54	54	47	48	46	42	42	44	42	49	50	42	45	47	51	51	48	45	47	52	49	45	40	40	
	MIN	33	33	33	31	34	30	31	38	37	34	32	30	28	31	30	25	26	34	35	33	29	28	36	33	29	30	33	34	32	25	24	
MOUNTAIN VIEW 91	MAX	73	75	72	75	75	75	69	74	75	70	71	71	71	65	66	71	74	72	72	72	64	67	71	70	70	70	73	76	76	76		
	MIN	59	59	60	57	57	57	61	61	60	59	58	58	58	60	60	56	57	58	56	57	58	57	59	54	55	55	55	55	55	55		
NAALEHU 14	MAX	77	78	76	76	78	78	76	76	76	74	74	76	76	76	75	75	76	76														
	MIN	65	65	67	67	66	66	65	65	67	66	66	65	65	66	67	64	64	64	64													
ODKALA 223	MAX	77	78	77	75	76	77	79	78	80	77	78	78	75	72	73	76	76	83	79	70	68	75	75	76	74	75	75	76	74	76		
	MIN	66	65	67	65	66	64	64	67	66	65	63	64	63	63	64	63	61	63	66	64	60	61	61	61	61	62	64	63	61	60		
OPIHIHALE 2 24.1	MAX	76	75	74	75	75	76	73	76	77	74	74	73	75	73	75	75	75	77	77	69	70	70	72	75	72	73	73	72	73	73		
	MIN	62	62	58	58	58	58	58	58	59	57	56	56	57	57	57	53	53	54	64	55	54	54	54	54	54	55	54	55	54	54		
PAMALA 21	MAX	79	79	78			80	77	78	78	76			82	79	78	76	77			81	75	75	76	75								
	MIN	60	60	64			62	64	66	66	63			63	64	64	57	58			59	56	55	57	61								
PUAKO 95.1	MAX	83	84	84	85	83	82	82	81	83	83	82	83	83	81	82	83	81	82	83	81	82	83	81	84	79	80	80	77	82	79	80	
	MIN	69	72	67	65	65	66	67	66	66	68	69	64	65	67	72	67	61	63	67	72	67	65	62	62	63	64	63	64	66	67	62	
UPOLU POINT USCG 159.2	MAX	82	79	80	78	82	82	82	80	82	79	78	78	78	77	77	78	80	85	84	77	75	76	77	82	82	82	82	76	74	78		
	MIN	68	69	66	68	67	67	69	67	68	67	67	66	65	67	67	60	65	64	68	67	63	62	63	69	69	70	69	69	70	68	67	

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP	.19	.22	.13	.10	.18	.17	.17	.19	.17	.26	.24	.24	.40	.19	.25	.17	-	.18	-	.14	.33	.27	.25	.16	.12	.15	.20	.16	.24	.17	.18	
	WIND	116	178	184	94	70	87	84	106	170	298	309	284	253	311	294	213	82	83	92	227	275	251	176	80	69	132	230	258	247	226	170	
	MIN	60	63	62	61	62	63	62	62	63	63	59	59	59	59	59	60	59	56	54	59	60	56	56	67	58	56	57	57	57	60	58	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.18	.15	.15	.15	.14	.15	.16	.15	.22	.26	.24	.18	-	.21	.18	.16	.14	.15	-	.15	.19	.15	.09	.12	.13	.16	.16	.17	.11	.15	
	WIND	20	24	23	23	21	19	19	23	28	59	56	54	49	57	39	30	19	57	10	10	31	30	23	12	20	14	32	34	39	25	24	
	MIN	84	84	83	83	83	83	84	83	82	82	78	80	80	81	82	80	81	78	85	72	78	79	77	74	79	82	80	78	78	70	80	

PRECIPITATION MEASURED IN STORAGE GAGES

HAWAII
DECEMBER 1971

Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground
ISLAND OF KAUAI HANALEI TUNNEL 1053	1971			ISLAND OF MAUI HAELAAU 477	1971			ISLAND OF MAUI (CONTINUED) KUKUI 380	1971		
	JAN 31	21.20			JAN 30	19.00	JAN 30		50.00		
	FEB 28	4.00			FEB 28	2.00	FEB 28		8.00		
	MAR 31	4.40			MAR 29	9.00	MAR 29		29.25		
	APR 30	-			MAY 1	18.00	MAY 1		63.00		
	MAY 31	5.20			MAY 29	6.00	MAY 29		30.00		
	JUN 30	5.40			JUL 3	1.00	JUL 3		4.20		
	JUL 31	6.00			JUL 31	20.00	JUL 31		20.00		
	AUG 31	7.00			AUG 28	.00	AUG 28		7.60		
	SEP 30	7.00			OCT 2	4.00	OCT 2		22.00		
	OCT 31	12.40			OCT 31	3.00	OCT 31		12.00		
	NOV 30	14.20			NOV 29	5.00	NOV 29		25.00		
	DEC 31	28.00			DEC 30	5.00	DEC 30		18.00		
TOTAL	-		TOTAL	92.00	TOTAL	289.05					
N WAILUA RIVER 1055	1971			HONOLUA FLO 49 494	1971			MOKUPEA 475	1971		
	JAN 31	15.00			JAN 31	13.75	JAN 30		17.04		
	FEB 28	6.80			MAR 1	1.09	MAR 1		1.80		
	APR 7	29.00			MAR 31	4.33	MAR 31		8.64		
	APR 30	13.80			APR 30	4.57	APR 30		8.68		
	MAY 31	3.20			JUN 1	1.96	JUN 1		3.19		
	JUN 30	4.80			JUN 30	.41	JUN 30		1.48		
	JUL 31	4.80			JUL 31	.85	JUL 31		1.31		
	AUG 31	5.40			AUG 31	.76	AUG 31		.91		
	SEP 30	7.20			SEP 30	2.23	SEP 30		3.11		
	OCT 31	8.40			OCT 29	2.08	OCT 29		2.67		
	NOV 30	11.80			NOV 30	1.93	NOV 30		4.62		
	DEC 31	18.40			1972		1972				
TOTAL	128.60		JAN 3	1.60	JAN 3	3.47					
			TOTAL	35.56	TOTAL	56.92					
						PUU PAKI 352	1971				
							MAR 31	25.50			
							JUN 30	45.00			
							SEP 30	14.00			
						DEC 30	36.00				
						TOTAL	120.50				
						WAILUA IKI 348	1971				
							MAR 31	71.00			
							JUN 30	54.00			
							SEP 30	30.00			
						DEC 30	55.00				
						TOTAL	210.00				

LATE REPORTS DAILY PRECIPITATION

HAWAII

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
• • • JUNE 1971																																		
CAMPBELL IND PK 702.5 KALAUPAPA 563	A	1.45														.20	1.21	.04																
• • • OCTOBER 1971		1.04																																
MOUNT WAIALEALE 1047	R		.43	.35	.39	.24		.47	.43	.20	.28	.31	.39	.57	.12	.20	.24	.04	.08	4.84	.79	1.61	1.61	.16	1.06	.71	1.42	4.09	.16					

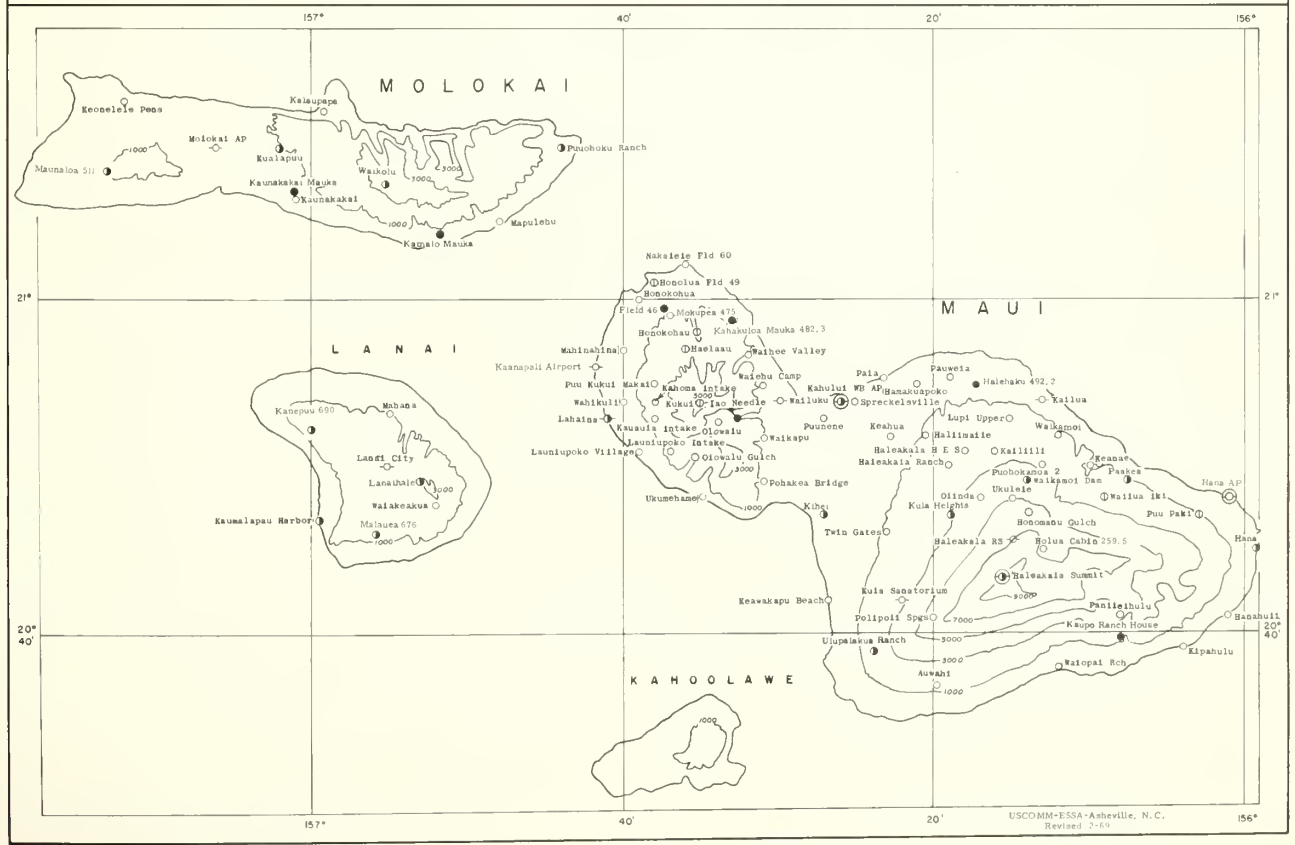
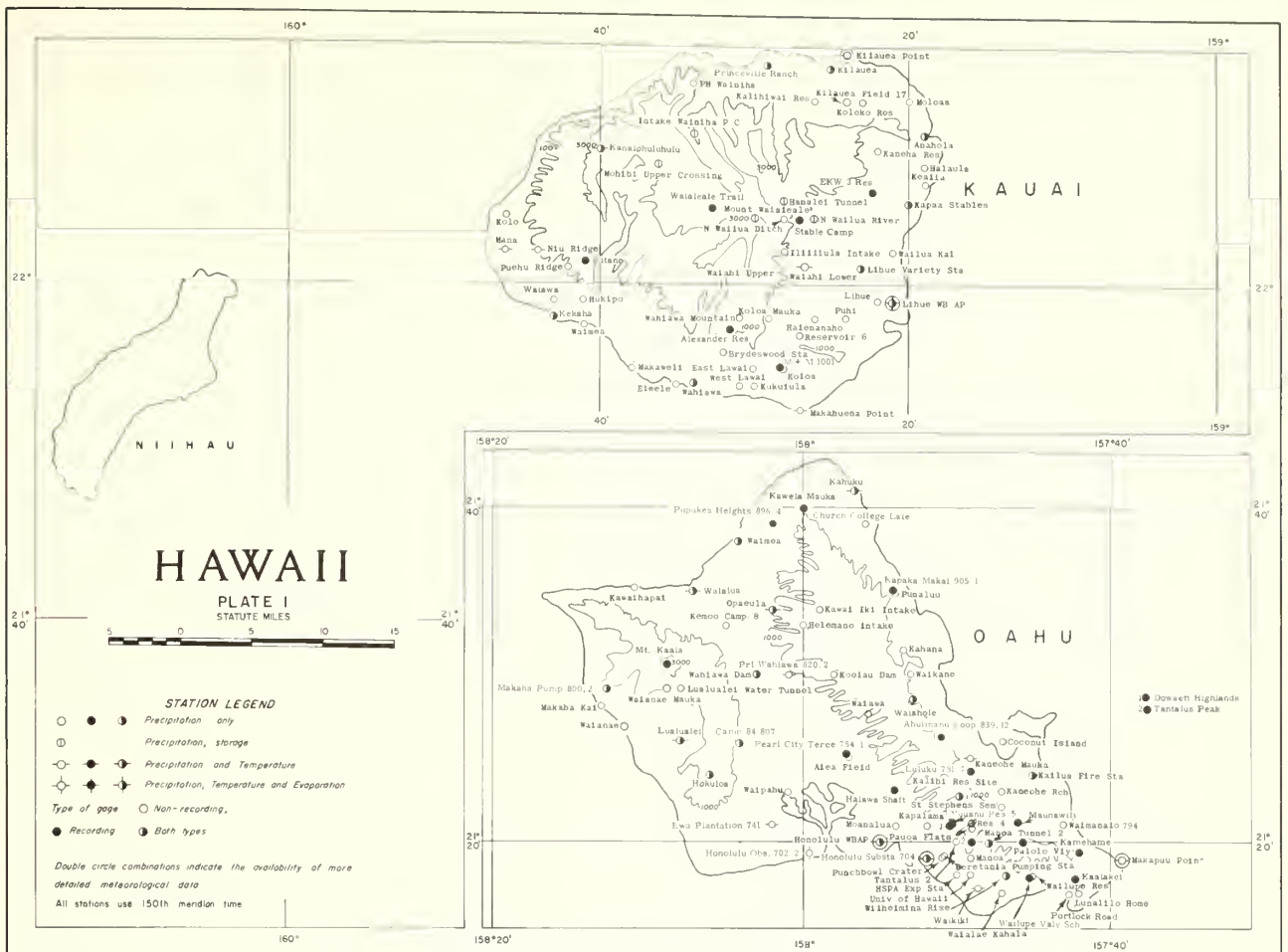
EVAPORATION AND WIND

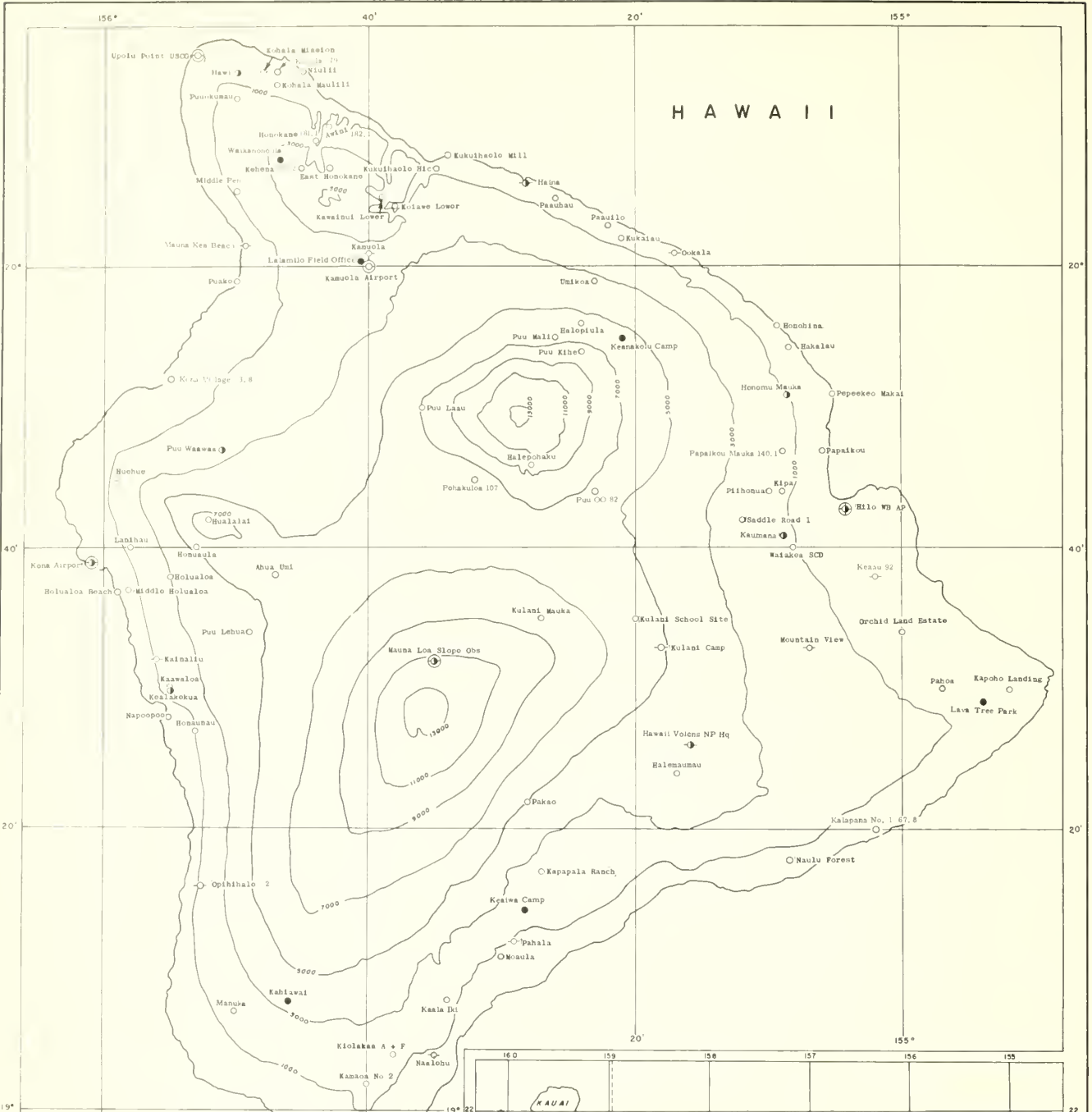
Station		Day Of Month																															Total or Avg.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
• • • AUGUST 1971																																		
LIHUE WSD 1020.1 AP	EVAP	.41	.45	.30	.32	.27	.35	.29	.26	.27	.25	.37	.37	.37	-	.33	.45	.34	.29	.41	.41	.34	.39	.44	.37	.37	.31	.36	.33	.32	.40	.39	10.888	
	WIND	179	205	204	178	95	92	85	70	69	74	113	177	168	145	124	153	168	242	233	188	160	214	214	186	168	188	118	91	110	179	182	4772	
	MAX	86	84	82	84	84	87	86	84	85	88	89	86	85	85	88	85	86	82	84	84	85	84	84	83	85	86	85	87	87	87	86	85.3	
	MIN	64	63	64	64	65	64	72	60	61	61	61	64	66	64	65	64	64	65	65	65	64	62	63	63	63	63	63	62	63	65	64	63.7	

STATION INDEX

HAWAII
OCTOBER 1971

STATION	INDEX NO.	DIVISION	DISTRICT	OBSERVATION TIME AND TABLES			ELEVATION	OBSERVER
				TEMP	PRECIP	EVAP		
ISLAND OF KAUAI								
ALEXANDER RESV. 993	0140	02	KOOLA	21 27 159 32	1610	VAR	MCBRYDE SUGAR CO.	
ANOHOLA 1114	0145	01	KAWAIIHOU	22 08 159 12	180	7A	LIME PLANTATION CO.	
ARROYO RESV 985	0212	02	KOOLA	21 02 159 32	170	7A	MCBRYDE SUGAR CO.	
EAST LAHAI 934	0430	02	KOOLA	21 55 159 30	440	7A	MCBRYDE SUGAR CO.	
ELI 3	0402	02	KAWAIIHOU	21 55 159 32	278	9A	LIME PLANTATION	
ELEETE 927	0470	02	KOOLA	21 24 159 22	178	9A	MCBRYDE SUGAR CO.	
HALAUA 1110	0495	01	KAWAIIHOU	22 07 159 19	233	7A	MCBRYDE SUGAR CO.	
HALAUA 1106	0498	02	KOOLA	21 59 159 24	490	7A	MCBRYDE SUGAR CO.	
HALAUE TUNNEL 1059	1170	01	KAWAIIHOU	22 05 159 28	1218	8A	S. LIME PLTN CO LTD	
HUKIPO 945	2161	03	HAIMEA	21 59 159 41	800	8A	KEKAMA SUGAR CO LTD	
ILILUIA INTAKE 1050 A	2222	02	HAIMEA	22 02 159 28	1059	VAR	LIME PLTN CO LTD	
KANEA WATERSHED 1086 A	2227	01	HANAIE	22 09 159 34	690	VAR	S. MC BRYDE SUGAR CO LTD	
KANALOAHU 1075	3099	03	HAIMEA	22 08 159 40	8000	8A	MCBRYDE SUGAR CO LTD	
KANEA RESERVOIR 1092 A	3104	01	KAWAIIHOU	22 08 159 23	930	7A	LIME PLANTATION	
KANEA STAVES 1104	3150	01	KAWAIIHOU	22 08 159 23	650	9A	LIME PLTN CO LTD	
KAHAI 1112	3392	01	KAWAIIHOU	22 06 159 19	9	7A	LIME PLTN CO LTD	
KEKAMA 944	4272	03	HAIMEA	21 58 159 49	9	7A	KEKAMA SUGAR CO LTD	
KILAUEA 1134	4581	01	HANAIE	22 13 159 24	317	8A	MCETCALS FARMS HI INC	
KILAUEA FIELO 17 1135 A	4586	01	HANAIE	22 11 159 24	415	7A	MCETCALS FARMS HI INC	
KILAUEA POINT 1133	4588	01	HANAIE	22 14 159 24	190	8A	U S COAST GUARD	
KITANO 1037-1	4650	03	HAIMEA	22 02 159 41	2190	7A	KEKAMA SUGAR CO	
KOLA 916	4742	02	KOOLA	21 55 159 28	240	8A	KEKAMA SUGAR CO LTD	
KOLA HUKA 934	4750	02	KOOLA	21 58 159 29	640	7A	GRUVE FARM CO LTD	
KOLOKO RES 1137	4758	03	KAWAIIHOU	22 09 159 20	175	9A	MCBRYDE SUGAR CO LTD	
KOULIHA 995	4950	02	KOOLA	21 54 159 30	100	04	MC BRYDE SUGAR CO LTD	
LIME VARIETY STA	5560	02	LIME	22 01 159 25	375	7A	MAHAIWAN SUGAR PL ASSN	
LIME W/DO 1020-1 A	5580	02	LIME	21 59 159 21	103	MID	NATL WEATHER SERVICE	
MAKAIHANA POINT 940-1	5785	02	KOOLA	21 52 159 27	92	8A	U S COAST GUARD	
MAKAIHANA 965	5804	03	HAIMEA	21 55 159 38	140	7A	OLONELE SUGAR CO	
MAKAIHANA 966	5805	03	HAIMEA	21 55 159 38	140	7A	OLONELE SUGAR CO	
MAKAIHANA 1001	6097	02	KOOLA	21 58 159 26	1	9A	7A	GRUVE FARM COMPANY
MAHAIWAN INTL CRSS 1083 A	6433	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 B	6434	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 C	6435	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 D	6436	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 E	6437	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 F	6438	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 G	6439	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 H	6440	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 I	6441	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 J	6442	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 K	6443	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 L	6444	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 M	6445	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 N	6446	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 O	6447	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 P	6448	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 Q	6449	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 R	6450	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 S	6451	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 T	6452	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 U	6453	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 V	6454	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 W	6455	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 X	6456	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 Y	6457	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 Z	6458	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AA	6459	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AB	6460	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AC	6461	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AD	6462	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AE	6463	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AF	6464	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AG	6465	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AH	6466	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AI	6467	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AJ	6468	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AK	6469	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AL	6470	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AM	6471	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AN	6472	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AO	6473	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AP	6474	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AQ	6475	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AR	6476	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AS	6477	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AT	6478	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AU	6479	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AV	6480	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AW	6481	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AX	6482	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AY	6483	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 AZ	6484	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BA	6485	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BB	6486	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BC	6487	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BD	6488	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BE	6489	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BF	6490	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BG	6491	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BH	6492	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BI	6493	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BJ	6494	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
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MAHAIWAN INTL CRSS 1083 BL	6496	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
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MAHAIWAN INTL CRSS 1083 BO	6499	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BP	6500	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
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MAHAIWAN INTL CRSS 1083 BS	6503	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BT	6504	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BU	6505	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BV	6506	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BW	6507	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BX	6508	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BY	6509	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 BZ	6510	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CA	6511	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CB	6512	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CC	6513	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CD	6514	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CE	6515	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CF	6516	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CG	6517	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CH	6518	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CI	6519	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CJ	6520	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CK	6521	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CL	6522	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CM	6523	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CN	6524	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CO	6525	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CP	6526	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CQ	6527	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CR	6528	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CS	6529	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CT	6530	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CU	6531	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CV	6532	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CW	6533	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CX	6534	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CY	6535	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 CZ	6536	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVEY	
MAHAIWAN INTL CRSS 1083 DA	6537	03	HAIMEA	22 07 159 36	3500	MID	U S GEO SURVE	





HAWAII

HAWAII

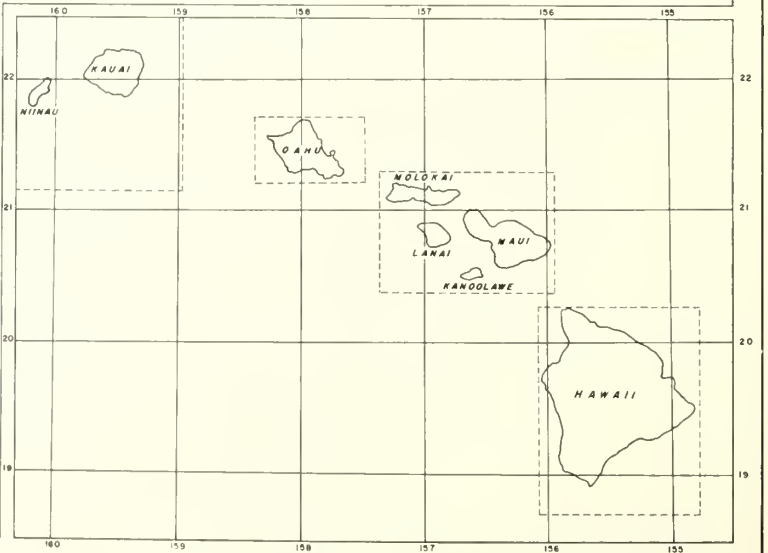
PLATE 2
STATUTE MILES



STATION LEGEND

- ● ① Precipitation only
- ② Precipitation, storage
- ● ③ Precipitation and Temperature
- ● ④ Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording,
● Recording
- ① ② Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 1500h meridian time



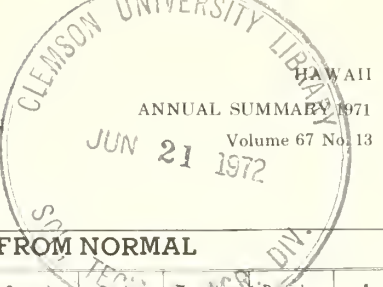
U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE



CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE



HAWAII
ANNUAL SUMMARY 1971

Volume 67 No. 13

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual				
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure			
ISLAND OF KAUAI																													
KANALOHULU 1075	54.4		57.0		58.2		60.5		60.6		62.4		62.9		63.5		64.0		61.7		60.1		57.7		60.3				
KILAUEA POINT 1133	70.6M		73.5		72.4		73.4		74.8		75.3		76.1		77.3		78.5		76.6M		75.3		73.8M		74.8M				
LIMUE WSO 1D2U.1 AP	69.7	- 1.2	73.8	3.1	73.9	2.9	75.9	3.4	76.9	2.4	77.9	1.3	78.4	1.8	79.9	1.5	80.0	1.9	77.0	1.4	77.0	2.5	74.5	2.3	74.4			1.9	
MAKAHOUENA POINT 940.1	71.1M		74.5M		73.0M		73.7		75.9		76.5		78.0		79.1		78.8		76.2		76.9		74.1M		75.8M				
MANA 1026	69.7	- 1.4	72.7	1.7	72.9	1.0	73.4		74.9		76.5	- 1.7	77.9	0.0	78.4	- 1.1	77.7	- 2.2	76.0	- 1.0	74.7	0.0	73.0	1.9	74.8			2.2	
ISLAND																													
NII RIDGE 1035	65.6		69.2		67.9		69.7		70.9		71.4		72.7		73.8		73.3		73.0		71.9		70.3		70.8				
WAIAMI LOWER 1054	67.1		72.6		69.6		70.1		71.5		72.7		73.7		72.5		72.6		71.5		69.2		67.6		70.9				
ISLAND																													
ISLAND OF OAHU																													
EWA PLANTATION 761	68.8M	- 2.2	71.3M	4	71.8	0	73.3M	2.2	73.3	- 1.6	75.0M	- 1.8	75.9M	- 1.8	76.4M	- 1.9	76.9M	- 1.7	75.7M	- 2.2	75.7M	- 2.2	73.3M	- 1.3	76.1				2.2
HONOLULU WSO 703 AP	70.7	- 1.5	73.6	1.7	72.9	0.7	74.5	1.3	75.3	0.4	76.1	- 0.7	77.4	- 1.3	78.5	- 1.1	78.5	- 1.1	77.9	- 0.5	75.6	0.2	73.3	0.0	75.4				3
HONOLULU SUBSTA 704	70.7	- 1.5	73.6	1.7	72.9	0.7	74.5	1.3	75.3	0.4	76.1	- 0.7	77.4	- 1.3	78.5	- 1.1	78.5	- 1.1	77.9	- 0.5	75.6	0.2	73.3	0.0	75.4				3
KAHUKU 912	69.4	- 2.1	72.7	1.5	72.8M	0.9	72.8	0.3	74.6	0.4	75.3	- 0.6	76.5	0.0	77.4	0.3	77.3	0.5	76.8M	- 0.7	74.8	0.6	72.5	1.4	74.4M				3.9
KANEHE MAUKA 781	69.4	- 2.1	72.7	1.5	72.8M	0.9	72.8	0.3	74.6	0.4	75.3	- 0.6	76.5	0.0	77.4	0.3	77.3	0.5	76.8M	- 0.7	74.8	0.6	72.5	1.4	74.4M				3.9
LUALUALEI 804	70.3M		72.1M		73.4M		75.3		76.2		77.4M		78.3M		78.9		79.6		77.9		76.0		74.1		75.8M				
MAKAPUU POINT 724	67.9		70.8		70.5		71.5		71.8		73.2		73.7		75.5		75.7		75.1		72.5		71.6		72.6				
OPAEULA 870	66.4M	- 1.4	69.9M	3.2	68.9	2.1	70.4	2.4	71.1	1.3	71.8	0.2	73.7	2.5	74.4	1.5	73.5	0.9	73.7	- 0.5	70.7	- 1.7	67.8	- 2.4	70.6M				7
PRI MAHIAWA 820.2	66.5		70.0		69.8		71.6		71.8		73.7		75.0		75.4		75.6		74.0		72.1		70.0		72.1				
WAIALEE 896.3	-		-		-		-		-		-	-	-	77.3		77.8M		78.1		76.5M		73.3		71.6					
WAILAUA 847	72.0	- 2.0	70.9	0.7	71.1	0.8	72.4	0.9	72.7	- 1.7	74.1	- 1.2	75.3	- 0.9	75.5	- 1.2	75.8	- 0.5	74.5	- 0.9	72.9	- 0.5	70.5	- 1.7	72.9				5
WAIKIKI 717.2	69.7		74.5M		75.6		76.3		76.5		77.5		78.7		79.0		78.5		78.4		76.7		74.1		76.5M				
WAINALANI EXP FARM	69.7		72.6		73.2		74.2		76.1		76.1		77.5		78.2		78.5		77.4		75.7		73.5		75.2				
ISLAND																													
ISLAND OF MOLOKAI																													
MOLOKAI AP 524	69.6M		71.4M		72.2		73.5M		74.2		75.4		76.2		77.0		77.9		76.2		74.7		72.5		74.2M				
ISLAND																													
ISLAND OF LANAI																													
LANAI CITY 672	64.7	- 0.9	68.3		68.1M	2.1	68.6	1.6	68.5	0.0	70.3	0.2	71.1	0.0	71.8	- 0.1	71.3M	- 0.2	M		M		M		-				
ISLAND																													
ISLAND OF MAUI																													
HALEAKALA RS 338	46.9		49.5		51.5		52.0		50.8		57.6		57.2		55.0		54.5		53.8		53.1		50.8		52.7				
HALEAKALA SUMMIT 338.4	M		44.0M		M		43.2M		45.2		49.3		50.5		48.8M		47.1		M		45.8		M		43.3M				
HANA AIRPORT 355	63.4		72.6		72.1		73.4		74.5		75.0		76.1		78.9		75.2		74.0		72.1M		70.3		73.3M				
KAANAPALI AIRPORT	69.2M		71.4		72.2		73.7		73.1		74.4		75.5		75.6		75.7M		74.7M		73.9M		71.5M		73.3M				
KAHULUI WSO 398 AP	69.8	- 2.3	72.3	0.6	73.5	1.3	74.3	0.9	75.1	- 0.2	77.3	- 1.1	78.0	- 0.3	77.7	- 1.3	78.5	- 1.1	76.7	- 0.6	75.5	0.5	72.7	0.0	75.1				1
KAILUA 446	67.5	- 0.9	69.9	1.8	68.9	- 0.8	69.7	- 0.6	70.5	- 1.1	71.4	- 0.5	72.6	- 1.1	73.1	- 0.8	73.5	- 0.2	71.9	- 0.8	70.6	- 0.4	68.6	- 0.3	70.7				0
KEAWAKAPU BEACH 260.2	70.3		72.2		72.9		74.1		74.2		75.6		76.5		78.6		74.8		74.1		72.2		70.3		73.3M				
KULA SANATORIUM 267	61.4	- 0.6	61.6	0.5	62.0	0.8	62.7	0.7	62.6	- 0.9	64.1	- 0.8	65.1	- 0.9	66.0	- 1.1	66.2	- 0.3	65.5	- 0.7	64.7	0.3	62.9	0.6	63.8				
LAWAIIA 361	71.3		73.5		74.1		74.8		75.6		76.7		77.4		77.9		78.6		77.7		75.7		74.1		75.6				
WAILUKU 386	M		71.8M	0.5	72.6M	1.1	73.1M	0.5	M		75.1M	- 1.3	M		76.3M	- 1.7	76.9M	- 0.9	75.8M	- 1.2	74.8M	0.0	72.0M	- 0.6	-				
ISLAND																													
ISLAND OF HAWAII																													
HAINA 214	69.2	- 0.3	70.6	1.1	70.4	- 0.9	71.4	1.4	71.9	- 0.5	73.3	- 0.3	74.3	- 0.2	74.9	- 0.4	75.5	- 1.0	74.2	- 0.2	72.3	0.3	69.9	- 0.3	72.3				4
HAWAII VOLCONS NP HO 54	58.3	- 2.8	58.2	0.3	57.8	- 1.1	59.2	0.1	59.0	- 1.6	60.7	- 1.3	61.9	- 1.0	62.2	- 1.4	62.6M	- 0.7	61.5	- 1.4	61.5	0.7	56.5	- 2.2	60.0M				7
HILD WSO 87 AP	71.3	- 0.5	71.9	1.3	69.4	- 1.2	70.9	- 0.7	72.2	- 1.6	75.0	0.7	76.6	1.7	76.6	0.8	76.8	1.1	75.4	0.3	73.8	0.6	70.9	- 0.6	73.4				3
KAIHALUI 73.2	67.1		67.9		68.3		68.3		69.5		69.5		70.4		70.4		70.1		69.9		68.7		67.8		68.9				
KAWAELA 192.2	62.1		61.9		62.4		63.7		63.3		63.6		65.7		66.0		66.0		65.3		64.0		60.9		63.7				
KEAUU 92	70.3	0.0	70.8	0.5	70.1	- 0.2	70.6	- 0.5	71.0	- 1.5	72.4	- 1.3	73.5	- 0.9	74.4	- 1.1	74.2	- 0.7	72.9	- 1.5	71.4	- 1.2	69.2	- 1.8	71.7				9
KEALAKUKUA 26.2	67.4		68.5		68.7		68.7		68.7		69.8		70.7		71.1		71.3		71.1		69.8		68.3		69.5				
KOHALA MISSION 175.1	69.1	- 0.4	70.0	0.6	69.9	- 0.5	71.1	- 0.8	71.6	- 1.3	73.2	- 0.2	74.4	- 0.3	74.9	- 0.2	75.1	0.5	73.8	- 0.3	72.0	0.0	69.8	- 0.3	72.1				1
KONA (KAILUA) 68.3	M		74.5M		74.6M		75.4M		M		76.4M		77.3M		77.8M		77.5M		M		M		M		M				
KULANI CAMP 79	53.4		52.9		53.0		54.3		54.0		55.2		56.1		56.1		57.1		55.8M		52.7		51.1		54.1M				
MAUNA LDA SLOPE OBS	36.6		40.8		42.5		40.3		42.5		47.2		46.9		45.0		44.8		43.3		42.2		39.1		42.9				
MOUNTAIN VIEW 91	66.2		66.0		65.4		66.9		66.6		68.4		69.4		73.8		73.0		74.3		73.8		66.6		67.2				
NAALEHU 14	69.7		70.3		69.8		70.7		71.5		73.0		73.8		73.8		73.8		74.										

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1971

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL		
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
ISLAND OF KAUAI																											
ANAOHUA 1114	8.43	1.71	5.59	.13	7.61	1.40	6.71	2.69	1.41	1.54	2.89	1.24	2.50	.11	1.95	-.94	3.35	1.22	1.14	-3.78	3.49	1.27	12.54	7.14	57.61	8.02	
BYR0ES+700 STA 985	12.36	5.15	4.48	-1.68	8.95	3.18	17.80	14.23	3.06	-.26	2.54	-.67	2.68	-1.42	2.80	-2.34	4.41	1.89	3.62	-1.44	5.12	-.25	9.87	2.67	77.67	18.06	
EAST LAHAI 934	12.39	5.37	3.50	-2.53	11.02	4.02	11.38	7.00	11.02	-.83	3.23	-.52	2.99	-1.98	2.83	-3.34	6.97	2.83	3.20	-2.10	5.44	-.44	11.45	4.41	77.35	13.05	
ELELE 927	8.13	5.45	2.95	-1.39	9.15	1.82	7.52	5.83	1.37	-.05	1.55	-.45	1.86	-.40	1.87	-2.23	1.28	-1.10	2.61	-1.10	2.51	-.44	7.69	3.61	44.17	13.45	
HAKAULA 1110	8.83	1.92	5.61	-.26	8.21	2.17	7.23	3.31	2.39	-.59	3.15	1.24	2.29	-.03	2.63	-.27	3.13	-.84	1.53	-3.04	4.62	-.57	12.56	7.04	62.20	12.34	
HALENANUHO 1006	11.06		4.50		11.49		3.30		3.30		3.42		2.91		4.32		5.30		4.53		5.82		10.98		81.08		
HUKIRO 945	11.90		1.77		8.87		5.51		.41		.97		.25		.76		1.33		3.10		.10		6.62		37.59		
ILILIIUA INTAKE 1030	17.21		10.63		20.31		34.75		10.34		5.52		7.93		6.63		13.89		8.64		15.11		20.38		170.37		
INTAKE WAINIHA PC 1086	17.97		11.95		12.58		25.37		1.98		3.37		6.72		2.54		4.89		5.43		8.20		12.01		113.01		
KANALOHULIHU 1075	25.52		5.47		11.69		6.63		1.01		1.55		1.67		3.77		2.24		4.14		1.43		6.66		71.78		
KENFA RESERVOIR 1092	10.36		8.08		15.99		13.46		4.41		4.74		3.30		5.63		5.18		4.88		9.55		16.74		102.32		
KAPPA STABLES 1104	8.86		4.46		9.24		7.81		3.07		3.66		1.58		2.60		2.65		1.76		6.27		12.83		64.99		
KEAIIA 1112	8.09	2.21	5.32	-.63	6.43	1.13	7.08	3.72	-.98	-1.21	4.23	2.60	2.42	-.51	2.51	-.02	1.96	-.14	1.68	-2.12	3.90	-.59	11.52	6.69	56.12	13.41	
KERAMA 944	10.21	5.41	1.24	-1.68	6.03	1.10	4.45	3.38	-.13	-.65	1.36	1.02	4.72	-.20	4.02	-.95	4.83	-1.19	2.04	-.70	4.04	1.55	6.30	3.01	29.29	9.22	
KILAEUA 1134	4.98	3.15	7.30	1.18	10.39	3.00	23.67	18.16	2.94	2.06	2.23	1.04	2.40	2.04	3.40	1.59	4.94	1.33	2.36	-2.78	5.14	1.53	9.17	1.97	78.92	11.45	
KILAEUA FIELD 17 1135	4.78	5.31	7.75	-.45	10.97	1.09	23.37	15.56	3.27	4.32	2.10	2.95	2.70	4.01	2.97	4.72	3.71	1.57	3.44	-3.63	7.67	-.61	11.62	2.11	84.33	8.81	
KILAEUA POINT 1131	8.05		1.77		7.77		15.00		1.85		2.29		2.32		2.79		3.19		3.14		8.64		11.86		68.67		
KILOA 1033	10.08		2.07		5.21		3.50		.30		1.29		.16		.68		2.50		1.30		.03		4.01		31.13		
KILOA 936	11.95	5.04	3.89	-2.35	10.68	4.05	11.62	6.89	2.75	1.60	5.06	1.37	2.82	-2.24	3.08	-3.44	5.70	1.32	3.31	-2.00	5.77	-.30	8.70	1.08	75.33	7.82	
KILOA MAUKA 994	13.68	3.91	5.24	-4.09	14.17	5.52	19.49	12.83	3.15	1.01	3.74	1.98	3.63	-3.74	4.39	4.41	7.07	1.69	4.94	-3.00	8.00	-.27	15.22	5.03	104.72	9.48	
KILOKO RES 1137	7.11		8.00		13.08		19.04		2.52		2.72		3.21		3.42		3.42		3.70		7.99		12.51		85.39		
KIKUILUA 935	11.24	5.88	3.22	-1.25	7.09	2.73	6.93	4.52	-.98	-.93	1.95	.54	1.58	-.52	2.01	-1.23	4.01	1.75	1.58	-1.79	3.10	-.91	8.46	2.85	52.11	11.64	
LIMU VARIETY STA	9.08		4.45		7.45		14.33		2.85		4.20		2.70		3.35		3.35		3.35		6.07		13.29		79.51		
LIMU 1020	10.93		3.05	-2.47	9.02	3.50	8.03	4.17	1.82	2.12	3.94	.94	1.69	1.02	1.87	-.98	3.62	1.62	3.17	-3.61	4.67	-.46	7.50	1.32	57.18	4.10	
LIMU WSD 1020.1 AP	11.94	6.43	1.69	-3.63	8.27	3.71	6.36	3.02	1.03	1.56	2.98	1.52	1.89	1.10	.87	-1.59	2.69	1.61	3.18	-.85	2.25	-2.28	7.52	2.34	49.62	6.62	
MAKAHUENA POINT 940.1	9.65		2.71		7.02		3.16		1.16		3.35		2.38		.97		2.44		1.78		1.71		5.96		42.27		
MAKAHELI 965	10.86	6.65	2.41	-2.93	7.01	1.05	4.48	3.75	-.25	-.55	1.18	.18	1.53	-.08	1.69	-.54	1.84	-.24	2.77	-.52	7.73	1.44	11.31	7.91	37.51	14.58	
MAKA 1026	9.46		2.18	-.63	6.01	1.36	2.64	1.39	.33	-.57	1.58	.94	1.18	-.38	1.62	-.57	1.86	-.07	1.75	-.30	3.09	-.00	2.55	4.59	1.29	28.00	5.95
MOHIMI UPR CROSS 1083	4.31		1.65		18.40		17.66		2.08		2.01		3.53		2.79		1.94		3.57		3.09		8.70		108.58		
MOLDAKA 1145	6.03	-.88	5.64	-.06	8.21	1.73	5.79	1.68	1.57	1.78	2.32	.61	1.44	-.90	1.36	-1.69	2.15	-.03	1.85	-2.77	3.93	-1.08	11.00	5.79	51.33	.62	
MOUNT WATALEALE 1047	30.73		12.81		49.69		90.07		22.17		15.27		16.65		10.85		28.70		E23.54		E37.08		E59.54		E397.10		
NIU RIDGE 1035	10.45		2.76		4.28		3.21		.87		1.27		.13		1.81		2.47		4.14		.34		5.97		37.70		
N. PRINCE DITCH 1051	22.74		13.42		26.12		44.58		14.94		7.87		8.46		8.50		14.49		13.32		18.43		22.59		215.36		
PK WAINIHA 1115	13.96	3.73	6.92	4.73	12.36	2.09	34.05	21.78	3.69	5.17	2.15	3.83	4.71	5.37	3.26	7.39	4.00	2.07	3.31	-4.93	4.75	5.22	8.88	5.21	101.54	20.80	
PRINCEVILLE RANCH 1117	9.15	1.82	4.94	-2.44	13.88	4.30	27.32	20.54	2.16	4.68	1.87	3.15	E 4.11	-2.06	4.25	3.07	3.99	-.83	4.11	-2.19	4.01	-3.84	E10.13	.93E	89.92	4.83	
PUEHU RIDGE 1040	13.44		2.56		5.94		6.92		1.49		.76		.18		3.50		2.18		3.11		.23		6.76		47.07		
PUEHU 1033	11.94		3.35		3.54		12.52		2.60		3.54		2.23		4.66		4.10		3.12		5.79		10.25		73.15		
RESERVOIR 6 1004	12.92	5.48	4.28	-2.92	11.23	4.22	13.70	8.62	3.95	4.03	2.37	1.37	3.37	1.97	4.39	2.56	6.01	1.26	3.86	2.21	5.41	1.34	12.41	4.39	85.56	12.71	
WAHIAHA 930	9.74	4.71	3.55	-.71	5.53	2.02	9.15	7.23	1.29	-.21	1.70	-.38	1.30	-.39	1.62	-.90	1.64	-.07	2.11	-.91	1.98	1.11	7.79	3.30	47.40	13.35	
WAHIAHA MOUNTAIN 990	20.25	6.96	8.50	-3.83	20.13	7.12	31.25	20.01	6.75	4.08	5.75	5.93	7.25	6.73	5.00	-10.67	10.25	-.54	9.13	-2.58	11.00	-1.80	27.50	13.38	162.76	11.71	
WAIAHI LOWEP 1054	14.24		6.64		13.85		24.88		6.01		3.48		5.19		5.78		7.90		7.59		8.80		19.50		123.86		
WAIAHI UPPER 1052	14.33		7.85		17.05		27.02		10.13		4.42		7.36		6.44		10.54		9.35		11.29		19.45		145.23		
WAIAHI 943	8.34	4.42	1.47	-1.19	3.45	1.12	3.35	2.23	-.10	-.74	1.09	.59	1.33	-.40	1.44	-.95	1.94	1.22	2.26	-.31	1.09	1.52	6.09	2.81	28.45	7.90	
WAIAHI KAI 1065	10.71		7.57		7.89		7.57		3.38		3.49		2.20		2.64		3.28		3.98		3.31		4.78		57.18		
WAIMEA 947	9.93	6.25	1.19	-2.21	3.84	1.48	4.59	3.46	-.29	-.56	.70	-.42	1.08	-.39	1.41	-.63	1.63	-.03	2.38	-.67	1.08	1.66	7.25	3.90	31.37	10.50	
WEST LAHAI 931	10.64	5.14	2.70	-2.01	6.63	2.23	9.57	7.05	1.19	-.84	1.70	-.12	1.79	-.64	2.41	-.86	4.10	1.63	3.70	-.01	3.28	-1.02	8.34	3.04	56.05	13.61	
ISLAND	12.36		4.79		9.85		14.59		3.00		2.78		2.47		2.97		3.95										

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

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TABLE 2 - CONTINUED

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL			
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE		
WAILIEE 896.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
WAILOA 847	A 21.82	17.72	1.70	3.11	4.82	1.32	3.34	1.62	-	-26.8	8.4	2.86	2.14	1.19	1.70	1.27	1.87	3.95	8.45									
WAIANAE 798.2	A 11.45	7.06	1.97	1.16	1.94	.37	2.08	.90	-	-29.9	.32	3.53	3.18	1.15	.54	1.25	.44	1.45	1.24	.65	1.70	6.31	2.37	45.25	17.41			
WAIANAE MAUKA 803	A 4.39	4.39	2.28	5.37	11.72	3.80						7.24	4.12	1.44	2.38	1.97	2.39	3.95	.68	4.02	1.30	1.82	2.97	6.45	4.58			
WAIANA 836	A 21.70	10.06	3.92	9.02	14.71	.87	22.46	11.06	11.84	.00		5.50	5.28	4.87	8.43	4.67	9.74	7.73	2.24	10.0	11.22	16.04	3.94	15.68	.19	129.18	19.61	
WAIKANE 885	A 19.46	7.59	10.31	3.21	11.75	3.49	28.80	14.80	4.62	7.24	5.43	2.35	3.59	6.51	6.81	6.51	5.16	9.07	1.47	6.17	5.78	7.90	3.26	11.82	2.42	25.69	18.80	
WAIKIKI 717.2	A 7.90		2.76		3.33		2.66		.15				2.84	.10		.30		1.79		1.37		7.92		1.28				
WAIKIHALO EXP FARM	A 12.26		2.54		2.65		3.17		1.98				4.19	.46		1.91		2.30		2.53		1.70		4.22				
WAIKEA 892	A 18.11	10.73	2.68	3.28	5.02	.92	6.00	3.35	1.19	1.47	2.70	.16	1.23	1.78	1.56	1.88	1.64	.28	1.24	2.67	3.09	1.08	6.32	.80	49.32	2.30		
WAIKAPU 750	A 12.84	8.68	2.45	1.24	4.56	1.32	6.24	3.30	1.66	1.47	2.92	1.72	1.10	.57	.46	.77	2.47	1.39	2.72	.38	1.05	1.91	2.40	1.14	37.25	11.12		
WILHELMINA RISE 721	R 8.52	3.89	2.14	1.88	6.40	1.88	5.22	2.02	.90	1.54	5.00	3.54	.62	1.24	.76	1.49	3.58	1.92	1.36	1.94	3.68	.64	3.94	1.34	42.10	5.46		
ISLAND	15.68		3.36		7.28		8.19		3.01		4.07		1.40		1.76		3.54		2.94		4.28							
ISLAND OF MOLOKAI																												
KALAUAPAPA 563	A 10.20		.25		3.45		6.25		.92		1.04		.11		.27		.26		.54		1.43		2.19		.35		27.15	
KANUNAKAI 536	A 9.47		2.50		2.70		.75		.00		.00		.00		.00		.00		.03		.03		.77		.00		16.83	
KONELELE PENS 551	A 8.75		6.25		2.55		1.90		.00		.00		.00		.00		.00		.00		.00		.00		.00		20.70	
KUALAPUU 534	A 11.66		2.60	1.04	3.21	1.35	2.46	.60	-26.0	1.32	1.26	.59	.24	.64	.34	.88	.40	.38	.25	2.17	1.58	1.52	2.28	3.98	24.54	5.77		
KAPULEHU 542	A 19.02	9.16	2.60	2.52	6.22	1.40	5.33	2.28	2.05	.66	1.40	.79	.25	1.99	.76	2.14	3.43	.83	1.46	1.95	2.76	.89	2.19	2.02	40.55	1.71		
MAUNALOA 511	A 10.51	6.24	-	-	4.85	1.08	1.31	1.00	.67	.60	.72	.03	.04	1.22	.78	.42	1.89	.78	.21	2.16	1.08	1.69	1.87	1.63	-	-		
MOLOKAI AP 524	A 11.51		2.84		2.62		2.35		.33		.33		.02		.20		.10		.42		1.06		.56		22.14			
PUUOHUKU RANCH 542.1	A 17.37		2.82				9.61		1.40		.83		.72		.25		.85		.22		1.52		.70		45.02			
WAIKOU 540	A 17.37		1.81		9.18		9.61		1.40		.83		.72		.25		.85		.22		1.52		.70		45.02			
ISLAND	11.68		2.34		4.08		2.86		.82		.93		.31		.52		1.46		.59		1.62		1.23		28.44			
ISLAND OF LANAI																												
KANEPUU 690	A 13.01		1.69		2.71		.36		.39		.39		.29		1.89		.26		1.85		.15		.89		24.49			
KANUNAKAI HARBOR 658	A 10.24		.84		.42		.38		.99		.99		.08		.01		.60		1.89		.25		.16		15.86			
LANAI CITY 672	A 16.90	12.28	1.18	2.23	4.30	.03	1.85	2.10	2.51	.10	.13	1.29	.09	1.33	1.33	.79	.99	1.50	.77	1.28	1.67	.42	2.44	1.40	2.32	31.94	3.05	
LANIALE 684	A 15.60		1.18		5.30		1.85		1.65		.05		.12		1.03		2.02		1.99		.79		1.59		33.17			
MAHANA 694	A 19.47		.75		2.39		.38		.01		.18		.12		.34		.11		2.74		.02		1.38		26.80			
MALAEUA 676	A 13.72		.05		2.30		.48		.89		.03		.35		.05		1.32		.65		.13		.46		20.70			
WAIKAEKUA 685	A 15.16		.72		3.12		1.24		2.64		.03		.37		.27		2.25		.55		.14		1.08		27.27			
ISLAND	16.90		1.30		4.30		.82		2.51		.13		.39		.79		1.50		1.28		.42		1.40		31.94			
ISLAND OF MAUI																												
AUWAHI-252	A 19.31		2.30		4.13		4.66		.00		.54		.00		.70		1.12		.20		1.16		2.55		36.67			
HALEKALA B E S 434	A 14.76		3.50	5.62	6.31	2.90	11.15	3.19	2.10	2.30	.46	2.32	2.14	1.99	1.54	3.14	3.14	.84	2.20	2.09	1.81	2.43	4.57	5.89	95.68	17.29		
HALEKALA RANCH 432	A 14.64	8.81	3.00	3.48	2.51	3.27	5.76	1.14	.31	1.53E	.10	.80	E 2.42	1.10	.80	1.37	.53	.79	.53	.37	2.30	.93	2.51	1.16	5.47E	30.79	12.41	
HALEKALA RS 338	A 33.89		4.66		5.30		9.48		.85		.00		.94		.95		1.87		1.15		1.65		3.54		64.28			
HALEKALA SUMMIT 338.4	A 28.23		1.58		5.31		11.34		.65		.00		.24		.30		1.72		.57		3.32		2.95		56.21			
HALIIMALE 423	A 17.75		1.46		4.25		4.12		.97		.31		1.05		.67		1.04		.85		1.48		1.81		35.76			
HAKAIAPOKO 485	A 17.85	13.08	1.71	2.99	5.11	.43	8.96	4.07	2.43	.85	.97	1.80	1.83	1.63	1.42	2.28	2.33	.19	1.82	1.65	4.19	.16	2.25	3.84	50.87	2.03		
HANA 354	A 25.26		3.05		8.16		8.10		2.36		1.47		1.70		.61		3.42		2.28		7.07		2.83		66.57			
HANA AIRPORT 355	A 27.38		1.90		7.98		8.34		3.23		1.71		1.71		.41		3.42		2.28		7.07		2.83		66.57			
HANAHULI 281	A 24.90		1.75		9.94		10.63		4.16		1.96		2.41		.98		3.34		1.83		3.62		3.28		68.80			
HOLUA CABIN 259.5	A 47.45		7.30		5.43		12.89		.75		.64		.38		.54		1.50		1.92		3.34		6.26		87.60			
HONOKAHO 40	A 11.40		2.02		15.00		14.80		5.72		1.07		4.00		1.40		4.20		5.00		7.86		3.44		78.14			
HONOKOHIA 493	A 13.91	9.45	1.76	1.98	4.06	.02	4.44	1.26	1.97	.29	.55	1.13	1.85	1.53	.86	1.72	1.99	.31	1.41	1.27	2.23	1.09	1.79	2.86	35.42	.87		
HONOHANU GULCH 341	A 26.40		4.00		10.60		15.00		3.00		.00		1.60		1.60		4.20		2.00		4.40		4.70		77.00			
KANAPALI AIRPORT	A 10.24		1.08		1.92		.72		.12		.41		.22		.13		.37		.30		.91		1.74		17.44			
KAHUNA INTAKE 374	A 20.38	11.03	2.17	7.75	3.57	8.01	2.10	7.03	2.85	5.46	1.60	5.55	2.30	6.44	2.36	5.31	2.84	1.77	2.75	3.09	2.50	5.25	2.00	11.18	47.42	55.83		
KAHULUI WSD 398 AP	R 13.66	10.52	.78	1.76	2.92	.70	1.13	.31	.10	.59	.21	.03	.09	.34	.54	.19	.25	.00	.07	.80	.24	1.28	.14	2.56	20.13	3.80		
KAILIILI 436	A 52.38	41.56	4.18	9.20	15.16	.04	15.44	.74	4.69	5.59	1.38																	

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

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TABLE 2 CONTINUED

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL		
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
WAILOPI RANCH 256	15.28	11.31	1.37	-2.03	3.53	.53	9.78	7.86	1.82	1.24	.00	-.22	.00	-.33	.00	-.94	1.50	.55	.54	-1.10	2.23	-.13	4.50	1.13	40.55	17.87	
ISLAND	18.55		1.98		6.94		9.86		2.35		1.06		1.88		1.13		2.94		2.29		3.96		3.19		56.13		
ISLAND OF HAWAII																											
AHUA UMI 75	18.00	15.93	1.00	-1.17	1.00	-1.99	4.30	2.02	.30	-2.16	.80	-.92	.89	-.98	.60	-2.39	1.30	-.32	.20	-1.69	1.00	.60	.60	.68	29.99	5.05	
AKIHI 182.1	25.00	14.38	4.80	-6.03	11.15	-4.84	30.18	13.25	1.68	-11.73	1.45	-6.72	.78	-11.88	13.71	1.40	5.09	-1.24	8.85	-1.75	5.76	-4.55	5.76	-8.13	113.21	-26.42	
CITY OF REFUGE 27.4	13.88		.32		2.10		1.12		1.11		1.80		.00		1.12		3.78		2.28		2.75		1.82		33.43		
EAST HONOKANE 183.2	11.85	-1.28	2.10	-10.83	18.00	-.00	10.93	7.61	2.95	-11.32	.00	-6.70	12.23	4.03	4.00	-12.39	3.62	-4.98	5.90	-3.36	4.22	-7.76	13.78	4.28	95.58	-75.74	
HAIHA 214	8.09	3.03	1.56	5.36	9.42	8.60	5.58	2.09	.89	-4.03	.41	-1.51	2.99	-.47	-7.23	3.92	.61	-1.68	1.90	-3.35	3.22	-2.65	3.99	-3.71	39.38	-24.68	
HAKALELU 142	13.73	3.08	6.17	7.41	10.96	-3.93	21.07	8.52	4.48	-5.37	2.55	-4.28	4.77	-5.06	4.73	-9.05	6.84	-1.08	8.23	-3.02	18.14	5.80	22.38	7.76	122.05	-14.04	
HALENAUMU 52	23.00		2.90		3.92		8.80		2.30		.23		1.56		1.49		2.05		2.03		1.15		9.79		69.22		
HALEPULU 117	7.92	4.20	1.44	4.30	5.75	-1.21	2.39	1.68	.24	-1.95	.00	-1.03	2.35	-.72	1.30	-3.47	.78	-.60	.90	-2.61	1.37	-1.88	2.51	2.84	26.05	-16.91	
HALEPOHAKU 111	7.62		1.02		1.98		3.33		.36		.01		2.12		.66		.76		.83		.82		4.70		29.21		
HAWAII VOLCANO NP HQ 54	29.09	16.87	4.85	-5.40	13.38	-1.40	12.79	4.39	6.77	-.70	1.32	-3.21	6.25	1.13	1.86	-6.73	4.63	-4.66	5.27	-1.61	4.88	-5.30	22.96	12.82	114.05	15.60	
HAWI 168	18.79	14.09	1.53	-2.81	6.11	-.69	2.52	2.52	1.74	-1.82	1.43	-1.53	3.06	-.87	1.28	-2.91	1.51	-.78	1.92	-1.69	3.25	-.77	1.95	-3.97	45.09	-4.67	
HILD COUNTRY CLUB 86.6	10.20		11.09		23.83		832.96		172.69		3.89		114.44		3.27		8.53		11.88		4.51		32.19		17.01	140.00	-4.07
HILO HSD 87 AP	13.47	1.65	5.31	-7.53	12.04	-2.68	27.82	15.93	6.49	-2.84	2.79	-4.00	10.13	5.69	2.64	-8.79	8.53	-.13	7.28	-3.52	17.88	-4.51	32.19	17.01	140.00	-4.07	
HOUALOUA 70	22.40	18.09	1.59	-2.72	5.00	-1.24	6.20	-2.97	5.50	-4.50	4.40	-5.31	16.04	7.64	4.40	-3.45	9.60	-1.49	3.20	-2.67	2.90	-1.64	4.80	-3.34	81.83	3.08	
HOUALOUA BEACH 68	10.20	13.93	.79	-1.07	.60	-1.81	2.08	-.23	2.88	-.23	.88	-2.45	2.94	-.40	1.90	-.90	5.39	2.68	1.4	-2.34	3.47	1.70	2.22	-1.34	37.61	8.77	
HONAUAU 27	15.40		1.50		4.11		4.26		6.26		3.43		7.43		3.69		10.20		5.12		5.33		5.13		71.86		
HONOKAUA 137	12.83	1.08	5.01	-10.04	12.14	-5.83	22.49	7.00	4.28	-7.45	2.08	-5.64	5.65	-6.32	2.59	-11.15	5.80	-3.41	8.24	-4.63	16.97	-3.26	22.18	4.99	121.41	-38.14	
HONOKANE 181.1	27.66	10.31	7.00	-5.53	17.16	-.08	13.36	3.29	2.14	-9.25	2.58	-6.42	5.24	-7.44	6.50	-5.92	.89	-4.82	1.46	-7.05	12.02	-1.39	2.52	-13.88	98.53	-46.02	
HONOKAUA MAUKA 138	16.31	-.25	7.79	-10.53	21.97	-.85	32.00	-13.02	10.71	-4.54	5.45	-5.04	10.83	-4.17	4.36	-13.29	7.38	-4.35	10.82	-4.89	33.14	15.55	41.36	19.76	202.12	2.62	
HONOUAUA 71	20.10	16.33	1.16	-2.27	2.20	-1.90	3.05	-.08	2.25	-2.38	2.80	-1.50	3.08	-1.01	1.80	-1.54	3.04	-.30	1.04	-1.18	1.60	-.04	.68	-.87	42.58	3.40	
HUALALAI 72	3.24	1.48	6.85	6.80	7.44	-1.31	2.36	-.97	.80	-1.06	.68	-.73	.78	-.73	.44	-.98	1.20	-.55	.08	-.86	.06	.84	.76	.14	19.79	2.63	
HUEMUE 92.1	21.50	17.37	.87	-1.84	1.55	-2.17	2.80	-.21	3.50	-1.11	1.22	-3.28	2.13	-.37	1.39	-1.33	1.07	-2.16	.73	-2.86	2.54	-.39	1.93	-1.43	41.28	1.22	
KAAHA 141 12	25.08		3.10		5.71		6.12		3.37		2.38		2.68		3.50		7.65		2.00		5.32		3.76		60.58		
KAAHALA 29	17.53	13.80	1.28	-2.14	1.88	-3.02	6.78	-.82	1.85	-4.52	1.62	-5.07	3.08	-.75	3.08	-5.51	5.68	-.65	1.27	-4.55	5.04	1.64	1.72	-1.11	55.02	9.24	
KAINALIU 73.2	19.03	15.07	.90	-2.49	1.95	-3.33	6.31	-.65	2.97	-4.73	2.15	-5.80	8.51	-.40	2.56	-5.13	8.38	-.78	3.08	-3.12	3.86	-.41	3.32	-.31	63.02	8.24	
KALAPANA RD 1 67.8	34.14		4.27		7.41		20.60		3.08		2.36		3.29		1.67		5.21		4.08		13.46		23.06		122.63		
KANUELA 192.2	12.52	8.21	1.57	-2.65	2.11	-2.16	1.76	-2.13	1.48	-2.28	1.24	-.54	1.79	-.85	.54	-2.54	.34	-.96	.95	-1.34	2.85	1.88	2.66	-2.03	28.81	-9.09	
KAPAPALA RANCH 36	22.41	13.40	3.95	-3.58	3.86	-3.48	6.95	1.85	4.70	-.69	4.4	-1.66	3.29	1.14	.09	-4.29	4.06	-.03	3.94	-1.66	12.90	6.87	7.22	2.55	73.81	11.60	
KAPHO LANDING 93.5	30.85		4.91		3.85		31.20		4.35		3.26		4.92		1.75		4.43		6.83		14.21		17.90		128.46		
KAWAUNU LOWER 193	13.98	.79	1.40	-13.27	13.86	-6.18	18.33	-2.65	1.31	-16.25	6.96	-3.51	11.48	-4.17	3.89	-13.12	5.24	-2.49	8.17	-3.06	6.21	-5.23	8.13	-10.24	99.02	-79.38	
KEAU 92	14.62	2.06	8.83	-4.60	12.80	-2.72	30.24	17.82	6.02	-11.37	2.99	-.87	5.54	-4.60	3.02	-8.73	5.62	-3.43	8.27	-4.11	19.08	5.15	32.56	16.39	149.74	4.59	
KEALAKUA 26.2	17.13		2.38		2.02		6.12		2.37		2.38		7.50		3.50		7.65		2.00		5.32		7.30		60.58		
KEHENA 181.2	10.21	-.11	2.49	-7.57	13.00	-.00	6.48	-6.14	3.00	-6.41	8.87	-1.68	10.73	1.18	3.65	-5.54	2.99	-2.82	3.89	-2.26	2.10	-6.19	8.00	4.96	71.71	-41.44	
KIDLAKAA A Z F A	26.50	19.11	6.80	1.32	7.00	-1.00	7.50	2.33	3.00	-2.04	5.00	-.18	4.50	-.98	1.20	-5.37	5.00	-.92	3.00	-2.27	10.30	10.72	7.96	3.49	96.61	26.23	
KIPA 89.2	11.57		7.92		25.59		26.43		12.93		4.63		13.17		4.34		9.69		9.33		35.83		46.77		208.20		
KOHALA 179.1	15.92	11.15	1.03	-3.45	5.44	-.62	7.87	-.77	4.00	-.88	1.56	-.55	4.40	-.40	3.00	-.33	3.13	-.33	8.20	-.42	6.23		4.23		36.70		
KOHALA MAULILI 176	16.51	9.58	1.15	-5.81	10.97	-2.19	3.60	-5.89	2.06	-4.67	1.50	-3.68	4.36	-2.44	1.59	-5.35	2.38	-1.51	2.94	-3.14	5.65	-.79	2.60	-6.67	55.31	-28.20	
KOHALA MISSIUN 175.1	16.92	11.46	1.14	-4.00	8.49	-1.98	3.27	-3.51	1.80	-2.95	1.33	-2.35	3.73	-1.47	1.18	-4.49	2.68	-.26	2.31	-2.25	3.71	-1.31	2.93	-4.32	49.49	-13.47	
KOIHAE LOWER 196	4.01	1.90	.91	-9.43	9.49	-3.34	12.26	-1.04	1.41	-9.89	3.53	-3.13	8.47	-1.44	2.34	-8.74	2.36	-1.97	4.80	-2.19	2.90	-4.00	5.18	-6.65	63.46	-49.94	
KONA (KAILUA) 68.3	11.14		.40		1.70		2.06		1.47		.53		3.02		.86		3.42		.07		2.19		.42		27.28		
KONA VILLAGE 93.8	15.32		1.30		1.89		.40		.10		.18		.22		.19		.60		.00		.08		.00		20.26		
KUKAIAU 222	8.13	.98	2.60	-9.05	17.26	2.65	10.37	-3.05	1.63	-6.98	.88	-2.93	4.21	-2.17	1.54	-6.60	.90	-2.72	1.93	-5.92	7.36	-2.11	7.99	-5.23	64.40	-43.63	
KUKIHALE E MIC 199	11.16	5.03	1.28	-6.07	10.14	-.11	7.18	-2.05	9.5	-5.7																	

TEMPERATURE EXTREMES

Table 3

HAWAII
1971

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
* * *					* * *				
ISLAND OF KAUAI					ISLAND OF MAUI				
KANALOHULUHULU 1075	78	9-22+	35	1-30	HALEAKALA RS 338	75	3-25	31	1-30+
KILAUEA POINT 1133	94	9-19	57	1- 6	HALEAKALA SUMMIT 338.4	65	7-21+	-	-
LIHUE WSD 1020.1 AP	87	9-23+	53	1- 7	HANA AIRPORT 355	89	8-28	51	1- 8
MAKAHUENA POINT 940.1	90	8- 9	56	1- 6	KAANAPALI AIRPORT	88	8-16	55	1-26+
MANA 1026	92	9-10	55	1-16	KAHULUI WSD 398 AP	92	10-13+	52	1- 8
NIU RIDGE 1035	87	10-29	51	1-31	KAILUA 446	82	8-10+	55	1-23+
WAIHI LOWER 1054	88	7-28	45	1- 7	KEAWAKAPU BEACH 260.2	92	9- 6+	53	1-30+
* * *					KULA SANATORIUM 267	85	5-20	48	3-17+
ISLAND OF OAHU					LAHAINA 361	92	9-26	56	1- 7
EWA PLANTATION 741	88	9- 8+	52	1- 8	WAILUKU 386	89	12-27	52	12-31+
HONOLULU WSFD 703 AP	89	9- 7+	56	1- 7	* * *				
HONOLULU SUBSTA 704	85	9-18+	59	1- 7	ISLAND OF HAWAII				
KAHUKU 912	87	2-19	53	1- 8	HAINA 214	86	9-18	59	12-31+
KANEQHE MAUKA 781	89	8-13	56	1- 7	HAWAII VOLCNS NP HQ 54	75	11-25+	42	1- 2
LUALUALEI 804	91	9- 7	53	1- 7	HILU WSD 87 AP	91	8-14	54	3-18
MAKAPUU POINT 724	85	7-23	51	1- 8	KAINALIU 73.2	81	11-19+	55	1-21+
OPAEULA 870	90	8- 8+	52	1- 7	KAMUELA 192.2	81	11- 7	42	12-23+
PRI WAHIAWA 820.2	90	8- 6	50	1-11+	KEAAU 92	86	8-15+	58	1-22+
WAIALEE 896.3	-	-	-	-	KEALAKEKUA 26.2	82	8-31	53	2-23
WAIALUA 847	89	9-23+	52	1- 7	KOHALA MISSION 175.1	85	9-25+	58	1- 8+
WAIKIKI 717.2	90	9-17	53	1- 7	KONA (KAILUA) 68.3	88	11- 9+	60	1- 9
WAIMANALO EXP FARM	88	9-15+	55	1- 7	KULANI CAMP 79	82	5-13	33	1- 1
* * *					MAUNA LOA SLOPE OBS	63	6-22	19	1-22
ISLAND OF MOLOKAI					MOUNTAIN VIEW 91	82	9-16+	53	3-22+
MOLOKAI AP 524	87	9-19	57	1- 8+	NAALEHU 14	84	8-30+	58	1- 7+
* * *					OOKALA 223	86	9-19+	58	1-26+
ISLAND OF LANAI					OPIHIHALE 2 24.1	85	7-14+	52	1-21+
LANAI CITY 672	83	12-20	50	1- 8	PAHALA 21	-	-	55	12-22+
					PUAKO 95.1	90	8-17	58	1-21
					UPOLU POINT USCG 159.2	86	9-25+	56	12-12
					WAIMEA KOHALA	78	5-17	38	1- 3+

See Reference Notes Following Station Index

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII
1971

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
* * * ISLAND OF KAUAI														
LIHUE WSD 1020.1 AP	EVAP	4.978	6.118	6.868	7.918	10.098	10.128	11.25	10.888	9.858	8.378	6.61	6.228	99.24
	WIND	2993	3289	5512	5186	4273	43908	5363	4772	4593	4552	4992	5649	55564
	MAX	75.8	80.8	76.8	81.1	84.3	84.2	85.2	85.3	84.8	81.0	77.1	75.2	81.0
	MIN	56.6	60.7	61.4	62.4	62.1	62.8	63.7	63.7	63.5	62.3	60.8	59.5	61.6
* * * ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	3.868	5.05	6.64	6.75	8.44	8.87	9.86	10.53	7.75	7.718	5.23	5.028	85.71
	WIND	1231	701	1006	895	984	1191	1276	1272	979	951	876	924	12286
	MAX	77.6	85.7	84.4	86.8	88.7	89.8	91.3	92.2	89.5	88.4	83.0	80.1	86.5
	MIN	60.0	62.6	63.5	65.0	64.6	65.6	66.1	66.3	66.7	65.0	63.9	61.2	64.2

NAME	RELOCATION AND CHANGES OF EQUIPMENT	DATE
ISLAND OF KAUAI		
EKW #3 RESERVOIR 1094.1	EQUIPMENT MOVED 1000 FEET SE	APRIL 22, 1971
ILILIULA INTAKE 1050	EQUIPMENT MOVED 40 FEET N	AUGUST 1, 1970
PRINCEVILLE RANCH 1117	EQUIPMENT MOVED 25 FEET E	MARCH 12, 1971
ISLAND OF OAHU		
KAILUA FIRE STATION 791.3	EQUIPMENT MOVED 60 FEET W	DECEMBER 9, 1971
MOUNT KAALA #44	EQUIPMENT MOVED 225 FEET N	JUNE 30, 1971
PORTLOCK ROAD 724.4	EQUIPMENT MOVED 80 FEET S	JUNE 2, 1971
WAIKIKI 717.2	EQUIPMENT MOVED 375 FEET NNE	APRIL 1, 1971
WAIPAHU 750	EQUIPMENT MOVED 400 FEET NE	OCTOBER 1, 1971
ISLAND OF HAWAII		
HILO COUNTRY CLUB 86.6	EQUIPMENT MOVED 500 FEET N	JULY 22, 1971
KAMAOA 2 5	EQUIPMENT MOVED 175 FEET SW	APRIL 15, 1971
KAPAPALA RANCH 36	EQUIPMENT MOVED 30 FEET SE	JANUARY 14, 1971

See Reference Notes Following Station Index

STATION INDEX

HAWAII
1971

Station	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Years of record		Opened or closed during yr.	Refer to tables	Station	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Years of record		Opened or closed during yr.	Refer to tables				
								Temp.	Precip.											Temp.	Precip.						
ISLAND OF HAWAII																											
HANUKA 2	A	5134	03 KAU	3	19 07 155 30	1760		43				2	PEPEKEO MAKAI 144	A	8050	02 S HILO	2	19 51 155 05	1900		82			2			
MAUNA LKA SLOPE DR3		6196	05 HAWAII	4	19 32 155 35	11146	16	17			1 2 3		PITIKOUA 89	A	8051	02 S HILO	2	19 44 155 10	1730		67			2			
MIDDLE HOUAUNO 68.1	A	5208	04 N KOHALA	4	19 27 155 58	475		30					POHAKULOA 107	A	8053	02 HAWAII	2	19 45 155 32	6511		35			2 C			
MIDDLE PUN 147.1	A	6270	01 N KOHALA	4	20 06 155 50	1380		8					PUAKO 95.1	A	8186	05 KOHALA	5	19 59 155 50	5		10			1 2 3			
MOAUA 18	A	6407	03 KAU	3	19 11 155 30	600		53					PUU KIME 120	A	8393	01 HAWAII	1	19 54 155 24	7750		58			2			
MOUNTAIN VIEW 91	A	6552	02 PUNA	2	19 33 155 07	1530	35	72					PUU LAU 102.1	A	8432	05 HAWAII	5	19 50 155 36	7440		40			2			
NALAHOU 16	A	6588	03 KAU	3	19 04 155 35	673	18	85					PUU LEHUA 73	A	8460	04 N KOHALA	4	19 34 155 49	4880		49			2			
NAP. UPU 28	A	6697	04 S KOHALA	4	19 28 155 55	395		32					PUU MAHI 113	A	8513	01 HAWAII	1	19 55 155 26	6960		40			2			
NATIVE FOREST 38.6	A	6791	02 PUNA	2	19 19 155 08	1400		7					PUUKOHUHA 107	A	8548	06 N KOHALA	1	20 12 155 50	1800		44			MAR	2 C		
NAWII 179	Z	6896	01 N KOHALA	1	20 14 155 45	75		87		JAN			PUU OO 82	A	8550	02 S HILO	2	19 44 155 23	6340		7			2 C			
ODKALA 223		7131	02 N HILO	2	20 01 155 17	430	52	82					PUU WAAHAA 94.1	A	8555	05 N KOHALA	5	19 47 155 51	2520		69			2 C			
ORIHANA 2 24.1		7186	05 S KOHALA	5	19 16 155 53	1270	15	16					SAOOLE POAO 1.84	A	8590	02 S HILO	2	19 42 155 12	2340		24			2 C			
ORCHID LAND EST 91.5	A	7185	02 PUNA	2	19 34 155 00	445		10					SOUTH POINT CORRAL 3	A	8675	03 KAU	3	19 57 155 41	500		24			2 C			
PARAHOU 217		7204	01 HAWAII	1	20 05 155 26	415		83					UMIKOA 118	A	8780	01 HAWAII	1	19 59 155 23	3420		79			2 C			
PARAUO 221		7312	01 HAWAII	1	20 03 155 22	600		70					UPOLU POINT USCG 159.2	A	8830	01 N KOHALA	1	20 15 155 33	61		14			1 2 3			
PAHALA 21	A	7421	03 KAU	3	19 12 155 29	870	63	81					WAIKANDUUA 178.6	A	9350	01 N KOHALA	1	20 08 155 47	3930		20			2 C			
PAHOA 65	A	7457	02 PUNA	2	19 30 155 57	670		63					WAIHEA KUHALA	A	9554	05 S KOHALA	5	20 00 155 40	2665		16			17			
PAHOA 37	A	7643	03 KAU	3	19 22 155 28	5000		44																			
PAPAIOKI 144.1	A	7711	02 S HILO	2	19 47 155 06	200		74																			
PAPAIOKI MAHIKA 149.1	A	7721	02 S HILO	2	19 47 155 08	1270		47																			

DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological normals based on the period 1931-1960. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS: will be carried in the June and December issues of Climatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (date) or months
- * Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amounts carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Oaily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing, if average value is entered, less than 10 days record is missing See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above eod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the December issue of Climatological Data.
- Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.
- The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

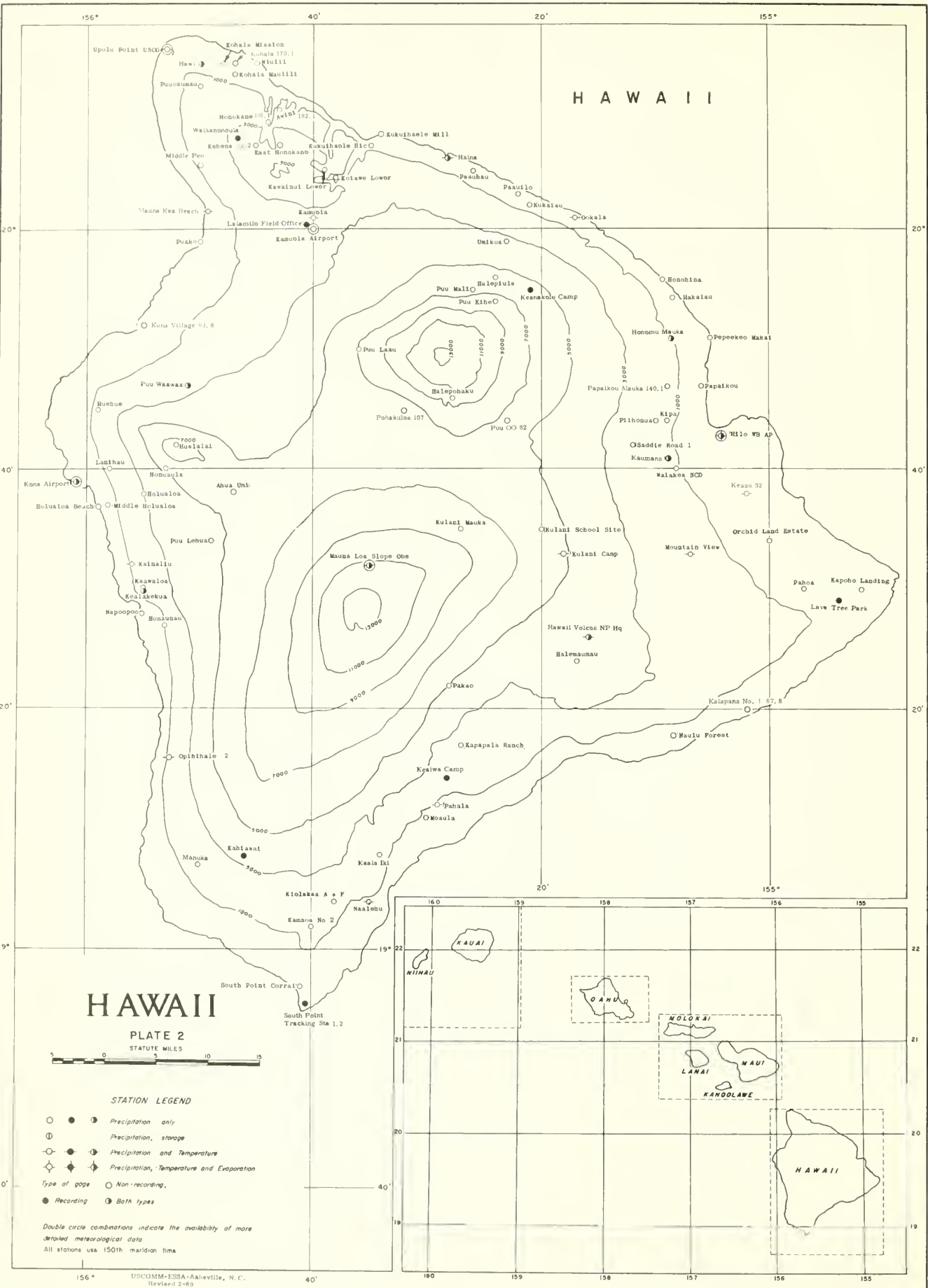
Information concerning the history of changes in location, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, for 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, obtained as indicated above, price 15 cents.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittances and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N.C. 5/15/72-990



156°

40'

20'

155°

HAWAII

20°

20°

40°

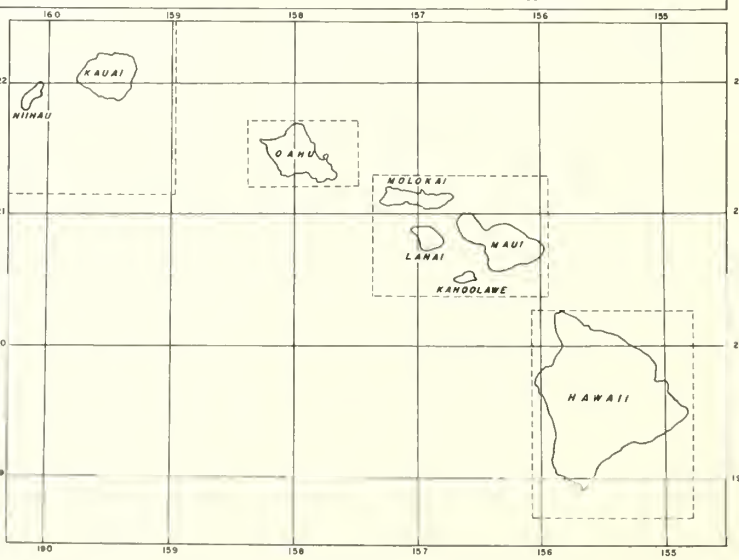
40°

20°

20°

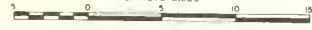
19°

19°



HAWAII

PLATE 2
STATUTE MILES



STATION LEGEND

- ● ● Precipitation only
 - ⊙ Precipitation, storage
 - ⊙ ● ● Precipitation and Temperature
 - ⊙ ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording,
● Recording ● Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time

156°

40'

USCOMM-ESSA-Waiverly, N. C.
Revised 2-60

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
JANUARY 1972

Continued

Station	Temperature											Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										31° or Above	31° or Below	31° or Below	0° or Below														
KEAOU 92	75.5	61.2	68.4	- 1.9	81	14	58	12+		0	0	0	0	14.84	2.28	6.10	25	.0	0		12	6	3				
KEALAKEKUA 26.2	74.6	59.7	67.2		78	21+	53	31		0	0	0	0	5.44		1.28	30	.0	0		10	5	1				
KONA (KAILUA) 68.3	80.9M	64.2M	72.6M		84	17+	60	31		0	0	0	0	2.71		1.19	25	.0	0				1				
KUKUIHAELE HIC 199														3.14	- 2.99	.92	28	.0	0		7	1	0				
KULANI CAMP 79	58.8	43.0	50.9		68	25	37	20+		0	0	0	0	8.45		2.80	25	.0	0		12	5	2				
PAHALA 21					80	26	55	30+		0	0	0	0	12.18	4.15	5.13	25	.0	0				0				
POHAKULDA 107														1.89				.0	0				0				
PUNAO 95.1					83	27+	58	31		0	0	0	0	1.08		.71	25	.0	0		3	1	0				
PUNAWA 94.1	80.3	63.7	72.0											3.35	.12	.83	17	.0	0		6	3	0				
UMIKOA 118														4.22	- 2.94	.80	28	.0	0		9	4	0				
WAIKOA SLO 88.2														14.13		3.97	22	.0	0		15	7	3				
ISLAND			65.8											6.79				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 3D AT WAILUKU 386, MAUI

LOWEST TEMPERATURE: 24° ON THE 8TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 23.71 INCHES AT PAHOA 65, HAWAII

LEAST TOTAL PRECIPITATION: .35 INCH AT KAHULUI WSO 398 AP, MAUI

GREATEST ONE-DAY PRECIPITATION: 8.71 INCHES ON THE 25TH AT PAHOA 65, HAWAII

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The month's most significant weather event was the band of showers that spread southward through the island chain from a low pressure area to the north and brought their first substantial rains in many months to some of the dry fields and pastures of the central and southern islands.

Otherwise, the winter remained mild and un-spectacular. Until mid-January, atmospheric pressure continued higher than normal over the Central Pacific, shunting away from the islands the cold fronts and other storms migrating eastward across the Pacific to the north. From the middle of the month on, however, the high pressure belt weakened and shifted southward, permitting fronts and storm tracks to move nearer the State.

As the month opened, large portions of the central and southern islands remained in the grip of a prolonged dry spell, which had browned pastures, depleted reservoirs, and adversely affected cattle. Many areas had had no appreciable rain for 8 months or more. At Ulupalakua Ranch, in Maui's Kula area, rainfall from May through December 1971 totalled 6.58 inches, only 35 percent of the average for that period, and was below its monthly mean in each of the 8 months. Molokai's Keonelele Pens had had no rain at all since May 1971, except for a little in December. On January 14, the Mayor of Maui County declared pasturelands in West Maui and on Haleakala's western slopes from Omaopio to Ulupalakua, where the drought had severely affected 12,500 head of cattle, a disaster area. However, in only little more than a week, rains were to bring some relief to the region.

On the 22d, rain from a broad band of showers and isolated thunderstorms associated with a weak cold front northwest of Kauai began over northern and eastern Kauai and windward Oahu. The formation of a low pressure center on the front provided the impetus for the latter to strengthen and advance through the island chain, while the development of low pressure aloft helped intensify the rainfall. After a brief respite, steady rain resumed on Kauai and Oahu and spread southward into Maui, Molokai, Lanai, and northern Hawaii Island.

Rainfall accumulations were not exceptional by Hawaiian standards, with peak 1-day totals of about 10 inches and 2-day totals near 20 inches (see Table I for a selection of stations). Intensities were also relatively light, so that no serious flash flooding or water damage appears to have occurred.

However, a number of minor flooding incidents were reported. By early on the 23d, the Wailua River, in eastern Kauai, had overtopped its banks and large rocks were observed on roads in the area. In southwestern Kauai, streets were flooded in Waimea town while Koloa, in the southern part of that island, reported mud-slides.

On Oahu, on the 22d, a small stream in Ahuimanu (in the Kaneohe area) and Waimalu Stream in Pearl City overflowed and Lake Wilson in Wahtawa rose 2-1/2 feet. The following day, Kaelepulu Stream in Kailua, topped its banks, while over 50 people in Ewa (southwestern Oahu) were evacuated when Honouliuli Stream flowed over its banks at about 5 p.m. and washed into a few homes. In the Honolulu area, poorly drained roads in Waikiki and elsewhere flooded, water entered a home in Hawaii Kai after a drainage ditch overflowed, the Ala Wai Canal almost topped its banks and power outages occurred in several areas. Police received reports of water seeping into about 20 homes, chiefly in southeastern Oahu.

On Maui, except for minor flooding of Kahikiki Highway between Wailuku and Waihee, the steady rain was most welcome. The 11-million gallon reservoir at Olinda and the two 15-million gallon basins at Waikamoi were filled and the dry pastures moistened, although more rain would be needed to green the fields.

From the 27th through the 30th, high waves from a storm 900 miles northeast of the islands generated surf which occasionally reached heights of 20 feet along the northern shores of Kauai, Oahu, and Maui. During this period four drownings occurred, two of them attributable at least in part to the high waves. On the morning of the 29th, a man picking opihi (a small shellfish) on the rocks at Wahiawa, Kauai, was thrown into the sea by a wave and drowned. On the afternoon of the same day, two men drowned in attempting to swim to an anchored tanker about 2 miles away after rough seas capsized a 15-foot fishing boat 5 miles off Ewa Beach, Oahu. The next afternoon, at Kua Bay in North Kona, Hawaii Island, an opihi picker, attempting to swim to a waiting boat about 100 yards off the rocky shore, disappeared in the rough surf.

On the morning of the 29th, Mauna Loa and Mauna Kea were observed to be blanketed with fresh snow down to the 10,500-foot level, and on the last day of the month, cold arctic air streaming southward around the western periphery of the storm described above brought the islands their

HAWAII - JANUARY 1972

SPECIAL WEATHER SUMMARY - Continued

coldest weather of the present winter, dropping minimum temperatures at Honolulu International Airport to 53° and at Kahului Airport to 50°, compared to their record lows of 52° and 48°, respectively.

Disappointingly, January's rains appear, with few exceptions, to have been least helpful where they were most needed. Thus, while most of Kauai and Oahu had near or above their January means, Maui remained dry nearly everywhere, with only a scattering of gages reporting above their monthly averages.

In fact, Maui's central valley, the western slopes

of Haleakala, including the Kula area, and southwestern West Maui, had well under half, and in places less than one-fourth, their average January rainfall.

Lanai and Molokai, which had also been rainfall-deficient for some time, fared somewhat better, but even there monthly totals ran below normal in most areas.

On Hawaii Island, the northeastern slopes continued dry. Southward to the Hilo coast most gages reported less than their January means, with some in Kohala and Hamakua showing less than half their averages for the month.

TABLE 1

Rainfall at Selected Stations, January 22-25, 1972

<u>Location</u>	<u>Total Amount (Inches)</u>	<u>Time Began</u>	<u>Time Ended</u>	<u>Peak 1-Hour Intensity (Inches)</u>
<u>KAUAI</u>				
Kilauea	2.60	22: 1 a.m.	22: 10 a.m.	1.15
Koloa	6.20	22: 9 p.m.	23: 6 p.m.	1.35
<u>OAHU</u>				
Honolulu Substn (Federal Bldg.)	5.44	23: 2:30 a.m.	23: 11 p.m.	0.83
Maunawili	9.50	23: 3 a.m.	24: 6 p.m.	0.85
PRI Wahiawa	7.65	23: 3 a.m.	24: 2 a.m.	1.25
Waiahole	5.20	21: Midnight	22: 1:30 p.m.	1.90
Waimanalo	10.30	23: 2 a.m.	24: 2 a.m.	2.00
Wilson Tunnel	19.11	21: Midnight	23: Midnight	--
<u>MOLOKAI</u>				
Maunaloa	3.85	23: 4 a.m.	24: 4 a.m.	1.00
<u>LANAI</u>				
Kanepuu	3.75	23: 12 noon	24: 6 a.m.	1.45
<u>MAUI</u>				
Hana	2.00	24: 6 a.m.	24: 2 p.m.	0.60
Iao Needle	7.20	23: 11 p.m.	24: 12 Noon	--
<u>HAWAII</u>				
Lava Tree Park	11.00	23: 6 p.m.	25: 8 a.m.	0.85

Saul Price
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National Weather Service Office
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Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
JANUARY 1972

Continued

Station	Elev ft	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KALAPU 534	A	3.09					.03	T									.04								1.96	.14		.10	.71			.11
MAPULEW 542	A	5.12		.03		.05	.82	.14	.05	.07	.16	.02				.04	.04	.05				.05		3.57	.05		.02					
MAUNALO 511	A	4.83		.54												.12	T							4.00	.09		.09	.07				
MOLOKAI AP 524	A	3.06																						.16	2.38	.12	.03	.23	.02	T		
POUDHOKU RANCH 542.1	A	7.54			.02		.14	.30	.31	.10		.02			.10	.51	.01	.01						.05	5.14		.41	.20	.11	.05	.06	
WAIKOLU 540	A	4.55																								4.55						
ISLAND OF LANAI																																
KANEPUU 690	A	3.34					.02														.09											
KAUAIAPAU HARBOR 658	A	1.71																				.09										
LANAI CITY 672	A	4.93		.46			.10					.02						.12							1.23	.36						
LANAIHALE 684	A	2.59																							2.89	1.20						
MAHANA 694	A	3.53					.52														.05						2.96					
MALAUFA 676	A	4.41					.06															.45							3.90			
WAIKAPUUA 685	A	6.10													.67																	
ISLAND OF MAUI																																
AUWAHI-252	A	5.92		.35												1.25			.10				.10						3.95			
HALEKALUA B E S 434	A	1.79	.12	.01			.06	.06	.03							.05	.07						.05	.11	.13		.19	.78	.10	.03		
HALEKALUA RANCH 432	A	1.24	.08													.14									.17	.42						
HALEKALUA RS 338	A	1.92																														
HALEKALUA SUMMIT 338.4	A	3.38		1.90	.03	T		.02	.04	.10		T	T	T									1.50		.15							
HALIHAILE 423	A	.94		.02			.16	.04																	.06	.08		.14	.35			.03
HANAKAPOHO 485	A	1.92			.08		.05	.07	.04							.01					.09	.13	.15	.06	.03		.23	.01	.01		.05	
HANA 354	A	7.51		.55	.08	.35	.23	.22		.06	.10	.10	.19	.41	.14	.02	.06	1.26				.20	.53	.95	2.35	.09	.23	.05		.09		
HANA AIRPORT 355	A	6.25	.06	.08	.06	.03	.07	.10	.13	.12	.10	.19	.41	.14	.02	1.75	.06	.02	.01	.08	T	.78	.59	.13	.63	T	.39	.06	.16	T	.02	
HANAHUI 281	A	5.86		.01	.02		.12	.20	.07	.40	.03					.52	.16	.40	.07	.08		.10	.15	.84	.95	1.65	.06				.02	
HOLUA CABIN 259.5	A	.95	.12					.38			.12						.16							.17								
HONOKOHAI 480	A	5.32																													5.32	
HONOKOHAI 493	A	2.67			.02			.02			.02													.22	1.91			.44				
HONOHAI GULCH 341	A	1.80																													1.80	
KAANAPALI AIRPORT	A	3.34															.02								1.95	1.18	T	T	.18	.01		
KAHONA INTAKE 374	A	2.90																													2.90	
KAMUUI W53 398 AP	R	4.37			.05																			.01	.20		.03	.05	T	T	.01	
KAILIILI 436	A	4.96																													4.96	
KAILUA 446	A	3.99	.01	.08	.09		.14	.24	.22	.19	.01	.12				.26						.01	.28	.05	1.25	.25	.12	.04	.45	.12	.05	
KAUAI INTAKE 375	A	6.68															.06														6.68	
KEANUA 410	A	.63					.04	T								.08	T								.10	.26		.15			9.20	
KEANUA 346	A	9.20																							.40	.31						
KEANAPU BEACH 260.2	A	1.71																							.14	1.46						
KIHEI 311	A	1.65																														
KIPAHULU 258	A	5.90	.71	.26			.21		.30						.26			.11	.35	.91		.10	.57	1.15	.97							
KIULA HEIGHTS 323.2	A	.90	.05													.06	.14								.19	.31		.15				
KIULA SANATORIUM 267	A	1.73	.01	.03	T	.01	T	.01					T	.11	.35	.02	.02	T							.42	.70	.02		.01	.02	T	
LAHAINA 361	A	1.85			.06																				1.79						4.90	
LAUNIUPOKO INTAKE 376	A	4.90																							.76	1.03						
LAUNIUPOKO VILLAGE 372	A	1.79																													4.90	
LUPI UPPER 442	A	5.90																													5.90	
MAHINAHINA 406	A	2.92																							.75	1.52			.65			
MAKALEI WLO 60-497	A	1.58										.11							.13												1.14	
OLONA 332	A	3.51	.74			.01	T	T	.12						.07	T				1.16	.01			.12	T	.67	.21	T	.02	.32	.06	
OLOWALU 296	A	.72																							.31	.41						
OLOWALU GULCH 377	A	7.2																													7.20	
PAAKEA 390	A	11.01	2.55	.20	.49	.02	.45	.74	1.04	.50	.14	.12		.03	.61	.27	T				.05	.53	.03	2.21		.03	.05	.08	.68	.15	.31	
PAIA 405	A	.70					.08	.01																	.05	.04					.01	
PANILEI HULU 259.2	A	19.80																					4.30								5.50	
POHAKA BRIDGE 307.2	A	1.13				.08																			.57	.55		.05	.08			
POLIPOLI SPRINGS 267.2	A	4.43																													4.43	
PUNOHAKA 2 343	A	8.60																													8.60	
PUNOHAKA 3 343	A	4.00																													4.00	
PUNOHAKA 4 343	A	4.00																														
PUNENE 396	A	.89				.01	.06																		.11	.43	.22	.12	T			
SPRECKELSVILLE 400-2	A	.48				.06																			.08	.18	.03	.10	.02	.01		
TAIN GATES 261.3	A	1.33	.63																							.70						
UKULELE 333	A	2.78																													2.78	
UKUMEHAME 301	A	.60																								.45	.15					
ULUPALAKUA RANCH 250	A	2.57			.08		.10	.12			.03	.02	.02			.02										1.00	1.18					
WAIKULU 364	A	2.64		.03													.18									1.65	.75		.03			
WAIHEHU CAMP 484	A	4.70					.22	.20							.03										3.77	.31		.22	.02	.13		
WAIHEHU VALLEY 482	A	2.78				.14	.10								.34										1.28	.25		.53	.02	.12		
WAIKAMOI 449	A	8.40																													8.40	
WAIKAMOI OAH 336	A	7.74	.59		.35	.01	.11	.54			1.32	.05	.12	T	.03			.12			T	.04	T	1.36	.02	1.08	.11	.01	.11	1.13	.64	
WAIKAMUI 390	A	1.72				.08																			.65	.67	.07	.25			.64	
WAILUKU 386	A	4.80																														

DAILY PRECIPITATION

HAWAII
JANUARY 1972

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KTPA 89.2	14.52	.03	.24	.25	1.75	T	.02	.54	2.16	.62	.03	.01	.01	.02	.53	.49	.22	.01	.10	.04	.03	.03	4.76	.83	.44	1.13	.01	.01	.02	.19	.01	.02	.19	
KOHALA MAULILI 176	3.12	.	.	.	.06	.01	.05	.	.	.23	.	.	.	.01	.02	.	.	.51	.03	.39	.02	.	.	.	.	.62	1.15	.	.	.	.	.
KOHALA MISSION 175.1	4.06	.	.	.	.08	.	.	.01	.12	.02	.01	.	.	.	.01	.37	.	.	.	.06	.	.	.	.	.	.	.	.	.	.	.	.
KOIKAE LOWER 196	3.72	.	.	.	.	.	.	.98	.	.	.	.	.	.	.12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KONA (KAILUA) 68.3	2.71	.	.	.	.	T	.	.	.	.	.07	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KONA VILLAGE 93.8	1.95	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KUKAIUA 222	4.34	.02	T	.	.43	.01	.	.01	.51	.01	.	.01	.01	.	.25	T	.	.	.	.	.	.	.	.12	.58	1.00	.	.	.15	.10	.	.	
KUKUIAEE MIC 199	3.14	.	.	.	.13	.	.	.05	.09	.04	.01	.01	.01	.	.09	.09	.	.	.	.	.	.	.	.55	.25	.45	.10	.03	.93	.35	.10	.29	
KUKUIAEE MILL 206	1.91	.	.	.	.02	.	.	.02	.	.	.	.	.	.	.03	.16	.	.	.	.	.	.	.10	.38	.03	.46	.04	.08	.92	.37	.26	.04	
KULANI CAMP 79	8.45	.16	.55	.07	1.22	.05	.	.13	.57	.35	.05	.05	.05	.04	.35	.04	.04	.	.	.	.	.05	.	.	.12	.47	.01	.10	.66	.	.	.27	
KULANI MAUKA 76	2.30	.23	.	.30	.	.	.	.	.05	.	.	.	.	.	.	.	.	.	.	.	.	.	.75	.41	.25	2.80	.08	.08	.05	.	.	.33	
KULANI SCHOOL SITE 78	4.47	1.14	.	.	.	.	.	.	.20	.05	.	.	.10	.05	.10	.	.76	.	.	.	.	.	.30	.57	.30	.	.	.	.	.	.40		
LANIHUA 68.2	7.29	.	.07	.	.	.39	.20	.	.	1.77	.	.	.	.	.	.	.04	.02	1.55	1.12	.44	.	.	.	.	.	.	.	.	.	.50	.	
MAKAMALAU 193	1.77	.	.	.	.10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.57	.
MANUKA 2	7.73	.	T	.	.20	.	.	T	.	.	.	.	2.60	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.27	.	
MAUNA LOA SLOPE ORS	1.93	.	.	.04	.06	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.10	.
MIDDLE HOUAULDA 68.1	6.01	.	.	.	.	.	.60	.	.	.	.	.20	.	.	.	.	.40	.01	.	.01	.	.	.	.	.06	1.00	.	.	.	.03	.29	.	
MIDDLE PEN 147.1	2.44	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.31
MOAULA 18	10.50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.70	.	1.74	.	.	.	.	.
MOUNTAIN VIEW 91	13.64	.05	.	.46	.67	.01	.02	.51	1.40	.23	.02	.01	.02	.05	.44	.	.19	.18	.14	.	.	.08	2.75	1.10	.74	2.99	1.16	.01	.03	.	.33	.		
NAALEMU 14	10.22	.	.	.	.62	T	.12	T	.	.	.	.16	T	.	.95	.	.	.	.	.69	.05	T	T	.03	.	.	4.10	2.90	.01	T	.13	.	.66
NAPPOPO 28	2.77	.	.	.31	.	.	.	.	.	.	.	.48	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.63	.
NIULI 179	3.04	.	.	.	.03	.	.	.	.	.	.	.11	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.17	.
OKALA 223	7.84	.	.11	.58	.01	.	.	.15	1.18	.06	.02	.11	.07	.01	.67	.	.	.	.	.	.	.42	.02	.	.	.23	.77	.03	.26	.95	.	.17	
OPIHIMALE 2 24.1	5.03	.04	.	.24	.33	T	.07	.03	.03	.02	.	.	.	1.41	T	.	.28	.06	.	.	.	.	.	.	.07	.75	.26	.	.	.78	.69	.	.
ORCHID LAND EST 91.5	19.56	4.92	2.99	1.06	.	.
PAKUHAI 217	2.15	.02	.	.	.06	.	.	.08	.14	.	.01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAUULI 221	3.33	.01	.	.	.24	T	.	.01	.36	.02	.01	.01	.01	.01	.04	.	.	.	.	.	.	.	.	.	.05	.02	.34	.12	.16	.60	.25	.07	.22
PAHALA 21	12.1801	.	.34	1.7424	.17	.34	.16	.09	1.00	.32	.12	.18
PAHMA 65	23.71	.10	.	.79	1.13	.04	.	.37	2.24	.37	.03	.09	.	.14	.17	.	.08	.07	.17	.	.	.04	.07	.39	3.03	1.21	.81	6.71	3.14	.05	.15	.	.32	
PAKAO 37	11.37
PAPAIAKOU 144.1	10.42	.10	.01	.20	.72	.06	.	.41	3.33	.58	.06	.07	.	.26	.57	.04	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	11.37
PAPAIAKOU MAUKA 140.1	13.78	.17	.02	.08	1.86	.01	.	1.09	2.60	.63	.02	T	.	.06	.40	.32	.09	.1015	.01	.15
PEPEEKED MAKAI 144	10.58	.02	.	.02	.44	.01	.	.91	4.45	.36	.15	.	.	.31	.13	.30	.03	.1022	.01	.18
PIMONUA 89	21.6037	.05	.08
POMAHULDA 107	1.69	21.60
PUAKO 95.1	1.08	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.04	.05	.	.19	.	.	.	.	.	.	.	.	.	.	.	.	.52
PUU KIHE 120	2.54	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.13	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU LAU 102.1	3.10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.54
PUU LEHUA 73	2.00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.10
PUU MALI 113	4.63	2.00
PUU OO 82	3.25
PUU WAHAA 94.1	35.00	4.63
SADDLE ROAD 1 84	5.25	.	.20	.	.	.	.	24.00	.	.	.	.	.	.	.	.	4.00	.68	.18	.83	.05	.	.	.	.	.	.04	.82	.20	.	.	.09	.45
SOUTH POINT CORRAL 3	5.25	.	.20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6.70
UMIKOA 118	4.22	.18	.	.	.27	.	.	.03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.71
UPOLU POINT USCG 159.2	13.33	.	T
WAIKAE SCD 88.2	14.13	.13	.03	.18	.93	.01	.	.45	.99	.76	.	.	.	.	.	.	.01	.44	.36	.39	.	.	.	.	.	.	.51	.62	.04	.80	.38	.24	.40

SUPPLEMENTAL DATA

Station	AP	Wind (Speed - m.p.h.)					Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover sunrise to sunset		
		Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99			2.00 and over	Total
								150TH MERIDIAN												
								02	08	14	20									
HILO WSO 87	AP	15	1.2	6.4	19	SE	23	90	87	72	88	3	11	6	2	1	2	25	27	7.6
HONOLULU WSFD 703	AP	4	4.9	11.0	32	E	23	84	83	62	74	9	4	1	0	0	1	15	61	6.1
KAHULUI WSD 398	AP	5	5.5	9.3	29	E	07	86	88	58	78	3	5	1	0	0	0	9	67	5.2
LIHUE WSD 1020.1	AP	5	3.0	8.5	24	NE	07	85	82	70	80	11	6	2	1	0	1	21	47	6.6

DAILY TEMPERATURES

HAWAII
JANUARY 1972

Station	Day of Month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	61 45	61 46	67 44	64 44	59 50	59 44	63 42	64 49	65 50	65 43	64 44	60 49	67 46	65 51	68 52	63 46	65 48	70 48	67 40	56 39	55 45	62 48	60 52	58 52	58 51	57 51	55 49	55 49	54 46	55 48	61.6 47.0		
KILAUEA POINT 1133	MAX MIN	75 67	77 72	75 67	76 68	71 65	76 68	75 67	76 70	77 67	74 70	79 70	79 67	82 72	86 67	82 69	74 68	78 70	75 67	79 68	74 66	74 66	79 67	74 66	78 69	74 66	77 69	77 67	74 66	73 61	74 61	67.5 67.5		
LIHUE WSD 1020.1 AP	MAX MIN	76 64	77 64	79 70	77 69	73 65	75 62	76 63	77 63	77 70	76 70	76 63	78 63	80 78	79 67	79 66	79 65	78 67	77 70	77 61	78 60	78 61	73 63	78 67	77 63	77 66	73 66	72 62	72 60	75 60	73 56	76.5 64.3		
MAKAHUEA POINT 940.1	MAX MIN	81 64	80 70	77 71	82 68	79 66	68 62	76 64	78 70	75 70	76 67	80 67	78 61	81 68	80 68	83 64	83 64	83 69	77 70	80 64	81 50	78 66	80 65	73 65	73 65	76 67	80 64	79 65	79 64	77 56	74 61	74 61	77.3 65.4	
MANA 1026	MAX MIN	80 60	81 63	81 60	80 64	80 59	80 62	81 58	80 60	80 57	80 60	80 58	81 59	80 60	81 65	81 64	81 63	81 64	81 60	81 58	81 62	81 60	81 64	80 60	81 64	81 64	77 65	77 61	77 62	75 61	81 58	73 58	79.9 61.0	
NIU RIDGE 1035	MAX MIN	78 58	79 58	79 59	78 60	80 58	74 58	76 57	78 57	79 58	80 77	76 79	79 60	78 59	79 59	80 60	80 61	79 60	79 59	70 60	70 55	70 53	69 53	70 54	69 52	70 56	69 52	70 56	69 52	68 55	68 55	75.3 57.4		
WAIHAI LOWER 1054	MAX MIN	73 59	74 59	74 63	74 63	67 59	70 56	70 59	70 59	73 59	72 60	71 58	72 55	75 60	76 57	76 61	77 61	73 59	73 60	74 65	71 53	71 53	73 64	73 66	73 66	74 58	74 56	74 61	70 53	69 50	69 50	72.8 58.6		
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN				81 56	79 57	79 57	78			78 56	78 54	78 56	81 58	81 59		81 59	82 59	79 60	78 55	79 54			80 55	78 55	80 56	80 57	80 60	72 60		75 51			
HONOLULU WSD 703 AP	MAX MIN	78 64	82 61	82 66	80 67	78 61	79 62	78 68	78 68	78 68	79 65	80 60	77 61	78 64	79 66	75 66	78 63	80 64	80 64	78 67	79 58	75 59	77 66	73 66	82 66	77 60	79 60	72 62	75 61	73 56	72 53	77.7 63.1		
HONOLULU SUBSTA 704	MAX MIN	78 66	83 66	79 66	76 69	75 67	75 66	75 68	75 68	75 68	77 67	77 67	78 68	76 69	75 69	77 67	76 69	76 69	74 69	75 67	77 67	76 67	72 66	72 66	78 67	77 66	72 66	71 64	71 61	74 61	74 61	75.8 66.8		
KAHUKU 912	MAX MIN																																	
KANEHE MAUKA 781	MAX MIN	76 62	78 64	78 65	76 68	77 63	75 61	74 64	73 69	75 65	76 66	75 64	75 62	78 63	80 67	79 66	77 66	80 65	78 67	74 61	78 62			76 61	75 66	72 66	78 65	79 64	78 66	70 66	74 63	71 60	75 59	76.1 64.1
LUALUALAI 804	MAX MIN	81 64	82 62	82 60	82 72	80 64	78 63	80 64	79 70	80 68	80 64	80 63	81 61	82 63			82 63	81 64	75 69	81 59	81 61	79 65	70 66	82 66	79 67	79 67	74 65	73 65	77 63	76 62	76 56	79.1 63.2		
MAKAPUU POINT 724	MAX MIN	75 67	74 66	75 66	72 66	75 66	72 63	72 68	72 68	72 67	72 67	74 65	72 62	76 68	76 66	75 63	78 64	75 68	74 63	75 66	74 63	76 63	76 69	78 67	77 66	78 65	77 67	76 63	78 62	65 62	68 59	73.6 65.6		
OPAELUA 870	MAX MIN	77 61	79 60	76 69	75 62	73 59	72 58	72 60	73 61	74 59	81 55	75 55	75 58	80 55	80 59	80 60	87 55	80 55	75 55	82 51	74 54	82 59	80 59	82 59	80 57	80 56	75 55	72 55	75 56	70 55	70 49	76.2 57.4		
PRI WAHIAWA 820.2	MAX MIN	76 58	78 58	83 56	79 61	78 59	79 59	76 57	74 61	76 57	78 57	78 55	81 55	82 56	79 61	71 61	82 58	82 59	78 59	76 54	82 53	78 54	78 53	79 54	79 54	78 56	77 58	78 62	70 59	71 54	71 52	77.2 57.5		
WAIALEE 896.3	MAX MIN	76 62	76 62	76 62	79 63	75 66	78 66	75 64	75 66	75 66	76 64	77 61	77 62	79 63	78 61	79 63	78 65	79 66	70 62	74 63	79 62	78 63	75 63	72 63	72 64	76 64	76 63	72 62	74 62	73 63	74 62	76.1 63.2		
WAIALUA 847	MAX MIN	76 56	76 58	80 56	80 59	79 57	76 57	75 54	75 54	75 56	77 54	79 54	80 56	79 59	77 58	72 61	78 58	82 58	81 55	76 55	79 55	78 55	68 55	68 55	68 55	68 55	68 55	70 59	71 58	70 58	71 56	76.7 57.3		
WAIKIKI 717.2	MAX MIN	80 67	82 61	83 66	83 70	79 61	79 62	79 65	79 68	79 66	80 62	80 61	80 62	81 63	82 62	82 63	81 62	83 66	81 67	83 64	83 59	80 60	80 60	81 68	80 68	81 68	81 68	80 68	81 62	75 61	74 54	79 52	79.6 63.2	
WAIMANALO EXP FARM	MAX MIN	79 61	79 63	80 69	78 70	77 65	78 65	73 65	71 67	76 67	77 67	76 67	77 62	78 63	80 64	83 66	80 66	78 65	80 66	78 69	76 61	79 59	77 65	77 65	72 65	80 60	78 60	78 64	75 62	74 58	75 54	77.3 63.6		
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	76 60	77 64	78 66	79 66	75 62	73 65	74 67	75 65	75 68	74 64	76 63	78 59	79 58	79 65	77 68	76 61	77 61	76 66	75 60	79 60	78 65	77 69	77 67	70 63	77 63	75 66	68 65	70 64	70 65	72 58	75.3 63.9		
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN			76 57	72 61	70 60	69 60	69 58			72 57	70 55	70 55	77 55	77 55			74 59	73 59	73 55	75 54			75 56	73 55	75 54	75 56	69 61	74 57	73 56	60 59	68 59	68 52	
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	53 37	53 37	56 38	59 44	60 36	55 37	52 36	57 37	54 33	58 34	52 34	53 35	56 37	61 41	59 43	59 43	61 43	60 44	59 46	61 34	59 36	55 42	55 42	55 42	55 42	54 38	60 41	56 37	56 37	49 38	49 34	56.4 38.6	
HALEAKALA SUMMIT 338.4	MAX MIN			51 37	51 37	47 34	45 34	45 29			46 30	42 34	51 40	52 39			53 36	47 37	45 41	52 42	56 39	45 42			45 36	44 38	49 41	50 40	45 36					
HANA AIRPORT 355	MAX MIN	79 64	80 60	78 55	78 65	77 54	74 56	75 63	75 67	77 58	78 60	77 58	77 58	79 64	79 65	78 65	79 63	79 65	79 65	74 61	79 65	74 61	76 62	76 63	76 65	76 66	76 62	69 60	71 58	71 57	74 51	76.6 61.3		
KAANAPALI AIRPORT	MAX MIN	78 60	78 63	80 63	81 64	78 61	75 59	78 64	79 61	78 61	77 61	78 59	79 66	78 66	79 65	80 63	80 61	79 61	79 61	76 57	79 61	77 61	76 61	76 61	76 61	77 61	77 63	70 60	72 61	71 61	74 58	77.2 62.1		
KAHULUI WSD 398 AP	MAX MIN	80 57	83 60	84 61	81 68	78 54	79 58	81 61	79 59	80 54	80 53	80 54	81 58	84 62	83 62	83 60	82 57	82 57	83 58	80 50	79 50	80 50	79 61	79 61	79 61	79 61	75 60	73 59	78 59	77 55	80.3 58.7			
KAILUA 446	MAX MIN	71 59	75 60	75 60	73 63	73 68	72 59	72 62	69 60	69 60	72 60	72 63	72 63	75 64	76 63	77 63	77 61	74 60	73 61	72 61	73 57	70 60	71 62	72 62	73 63	77 59	77 59	67 59	67 59	71 55	72.8 60.5			
KEAWAKAPU BEACH 260.2	MAX MIN	82 58	80 60	84 62	83 62	84 55	79 57	84 55	79 57	82 55	82 55	82 55	82 55	83 58	82 63	83 63	82 61	83 61	82 55	83 55	80 55	83 59	82 68	83 68	83 68	80 66	80 66	78 66	82 63	83 61	80 52	81.4 59.1		

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
JANUARY 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	73	71	70	72	72	68	68	70	68	64	69	68	71	73	72	72	68	69	69	68	72	68	71	68	72	68	68	66	64	62	66	
	MIN	53	54	55	56	50	51	53	55	50	48	49	51	53	57	58	57	55	54	49	50	52	53	56	58	59	54	55	55	52	51	48	
LAHAINA 361	MAX	84	83	85	84	82	83	83	82	81	82	81	84	84	84	85	85	82	81	80	81	81	80	78	76	82	82	78	75	78	80	77	
	MIN	62	64	65	62	62	62	64	64	61	60	62	59	60	63	64	64	63	62	61	59	58	64	66	66	68	63	63	62	62	60	59	
WAILUKU 386	MAX			88	84	85	83	83	85		84	84	84	87	86		81	78	76	77	79		80	76	80	76	73		73				
	MIN			57	56	50	50	51	54		53	52	50	52	52		58	63	66	60	59		63	67	62	63	62		54				
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	79	79	78	77	74	75	76	74	72	75	75	75	77	81	78	80	77	76	76	75	76	75	75	78	75	73	77	75	70	71	68	
	MIN	60	62	65	64	59	60	62	62	59	59	59	60	60	65	63	63	60	61	64	60	59	61	61	63	64	65	63	62	62	58	61	
HAWAII VOLCNS NP HO 54	MAX	63		67	63	60	64	62	59	60	62	63	66	70	67	66	67	65	61	63	65	65	60	65	63	63	67	66	62	57	58	55	
	MIN	48		47	50	45	47	48	50	45	46	46	46	52	55	55	50	47	49	46	48	47	52	54	58	57	50	51	52	53	45	45	
HILO WSO 87 AP	MAX	80	81	79	77	78	78	70	73	77	78	77	80	83	80	81	81	78	79	80	81	79	74	80	75	75	78	76	73	73	77	77	
	MIN	60	61	66	61	58	60	62	63	57	60	57	59	63	68	70	63	61	61	59	62	63	65	64	69	68	62	65	66	64	59	60	
KAINALIU 73.2	MAX	75	74	76	76	72	68	73	74	74	72	73	75	76	76	78	74	72	73	74	73	77	75	76	75	78	73	74	73	71	67	72	
	MIN	57	58	60	61	59	58	57	57	58	56	58	57	60	63	62	60	60	58	58	56	57	57	59	63	65	65	60	62	61	57	52	
KAMUELA 192.2	MAX	74	75	76	74	65	70	69	70	72	67	68	72	75	73	73	75	74	73	67	69	75	75	74	74	69	69	71	67	65	63	67	
	MIN	50	45	48	55	45	46	49	54	50	53	48	44	47	56	54	57	49	52	54	52	42	45	57	57	55	49	52	53	55	49	48	
KEAAHI 92	MAX	75	79	79	76	75	76	76	69	72	74	74	76	76	81	80	79	78	76	75	76	75	76	77	75	73	77	75	72	71	72	75	
	MIN	60	59	59	64	58	58	59	61	58	59	58	58	60	62	66	65	61	62	60	60	60	64	68	64	67	62	61	63	64	59	59	
KEALAKEKUA 26.2	MAX	76	75	75	78	72	71	74	76	75	73	74	74	76	77	77	75	73	73	76	76	78	77	77	76	76	74	76	74	67	72	74	
	MIN	57	59	62	63	61	59	58	58	59	57	57	58	60	63	64	61	62	58	60	57	58	60	60	64	65	56	62	62	62	56	53	
KOHALA MISSION 175.1	MAX	78	78	78	78	75	75	74	74	72	75	75	75	77	78	72	80	78	76	76	75	75	74	75	76	81	75	77	73	71	65	72	
	MIN	61	62	63	66	60	60	61	63	62	60	60	59	58	66	63	63	62	62	65	62	59	59	63	62	66	61	61	62	62	59	60	
KONA (KAILUA) 68.3	MAX			84	81	80	80	82			81	80	79	82	83		84	80	80	82	82			82	78	81	83	78	79	79	80		
	MIN			64	69	68	67	65			61	61	61	63	66		66	64	65	63	63			64	69	62	61	65	66	60	64		
KULANI CAMP 79	MAX	59	60	63	49	54	59	55	56	54	47	55	56	57	59	59	66	65	62	59	63	62	62	62	63	68	65	60	50	60	56	58	
	MIN	41	42	48	48	39	42	41	44	40	40	38	42	38	40	48	47	44	42	37	37	40	45	48	46	44	45	45	47	47	43	45	
MAUNA LOA SLOPE OBS	MAX	37	43	46	45	47	43	43	40	46	46	48	48	48	45	43	43	44	46	52	51	46	47	46	44	49	52	49	41	39	44	45	
	MIN	26	26	32	30	31	28	25	24	28	30	34	34	32	34	33	31	29	32	34	35	27	30	36	35	37	35	31	28	30	28	30	
MOUNTAIN VIEW 91	MAX	76	76	76	76	72	72	72	68	68	68	71	74	74	78	75	75	75	70	71	73	72	72	72	71	69	74	71	68	68	68		
	MIN	55	55	55	55	51	51	54	50	50	50	51	51	54	56	55	55	55	54	55	51	56	58	58	58	64	56	57	59	53	53	53	
NAALEHU 14	MAX	71	76	76	76	72	74	75	75	75	75	73	74	74	79	79	75	75	75	74	75	75	75	74	73	85	77	77	77	71	71		
	MIN	65	61	61	61	60	61	63	63	59	59	59	60	63	65	65	62	62	62	62	63	64	64	64	64	73	65	62	64	64	68	68	
UOKALA 223	MAX	78	78	77	72	74	75	76	70	72	75	75	76	75	76	77	78	79	74	76	73	76	68	70	75	72	73	77	62	67	67	74	
	MIN	60	60	60	64	60	60	60	62	60	62	59	58	59	64	64	64	61	60	64	63	59	59	60	60	64	64	62	61	60	58	60	
OPIHIKALE 2 24.1	MAX	72	74	75	70	69	72	72	73	71	71	72	74	73	76	72	72	71	72	73	74	74	73	75	73	79	73	73	72	65	72	71	
	MIN	55	55	59	60	58	54	55	55	52	52	55	57	57	59	61	60	56	57	54	54	55	55	57	64	57	56	59	60	55	55	51	
PAHALA 21	MAX				78	72	76	74			75	75	76	73	79		76	75	76	76	78		76	70	80	77	75	69	67	67	75		
	MIN				58	55	56	58			56	56	56	57	61		58	59	56	56	58		59	65	64	61	61	55	57	55	57		
PUAKO 95.1	MAX	81	80	82	83	81	80	82	81	81	81	82	79	83	79	82	82	80	82	81	82	80	79	82	79	77	78	83	79	76	72	79	
	MIN	63	62	65	66	63	64	66	67	65	63	61	61	62	66	66	68	63	65	64	62	61	62	64	65	68	61	62	66	65	60	58	
UPOLI POINT USCG 159.2	MAX	81	80	81	80	78	78	77	77	77	77	77	78	79	80	78	82	79	75	77	73	79	79	80	80	82	82	82	81	74	69	76	
	MIN	55	65	67	67	63	62	64	64	63	62	62	66	66	67	66	66	64	64	62	63	67	68	70	69	69	68	65	67	63	61	63	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.15	.13	.13	.16	.14	.04	.21	.27	.26	.25	.28	.19	.04	.06	.12	.01	.18	.27	.21	.25	.21	.36	-	-	.36	.18	.23	.17	.15	.10	.20	
	WIND	61	59	101	205	156	72	131	274	228	189	170	82	53	59	57	68	77	58	185	141	66	107	66	65	100	65	93	83	47	52	69	
	MIN	56	56	56	60	57	54	53	56	57	56	57	54	54	55	55	57	56	56	57	53	-	-	-	-	-	-	-	-	53	50	48	
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.15	.15	.15	.15	.15	.19	.22	.18	.20	.20	.15	.19	.13	.00	.19	.17	.19	.14	.13	.17	.18	-	.15	.15	.15	.07	.15	.05	.15		
	WIND	24	19	16	37	26	21	17	41	31	24	22	29	20	14	12	4	14	16	27	20	21	22	29	29	29	29	30	25	24	29		
	MIN	58	60	60	62	59	59	56	57	57	57	57	57	57	57	61	62	60	60	62	60	57	57	58	63	65	59	59	60	57	57	54	

STATION INDEX

HAWAII JANUARY 1972

Main data table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. Includes sub-sections for ISLAND OF MAUI, ISLAND OF LANAI, and ISLAND OF HAWAII.

STATION INDEX

HAWAII
JANUARY 1972

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL		
ISLAND OF HAWAII																										
MOAULA 18	6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO	PUU LAAU 102.1	A 8402	05	HAMAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME	
MOUNTAIN VIEW 91	6552	02	PUNA	19	33	155 07	1530	0A	0A			PUNA SUGAR CO	PUU LEMIA 73	A 8403	04	N KONA	4	19 34	155 49	4880					W.H. GREENWELL RANCH	
HALENUI 14	6588	03	KAU	19	04	155 35	679	0A	0A			HUTCHINSON SUGAR CO	PUU MALI 113	A 8515	01	HAMAKUA	4	19 55	155 26	6960					KUKAIAU RANCH CO	
NARPOPOO 28	6697	04	S KONA	19	28	155 55	395	7A				KONA EXPERIMENT STA	PUU OO 82	A 8550	02	S HILO	4	19 44	155 23	6300					MISS JACKIE BENLEHR	
NIULII 179	6800	01	N KAHALA	20	14	155 45	75	0A				KOHALA SUGAR CO	PUU MAAWA 94.1	A 8555	05	N KONA	19	47	155 51	2320					HILLINGHAM RANCH INC	
OKALA 223	7131	02	N HILO	20	01	155 17	430	7A				LAUPAHONGE SUGAR CO	SADDLE ROAD 1 84	A 8593	02	S HILO	19	42	155 12	2340					BOARD OF WTR SUPPLY	
OPITHIALE 2 24.1	7100	04	S KONA	19	16	155 33	1270	7A				MISS C LEHARD	SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	300					HAWAIIAN RANCH COMPANY	
ORCHID LAND EST 91.5	7185	04	PUNA	19	34	155 00	445	VAR				BOARD OF WATER SUPPLY	UMIKOA 118	A 8763	01	HAMAKUA	19	59	155 23	3420					KUKAIAU RANCH CO	
PAPAHOU 237	7204	01	HAMAKUA	20	05	155 44	415	7A				PAAHUU SUGAR CO	UPOLU POINT USCG 159.2	A 8830	01	N KAHALA	19	40	155 08	1050					U S COAST GUARD	
PAUULO 221	7312	01	HAMAKUA	20	03	155 22	800	7A				HAMAKUA HILL CO	WAIKONA SCD 08-2	A 9025	02	S HILO	2	19 40	155 08	1050					SHINICHI KANESHIRO	
PAAHOLA 21	7423	03	KAU	3	19 12	155 29	870	0A	0A			HAWAIIAN AGR CO	WAIKANOONULA 178.6	A 9355	01	N KAHALA	1	20 08	155 47	3830					KAHUA RANCH	
PAHIA 65	7457	02	PUNA	19	30	154 27	670	0A				PUNA SUGAR COMPANY														
PAKAO 37	7463	03	KAU	19	22	155 29	5000					HAWAIIAN RANCH CO, INC.														
PAPAIKOU 144.1	7711	02	S HILO	19	47	155 08	200	7A				MAUNA KEA SUGAR CO.														
PAPAIKOU MAUKA 140.1	7721	02	S HILO	19	47	155 08	1270	7A				MAUNA KEA SUGAR CO.														
PEPEKOE MAWAI 144	8000	02	S HILO	19	51	155 05	190	7A				PEPEKOE SUGAR CO														
PILIHOUA 89	8051	02	S HILO	19	44	155 10	1730					STATE DIV OF FORESTRY														
POMAKUOLA 107	8063	02	HAMAKUA	19	45	155 32	6511	VAR				STATE DIVISION OF PARKS														
PUAKO 95.1	8194	05	KOHALA	19	59	155 50		8A	0A			ERWIN W. RAPP														
PUU KIME 120	8393	01	HAMAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO														

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Net and bid values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer-recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ↔ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- ↔ Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage Readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William J. Hubbard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N. C. 5/1/72-890

U. S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N. C. 28801

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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										30° or Above	32° or Above	34° or Above	36° or Above					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
																								Max.	Min.	0° or Below	0° or Below
KEAAU 92	76.0	61.5	68.8	- 1.5	83	6	59	20+		0	0	0	0	11.49	- 1.94	3.25	10	.0	0		16	6	4	
KEALAKEXUA 26.2	74.8	59.7	67.3		82	6	55	26+		0	0	0	0	3.65		1.60	26	.0	0		4	3	2	
KONA (KAILUA) 68.3	80.2M	64.0M	72.1M		85	29+	60	1		0	0	0	0	3.11		1.88	26	.0	0				1	
KUKUIHAELE 41C 199														5.81	- 1.50	1.96	19	.0	0		8	3	2	
KULANI CAMP 79	61.1M	44.2M	52.7M		71	6	39	27+		0	0	0	0	4.78		1.05	10	.0	0		13	3	1	
PAHALA 21	A	77.2M	59.5M	68.4M	- .4	87	7	56	21	0	0	0	0	5.29	- 1.30	3.54	22	.0	0				2	1
PONAKULOA 107	A													2.28		1.35	5	.0	0					1
PUAKO 95.1	A	80.9	63.3	72.1		86	5	58	26+	0	0	0	0	2.33		2.27	26	.0	0		1	1	1	
PUU WAHAA 94.1	A													2.02	- .55	1.50	26	.0	0		3	1	1	
UMIKOA 118														5.09	- 5.46			.0	0					
WAIKOA SCD 88.2														11.76		4.30	10	.0	0		15	5	3	
ISLAND			66.3											5.57				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 6TH AT HAINA 214, HAWAII
 LOWEST TEMPERATURE: 25° ON THE 11TH AT MAUNA LOA SLOPE OBS, HAWAII
 GREATEST TOTAL PRECIPITATION: 49.50 INCHES AT MOUNT WAIKALEALE 1047, KAUAI
 LEAST TOTAL PRECIPITATION: 1.04 INCHES AT KONA VILLAGE 93.8, HAWAII
 GREATEST ONE-DAY PRECIPITATION: 7.00 INCHES ON THE 25TH AT LAUNIUPOKO VILLAGE 372, MAUI

SPECIAL WEATHER SUMMARY

What had previously been a rather lack-luster winter came to life in February. Storms migrating eastward across the Pacific along tracks more southerly than they had been earlier in the season brought Hawaii several intervals of strong gusty winds and of heavy rains and thunder-showers. Although some wind and rain damage did occur, the rains were probably more beneficial than harmful in their effects.

On February 4 a small intense low pressure area moving northeastward several hundred miles north of the islands, brought occasionally heavy showers and strong southerly winds to Kauai and Oahu. Peak gusts at a number of stations are given in Table I.

Winds were strongest where accelerated by topography. On Oahu's northeastern coast-- called "windward" because of its location relative to the prevailing east-northeasterly trade winds, but which for southerly or southwesterly winds, lies leeward of the steep eastern slopes of the Koolau Mountains -- gusts at the Kaneohe Marine Corps Air Station reached 69 m.p.h. In Waimanalo, Koolaupoko, and Waiahole 130 acres of banana trees toppled out of a total of 400 acres for an estimated loss of \$10,000 to \$50,000. (Some of the fruit is salvageable.) In Waimanalo itself a carport was ripped from its foundations; road, construction and store signs were knocked down and blown away; and, at the Beach Park, debris was blown into the ocean, trees and shrubs uprooted, and outdoor fireplaces and facilities ripped loose or overturned. A few lightly constructed roofs blew off, one of them at Kahaluu, and there was other scattered damage to roofs and windows of homes. In Keapuka several television antennas were blown away, and at Makapuu Beach Park a 6-inch layer of sand drifted over the highway. Elsewhere on Oahu, strong cross winds hindered aircraft at Honolulu Airport and high winds halted the Hawaiian Open Golf Tournament for 8 minutes.

On Kauai, property damage was lighter than on Oahu but broken branches, leaves, and other debris were strewn along highways, a large plate glass window broken in Hanalei, and at Metcalf Farms in Kilauea a grain storage bin 25 feet high by 8 feet in diameter was carried across the highway by the wind. Five acres of banana trees were toppled out of a total of 130 acres, but losses ran under \$10,000.

Maui's Kaanapali Airport was closed down to light aircraft, but no crop or property damage of consequence appears to have occurred on the island.

On Hawaii Island, the Hilo area reported minor wind damage to homes and business buildings. In Kohala, high winds lifted off a roof and knocked down a nearly completed two-story house. A few

papaya trees were felled and some vanda orchids destroyed in Kapoho and Pahoia, but damage is believed to have been light. Mauna Kea Summit reported fog, freezing drizzle, and winds estimated at 60 to 80 m.p.h.

Associated with the northeastward-drifting storm center was a trough of low pressure that progressed steadily down the island chain accompanied by scattered thunderstorms and heavy showers. On Oahu and Kauai peak intensities appear not to have exceeded about 1 inch an hour, although at one time 4 inches of water covered the Kalaniana'ole Highway at Kahana Bay in eastern Oahu.

On the eastern slopes of West Maui, 24-hour rainfall totals exceeded 10 inches. Elsewhere on Maui, the rain was lighter and in general, helpful, particularly to crops and pastures in Maui's Kula, Omaopio, and Ulupalakua areas where further moisture was needed despite January's rains.

On the evening of February 8, Maui was hit again by heavy rains associated with a low pressure trough traversing the island chain higher in the atmosphere. The Wailuku Sugar Company reported nearly 3.5 inches during a single hour and 20 acres of 2-month old sugarcane washed out at an estimated restoration cost of \$18,000. However, the storm also brought more than 10 inches of rain to northeastern Maui's Waikamoi reservoir, which had been so badly depleted during the long dry spell of the previous year.

Along the upper Hilo coast of Hawaii Island 2-day storm totals exceeded 11 inches in places, with peak intensities of approximately 1.5 inches an hour.

On the 17th and 18th another cold front moved through the islands accompanied by extensive clouds and showers. Strong, northeasterly trade winds in advance of the front left the heaviest rains on eastern Maui's windward slopes and generated high surf that on February 19 threw gravel and rocks onto the Bay Front Highway at Hilo, closing it for several hours.

On the evening of February 21 another low pressure area, similar to that of February 4 but further north, this time about 700 miles northwest of Honolulu, was drifting northeastward while drawing into its center broad converging currents of southerly winds that streamed across the islands.

At the same time a region of low pressure (trough) passing eastward through the island chain increased the instability of the moist air, permitting clouds to grow to great heights. Even on the previous day, February 20, lightning had slightly damaged one home in Hilo and barely missed

SPECIAL WEATHER SUMMARY - Continued

another. A dog was killed either by lightning or flying debris.

By the morning of February 22, a 240-mile-wide band of heavy showers and thunderstorms lay astride Molokai Channel and was moving south-eastward. A twin-engined aircraft attempting to reach Lanai from Honolulu through the weather front crashed at sea, killing all eight aboard. Hawaii Island's Volcano area reported hail at about 5:30 p.m.

On the 23d, heavy rain during the morning rush hour produced what was described as possibly Oahu's worst traffic snarl in history. Traffic on highways leading into Honolulu backed up for miles amidst stalled cars, minor accidents and, on the Pali Highway, a landslide. Earlier in the day lightning had hit a transmission line in Honolulu's Hawaii Kai district, shutting off power to 1,000 homes for about a minute. Another bolt, sounding to the occupants "like a jet airplane crashing into the roof," smashed a 2-foot hole in the garage roof of a home, throwing shingles and bricks around the yard and shearing off the top of a coconut tree.

A small plane attempting to fly from Hilo to Honolulu went far off course while circling massive thunderheads off western Molokai. During the evening hail fell on Hawaii Island, about 2 miles southwest of Hilo Airport.

The heavy rains reached Maui the evening of the 24th. In the Wailuku, Kahului, and Lahaina areas where rainfall rates reached 2 inches an hour, and totals of 5 to 8 inches occurred within a few hours, highways and roads turned into torrents.

Erosion was heavy. At the Wailuku Sugar and Pioneer Mill Companies most fields with young cane were washed out and foot-deep layers of mud, sand, rock, and other debris covered the roads. Numerous homes, lawns, and patios were flooded. Many cars stalled and poor visibility in rain caused a number of automobile accidents which injured at least three persons, none seriously. Flood waters at Paia halted traffic to Makawao and beyond.

In the Lahaina area, which received nearly half its mean annual rainfall within the space of about 5 hours, power and telephone circuits were out from 6:30 p.m. to 8 p.m. Lahaina's Front Street ran 2 to 3 feet deep with water, and by the morning of the 25th it was a river of mud and water. There, and on Wainee Street, where a drainage ditch overflowed, a number of houses sustained damage.

Following an almost day-long blizzard on the 25th, the astronomical observatory atop Mauna Kea reported 3 inches of new snow extending down to about the 9,000-foot level, with drifts of more than 6 feet closing the last 1,000 feet of the road to the summit.

As the month ended nearly all of the State had received moisture enough to put an end to the long dry spell of the previous year. A few areas had received too much rain and an island-wide papaya shortage from root rot and fruit rot was anticipated. On the other hand, a scattering of gages in western Kauai and on Oahu and Maui had less than their February averages, as did most of Hawaii Island's south Kohala, Hamakua coast, and Kau Districts.

TABLE I

Peak Gusts Observed on February 4

<u>Location</u>	<u>Speed (miles an hour)</u>	<u>Direction (from which the wind blows, in degrees)</u>
KAUAI		
Kokee	58	140°
Lihue	51	220°
OAHU		
Honolulu	36	200°
Kaena Point	52	195°, 215°, 225°
Kaneohe MCAS	69	180°

SPECIAL WEATHER SUMMARY - Continued

TABLE I - Continued

Peak Gusts Observed on February 4

<u>Location</u>	<u>Speed (miles an hour)</u>	<u>Direction (from which the wind blows, in degrees)</u>
MAUI		
Kaanapali	40	170°
HAWAII		
Hilo	44	170°
Kona	46	170°

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Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
FEBRUARY 1972

Station	Total	Day of Month																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																			
NAHOLA 1114	A	9.18	.04		1.50	*		.50			.29	.06	*		.05			.14	.04	*	*	.20	1.55	3.95	.70	.02	*	*		.15	.05	*			
BYOTESWOOD STA 985	A	5.79			.39	*		.61		.01	.69	.06	*		.32	.02			.04	.04	*	*	.75	.50	2.15	.02	.13	*	*		.10	T	*		
EAST LAHA 934	A	6.84			.36	*		.88	.02	.07	.74	.06	*		.16	.02			T	.04	*	*	1.03	1.12	2.10	.03	.12	*	*		.05		*		
ELEEF 927	A	2.87			.21	*		.21			.21		*		.05						*	*	.44	.41	1.03	.02	.12	*	*		.12		*		
HELAUEA 1110	A	10.13	.03		1.70	*		.70		.02	.35	.02	*		.10						*	*	.35	1.35	3.90	.19	.03	*	*		.25	.10	*		
HALEMANUHI 1006	A	7.74		.02	.02	.64	*		1.09	.14	.06	.39	.04	*		.19			.04	.06	*	*	.78	1.97	2.05	.13	.23	*	*		.06	.05	*		
MURPHY 945	A	3.79			.51	.32					.51		*								*	*	1.30	1.10		.48	.24	*	*		.56	1.26	*		
KILAUEA INTAKE 1050	A	23.04	.02		*	5.39	*		1.30	.20	.23	1.25	.25	*		.82	.18		.14	.38	*	*	4.42	1.56	4.69	.51	.48	*	*		.56	1.26	*		
INTAKE WAINIHA PC 1086	A	15.91			*	4.11	*		1.38	*		3.45	.04	*					.53	3.34	*	*	.83	*	*	2.23	.64	.45	*		.05	2.21	*		
KANALOH LUMULU 1075	A	12.44	.28		2.71	2.23	.43		.02			.22		.02							.44	.04	.05		1.22	1.20	.23	.64	.45	*		.05	2.21	*	
KANEHA RESERVOIR 1092	A	15.19	.09		2.30	*		3.10	.15	.05	.70	.06	*		.30						1.02	*	*	1.15	1.17	3.30	1.30	.15	*	*		.25	.10	*	
KAPAA STABLES 1104	A	10.46			1.57	*		.52			.10		*		.03				.12		.30	*	*	1.20	5.08	.75	.05	*	*		.32	.12	*		
KALIA 1117	A	9.83	.02		1.10	*		.55		.01	.19		*		.10					.14	.15	*	*	.25	1.95	4.10	.86	.03	*	*		.40	.04	*	
KERAMA 944	A	2.45			.39	.20					.01		*										.02	.53	1.10	.02	.10	.08						*	
KILAUEA 1134	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KILAUEA FIELD 17 1135	A	8.87	.40	.02	.02	1.97	*		.47	.15	.12	.95	.02	*		.30	.03		.02	.07	.47	*	*	4.46	1.37	.64	.52	.30	*	*		.15	.42	*	
KILAUEA POINT 1133	A	8.02	.06	.10	.66	.09	.14	.10	.02	.02	.84				.07					.30	.25	*	*	2.02	.82	.40	.75	.63	*	*		.24	.32	*	
KOLOA 1033	A	2.28			.12	.43	.03				.15		*										.23	.85	.02	.18	.27	*	*						
KOLOA 936	A	8.72			.04	.88	*		.45	.03	.04	.06	*		.13				.08		.07	*	*	1.17	2.00	2.85	.05	.17	*	*		.10		*	
KOLOA MAUKA 994	A	10.17		.04	.07	1.11	*		1.09	.11	.10	1.79	.03	*		.36	.06		.06		.14	*	*	1.24	1.04	2.55	.07	.21	*	*		.06	.04	*	
KOLDOK RES 1137	A	9.08	.32	.05	.04	3.00	*		.30	.02	.08	1.01	*		.15	.05			.02	.06	.29	*	*	.22	1.27	1.27	.32	.21	*	*		.20	.20	*	
KUKULUA 935	A	5.54			.25	*		.80		.15	.02	*			.05					.14	.02	*	*	.44	1.10	2.34	.07	.08	*	*		.08		*	
LIMUE VARIETY STA	A	8.31			1.58	.36			.21	.10	.37		.10		.05								.51	1.37	3.22	.50	.10	.11	*	*		.06	.12	*	
LIMUE 1020	A	7.28			.80	*		1.13	.02	.03			*		.11								.21			2.35	2.58	.23	.25	*	*		.02	.12	*
LIMUE WSO 1020.1 AP	//R	7.77			.12	1.77	.08	T		T	T	.04	.02	T	.01				.03	.26	.05	T	.98	3.85	.22	.28	.11	T			.05		.05		
MAKAHUEHA POINT 940.1	A	7.41			.03	.23	.56		.47	.02	.07	.02	.01	.02	.15	.20				.09	.12	.02		.84	4.82	.14	.13	.13	*	*		.10	.13	*	
MAKAHELI 965	A	3.14			.40	.18			.03	.05		.01	.02	.01							.03	.02	1.11	1.16	.07	.04	.08	*	*						
MANA 1026	A	2.04			.17	.19			.03			.03		.01									.33	.71	.06	.47	.08	*	*						
MOHIMI LPP CROSS 1083	A	15.12	.10		.30	3.67	1.39		.10	.99	.10	.10		.20					.40	.70	.20	.10	1.19	2.09	.20	.50	.60	*	*		.10	2.09	*		
MOLOAA 1145	A	9.19	.40		.41	2.23			.72		.05	.56			.12						.06	*	*	1.76	2.52	.57	.30	*	*			.09	.09	*	
MOUNT MAIALEALE 1047	R	49.50	.04	.08	3.35	4.88	.31	.08	1.34	2.44	4.76	3.66	.75	.55	.91	.67	1.26		.39	1.22	2.80	.47	3.23	1.50	3.15	.71	.28	.12			.87	5.43	*		
NIU RIDGE 1035	A	2.65			.49	.39					.02												.68	.75	.05	.10	.18	*	*						
N. WAILUA DITCH 1051	A	26.55	.16		.26				3.26	.46	.27	2.10	.26	*	.60	.30			.20	.10	.50	*	*	4.60	2.93	6.80	.02	.02	*	*		.36	1.20	*	
PH WAINIHA 1115	A	11.84	.18		T	1.17	1.43	.34	.49	.07	.35	2.84	T	.05	.10	.11	T		.20	.10	T	1.45	1.04	.26	.01	.15	.26	.12	.09	.44	*				
PRINCIVILLE RANCH 1117	A	5.51	.15		.02	.62	*		.46	.16	.15	.75	*		.20								.16	.31	.46	.51	.05	*	*		.20				
PUEHU 0106 1040	A	4.48			.85	.75					.21												1.07	.80	.23	.28	.29	*	*						
PUEHU 1013	A	7.15	.02		.81	*		1.50	.03	.06	.16	.02	*		.10				.04		.15	*	*	.45	1.40	2.03	.10	.19	*	*		.07	.02	*	
RESERVOIR 6 1004	A	7.70			.97	*		.55	.19	.16	.32				.23	.03			.04	.16	*	*	.59	2.03	2.07	.03	.16	*	*		.05	.02	*		
WAIHANA 930	A	3.43			.23	*		.36			.11		*		.05				.02	.03	*	*	.47	1.49	T	.20	.20	*	*		.06				
WAIHANA MOUNTAIN 990	A	19.50			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	19.50	*
WAIAMI LOWER 1054	A	17.72	.01		.02	1.79	1.32	.02	.24	.18	.83	.13	.18		.32	.02	.08		.09	.09	.37	2.34	.27	1.84	6.05	1.09	.26	.08			.10		.10		
WAIAMI UPPER 1052	A	20.31			3.35	2.35			.02	.10	.13	1.10	.05	.29	.31	.05			.05	.03	.01	.91	2.99	1.10	1.65	4.75	.73	.45	.51	.10		.31			
WAILUA 943	A	5.05	.02		1.19	.12			.69		.06	*			.05				.43	.03	.20	*	*	.51	1.55	3.85	.36	.11	*	*		.05	.03	*	
WAILUA KAI 1065	A	9.09			1.19	.12			.69		.06	*			.05								.51	1.55	3.85	.36	.11	*	*		.05	.03	*		
WAIMEA 947	A	5.05			1.20	.78																	1.04	1.27	.06	.12	*	*							
WEST LAHAI 931	A	5.38			.24	*		.50	T	.01	.22	.01	*		.05	T			.03	.01	*	*	.68	.93	2.52	.03	.06	*	*		.09				
ISLAND OF OAHU																																			
BERETANIA PUMPING STA	A	6.10			.04	.90			.03	T	.14										.01	.02	.02	.03	.24	3.70	.55	.45							
CAMPBELL INO PK 702.5	A	4.35			.10	.33			.02	*	.03	*			.01									1.13	1.92	.10	.74	*	*						
CAMP 84 807	A	5.59																																	

DAILY TEMPERATURES

HAWAII
FEBRUARY 1972

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	65	64	65	70	72	65	66	67	67	70	67	68	68	71	69	69	70	66	65	65	69	72	68	69	72	69	68	70	68	68.1		
	MIN	49	47	48	49	62	56	55	55	56	57	57	50	50	51	50	51	51	52	53	52	51	52	54	58	59	62	51	50	51	56	53.0	
LAHAINA 361	MAX	80	79	78	78	80	82	82	81	83	82	84	80	84	82	84	81	79	76	80	80	82	76	75	78	78	82	82	83	84	80.5		
	MIN	57	57	62	62	62	64	64	63	63	63	60	62	65	61	60	59	60	61	59	59	60	62	64	64	65	63	61	59	64	61.6		
HAILUKU 386	MAX	75	73	75	77			83	75	73	74	76			76	77	80	79	75			77	79	73	74	77			80	84	76.8		
	MIN	56	57	59	64			65	66	65	67	65			64	60	60	63	63			60	60	64	65	64			60	62	62.3		
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	77	73	70	76	82	88	70	71	75	75	73	75	74	73	75	77	76	76	73	73	75	78	80	81	80	71	74	77	79	75.8		
	MIN	58	59	60	63	65	65	64	63	62	64	62	63	61	59	61	61	61	61	59	59	58	61	64	64	65	61	62	60	62	61.6		
HAWAII VOLCNS NP HC 54	MAX	60	59	62	64	62		71			66	58	62			58	64	62	65			64	58	58	63	68	67	65	66	61	69	63.1	
	MIN	49	45	47	49	58		53			52	46	48			48	46	45	49			44	46	45	54	55	52	55	48	53	49.3		
HILD WSD 87 AP	MAX	76	78	78	83	83	74	76	77	78	76	78	76	78	80	78	80	77	74	75	78	77	82	84	82	80	78	79	82	85	78.8		
	MIN	57	57	63	69	68	67	66	64	64	64	59	63	62	61	61	59	59	58	61	61	64	65	66	61	62	61	61	62	67	62.5		
KAINALIU 73.2	MAX	71	72	73	74	80	81	72	72	75	75	73	74	71	75	75	73	75	74	73	70	72	77	77	77	77	70	74	75	79	74.3		
	MIN	53	54	55	61	64	59	62	59	59	62	59	58	57	55	58	56	56	55	57	56	57	61	60	62	64	54	56	57	58	58.0		
KAMUELA 192.2	MAX	67	66	68	74	78	75	65	68	73	69	70	65	68	67	68	72	74	72	66	68	68	75	74	76	74	65	74	73	75	70.6		
	MIN	39	42	45	50	54	57	57	55	56	54	54	53	55	54	49	52	43	46	48	49	44	47	52	54	56	42	44	44	46	49.7		
KEAAU 92	MAX	74	75	75	77	81	83	75	74	75	75	72	74	74	75	75	75	77	74	73	72	75	74	78	80	81	77	76	77	80	76.0		
	MIN	59	59	59	63	59	68	65	64	63	64	59	60	62	62	61	60	61	59	59	59	61	63	64	63	62	60	61	64	60	61.5		
KEALAKEKUA 26.2	MAX	72	70	74	74	80	82	74	70	77	77	73	75	72	76	75	72	76	76	72	70	72	78	77	77	78	69	77	75	79	74.8		
	MIN	57	58	60	62	64	60	63	64	63	64	63	63	62	64	63	62	60	59	59	61	59	61	59	60	63	65	65	60	58	60	59.7	
KOHALA MISSION 175.1	MAX	75	76	74	75	79	80	71	72	76	74	74	74	77	70	74	76	76	75	69	72	74	76	79	79	77	70	73	76	78	74.9		
	MIN	55	57	56	62	67	60	63	61	60	61	62	60	62	64	63	62	60	59	59	61	59	61	59	60	63	69	65	60	58	60	61.4	
KONA (KAILUA) 68.3	MAX	78	79	82	81			83	77	81	82	81			80	80	77	81	80			80	82	82	82	81	71		82	83	80.2		
	MIN	60	61	61	64			66	66	66	66	66			63	64	63	62	62			62	65	67	67	70	61		62	65	64.0		
KULANI CAMP 79	MAX	60	57	58	63	62	71	70	66	63	62	55	56	56	55	58			60	60	61	54	53	59	65	69	68	63	59	62	66	61.1	
	MIN	48	39	40	45	45	47	47	46	48	47	40	43	43	41	43			40	40	45	39	42	46	54	48	52	42	39	42	46	44.2	
MAUNA LOA SLOPE OBS	MAX	46	48	49	46	47	46	40	45	45	41	45	39	45	48	51	49	47	45	45	47	48	47	47	46	47	47	53	53	56	46.8		
	MIN	29	31	32	36	34	33	34	32	30	27	25	30	28	30	32	28	26	29	27	28	30	30	33	32	29	28	34	31	40	30.6		
MOUNTAIN VIEW 91	MAX	70	69	71	72	80	80	80	68	71	71	64	69	69	69	71	71	73	70	70	70	70	70	76	75	77	72	72	72	78	72.1		
	MIN	54	51	51	57	56	56	56	60	58	58	55	55	55	55	55	55	55	53	52	52	52	55	61	58	61	54	54	54	57	55.3		
NAALEHU 14	MAX	75	74	75	74	74	85	85	74	78	76	74	74	75	75	75	76	75	74	74	75	75	77	75	77	77	77	79	79	79	76.2		
	MIN	57	60	63	66	66	64	64	65	66	65	62	62	63	63	62	63	63	62	60	62	62	63	65	64	66	66	60	60	67	63.0		
ODKALA 223	MAX	72	72	71	74	81	81	69	71	72	75	70	75	74	70	74	76	75	72	66	66	76	76	79	78	78	70	75	75	76	73.8		
	MIN	58	59	59	60	67	64	64	63	63	63	62	61	62	62	62	63	62	60	56	54	61	63	61	63	63	60	60	60	61	61.6		
OPIHIHALE 2 24.1	MAX	70	71	73	84	79	71	71	73	75	72	72	70	74	73	71	72	74	70	67											73.5		
	MIN	52	53	53	64	57	57	59	58	58	59	57	53	53	53	53	53	53	54	54										55.2			
PAHALA 21	MAX	74	74	77	77			87	77	78	76	75			77	76	76	76	74											86	78	77.2	
	MIN	57	57	58	58			63	63	62	61	59			57	58	60	57	57			56	60	63	61	63			59	61	59.5		
PUAKO 95.1	MAX	77	79	82	78	86	83	79	77	81	81	83	81	78	81	83	82	80	82	82	83	80	83	79	84	82	76	83	79	83	80.9		
	MIN	58	58	61	63	65	67	68	65	67	68	66	67	64	63	61	62	60	61	62	63	61	62	67	67	68	58	60	59	62	63.3		
UPOLU POINT USCG 159.2	MAX	78	78	77	79	83	83	83	82	77	77	81	76	76	74	77	75	78	78	78	78	78	79	80	80	80	80	76	78	81	78.6		
	MIN	62	63	63	63	65	67	66	65	68	68	65	66	67	67	66	66	65	61	65	60	62	66	61	66	64	61	63	63	67	64.5		

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP	.14	.18	.19	.24	-	.17	.18	.27	.27	.16	.22	.30	.37	.22	.29	.29	.25	.19	.19	.24	.32	.17	-	.21	.17	.01	.21	.24	.19	6.328		
	WIND	55	63	150	178	263	83	161	189	205	282	262	272	271	261	170	188	96	140	208	258	114	81	99	70	79	55	69	71	191	4584		
	MIN	48	49	49	57	59	57	57	57	59	59	55	54	56	58	57	58	53	53	54	54	55	54	58	57	56	50	49	57	59	73.8		
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.07	.15	.15	.09	.14	.15	.15	.15	.15	.20	.23	.15	.21	.22	.21	.20	.15	.21	.19	.15	.19	.44	-	.06	.07	.16	.20	.19	.20	5.008		
	WIND	18	21	21	65	104	34	22	22	31	44	49	48	49	38	29	22	16	20	34	30	25	39	13	10	3	21	18	26	54	926		
	MIN	70	84	81	77	76	82	76	83	84	81	82	79	77	83	83	81	85	85	81	80	84	82	70	73	76	83	86	87	90	80.7		
MIN	53	53	54	60	66	60	60	60	60	61	59	59	59	59	58	58	59	59	59	56	57	58	60	62	62	60	59	59	58	65	59.1		

STATION INDEX

HAWAII
FEBRUARY 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	ETAP.	SPECIAL										TEMP.	PRECIP.	ETAP.	SPECIAL	
ISLAND OF HAWAII																									
HOLA LA 8	A 6407	03 KAU		3 19 11	155 30	601						HAWAIIAN RANCH CO	PUU LAHAI 102.1	A 8452	05 HAMA		5 19 50	155 30	7440				STATE DIV OF FISH-GAME		
HOUJUNIA 114 91	A 6550	02 PUNA		2 19 33	155 07	1530	8A	8A				PUNA SUGAR CO	PUU LEHUA 73	A 8460	04 N KONA		4 19 34	155 49	4880				W.M. GREENWELL RANCH		
HALELEU 16	A 6588	03 KAU		3 19 04	155 35	673	8A	8A				HUTCHINSON SUGAR CO	PUU MALI 113	A 8515	01 HAMA		19 55	155 26	6960				KUKAIAU RANCH CO		
NAPARDU 28	A 6674	04 S KONA		4 19 28	155 59	395	7A					KONA EXPERIMENT STA	PUU OO 82	A 8550	02 S HILO		19 44	155 23	4340				MISS JACKIE BENLEHR		
NIHILI 174	A 6806	01 N KONA		2 20 01	155 17	430	7A					KONA CORPORATION	PUU WAAHAA 94.1	A 8555	05 N KONA		19 47	155 51	1520				OILLINGHAM RANCH INC		
OTAKA 223	A 7135	02 N HILO		2 20 01	155 17	430	7A					LAUPAHOEHOE SUGAR CO	SAGOLE ROAD 1 84	A 8590	02 S HILO		19 42	155 12	2340				EDGAR OF WTR SUPPLY		
JERIMALE 2 24.1	A 7600	04 S KONA		4 19 16	155 53	1270	7A					MISS C. LEONARD	SOUTH POINT CORRAL 3	A 8675	03 KAU		18 57	155 41	300				HAWAIIAN RANCH COMPANY		
CRIMIC LAND EST 91.9	A 7 85	02 PUNA		2 19 34	155 20	445	VAR					SQUARE OF WATER SUPPLY	UMUKOA 118	A 8780	01 HAMA		19 59	155 23	3420				KUKAIAU RANCH CO		
KAKAUMAI 217	A 7204	01 HAMA		1 20 05	155 26	415	7A					PAAHAAU WATER SUPPLY	UPOLO POINT USGC 159.2	A 8830	01 N KONA		10 20	155 93	81	8A	7A		U S COAST GUARD		
PAAII 0 271	A 7312	01 HAMA		1 20 03	155 22	800	7A					HAMA HILL CO	WAIKAKA SCO 84.2	A 9028	02 S HILO		19 40	155 08	1050				SHINICHI KANESHIRO		
PAHALA 2	A 7421	03 KAU		3 19 12	155 29	870	8A	8A				HAWAIIAN AGR CO	WAIKANDOLA 178.6	A 9350	01 N KONA		11 20 08	155 47	3630				KAHUA RANCH		
PAHUA 65	A 7457	02 PUNA		2 19 30	154 37	870	8A					PUNA SUGAR COMPANY													
PAKAO 34	A 7543	04 KAU		3 19 22	155 28	5000	7A					HAWAIIAN RANCH CO, INC.													
PAPAIAO 144.1	A 7711	02 S HILO		2 19 47	155 06	200	7A					MAUNA KEA SUGAR CO.													
PAPAIKOU MAUNA 140.1	A 7721	02 S HILO		2 19 47	155 06	1270	7A					MAUNA KEA SUGAR CO.													
PEPEKEE MAHAI 144	A 8000	02 S HILO		2 19 51	155 05	100	7A					PEPEKEE SUGAR CO													
PIIHOHUA 89	A 8051	02 S HILO		2 19 44	155 10	1730						STATE DIV OF FORESTRY													
POMAKUOLA 107	A 8063	02 HAMA		1 19 45	155 32	6311						STATE DIV OF PARKS													
PUAKO 95.1	A 8188	05 KONA		5 19 59	155 30	5	8A	8A				ERWIN M. RAPP													
PUU KINE 120	A 8393	01 HAMA		1 19 54	155 24	7750						KUKAIAU RANCH CO													

1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3630, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 HOUR ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AH Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

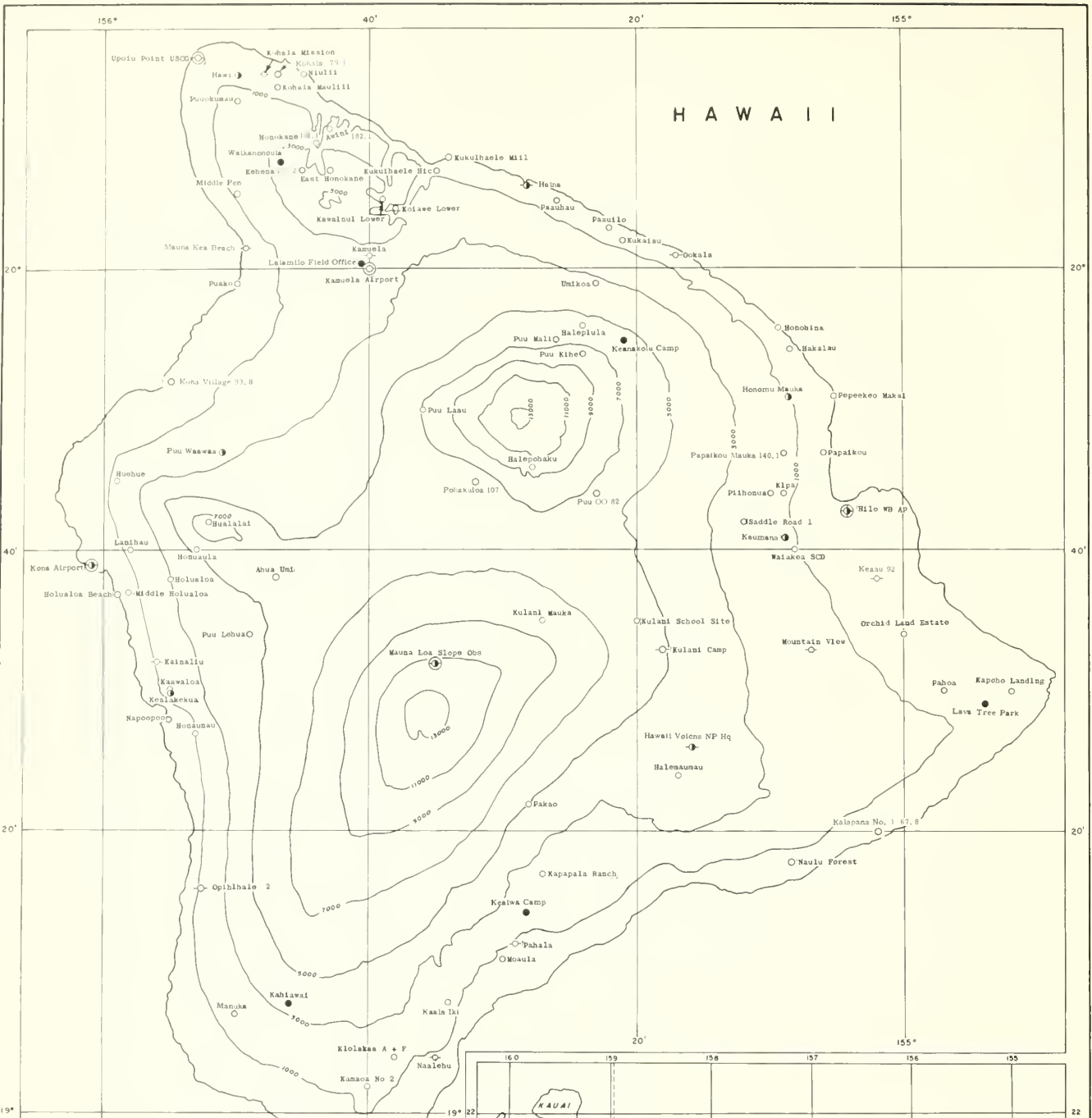
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual: \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
 Director, National Climatic Center
 USCOM-NOAA-ASHEVILLE, N.C. 5/26/72-890



HAWAII

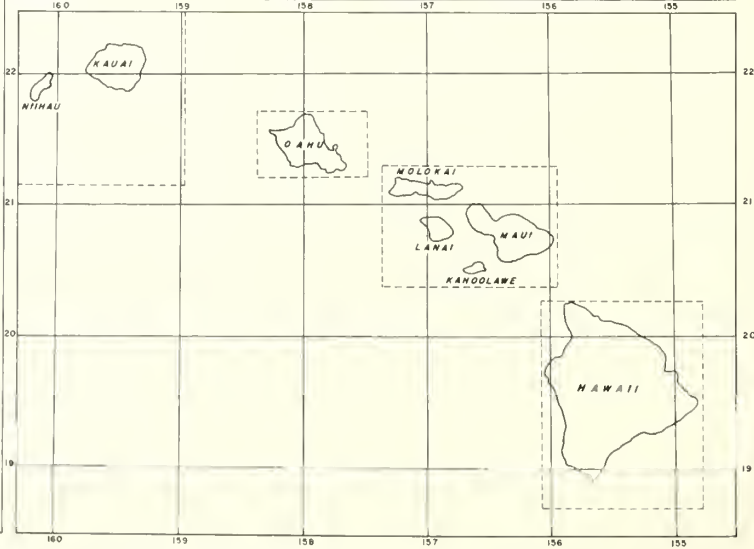
PLATE 2
STATUTE MILES



STATION LEGEND

- ● ① Precipitation only
- ① Precipitation, storage
- ● ② Precipitation and Temperature
- ● ③ Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording ① Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time



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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
MARCH 1972

Continued

Station	Temperature											Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										80° or Above	32° or Below	32° or Below	0° or Below														
KEAAU 92	81.2	62.0	71.6	1.3	88	24	55	3		0	0	0	0	1.41	-14.17	.64	29		.0	0		4	1	0			
KEALAKÉKUA 26.2	77.0	60.8	68.9		82	3	56	6		0	0	0	0	5.48		2.53	5		.0	0		3	2	2			
KONA (KAILUA) 68.3	82.0M	65.8M	73.9M		85	3	60	31		0	0	0	0	3.14					.0	0							
KUKUIHAELE HIC 199														3.40	- 6.64	1.45	29		.0	0		5	2	1			
KULANI CAMP 79	66.8	45.0	55.9		76	9	36	24		0	0	0	0	2.22		.84	29		.0	0		6	1	0			
PAHALA 21														3.30	- 2.28				.0	0							
POHAKULDA 107				.9	83	6	58	16+		0	0	0	0	1.24					.0	0							
PJAKO 95.1														2.41					.0	0							
PUU WAAWAA 94.1	82.1	64.6	73.4		86	24+	59	31		0	0	0	0	3.21	.00		1.01	29	.0	0		5	2	1			
UMIKOA 118														2.55	-10.18		1.17	29	.0	0							
UMIKOA 118														2.55	-10.18		.64	29	.0	0		6	2	0			
WAIKÉA SCD 88.2														1.84			.81	29	.0	0		6	1	0			
ISLAND			68.7											2.94					.0								

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93° ON THE 23D AT HILO WSO 87 AP, HAWAII
 LOWEST TEMPERATURE: 25° ON THE 30TH AT MAUNA LOA SLOPE OBS, HAWAII
 GREATEST TOTAL PRECIPITATION: 16.23 INCHES AT PANILEIHULU 259.2, MAUI
 LEAST TOTAL PRECIPITATION: .56 INCH AT PUU OO 82, HAWAII
 GREATEST ONE-DAY PRECIPITATION: 5.20 INCHES ON THE 5TH AT AUWAHI 252, MAUI

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The weather in March was underscored by high winds and rain during the first few days and by a later spell of dry mild weather. Trade winds were infrequent and the southerly flow that replaced them occasionally blanketed the State with volcanic haze from an eruption on Hawaii Island.

February's wind and rain continued into the first 4 days of March. Strong southerly winds converging into a low pressure area which moved from about 800 miles northwest of Honolulu on the 1st, to 450 miles north of Honolulu on the 4th, buffeted all the islands and brought widespread rain. High particulate matter measurements in Honolulu confirmed the northward spread of haze from the Mauna Ulu Volcano eruption on Hawaii Island, and the combination of haze and rain gave Hawaiian skies an unusually gloomy appearance.

Wind and rain damage was light. Some leafy crops were slightly bruised. On Oahu the southerly winds, made stronger and more turbulent in crossing the Koolau Mountains, tore shingles off a home at Punaluu; while on Hawaii Island, they unroofed a garage in Kaumana and part of a home in Puueo, and generated unusually rough seas that halted boating in Kailua Bay on the 4th and 5th. Also on the 5th a man picking opihi, a shellfish, drowned when an unexpectedly large wave swept him off the rocks near Halona Blow Hole, Oahu.

During the remainder of the month, fronts and squall lines migrating eastward across the Pacific weakened dramatically and turned northeastward just west of the Hawaiian Islands. This change in track of the weather systems, coupled with the absence of low pressure areas higher in the atmosphere and the infrequency of trade winds, gave rise to a dry spell over the ordinarily wet mountains and "windward" (relative to the northeasterly trades) slopes of the islands.

Particularly affected was the eastern third of Hawaii Island, from the Hamakua coast southward through the Hilo, Puna, and Kau Districts. On the 16th a forest fire burned about 15 acres of ohia trees and brush at Orchard Manor in Puna, Hawaii Island. On the 17th the Mayor

of Hawaii Island issued the first of three "drought disaster" proclamations, thus authorizing the trucking of emergency household water at State expense to families in Puna's Volcano and Glenwood areas, which depend upon roof catchment for domestic water supplies. The area thus designated was extended to Upper Puna, between Glenwood and Pahoa, on the 25th and 5 days later to Kapoho, Kaueleau, and Kalapana, although showers beginning on the 26th and continuing through the end of the month brought some relief.

On the evening of the 28th snow fell down to the 9,000-foot level on Mauna Loa and Mauna Kea; and on Mauna Loa, was drifted into snow banks 4 feet high by the strong southwesterly winds.

Hilo Airport recorded its driest March (see Table I) and its warmest March day of record. Only 8 days had measurable rain (.01 inch or more), as compared to a March average of 24 days; and the 93° observed on the 23d exceeded by 5° the previous March high of 88° (in 26 years of record) and came within 1° of its peak high of 94°.

On all the major islands monthly rainfall totals ran well above average in some areas and well below average in others. With southerly winds replacing the northeasterly trades for most of the month, the mean rainfall patterns were also reversed, the ordinarily drier "leeward" areas tending to be wetter than normal and the normally wetter mountain and "windward" areas drier than normal. Thus, while gages in the western sections of Kauai, Oahu, Maui, and Hawaii Island caught well over their March averages (the Lahaina, Kihei, and Waipai areas had twice their normal for March), eastern and mountain areas were relatively dry, with many stations on the windward (eastern and northeastern) slopes of Maui and Hawaii Island reporting less than 25 percent and some less than 10 percent of their average March rainfall.

As Table I shows, a number of gages with long periods of record had less rainfall than in any previous March.

H A W A I I - M A R C H 1972

SPECIAL WEATHER SUMMARY - Continued

TABLE I

Stations with Less Rain in March 1972 than
in Any Previous March

(25 years of record or more, only)

<u>Station</u>	<u>Length of Record (Yrs.)</u>	<u>Previous Least March Total (Inches)</u>	<u>March 1972 (Inches)</u>
MAUI			
Kailili	48	2.60	1.93
Keanae	68	2.33	1.80
Puohokamoa 2	50	6.53	1.40
Waikamoi	66	3.13	1.70
HAWAII			
Hilo Airport	30	2.97	.88
Honomu Mauka	61	3.16	2.89
Kulani Camp	25	3.30	2.22
Kulani School Site	25	1.13	.39
Papaikou	74	1.62	1.52
Papaikou Mauka	47	1.89	1.85
Piihonua	48	2.58	1.60
Waiakea SCD	42	3.29	1.84

TABLE II

Peak Gusts Observed During March 1-4, 1972

<u>Location</u>	<u>Peak Wind Speed (m.p.h.)</u>
KAUAI	
Barking Sands	53
Kokee	46
Lihue Airport	36
OAHU	
Honolulu Airport	30
Kaena Point	52
Kaneohe MCAS	43
MAUI	
Kahului Airport	44
HAWAII	
Hilo Airport	34

SPECIAL WEATHER SUMMARY - Continued

TABLE III

Percent of Trade Winds (NNE through E)
for March 1972 and Mean from Hourly Observation

Station	MARCH 1972 (Percent)	MEAN (Percent)
Honolulu Airport	24	63
Kahului Airport	27	46
Lihue Airport	28	61

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DAILY PRECIPITATION

Continued

HAWAII
MARCH 1972

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
		KIDOLAKAA & L F 6	6.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KIPA 89.2	1.16				.07					T	.07										.04	.05	.15	.01			.01	T		.13	.52	.11	T	
KOHALA MAULILI 176	5.96					2.78	3.26			.01	.02											.29	.42	.03						.35	1.16	.42		
KOHALA WISSIDN 175.1	6.02									.04												.34	.52	T						.52	1.06	.36		
KOIAHE LOWER 196	5.40	*	*	1.20								T	2.00													.45				*	*	1.75	*	
KONA (KAILUA) 68.3	3.14					2.00																									.93	.21		
KONA VILLAGE 93.8	3.14			1.17	.88								.03																.83	.23	.31			
KUKAIKU 222	3.15				.40	.01				.22	.01			.15								.03	.37			.28	.03	.02	1.30	.29				
KUKUIAHELE MIC 199	3.40				.86	.06			.02	.08				.25								.07	.40						1.45	.21				
KUKUIAHELE MILL 206	2.84					.70				.03				.12								.10	.43						1.30	.14				
KULANI CAMP 79	2.22				.32	.10				.04	.04															.19	.16	.39	.84	.05	.09			
KULANI MAIKA 76	1.85				.55	.13							.35															.82	.35					
KULANI SCHOOL SITE 78	.39	*	*	*	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
LANTAU 68.2	4.40					1.90	.46							.12	.16														1.45	.31				
MAKANA AU 103	3.12						1.64																							1.48				
HANUKA 2	6.90			.10		3.20											.20	T											.60	2.65	.20	*		
MAUNA LOA SLOPE OBS	2.48				.86	.70	.08																						.40	.20	.24	*		
MIDDLE HOUAALOA 68.1	5.83	*	*	*		4.18																								1.65	*	*	*	
MIDDLE PEN 147.1	2.96	*	*	*		1.51																								1.45	*	*	*	
MOAUA 18	4.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.40	
MOUNTAIN VIEW 91	1.90					.18				.11	.01						.01					.02	.08	.03					.11	.82	.49	.04		
NAALEHU 14	3.55		T	T	*	*	1.87			.15	T						.04												.88	.52	.03	*	*	
NAPPOPOH 78	2.32	*	*	*	*	2.32						T																					*	*
NEILUI 179	3.66			.02	*	1.73																.30	.43						.07	.76	.35	*	*	
ODKALA 223	4.36				.30	T				.33	.02			.01								.09	.40	.01			.36	.03	.01	.01	1.72	.44	.63	
OPHIHALE 2 24.1	4.38	*	*	T	2.38	.07	T	*	T	T	.04	T	T	.05	T	T	.10	T	T	*	*	*	*	.11	T		.55	.94	.14	T	T	*		
ORCHIO LAND EST 91.5	1.89	*	*	.17		.51	.04			.08		.23	*	.03			.02	T	*	*	*	.04	.27			.21	.04	.04	.05		1.34	.12	*	
PAAUHAU 217	2.56				.32		.15	.04		.08				.03								.04	.48	T			.09	.15	.01	.01	1.07	.12	*	
PAAULU 221	2.47						1.52			.15	T			.03								.01			.24				.38	.35	.14	*	*	
PAHALA 21	3.30		.01		*																						.17						*	
PAHOA 65	3.08	*	.19	.08		1.00				.22							.09					.05	.15	.05	.07		.27	.14	.21	.27	.28	.01	*	
PAAKAO 37	6.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.00	*
PAPAIKOU 144.1	1.52				.07	T				T												.37	.10						.07	.91	.10	T	*	
PAPAIKOU MAUKA 140.1	1.85				.15	.02					.01						.01					.08	.08	.45	T		.09		.91	.05	*	*		
PIIHONUA 89	1.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.60	*	
POHAKUUA 107	1.24	*	*	1.24																														*
PUAKO 95.1	2.41	*	*	*		.50	.11							.42																1.01	.37	T	*	
PUU KIME 120	2.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.53	*	
PUU LAU 102.1	3.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.20	*	
PUU LEHUA 73	4.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.50	*	
PUU MAI 113	1.63	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.63	*	
PUU OO 82	.56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.56	*	
PUU WAAWA 94.1	3.21	*	*	*	.79	.12				.03			.07																.23	.30			*	
SAOOLE ROAD 1 84	4.19	*	*	.25	*	*	*	*	*	*	3.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	*	*	*	*	*	1.30	T	
SOUTH POINT CORRAL 3	.47	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.47	*	
UMIKOA 118	2.55	*	*	*		.63				.26				.02															.05	.64	.27	.47	*	
UPOLU POINT USCG 159.2	4.21	T	T		1.08	.07																.10	.14					.05	.12	.16	1.89	.77	*	
WAIKAEA SCO 88.2	1.84	*	*	*		.15				.04							.03					.03	.02	.15	T		.13	.06	.01	.16	.81	.20	.05	

SUPPLEMENTAL DATA

	Wind (Speed - m.p.h.)						Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine		
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset
							02	08	14	20									
HILO WSO 87 AP	14	2.7	7.3	29	SE	02	85	74	62	82	5	5	3	0	0	13	54	6.2	
HONOLULU WSO 703 AP	20	2.3	10.9	26	E	19+	82	78	65	74	7	4	3	0	1	15	74	6.0	
KAHULUI WSO 398 AP	16	1.6	9.3	31	SW	03	88	82	64	82	4	3	3	0	1	11	65	5.2	
LIHUE WSO 1020.1 AP	19	1.9	8.7	29	SW	02	86	80	67	77	5	7	3	0	1	16	62	5.9	

DAILY TEMPERATURES

HAWAII
MARCH 1972

Station	Day of Month																															Average			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
ISLAND OF KAUAI																																			
KANALOHUHU 1075	MAX MIN	65 57	60 57	63 54	63 52	62 51	62 52	61 55	63 46	73 40	69 41	69 54	70 46	67 53	68 55	68 52	68 44	70 43	71 41	68 45	62 45	62 41	65 49	63 45	65 48	65 50	64 45	61 51	59 49	60 44	64 36	64.9 48.1			
KILAUEA POINT 1133	MAX MIN	74 67	72 69	74 67	80 69	75 68	80 70	74 68	80 69	77 71	80 75	76 69	75 69	81 69	82 71	81 69	77 71	81 71	75 72	80 69	76 69	79 70	85 68	79 70	78 64	79 70	78 62	78 62	75 60	74 65	75 68	78 62	77.7 68.4		
LIMUE WSD 1020.1 AP	MAX MIN	78 73	75 67	76 69	78 62	78 62	81 65	81 65	75 60	77 60	83 65	83 60	80 60	81 68	86 78	87 67	80 62	80 66	80 67	80 67	79 73	81 72	81 71	80 67	81 63	80 65	79 70	79 72	81 71	80 65	79 62	79 66	81 58	81.9 66.9	
MAKAHUEA POINT 940.1	MAX MIN	83 73	75 60	75 66	80 64	77 67	77 64	80 65	80 61	79 60	82 65	84 61	85 60	83 65	85 71	84 70	87 67	82 63	84 65	83 70	81 70	80 72	85 71	89 65	80 65	80 62	84 66	81 62	85 66	85 66	81 66	85 62	81 58	81.9 66.9	
HANA 1026	MAX MIN	82 72	81 71	73 65	77 64	78 64	79 62	80 62	82 58	77 58	80 61	82 61	87 61	81 62	85 69	89 64	84 61	85 60	89 59	82 60	83 60	85 60	84 62	87 64	84 62	81 62	80 66	81 66	82 63	83 62	80 63	81 62	79 58	78 58	81.6 63.3
NIU RIDGE 1035	MAX MIN	76 60	78 65	79 62	78 63	77 60	75 59	73 64	74 63	73 55	76 63	78 65	79 65	80 63	78 65	78 65	80 60	79 60	78 60	81 61	80 56	79 60	80 65	78 61	75 65	76 66	78 63	77 62	75 63	75 62	72 58	75 58	77.1 60.7		
WAIAMI LOWER 1054	MAX MIN	71 69	71 68	71 60	73 58	71 60	79 58	82 67	82 60	83 60	85 60	83 65	82 58	81 60	84 67	80 64	82 55	82 57	82 58	80 65	78 59	79 60	80 65	80 64	81 57	81 58	78 55	75 56	77 56	76 51	78 47	78.7 59.5			
ISLAND OF OAHU																																			
EWA PLANTATION 741	MAX MIN	81 69	79 69	77 65			79 60	82 65	82 57	77 55	77 58			84 59	83 62	84 61	84 59			83 59	81 59	82 63	83 68	80 58			83 56	84 57	79 62	79 54	79 54	81.1 60.7			
HONOLULU WSD 703 AP	MAX MIN	77 71	75 69	73 66	76 65	77 65	80 63	81 69	77 63	77 60	80 65	80 67	80 65	80 68	80 66	82 65	83 66	83 66	84 68	85 69	80 65	81 71	81 70	80 64	81 66	80 62	79 68	77 68	80 62	79 60	79 61	79 61	79.6 65.9		
HONOLULU SUBSTA 704	MAX MIN	77 72	74 69	69 67	75 68	76 67	76 67	79 69	75 65	75 65	80 70	78 68	81 68	77 71	77 70	82 69	79 69	80 69	78 69	79 70	78 68	79 71	78 68	78 66	77 66	77 67	77 66	76 65	74 63	73 64	75 65	77.1 68.0			
KAHUKU 912	MAX MIN																																		
KANEHOU MAUKA 781	MAX MIN	80 71	77 70	78 68	75 67	79 67		81 65	78 61	77 66	76 65	78 68	77 67	77 66	78 67	78 67	77 65	79 63	75 63	79 69	75 64	75 64	76 64	82 68	81 68	85 65	74 68	75 67	77 70	79 70	78 68	75 65	77.7 66.6		
LUALUALAI 804	MAX MIN	81 72	78 62	78 66	78 65	78 65	76 69	80 60	79 59	79 60	80 65	82 66	81 64	82 66	80 65	82 64	82 64	82 64	84 65	84 64	81 64	83 65	80 63	76 63	80 63	81 62	80 62	81 62	80 62	76 64	78 64	77 58	79.9 64.5		
MAKAPUU POINT 724	MAX MIN	77 70	73 64	71 66	75 66	77 66	75 66	76 65	76 65	74 66	79 66	79 68	80 67	79 68	78 68	77 68	78 69	78 69	78 69	76 68	76 68	76 68	79 69	79 67	80 66	79 67	80 67	71 64	74 63	72 63	73 63	76.4 66.0			
OPAEULA 870	MAX MIN	80 62	75 60	75 59	73 62	73 62	80 57	80 59	80 66	73 66	71 64	78 61	79 61	80 59	80 58	80 58	80 58	80 61	80 61	80 59	80 58	80 58	80 58	80 58	80 58	80 58	80 58	80 58	80 58	80 58	81 58	81 55	81 55	78.5 59.4	
PRI WAIKAWA 820.2	MAX MIN	78 68	80 68	72 65	72 64	78 60	78 59	76 62	76 60	76 54	79 54	82 62	85 60	82 61	82 61	82 61	82 59	82 58	82 58	80 61	85 58	80 58	83 61	79 61	77 57	80 58	80 56	81 61	81 56	80 56	81 53	81 54	79.4 59.7		
WAIALEE 896.3	MAX MIN	81 70	81 72	79 68	77 66	78 67	78 68	79 66	77 66	77 67	79 65	81 66	81 67	82 66	83 66	82 66	83 66	81 68	81 68	81 67	82 67	82 68	81 68	82 68	82 68	80 68	79 66	81 66	81 64	78 64	76 62	76 62	79.6 66.2		
WAIALUA 847	MAX MIN	80 70	82 66	80 65	74 65	77 64	75 62	81 63	77 63	75 65	78 57	84 58	78 62	81 60	85 63	85 62	81 61	83 58	84 58	82 60	81 59	81 59	84 59	81 58	81 58	81 58	81 58	81 58	81 58	81 58	81 58	81 58	81.1 61.3		
WAIKIKI 717.2	MAX MIN	80 72	80 67	75 66	72 66	80 66	80 65	82 59	83 64	83 66	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83 63	83.7 65.7		
WAIMANALO EXP FARM	MAX MIN	78 71	78 68	75 67	75 63	78 65	78 65	81 67	81 59	78 59	78 61	80 64	83 65	80 64	81 64	83 65	80 64	81 64	80 64	80 64	80 64	79 64	80 64	79 64	80 64	79 64	80 64	80 64	81 64	81 64	81 64	81 64	78.8 64.6		
ISLAND OF MOLOKAI																																			
MOLOKAI AP 524	MAX MIN	78 71	78 70	76 70	71 68	75 69	76 66	78 66	79 64	74 61	75 69	78 66	78 67	80 65	80 65	79 63	79 63	82 67	82 68	80 70	78 65	77 65	81 66	78 67	77 66	78 67	79 67	75 65	71 65	69 58	73 58	77.0 66.1			
ISLAND OF LANAI																																			
LANAI CITY 672	MAX MIN	74 66	78 64	72 63			72 60	73 60	72 59	72 56	78 57			79 59	79 60	77 58	78 58			78 58	79 59	79 59	79 60			78 59	79 59	79 60					78.8 65.5		
ISLAND OF MAUI																																			
HALEAKALA RS 338	MAX MIN	63 45	68 46	68 47	63 50	55 41	55 45	59 47	56 51	67 50	69 46	68 46	66 44	66 43	64 39	63 41	61 39	60 38	61 38	67 44	68 44	69 42	72 39	62 41	62 43	55 34	56 34	54 38	55 45	53 41	48 38	52 37	61.5 42.5		
HALEAKALA SUMMIT 338.4	MAX MIN	52 39	58 42	57 42	47 34	44 27	42 37	47 39	51 42	52 42	48 44	50 37	53 38	58 39	58 38	53 37	54 37	54 37			60 51	60 45	55 44	60 43	55 43	49 32	56 30	46 34	42 36	41 30	40 32	51.8 38.4			
HANA AIRPORT 355	MAX MIN	82 60	82 64	83 66	82 67	82 64	82 67	83 64	85 62	77 58	79 58	82 64	84 66	83 62	83 62	83 62	83 64	83 64	83 64	82 68	82 68	82 68	81 65	83 61	86 69	79 63	77 61	79 65	81 63	70 60	79 60	80 60	81.2 63.0		
KAANAPALI AIRPORT	MAX MIN	80 69	79 69	81 73	77 67	76 71	76 67	78 70	78 64	76 60	78 65	80 69	80 75	80 66	80 65	80 66	80 66	80 66	80 66	81 66	80 66	79 63	81 63	80 63	79 63	80 63	79 63	80 63	76 63	72 60	70 60	76 60	78.5 65.5		
KAHULUI WSD 398 AP	MAX MIN	81 63	83 67	78 70	79 69	83 65	79 65	81 70	76 60	80 56	83 65	82 65	82 65	81 62	82 61	82 61	85 59	86 62	83 62	83 61	83 61	82 61	80 67	83 67	82 67	81 67	81 67	83 67	83 67	81 67	80 67	81 67	81.1 62.9		
KAILUA 446	MAX MIN	79 62	79 62	79 63	78 66	80 65	82 61	80 62	82 62	82 57	78 59	78 61	78 62	78 62	78 62	78 62	77 62	76 64	76 64	75 64	75 64	75 64	78 62	81 62	81 62	81 62	76 62	76 60	77 60	77 60	78 60	78 57	77.0 61.6		
KEAWAKAPU BEACH 260.2	MAX MIN	86 65	84 66	85 73	80 70	77 68	80 64	83 70	82 62	80 60	82 60	85 62	85 62	85 61	85 61	85 61	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	85 60	82.9 62.8	

See Reference Notes Following Station Index

DAILY TEMPERATURES

Continued

HAWAII
MARCH 1972

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KULA SANATORIUM 267	MAX	70	70	80	74	68	68	69	69	68	70	72	75	72	70	74	70	68	71	72	69	70	68	71	71	71	70	69	69	66	62	68	70.1	
	MIN	56	57	61	62	62	56	57	53	51	52	57	56	57	56	57	56	54	55	55	52	53	55	58	60	57	57	56	59	57	50	51	55.9	
LAHAINA 361	MAX	82	80	78	77	81	81	81	82	80	82	83	84	84	83	83	83	83	84	84	83	84	83	81	82	80	82	79	76	73	80	82	81.3	
	MIN	69	70	73	69	69	68	70	62	60	67	64	64	63	65	64	64	63	64	63	63	63	64	65	67	64	62	64	66	64	59	59	64.9	
MAILUKU 386	MAX	83	80	82				82	80	80	74	77		82	79	83	79	79			80	78	79	83	82			80	79	71	71	79.2		
	MIN	64	65	72				63	69	62	59	62		64	67	66	67	68			67	66	65	67	66			63	65	64	60	65.0		
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX	80	83	81	81	80	82	80	81	74	75	80	80	79	80	82	80	80	79	78	80	76	79	82	83	79	79	80	80	75	71	80	79.3	
	MIN	59	65	65	65	59	64	64	68	60	62	65	64	64	65	62	62	66	62	64	64	65	63	63	64	64	63	64	67	66	65	64	59	63.6
HAWAII VOLCONS NP HO 54	MAX	68	69	66		65	74	73	75	69	70	71	74	72	72	73	69	70			70	67	67	68	68	65	69	70	68	70	62	58	67	68.9
	MIN	50	54	55		55	54	51	55	52	50	49	49	46	47	50	50	52			51	51	50	52	52	48	51	50	44	52	54	52	48	50.8
HILO WSO 87 4P	MAX	86	86	82	86	82	83	85	76	82	82	86	85	85	84	83	83	84	84	84	83	83	83	83	87	84	86	88	81	73	81	80	83.7	
	MIN	60	69	70	65	67	61	65	68	66	57	65	63	61	60	60	61	63	65	65	66	65	62	64	64	64	64	63	66	66	62	64	63.9	
KAINALIU 73.2	MAX	77	78	81	79	73	76	75	77	75	76	78	78	77	75	72	76	77	76	77	76	72	74	79	79	77	80	77	77	71	66	78	76.1	
	MIN	57	59	63	63	63	54	60	60	55	57	60	62	60	61	59	58	60	59	61	62	62	62	60	59	60	59	59	60	58	55	57	59.5	
KAMUELA 192.2	MAX	78	79	75	75	75	70	73	74	74	74	75	78	76	78	75	75	71	75	72	70	70	73	73	75	75	73	75	74	70	69	70	73.8	
	MIN	49	56	55	57	56	52	55	58	44	47	44	52	48	51	46	49	56	57	55	56	55	48	45	45	47	45	45	48	53	50	42	50.8	
KEAAU 92	MAX	81	83	83	78	82	82	81	83	74	80	84	84	81	82	83	81	80	81	81	81	80	80	84	88	84	83	85	82	79	69	78	81.2	
	MIN	61	59	55	63	63	63	63	65	65	58	60	63	61	60	62	61	62	64	63	64	64	62	63	64	64	61	62	61	63	62	62	62.0	
KEALAKEUA 26.2	MAX	78	79	82	79	74	76	76	78	76	77	78	79	80	78	72	78	78	78	79	75	72	75	80	79	78	80	79	78	71	66	78	77.0	
	MIN	58	61	63	64	63	56	60	61	59	59	61	63	61	62	60	60	61	60	63	64	62	63	63	61	61	61	61	60	59	57	57	60.8	
KOHALA MISSION 175.1	MAX	80	81	80	83	79	78	78	81	78	75	80	81	78	80	81	79	78	78	78	78	74	79	81	83	80	79	82	82	73	70	77	78.8	
	MIN	63	63	64	65	65	62	68	67	60	61	62	64	63	64	62	63	65	64	65	64	63	62	62	64	63	62	61	63	61	60	56	62.9	
KONA (KAILUA) 68.3	MAX	83	84	85			82	80	84	82	83			84	80	81	83	82			84	81	83	84	84			83	83	76	73	82	82.0	
	MIN	65	65	66			64	64	66	65	65			66	68	65	66	67			67	71	70	66	68			66	69	63	62	60	65.8	
KULANI CAMP 79	MAX	71	71	70	68	68	68	72	72	76	68	74	75	67	65	63	64	64	65	65	65	63	64	66	69	66	67	64	65	65	50	51	66.8	
	MIN	45	52	49	52	52	49	50	46	46	49	46	47	42	44	42	42	44	40	42	47	46	40	42	36	45	47	40	46	49	40	37	45.0	
MAUNA LOA SLOPE OBS	MAX	56	58	53	51	42	42	48	51	54	52	50	50	50	47	49	52	58	58	57	60	57	57	56	53	49	52	56	45	34	38	44	50.9	
	MIN	36	42	37	32	31	34	38	35	36	33	32	30	29	29	30	33	37	41	38	40	40	37	34	35	35	35	36	32	28	25	30	34.2	
MOUNTAIN VIEW 91	MAX	77	78	76	79	79	79	80	82	68	79	81	81	81	79	82	80	80	79	79	79	76	76	76	80	80	80	80	78	73	67	73	78.0	
	MIN	61	58	64	58	58	58	59	58	60	53	54	54	54	56	55	55	56	58	58	58	60	59	58	58	57	55	55	55	59	56	55	57.2	
NAALEHU 14	MAX	78	79	79	79	82	82	81	80	80	77	77	82	82	78	79	78	78	78	78	78	77	77	78	81	81	80	80	79	72	75	75	78.7	
	MIN	66	67	67	67	64	64	64	65	64	62	62	63	63	62	62	63	63	63	63	65	65	67	62	62	62	59	59	62	66	60	60	63.4	
OOKALA 223	MAX	79	81	79	80	80	79	78	80	74	72	79	80	79	78	80	79	80	72	78	78	78	78	78	78	78	78	78	80	74	70	79	77.8	
	MIN	62	63	64	64	64	62	62	64	60	61	65	66	64	62	61	62	63															60	
OPIHIHALE 2 24.1	MAX	79	80	82	80	79	75	77	74	75	78	79	80	74	75	77	74	78	79	77	72	75	79	79	80	78	78	78	78	74	78	76	77.3	
	MIN	60	60	58	59	63	57	59	55	56	56	57	60	63	58	58	58	59	60	62	57	57	53	54	55	56	56	55	56	56	53	54	57.4	
PAHAHA 21	MAX	79	80	81			83	80	81	74	77			81	76	79	80	80			79	77	80	80			79	78	73	73	73	78.5		
	MIN	62	63	64			63	63	63	64	59			58	60	60	58	60			60	61	64	61	59		59	61	61	59	59	61.0		
PUAKO 95.1	MAX	84	82	83	84	82	80	78	84	82	81	83	85	84	83	83	83	83	84	84	86	83	84	86	82	82	82	81	78	69	81	82.1		
	MIN	64	67	66	68	67	61	65	67	61	64	65	65	65	68	62	63	66	66	67	68	66	67	62	63	64	62	61	67	62	60	59	64.6	
UPOLO POINT USCG 159.2	MAX	81	81	84	83	78	79	80	82	82	82	80	82	79	85	84	81	80	81	81	81	80	80	82	83	84	82	82	82	83	75	73	78	81.0
	MIN	70	71	69	72	65	72	72	71	67	72	69	67	72	72	70	69	70	68	70	68	70	71	68	70	70	71	68	69	64	65	66	69.3	

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.21	.11	-	.14	.21	.26	.26	.29	.11	.25	.26	.24	.24	-	.19	.20	.24	.31	.29	.36	.29	.28	.22	.35	.31	.30	.05	.10	.07	.21	.28	7.098
	WIND	194	190	124	67	133	69	100	71	53	105	88	74	66	108	81	57	58	65	132	189	148	117	151	84	88	75	60	57	66	66	91	3027
	MAX	78	72	64	77	71	78	79	81	72	78	81	84	83	78	81	82	83	85	84	79	79	81	82	82	78	78	74	68	72	75	75	77.9
	MIN	65	62	59	56	54	54	54	52	51	51	58	57	57	60	61	55	55	58	59	58	58	58	58	60	55	55	54	54	54	51	46	56.0
* * *																																	
ISLAND OF OAHU																																	
HONOLULU DRSEV 702.2	EVAP	.19																															

STATION INDEX

HAWAII
MARCH 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE I	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE I	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII																									
MOAULA 18	A 4407	03 KAU			3 19 11	155 30	600					HAWAIIAN RANCH CO	PIU LAU 102.1	A 8452	05 HAWAIIA		5 19 50	155 36	7440				STATE DIV OF FISH-GAME		
MOUNTAIN VIEW 91	A 6552	02 PUNA			2 19 33	155 07	1530	8A	8A			PUNA SUGAR CO	PIU LEMUA 73	A 8460	04 N KOHA		4 19 34	155 49	4880				W.M. GREENWELL RANCH		
NAALUHI 14	A 6588	03 KAU			8 19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO	PIU MALI 113	A 8515	01 HAWAIIA		1 19 55	155 28	6940				KURIAU RANCH CO		
NAPOOPOO 28	A 6697	04 S KOHA			4 19 28	155 55	395		7A			KONA EXPERIMENT STA	PIU OO 82	A 8550	02 S HILD		2 19 44	155 23	6340				MISS JACKIE BENLEHR		
NIULII 179	A 6806	01 N KOHALA			1 20 14	155 45	75		4A			KOHALA CORPORATION	PIU WAAWA 94.1	A 8555	05 N KOHA		5 19 47	155 31	2520				DILLINGHAM RANCH INC		
OKALA 223	7131	02 N HILD			2 20 01	155 17	+30	7A	7A			LAUPAHEHE SUGAR CO	SADOLE ROAD 1 84	A 8550	02 S HILD		2 19 42	155 12	2340				BOARD OF WTR SUPPLY		
OPINIALE 2 24.1	7166	04 S KOHA			4 19 16	155 59	1270	7A	7A			MISS S. LEONARD	SOUTH POINT CORRAL 3	A 8675	03 KAU		3 18 57	155 41	500				HAWAIIAN RANCH COMPANY		
ORCHARD LAND EST W1.5	A 7180	02 PUNA			1 19 34	155 00	445	VAR	VAR			BOARD OF WATER SUPPLY	UMIKO 118	8780	01 HAWAIIA		1 19 59	155 23	3420				KURIAU RANCH CO		
PAUHAU 217	7204	01 HAWAIIA			1 20 05	155 26	415	7A	7A			PAUHAU SUGAR CO	UPOU POINT USCC 159.2	8830	01 N KOHALA		3 20 15	155 53	61				U S COAST GUARD		
PAUHILO 221	7312	01 HAWAIIA			1 20 03	155 22	800	7A	7A			HAWAIIA HILL CO	WAIKAEA SCO 88.2	9025	02 S HILD		2 19 40	155 08	1050				SHINICHI KANESHIRO		
PAHALA 21	A 7421	03 KAU			1 19 12	155 29	870	8A	8A			HAWAIIAN AGR CO	WAIKANONUIA 174.6	9350	01 N KOHALA		1 20 08	155 47	3830				KAHUA RANCH		
PAHOA 85	A 7457	02 PUNA			2 19 30	154 57	670	8A	8A			PUNA SUGAR COMPANY	CLOSED STATIONS												
PAHOA 87	A 7463	03 KAU			3 19 22	155 28	5000					HAWAIIAN RANCH CO, INC.	ISLAND OF MAUI												
PAPAIAO 144.1	7711	02 S HILD			2 19 47	155 06	200		7A			HAUNA KEA SUGAR CO.	OLDOWALU GULCH 377	A 7006	04 LAHAINA		4 20 51	156 36	800				CLOSED 2/29/72		
PAPAIAO MAUI 140.1	7721	02 S HILD			2 19 47	155 08	1270		7A			HAUNA KEA SUGAR CO.	PIU KUKUI MAHAI 472	A 8444	04 LAHAINA		4 20 55	156 38	2500				CLOSED 2/29/72		
PEPEKEE MAUI 144	8000	02 S HILD			2 19 51	155 05	100		7A			CLOSED 2/29/72	ISLAND OF HAWAII												
PIHONUA 89	A 8051	02 S HILD			2 19 44	155 10	1730		VAR			STATE DIV OF FORESTRY	PEPEKEE MAHAI 144	8000	02 S HILD		2 19 51	155 05	100					CLOSED 2/29/72	
POWAKUKI 107	A 8083	02 HAWAIIA			1 19 35	155 31	6511					ERWIN H. RAPP													
PUAKO 95.1	A 8184	05 KOHALA			5 19 59	155 50	5	8A	8A			KURIAU RANCH CO													
PUU KIH 120	A 8393	01 HAWAIIA			1 19 54	155 24	7750																		

↓ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following Station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- + Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shows following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- W One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletins they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

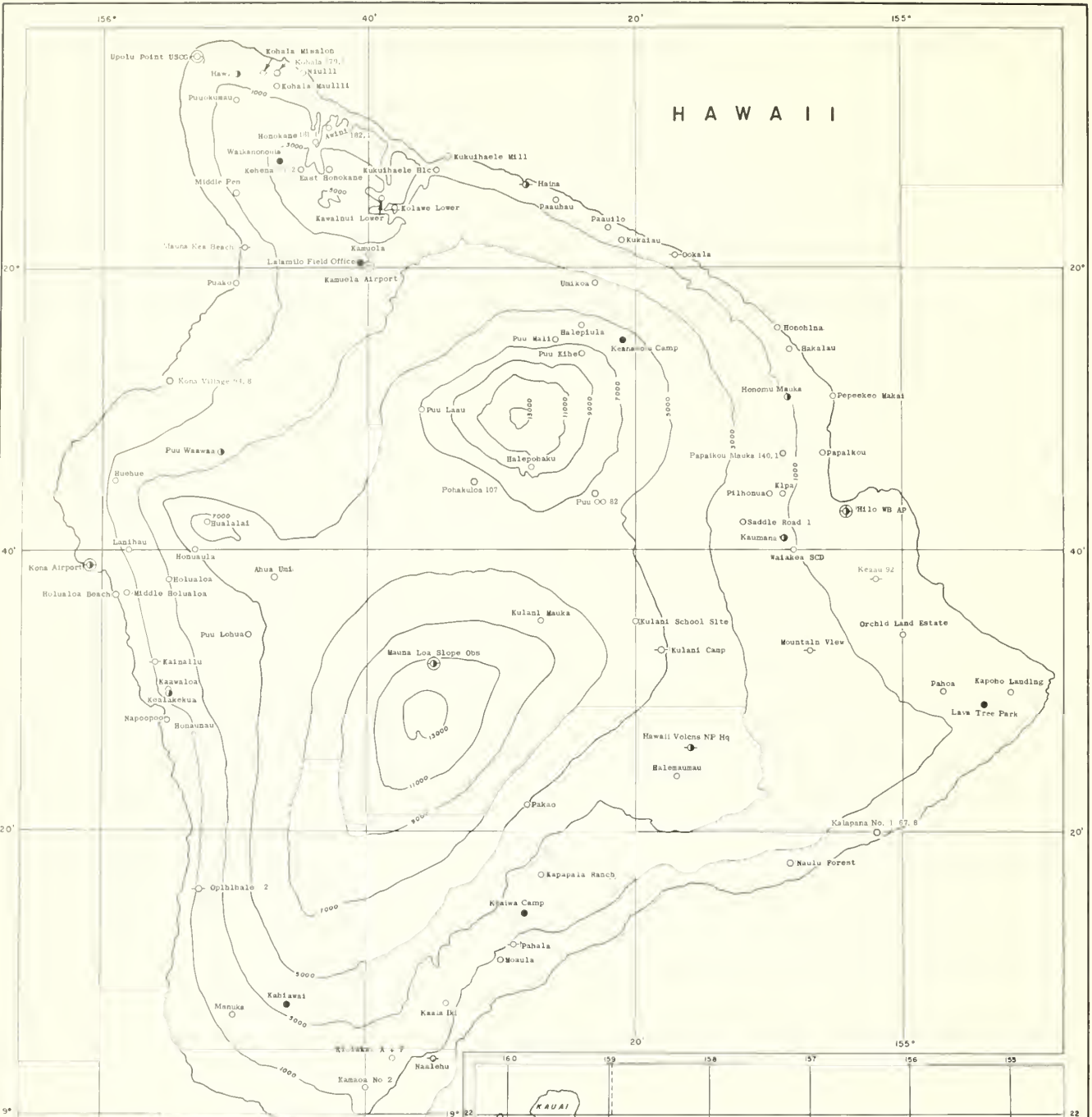
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Resittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center
USCOMM-NOAA-ASHEVILLE, N. C. 6/28/72-890



HAWAII

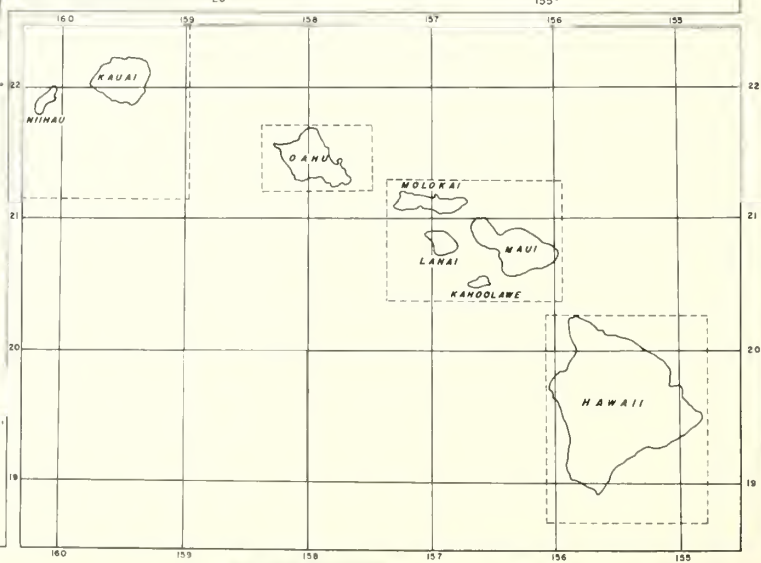
PLATE 2
STATUTE MILES



STATION LEGEND

- ● ① Precipitation only
- ⊕ Precipitation, storage
- ● ① Precipitation and Temperature
- ⊕ ● ① Precipitation, Temperature and Evaporation
- Non-recording,
- Recording ① Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time



U.S. DEPARTMENT OF COMMERCE
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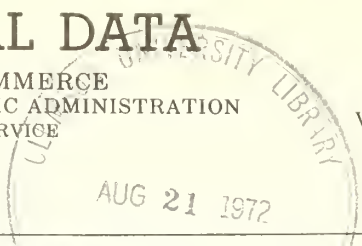
CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 ENVIRONMENTAL DATA SERVICE

APRIL 1972

Volume 68 No. 4



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days			Total	Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days					
										80° or Above	85° or Above	90° or Above					Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More			
	Max.	Mn.	Total	80° or Above	85° or Above	90° or Above	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More												
* * * ISLAND OF KAUAI																								
ANAOHOLA 1114	A																							
KANALOHULUHULU 1075	A	66.8	51.6	59.2		72	19	39	1	0	0	0	0	15.01	10.90		3.50	14	.0	0		8	3	3
KAPAA STABLES 1104	A													8.59										
KILAUEA FIELD 17 1135	A													16.67										
KILAUEA POINT 1133	A	76.3	68.5	72.4		84	16	62	26	0	0	0	0	14.00	6.19		2.30	14	.0	0		9	4	3
* * * ISLAND OF OAHU																								
KOLOA 936	A													10.47	5.74									
LIHUE WSO 1020.1 AP	//R	78.1	69.9	74.0	1.5	81	30+	60	1	0	0	0	0	10.65	7.31		5.33	15	.0	0		7	4	3
MANA 1026	A	83.5	62.6	73.1	.4	87	29+	59	27+	0	0	0	0	3.80	2.55		1.91	16	.0	0		5	2	2
N WAILUA OITCH 1051	A													28.89										
PH WAINIHA 1115	A													8.33	- 3.94		1.67	9	.0	0		14	6	2
PUEHU RIGGE 1040	A													6.38			2.58	16	.0	0		7	3	2
WAHIAWA 930	A	75.5	62.7	69.1		79	29+	57	1	0	0	0	0	6.71	4.79		7.46	16	.0	0		20	9	3
WAIHI LOWER 1054	A													18.96			3.39	16	.0	0		4	3	3
WAIIMEA 947	A													7.26	6.13									
* * * ISLAND OF MOLOKAI																								
HONOLULU OBSERV 702.2	R	81.1	68.8	75.0	.8	84	30+	62	1	0	0	0	0	3.71			3.12	15	.0	0		3	1	1
HONOLULU WSO 703 AP	A													5.15	3.84		3.90	14	.0	0		5	2	1
KAHUKU 912	A													9.96	7.11									
KANEHE MAUKA 781	A	78.1	67.5	72.8	.3	83	27	65	7+	0	0	0	0	13.77	8.24		5.30	25	.0	0		15	7	2
KODIAU DAM 833	A													13.76	6.81		3.75	15	.0	0		18	7	4
* * * ISLAND OF MAUI																								
LUALUALEI 804	A	80.6	67.8	74.2		84	18	59	3	0	0	0	0	3.69										
MAKAPUU POINT 724	A	74.9	66.5	70.7		79	15	58	6	0	0	0	0	2.11	.33		.90	15	.0	0		5	1	0
NUUANU RES 4 783	A													15.24	5.23		3.34	14	.0	0		17	11	3
OPAEULA 870	A	72.7	60.1	66.4	- 1.6	82	3	56	1	0	0	0	0	7.51	3.35		3.40	15	.0	0				
PAOLO VALLEY 718	R													15.64	3.13		2.66	14	.0	0		17	11	6
* * * ISLAND OF HAWAII																								
PRI WAHIAWA 820.2	A	78.4	62.1	70.3		84	18	53	3	0	0	0	0	7.19										
WAHIAWA OAM 863	A													5.07										
WAIHOLE 837	A													20.55	7.25									
WAIALEE 896.3	A	77.7	66.8	72.3		82	14	62	1	0	0	0	0	6.76			2.03	17	.0	0		8	3	3
WAIALUA 847	A	78.4	62.0	70.2	- 1.3	84	14	54	2	0	0	0	0	4.75	3.03		2.10	15	.0	0		6	3	2
WAIKIKI 717.2	A	80.6	67.8	74.2		84	19	61	1	0	0	0	0	4.07			2.00	15	.0	0		6	3	1
WAIMANALO EXP FARM	A	78.1	67.8	73.0		82	14	59	1	0	0	0	0	5.28			2.21	15	.0	0		6	3	2
WAIPAHU 750	A													7.43	5.55									
* * * ISLAND OF HAWAII																								
KUALAPUU 534	A													.89	- 2.17									
MAPULEHU 542	A													2.80	-.25		.34	2	.0	0		13	0	0
MAUNALO 511	A													1.38	-.93									
MOLOKAI AP 524	A	77.0	67.0	72.0		80	20+	61	13	0	0	0	0	.87			.40	15	.0	0		2	0	0
* * * ISLAND OF LANAI																								
LANAI CITY 672	A	73.5M	58.8M	66.2M	- .8					0	0	0	0	1.84	- 1.08									
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A													9.07	1.11		2.80	10	.0	0		11	5	3
HALEAKALA RS 338	A	59.1	41.1	50.1		64	24+	36	26+	0	0	0	0	5.23			3.05	10	.0	0		7	2	1
HANA AIRPORT 355	A	78.8M	65.7M	72.3M		81	27+			0	0	0	0	6.45			1.52	7	.0	0		14	4	1
HONOKOHU 493	A													2.42	-.76									
KAA NAPALI AIRPORT	A	79.7M	66.1M	72.9M		84	18	61	1	0	0	0	0				.46	16	.0	0		2	0	0
KAHULUI WSO 398 AP	R	82.6	64.5	73.6	.2	85	18+	57	1	0	0	0	0	.30	- 1.14		.06	15	.0	0		0	0	0
KAIUA 446	A	73.9	63.1	68.5	-.6	78	26+	58	1	0	0	0	0	11.48	-.05		1.52	29	.0	0		21	11	3
KEANAE 346	A													21.90	- 3.20									
KIPAHULU 258	A													8.36	1.32		2.14	13	.0	0		16	4	2
KULA SANATORIUM 267	A	69.9	55.5	62.7	.7	74	16+	50	12	0	0	0	0	2.88	.19		1.90	17	.0	0		4	1	1
LAHAINA 361	A	82.9	64.5	73.7		86	17	60	1	0	0	0	0	.46	-.59		.45	15	.0	0		1	0	0
PAIA 406	A													1.24	- 1.89		.19	23	.0	0		6	0	0
WAILUKU 386	A													.70	- 2.00									
* * * ISLAND OF HAWAII																								
HAENA 214	A	76.3	64.2	70.3	-.3	80	15	60	12	0	0	0	0	4.66	- 3.01		.97	2	.0	0		13	2	0
HAWAII VOLCONS NP HO 54	R	63.7M	52.3M	58.0M	- 1.1	69	15	48	25	0	0	0	0	16.10	7.70		2.24	9	.0	0		23	12	4
HILD WSO 87 AP	R	79.3	66.0	72.7	1.1	85	14	60	28	0	0	0	0	17.79	5.87		3.57	1	.0	0		25	8	4
HUEHUE 92.1	A													1.09										
KAINALIU 73.2	A	75.5	60.7	68.1		79	17+	58	28+	0	0	0	0	3.07	- 2.59		.43	25	.0	0		9	0	0

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
										90° or Above	32° or Higher	32° or Higher	0° or Below											
KEAAU 92	76.3	63.6	70.0	- 1.1	81	28+	59	30		0	0	0	0	21.20	8.78	4.50	2	.0	0		29	11	5	
KEALAKEUA 26+2	75.7	61.8	68.8		80	19+	59	13+		0	0	0	0	3.97		1.61	20	.0	0		11	2	1	
KONA (KAILUA) 68.3										0	0	0	0	1.43				.0	0				0	0
KUKUIHAELE HIC 199										0	0	0	0	6.21	- 3.02	1.11	8	.0	0		15	6	1	
KULANI CAMP 79	60.1M	46.8M	53.5M				38	1		0	0	0	0	20.39		3.50	10	.0	0		27	11	7	
PAHALA 21					79	17				0	0	0	0	6.59	3.43			.0	0					
POHAKULOA 107										0	0	0	0	2.37				.0	0					
PUAKE 95.1					87	9	62	1		0	0	0	0	.11		.06	17	.0	0		0	0	0	
PUU WAAWAA 94.1														.14	- 2.16			.0	0		0	0	0	
UMIKOA 118														12.28	2.95	5.67	10	.0	0			4	3	
WAIKOA SCD 88.2														31.94		6.46	17	.0	0		26	15	9	
ISLAND			67.1											9.33				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 9TH AT KEAWAKAPU BEACH 260.2, MAUI
 LOWEST TEMPERATURE: 21° ON THE 27TH AT HALEAKALA SUMMIT 338.4, MAUI
 GREATEST TOTAL PRECIPITATION: 43.08 AT KIPA 89.2, HAWAII
 LEAST TOTAL PRECIPITATION: .00 AT 2 STATIONS
 GREATEST ONE-DAY PRECIPITATION: 9.50 ON THE 2D AT KIPA 89.2, HAWAII

HAWAII - APRIL 1972

SPECIAL WEATHER SUMMARY

April in Hawaii frequently straddles the seasons, uncertain whether to become part of winter or summer. This year it chose to be both. Although never very severe, the weather was highly varied, running the gamut from gusty trade winds to thunderstorms, waterspouts and funnel clouds, hail, flooding and drought-relieving rains, and high waves that caused several boating accidents and deaths.

April's proverbial showers began on the very first day of the month, when welcomed downpours brought 24-hour rainfall totals ranging from 1.74 inches at Pahoa to 7.86 inches at Honomu Mauka and ended a dry spell that had led to designating portions of eastern Hawaii Island a drought disaster area the previous month.

A brief chronology of the month's more significant weather-related events follows.

APRIL 5. A Catholic nun, twice swept into the ocean from rocks near Fleming's Beach, Lahaina, Maui, was rescued twice but succumbed to her injuries 10 days later.

APRIL 10 and 11. Gusty northeasterly trade winds from a strong high pressure area 1,000 miles to the north, buffeted the islands. Damage was minimal: some vegetable crops bruised; and roof damage to an apartment house in Honolulu's Kapiolani district (\$8,000), leaving five families temporarily homeless, and to an industrial building in Kakaako, Oahu. At Waimea-Kohala Airport shortly after noon on the 11th, 35 to 45 m.p.h. trade wind gusts flipped over a light aircraft turning to taxi for takeoff. The pilot, the only one aboard, was uninjured, but the aircraft's tail section was damaged and later its wing while being righted.

APRIL 12. During the evening two narrow funnel clouds (not reaching the sea surface) were sighted about 7 miles northeast of Lihue Airport, Kauai, while other less well-defined funnels appeared to form and dissipate along the cloud base.

APRIL 14-17. Oahu and Kauai experienced minor flooding and damage from thunderstorms and occasionally heavy rain associated with a surface band of low pressure (trough) that extended from a low pressure center 400 miles northwest of Honolulu. During that period, peak 1-hour rainfall intensities exceeded 1.5 inches at many gages, 2 inches at some, and reached 3.10 inches at a gage in Oahu's Pearl City Terrace area. Twenty-four-hour rainfall totals of 6.52 inches and 4.21 inches set new April records at Honolulu Airport and Lihue Airport, respectively.

APRIL 15, ON KAUAI:

1. Lightning struck Kauai Electric Company's Lihue substation during the morning, leaving almost the entire island without power for 2 hours. Lightning also shattered a TV antenna pole in Hanamaulu.

2. Flooding in low-lying areas made most of Wailua Golf Course a "water hazard."

3. Heavy rain and low clouds forced two commercial flights en route to Lihue to turn back to Honolulu.

4. Water up to about 4 feet deep in low-lying areas near Brennecke Beach in Poipu, flooded four homes and caused about \$2,500 in damage to household effects and three vehicles.

5. Runoff eroded shoulders and gutters and washed mud and debris onto highways between Waimea and Hanapepe, at Huleia, between Lihue and Anahola, at Wailua Homesteads, and between Kapaia and Wailua Falls.

APRIL 15, ON OAHU:

1. Mud slides occurred at the Moanalua Road-Halawa Road intersection from nearby construction projects and at Waimalu Stream in that area; as well as on Lilipuna Road and on Kaneohe Bay Drive at the Saddle Road cutoff.

2. Kauhale Stream in Aiea overflowed, flooding the basements of two buildings.

3. Pensacola Street was flooded between King and Beretania Streets.

On West Molokai, the Marines called off amphibious landing exercises because of heavy surf.

APRIL 16. At mid-morning three dark, rope-like waterspouts were sighted 8 miles south of Waimea, Kauai. An afternoon thunderstorm gave Kula Sanatorium, Maui, pea-sized hail and Haleakala Summit rain and small hail.

APRIL 17. Intense rains, caused apparently by the ascent of moist trade winds over the Koolau Range, fell on the mountain slopes behind Kahaluu, Oahu, (a favored location for such rains), flooding the grounds of Kahaluu School, washing 3 feet deep over Kamehameha Highway near Kahekili Highway, and undermining the footing of Ahaolelo Road Bridge No. 2, dropping the bridge into the stream. Waiahole, at an elevation of 745 feet a few miles north of Kahaluu, registered 3.65 inches between 2 p.m. and 7 p.m., with a peak 1-hour intensity of 1.90 inches between 3:30 p.m. and

H A W A I I - A P R I L 1 9 7 2

SPECIAL WEATHER SUMMARY - Continued

4:30 p.m. Ahuimanu Loop, upslope of Kahaluu, recorded a 1-day total of 6.2 inches, beginning at 8 a.m. on the 17th.

APRIL 19. Two men were drowned after gusty trade winds or a large swell upset their sailboat 3 miles off Honolua Bay, West Maui. A third man, swimming with the current, reached Molokai after 16 hours in the water.

APRIL 29. Rain showers and low clouds reduced visibility at Hilo Airport to 2 miles or less continuously from 7:15 a.m. to nearly 5 p.m.

APRIL 30. A wave alleged to be twice as large as others at the time overturned an 18-foot boat in Kaiwi Channel. One man died while clinging to the partially submerged hull. Two others were rescued by Coast Guardsmen after nearly 24 hours in the water.

Small craft advisories were in effect for Hawaiian waters on 15 days. Eleven of these had gusty northeasterly trades; four had southerly winds.

The month's rains gave most of Kauai and Oahu,

which had been quite dry in March, well above their April averages. Kauai's southwestern coast was particularly wet with five to eight times its average rainfall, while its eastern coast and western and southern Oahu had three to five times their April averages. Lihue Airport had 10.65 inches, its wettest April in 22 years of record and substantially over the 8.86 inches in April 1962.

All of Molokai and most of Lanai received well under their April average, while Maui's central valley had less than half and in places less than one-fourth of its average for April.

On Hawaii Island rainfall in the Kohala and Hamakua Coasts and the Kona district ran somewhat below normal, with some gages in North Kona and the Kawaihae area totalling less than one-fourth their April averages. In general, the island showed an interesting reversal in rainfall distribution from the previous month, with most of the eastern half of the island well above normal in contrast to its very low rainfall in March.

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DAILY PRECIPITATION

Continued

HAWAII
APRIL 1972

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KIPA 89.2	43.08	.40	9.50	1.64	-.19	-.42	1.00	-.95	.44	2.17	1.12	1.14	.26	.33	.26	*	.06	8.48	.76	3.38	.99	1.07	1.32	1.72	.42	.04	.58	.95	.09	.30	3.10	*	*	
KOHALA MAULILI 176	4.61	*	*	*	.16	.43	.02	.05	*	*	*	*	*	.02	.07	.11	*	.07	.11	.07	.41	.10	*	*	.82	.02	.31	.26	.04	*	*	*	*	
KOHALA MISSION 175.1	5.79	*	.01	.01	.17	.46	.02	.05	.31	.94	.16	.05	.07	*	*	*	*	.04	.30	.11	.17	.17	.05	.58	.14	*	.56	.07	.06	.12	1.14	*	*	
KEIAWE LOWER 196	13.11	*	*	*	*	*	*	1.52	*	*	*	*	*	*	*	10.15	*	*	*	*	*	.32	*	*	*	*	*	*	1.12	*	*	*	*	*
KONA (KAILUA) 68.3	1.43	*	*	.43	.11	.06	*	*	*	*	.40	*	*	*	*	*	*	.05	*	*	*	.28	.01	*	*	*	.03	.01	.05	*	*	*	*	
KONA VILLAGE 93.8	.10	*	*	*	.02	*	*	*	*	*	*	*	*	*	*	*	.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KUKAIHU 222	6.84	.33	.08	*	.12	.94	.66	.05	.47	.66	.59	.37	.34	.01	*	*	.08	T	.09	.06	.06	T	.48	.03	*	.14	.71	T	*	*	.57	*		
KUKUIHALE HIC 199	6.21	.21	.23	.12	.72	.28	.02	1.11	.76	.82	.10	.11	*	*	*	*	.08	*	*	*	.02	.18	.01	*	.13	.14	*	.60	.52	*	*	*	*	
KUKUIHALE MILL 206	4.82	*	*.120	.05	.48	.19	.01	*	*	1.88	.07	.04	*	*	*	.11	.02	.06	*	*	.02	*	.18	.01	*	.11	.06	*	.60	.52	*	*	*	
KULANI 78	20.39	.06	.77	.34	.30	.27	.26	.46	.20	3.25	3.50	1.30	1.00	.49	.31	.01	.10	1.60	1.40	1.10	.76	.47	.25	.26	.17	.56	.53	.40	.02	.13	.12	*	*	
KULANI MAUKA 76	4.70	.13	*	*	*	.41	.03	.57	.82	.98	*	*	*	*	.18	6.65	.10	.18	.37	.03	.05	T	*	*	*	.03	.06	.01	*	.60	.15	*	*	*
KULANI SCHDDL SITE 78	18.91	1.30	*	*	*	.17	*.160	*	*	*	.51	.20	.21	*	*	*	.10	.19	.14	.03	.05	T	*	*	*	.38	.05	*	.18	3.94	*	*	*	
LANIHU 88.2	5.05	*	*	.36	.45	.23	.17	*	*	*	.51	.20	.21	*	*	*	*	.10	.19	.14	.03	.05	T	*	*	*	.38	.05	*	.18	3.94	*	*	
MAKAHALU 103	2.43	.53	*	*	.04	.24	*	*	*	2.30	*	*	*	*	*	*	.50	*	*	.16	.33	1.90	.08	*	*	*	.38	.05	*	.18	3.94	*	*	
MANUKA 2	4.00	*	*.60	.05	*	*	*	*	*	2.30	*	*	*	*	*	*	.50	*	*	.16	.33	1.90	.08	*	*	*	.38	.05	*	.18	3.94	*	*	
MAUNA LOA SLOPE 085	1.41	.03	.02	*	.43	.05	.22	.05	*	*	.15	.03	.08	*	*	.12	*	*	.19	.14	.03	.05	T	*	*	.30	.05	.20	T	*	.04	.02	*	
MIDDLE HOLUALDA 68.1	5.03	*	*.40	*	.55	*	*	.48	*	.48	*	*	*	*	*	.10	.19	.14	.03	.05	T	*	*	*	.30	.05	.20	T	*	.04	.02	*	*	
MIDDLE PEN 147.1	4.8	*	*	*	*	*	*	.48	*	.48	*	*	*	*	*	.10	.19	.14	.03	.05	T	*	*	*	.30	.05	.20	T	*	.04	.02	*	*	
MOAULA 18	3.80	*	*	*	.28	.73	.70	.51	3.56	1.89	1.82	.71	.26	.76	.04	.20	.39	3.31	1.63	2.52	1.40	1.13	.77	.88	.15	.09	.81	.40	.05	.46	1.44	*	*	
MOUNTAIN VIEW 91	31.59	.17	3.82	.31	.28	.73	.70	.51	3.56	1.89	1.82	.71	.26	.76	.04	.20	.39	3.31	1.63	2.52	1.40	1.13	.77	.88	.15	.09	.81	.40	.05	.46	1.44	*	*	
NAALEHU 14	6.45	*	*.2.65	.29	.05	.08	.06	*	.15	.03	.08	.02	T	.01	*	*	2.00	.53	.16	.20	T	*	*	*	.13	T	*	*	*	*	*	*		
NAPPOPO 28	2.94	*	*.1.59	.05	.47	.06	.03	*	.15	.03	.08	.02	T	.01	*	*	2.00	.53	.16	.20	T	*	*	*	.13	T	*	*	*	*	*	*		
NIULII 179	4.34	.01	.05	.47	.06	.03	*	.15	.03	.08	.02	T	.01	*	*	.06	.20	.01	.20	.08	*	*	*	.14	.30	.13	.05	*	*	*	*	*	*	
ODKALA 223	10.18	.02	1.66	.08	.12	.67	.51	.14	.63	.94	.19	.05	.33	.02	T	.01	.93	.28	.06	.19	.23	.19	.82	.12	.01	.46	.13	.22	.02	1.15	*	*		
OPHIHALE 2 24.1	2.14	.03	.12	.33	.20	.07	.01	.12	T	*	*	*	*	.25	.02	.04	.16	.01	.22	.02	.02	.05	.13	.10	.26	T	T	T	T	T	T	T		
ORCHIO LANO EST 91.5	13.64	*	*	*	2.00	*	*	.31	*	.15	.03	.08	.02	T	.01	*	3.29	*	*	*	6.40	*	*	*	.19	.01	.16	.17	.06	.33	*	*	*	
PAAUHAU 217	4.37	.97	.02	.12	.36	.34	.01	.38	.52	.48	.11	.06	*	*	*	.08	*	*	.14	*	*	*	.19	.01	.16	.17	.06	.33	*	*	*	*	*	
PAAUHAU 221	5.80	.32	.05	.09	.87	.58	.02	.37	.57	.65	.34	.24	*	*	*	.07	*	*	.14	.05	.01	.01	.01	.25	.01	.17	.80	T	.06	.39	*	*		
PAHALA 21	6.59	*	*.1.91	.14	.01	*	.67	.01	.16	.01	.17	.17	*	*	*	.07	*	*	.14	.05	.01	.01	.01	.25	.01	.17	.80	T	.06	.39	*	*		
PAHQA 65	16.22	.08	1.74	.14	.11	.59	.57	.22	1.07	.57	.55	.06	.17	.93	.42	.12	.24	2.02	.73	.35	.55	.19	.52	.60	.10	.30	.34	.25	.15	.51	1.83	*	*	
PAKAO 37	7.70	*	*	*	*	*	*	.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PAPAIAKU 144.1	24.71	.15	6.87	.61	.24	.45	.36	.13	.65	1.66	.17	.12	.18	.37	.13	.08	4.85	.51	.15	.81	.76	.68	.91	.16	.08	.70	.31	.15	.37	2.30	*	*		
PAPAIAKU MAUKA 140.1	38.03	.29	6.93	1.34	.36	.97	1.34	.55	.92	1.42	.70	.54	.19	.44	.17	.08	4.85	.51	.15	.81	.76	.68	.91	.16	.08	.70	.31	.15	.37	2.30	*	*		
PIIHONUA 89	42.20	*	*	*	*	*	*	.08	*	*	*	*	*	*	*	*	.05	8.90	.78	.69	.92	.82	.55	1.78	.29	.03	.58	1.53	.10	.75	3.50	*	*	
PONAKULDA 107	2.37	1.95	*	*	*	*	*	.08	*	*	*	*	*	*	*	*	.21	*	*	.21	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUAKO 95.1	.11	T	.03	T	T	*	.01	*	*	*	*	*	*	*	*	.01	.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUU KIHU 120	5.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUU LAU 102.1	4.92	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUU LEHUA 73	4.97	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUU MALI 113	2.17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PUU DD 82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUU WAAHAA 94.1	1.14	*	*	*	T	*	*	*	*	.07	*	*	*	*	*	*	.07	*	*	*	*	10.00	*	*	*	*	*	*	*	*	*	*	*	*
SAODLE ROAD 1 84	36.16	7.01	*	*	*	*	*	*	*	.16	*	*	*	14.00	*	*	.07	*	*	*	*	10.00	*	*	*	*	*	*	*	*	*	*	*	*
SOUTH POINT CORRAL 3	5.87	*	*.3.09	*	*	*	*	.16	*	.16	*	*	*	14.00	*	*	.07	*	*	*	*	10.00	*	*	*	*	*	*	*	*	*	*	*	*
UHIKIDA 118	*	*	.15	.14	.46	.24	.64	2.29	5.67	1.98	.02	.03	.02	.23	1.73	.18	*	*	*	*	*	*	.60	*	.02	.08	.13	*	*	*	*	*	*	
UPULU POINT USCG 159.2	1.20	T	.02	T	.02	T	.02	T	.20	T	.01	.02	*	*	*	.03	.06	*	*	.05	.06	.04	.11	.11	.12	.04	.12	.04	.12	.02	.19	*	*	
WAIAKEA SCD 88.2	31.94	.26	5.30	1.70	.38	.35	.80	.79	.46	2.10	1.30	.38	.33	.64	.07	.03	6.46	.77	2.15	1.05	.63	.88	1.17	.14	.10	.38	.26	.01	.43	2.82	*	*		

SUPPLEMENTAL DATA

Station	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover	sunrise to sunset	
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over				Total
							150TH MERIDIAN													
	02	08	14	20																
HILO WSD 87 AP	13	1.2	6.7	20	E	14+	91	88	73	86	0	5	17	4	1	3	30	22	9.0	
HONOLULU WSD 703 AP	6	12.3	14.9	33	NE	10	76	73	60	72	11	6	3	1	0	1	22	56	7.6	
KAHULUI WSD 398 AP	6	10.9	12.8	29	E	24+	85	78	58	76	11	10	0	0	0	0	21	62	7.7	
LIHUE WSD 1020.1 AP	6	10.5	12.5	27	S	14	81	77	72	78	9	8	3	1	2	1	24	43	8.6	

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Station		Day of Month																														Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	63 39	65 56	68 55	60 58	60 52	67 51	70 45	68 53	66 56	69 53	67 51	66 52	65 50	60 55	66 53	67 51	69 53	72 51	70 53	69 49	66 54	66 53	68 49	69 49	66 50	68 53	69 53	68 51	68 52	66 51	68 52	66.8 51.6	
KILAUEA POINT 1133	MAX MIN	72 66	72 70	73 67	71 66	73 69	78 66	76 71	76 72	75 71	76 66	76 71	78 65	79 69	74 67	76 63	84 66	75 73	78 69	76 72	78 66	77 70	75 72	76 72	77 69	78 72	78 62	78 73	78 66	78 66	78 67	76.3 68.5		
LIHUE WSD 1020.1 AP	MAX MIN	76 60	73 69	76 69	71 65	76 69	78 71	79 71	79 71	79 72	79 72	78 70	79 68	81 66	75 68	77 67	80 63	77 71	80 74	80 74	80 73	80 72	80 71	80 70	80 72	80 73	80 71	80 72	80 71	81 70	81 72	78.1 69.9		
MAKAHUEA POINT 940.1	MAX MIN	80 64	80 64	79 67	75 64	71 66	76 65	76 64	80 64	79 69	80 68	79 69	80 69	81 69	81 72	76 70	82 73	82 81	81 76	82 81	82 81	80 77	80 77	80 78	80 78	80 78	80 78	80 80	80 80	81 80	81 80	78.7 67.7		
MANA 1026	MAX MIN	82 60	78 61	80 66	81 66	80 63	80 65	83 59	84 63	86 64	86 61	87 59	84 64	86 61	86 61	77 64	83 62	83 60	83 62	86 64	82 64	84 62	85 63	86 60	83 60	85 60	86 60	86 59	85 62	87 64	83 60	83.5 62.6		
NIU RIOGE 1035	MAX MIN	75 53	76 59	74 60	75 63	73 59	75 59	78 58	77 58	79 60	81 59	80 58	81 59	80 58	82 58	81 60	80 57	80 58	81 60	82 58	80 62	80 60	81 60	82 59	80 58	81 59	82 58	80 58	81 56	80 56	80 57	79.1 58.6		
WAIHAI LOWER 1054	MAX MIN	79 57	74 64	71 65	70 62	69 62	75 61	77 59	77 63	76 66	75 65	77 62	75 64	77 66	78 66	74 63	76 61	73 60	73 61	76 66	76 65	76 64	77 65	75 64	77 66	76 61	76 62	76 63	78 64	79 61	78 60	75.5 62.7		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN			81 57	79 57	77 63	79 66	77 62			82 65	80 67	79 63	82 63	80 61	82 67			81 64	80 67	84 66	81 65	82 65			82 63	81 63	81 64	80 62	82 65			81.1 68.8	
HONOLULU WSD 703 AP	MAX MIN	81 62	76 71	82 70	79 69	81 69	78 69	82 65	83 70	82 69	82 70	81 68	80 68	81 68	81 67	77 66	80 66	81 67	82 72	81 70	82 70	82 70	81 70	81 69	82 69	82 69	84 69	82 69	84 69	82 69	84 70	81.1 68.8		
HONOLULU SUBSTA 704	MAX MIN	77 66	75 71	78 69	72 68	76 68	76 68	77 68	77 70	78 69	76 67	76 69	77 68	77 68	76 65	78 69	76 69	79 68	81 72	79 69	79 72	78 71	77 70	78 70	77 70	78 69	78 69	77 69	78 68	77 69	77 70	77.2 68.8		
KAHUKU 912	MAX MIN																																	
KANEHE MAUKA 781	MAX MIN	78 65	78 67	76 69	79 70	78 65	78 65	76 65	80 71	77 67	79 67	80 68	79 69	79 69	78 68	79 68	79 68	76 68	80 67	80 67	77 66	77 66	76 66	78 66	76 67	74 67	76 68	79 68	83 68	80 70	78 69	79 69	78.1 67.5	
LUALUALEI 804	MAX MIN	80 60	80 70	80 59	70 69	78 67	79 67	79 67	83 64	82 70	82 72	79 68	79 69	82 68	83 68	80 68	79 66	81 66	84 68	82 72	82 70	81 70	82 70	80 69	82 68	81 67	82 68	81 68	82 68	80 69	80 68	80 70	80.6 67.8	
MAKAPUU POINT 724	MAX MIN	78 60	75 66	77 67	75 66	73 63	73 58	74 68	75 66	75 66	74 66	75 66	73 64	77 66	78 66	79 66	74 66	75 66	76 69	78 70	75 69	76 67	75 67	74 68	75 65	73 65	75 65	74 69	75 70	74 67	74 67	74.9 66.5		
OPAEULA 870	MAX MIN	72 56	72 60	82 66	72 61	66 56	67 67	70 64	71 64	73 65	70 60	67 59	68 57	71 60	72 59	69 57	76 58	71 62	75 58	75 62	75 59	75 59	74 56	73 60	75 59	75 60	75 59	75 58	75 59	75 58	75 60	72.7 60.1		
PRI WAHIAWA 820.2	MAX MIN	78 55	76 67	79 53	79 64	74 62	78 61	76 61	77 64	78 65	80 62	78 60	77 62	80 62	83 59	76 64	74 63	80 62	84 66	80 64	80 66	80 63	78 64	77 64	80 62	81 61	79 62	81 62	79 62	80 61	79 62	76 64	76 64	78.4 62.1
WAIALEE 996.3	MAX MIN	78 62	79 63	74 68	77 66	72 64	76 67	78 67	79 66	78 67	79 65	77 65	77 65	72 66	82 66	81 66	78 66	78 66	77 66	79 70	79 69	79 66	78 66	78 66	79 69	78 69	73 69	79 68	79 69	79 68	77 70	77.7 66.8		
WAIALUA 847	MAX MIN	76 55	77 54	75 66	80 66	72 60	77 63	79 60	78 59	77 63	77 62	78 60	79 60	80 61	84 66	80 66	75 64	76 68	82 63	82 63	81 63	82 63	80 60	78 63	76 60	80 61	80 59	80 61	82 59	78 60	79 60	78.4 62.0		
WAIKIKI 717.2	MAX MIN	80 61	80 67	77 70	81 68	77 68	78 68	82 65	82 69	81 69	80 66	81 66	80 66	82 67	81 67	80 65	81 67	82 67	82 67	84 70	82 68	81 68	81 68	80 68	80 69	80 69	81 68	81 68	82 68	81 69	81 69	80.6 67.8		
WAIMANALO EXP FARM	MAX MIN	77 59	78 64	74 69	78 66	73 66	76 68	77 69	79 68	78 69	79 70	78 68	78 69	82 68	80 69	82 68	80 65	81 68	80 69	80 69	78 70	79 69	78 69	77 68	78 69	78 69	79 69	79 69	78 69	79 67	78 67	78.1 67.8		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	73 62	77 70	75 70	79 65	69 65	75 65	76 67	78 68	77 70	78 68	76 68	76 65	76 61	79 67	79 67	76 68	80 68	77 68	79 67	80 68	78 67	78 68	76 67	76 67	78 65	79 65	77 68	77 68	77 69	77 69	77.0 67.0		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN			73 55	74 62	71 60	71 60	75 69			70 60	69 57	71 57	80 56			74 58	76 61	77 62	75 59	73 59			74 55	74 58	75 57	72 56	74 57	73 60			73.5 58.8		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	54 43	58 46	59 44	62 48	62 46	63 43	57 40	59 39	61 45	56 43	55 41	64 39	56 38	54 39	57 42	61 43	60 44	59 43	59 40	59 37	58 37	63 37	64 37	64 38	58 36	55 36	58 37	61 45	59 42	59 42	59.1 41.1		
HALEAKALA SUMMIT 338.4	MAX MIN	50 36	48 42	50 36	54 44	59 45	45 38	52 38	50 39	50 39	55 44	58 40	52 40	56 38	50 37	54 39	43 38	44 38	46 38	48 38	46 22	48 38	44 41	46 45	48 40	49 37	41 21	42 33	43 34	44 38	50.2 37.7			
HANA AIRPORT 355	MAX MIN	78 68	79 68	81 69	75 63	77 64	75 66	77 65	77 65	77 65	79 65	79 66	78 68	81 63	81 64	79 67	80 67	79 66	79 66	80 66	79 66	79 66	80 66	79 66	79 66	80 66	81 66	81 66	80 66	79 66	76 65	78.8 65.7		
KANAPALI AIRPORT	MAX MIN	77 61	77 68	78 66	81 66	75 63	78 66	79 65	81 68	78 67	78 65	80 63	80 63	81 63	81 63	77 66	79 66	84 67	82 67	82 67	81 66	82 66	80 66	80 66	79 66	79 66	81 66	81 66	80 66	80 66	80 66	79.7 66.1		
KAHULUI WSD 398 AP	MAX MIN	82 57	82 66	83 65	74 66	81 67	83 65	82 66	82 69	79 69	81 66	81 66	83 65	85 60	84 67	81 67	85 66	85 65	85 64	84 62	84 61	84 59	82 68	81 67	84 67	84 67	84 67	84 67	83 67	83 65	84 65	82.6 64.5		
KAILUA 446	MAX MIN	78 58	74 63	74 64	75 63	65 61	68 61	73 63	74 64	74 64	75 63	73 63	74 63	77 63	76 61	77 67	77 66	73 63	73 64	72 63	74 62	74 62	74 63	75 63	74 63	74 63	78 63	74 63	72 63	73 63	73.9 63.1			
KEAWAKAPU BEACH 260.2	MAX MIN	80 59	81 65	83 66	83 67	77 62	84 65	82 61	84 60	88 63	84 63	87 63	85 63	82 62	87 61	87 62	83 68	84 65	83 64	85 64	85 64	85 64	87 61	87 58	85 58	84 60	86 59	86 59	86 59	87 62	86 65	84.4 61.8		

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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	67	69	69	70	67	66	70	70	72	70	69	65	68	72	74	74	72	70	70	71	70	70	71	68	70	70	70	72	72	69	69.9 53.5	
	MIN	54	58	59	60	55	56	56	57	55	56	52	50	51	55	56	59	58	59	56	55	56	56	56	52	53	54	54	54	55	57		
LAHAINA 361	MAX	80	81	83	83	81	82	83	84	85	84	83	82	82	82	78	82	84	85	83	84	84	83	84	83	83	84	83	83	84	82.9 64.5		
	MIN	60	68	68	68	65	65	64	64	65	65	63	62	62	63	64	66	65	67	66	65	63	66	63	64	63	64	64	65	63		64	
WAILUKU 386	MAX			80	78	70	75	79			77	76	76	77	81		85	81	81	79	78	78		79	79	78	78	78	78	69.9 53.5			
	MIN			60	66	66	66	66			68	65	65	62	65		67	69	67	68	67	66		66	67	68	67	67	67				
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	78	79	76	78	70	69	78	75	74	77	73	75	74	79	80	78	77	79	78	77	78	78	77	74	77	77	78	76	78	72	76.3 64.2	
	MIN	62	66	68	65	62	64	63	65	65	65	63	60	62	63	63	65	65	65	67	63	64	66	64	63	63	63	64	64	64	67		
HAWAII VOLCONS NP HO 54	MAX	68	68	64	63	63	61	59	67	68	65	58	62	65	67	69	67	66	62	62	66	60	61	60	61	62	60	62	66	64	63.7 52.3		
	MIN	55	57	56	55	51	53	50	54	55	54	49	49	53	53	52	54	54	54	53	53	52	52	52	49	48	50	51	49	49			
HILO WSO 87 AP	MAX	82	79	82	72	76	76	78	77	82	81	81	78	82	85	82	80	78	79	81	79	80	80	80	78	79	80	81	79	71	80	79.3 66.0	
	MIN	66	69	70	66	66	66	67	68	70	65	64	65	67	67	67	68	67	68	67	66	64	65	65	63	63	64	65	60	64	65		
KAINALIU 73.2	MAX	77	78	78	70	73	72	76	75	78	75	79	74	72	75	79	74	79	78	78	77	74	75	74	72	76	74	75	74	75	77	75.5 60.7	
	MIN	61	63	64	64	63	62	60	59	63	62	61	58	58	59	60	59	59	62	62	60	60	60	61	62	59	59	61	58	60	61		
KAMUELA 192.2	MAX	74	75	72	73	68	68	75	72	70	71	70	71	71	76	75	76	76	78	75	70	68	69	70	69	69	70	70	70	68	71.6 54.2		
	MIN	45	53	58	57	54	54	55	53	56	58	53	54	48	48	51	56	58	53	55	55	57	55	56	54	55	56	55	52	55		56	
KEAAU 92	MAX	76	77	77	78	70	73	72	77	75	79	76	77	74	77	81	81	75	73	77	78	77	77	78	77	77	78	76	76	72	76.3 63.6		
	MIN	63	66	67	66	63	63	64	65	67	67	62	61	61	64	63	65	64	64	65	65	64	64	63	62	62	63	63	61	61		59	
KEALAKEKUA 26.2	MAX	78	77	78	72	72	73	76	76	78	76	80	74	74	77	80	73	75	78	80	73	75	76	74	76	76	73	74	74	75	77	75.7 61.8	
	MIN	61	65	66	65	64	62	61	61	63	63	63	59	59	60	62	62	61	63	62	61	62	61	62	62	60	60	62	60	61	62		
KOHALA MISSION 175.1	MAX	77	78	74	79	68	71	76	75	72	75	74	75	75	79	81	79	78	80	77	76	76	76	74	74	76	76	77	76	69	75.6 64.2		
	MIN	63	63	68	65	63	64	64	65	65	65	63	63	60	62	64	65	66	66	61	65	65	67	63	64	64	63	63	65	67		65	
KONA (KAILUA) 68.3	MAX			85	81	79	80	83			83	81	80	80			84	84	83	83	83			83	82	82	82	82	82	68.8			
	MIN			65	70	70	70	68			68	71	69	66			68	68	68	67	65			68	67	66	66	66	68				
KULANI CAMP 79	MAX	62	65	60	62	57	55	58	59	62	63	64	62	57	64	67	67	67	67	67	67	67	59	59	57	57	58	57	68	59	60	60.1 46.8	
	MIN	38	50	53	52	47	49	46	49	52	50	44	42	45	46	43	47	47	49	49	48	49	49	48	48	48	43	46	46	47			
MAUNA LOA SLOPE OBS	MAX	44	44	48	47	51	42	46	48	45	48	52	51	48	48	44	41	44	47	48	52	50	50	54	52	51	50	51	49	50	45	48.1 33.2	
	MIN	34	34	36	38	38	33	33	32	33	33	33	32	33	32	31	32	33	32	35	33	31	29	32	35	36	35	35	31	30	33		
MOUNTAIN VIEW 91	MAX	73	73	73	70	65	66	66	72	72	72	67	70	70	73	78	78	78	69	67	71	67	70	70	70	70	68	72	74	73	73	71.0 58.3	
	MIN	55	55	55	62	58	59	60	61	61	61	57	52	56	60	60	60	61	60	60	60	60	58	58	58	58	59	55	55	55	55		
NAALEHU 14	MAX	75	77	77	69	72	74	75	75	83	83	78	76	76	76	76	78	78	78	77	76	75	75	75	75	72	72	77	77	77	76.0 64.0		
	MIN	60	61	61	66	65	64	65	65	65	65	64	63	64	64	64	64	64	65	65	64	66	66	65	65	63	63	64	64	64		62	
OOKALA 223	MAX	76	77	75	73	68	68	75	77	74	78	74	75	74	76	78	77	75	78	77	76	75	77	74	73	76	76	77	77	75	75.3 63.8		
	MIN	61	61	68	65	63	63	64	64	63	64	63	63	63	64	60	64	65	65	66	64	65	64	64	64	63	63	63	64	65		65	
OPIHIHALE 2 24.1	MAX	75	76	72	70	73	75	77	77	77	73	73	74	78	80	74	74	79	76	73	73	80	77	78	72	74	74	73	73	74	74.9 60.3		
	MIN	60	64	64	64	62	62	63	61	62	61	57	57	57	60	59	60	60	61	61	61	61	63	63	58	59	58	56	58	61			
PAHALA 21	MAX			77	71	74	75	74			78	78	77	75	77		79	76	77	76	73			77	77	72	72	78	78	68.8			
	MIN			62	63	61	63	60			60	58	61	64	63		62	64	65	62	63			60	58	61	60	58	58				
PUAKO 95.1	MAX	83	79	80	84	84	79	81	85	87	86	82	80	83	85	84	79	80	84	84	84	85	84	86	82	85	83	85	84	84	84	83.2 68.0	
	MIN	62	65	69	70	69	69	65	70	74	72	68	66	63	64	66	65	68	66	69	69	69	68	71	71	67	70	70	65	67	73		
UPDLU POINT USCG 159.2	MAX	80	78	80	80	73	75	80	80	78	71	79	79	78	83	81	81	78	82	79	79	79	79	77	75	81	79	80	81	80	73	78.6 68.6	
	MIN	67	70	69	67	65	66	69	69	69	68	70	68	68	70	70	69	70	71	70	68	70	69	67	68	67	67	68	70	69	70		

EVAPORATION AND WIND

Station		Day of Month																															Total of Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.29	.15	-	.16	.11	.05	.32	.16	.32	.33	.30	.45	.22	.31	-	-	.05	.06	.21	.33	.26	.21	.29	.44	.39	.32	.37	.35	.30	.37	7.918 53308 76.0 57.3	
	WIND	81	133	102	161	173	189	162	183	194	-	-	235	67	164	74	125	115	136	193	213	233	242	244	256	211	200	255	256	187	191		
	MIN	46	52	50	56	56	56	58	58	59	58	57	58	57	60	59	55	56	61	61	60	59	60	58	57	58	59	58	59	59	58		
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.29	.15	.04	.15	.20	.18	.15	.32	.32	.30	.45	.38	.30	.30	-	.09	.23	.23	.15	.45	.09	.45	.30	.30	.17	.21	.35	.30	.30	.30	7.718 1121 85.4 62.4	
	WIND	27	15	3	19	36	31	16	41	44	62	70	47	31	67	75	25	20	27	29	41	42	50	45	44	32	32	41	43	35	31		
	MIN	59	59	66	64	62	62	61	63	64	63	60	60	61	64	65	62	63	65	63	63	63	63	62	62								

STATION INDEX

HAWAII 1972

Main data table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. Includes sections for ISLAND OF KAUAI, ISLAND OF LANAI, and ISLAND OF MOLOKAI.

STATION INDEX

HAWAII
APRIL 1972

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII																									
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1590	0A	0A			PUNA SUGAR CO	PUU MALI 113	A 8516	01	HAKAUA	1	19 55	155 26	6900				KUKAIAU RANCH CO	
MAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	9A			MUTCHINSON SUGAR CO	PUU DD 82	A 8550	02	S HILO	2	19 44	155 23	6340	6A	7A	7C	MISS JACKIE BENLEHR	
NAPOOPOO 28	A 6687	04	S KONA	4	19 28	155 55	395	7A				KONA EXPERIMENT STA	A 8558	02	N KOHALA	2	19 47	155 31	2320					OLLINGHAM RANCH INC	
NIULII 179	A 6826	01	N KOHALA	1	20 14	155 45	75	0A				KOHALA CORPORATION	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY	
OKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHEHE SUGAR CO	A 8679	03	KAU	3	18 57	155 41	300					HAWAIIAN RANCH COMPANY	
OPIMAHLE 2 24.1	7196	04	S KONA	4	19 18	155 33	1270	7A	7A			MISS C LEONARD	A 8830	01	N KOHALA	1	20 15	155 33	61	8A				U S COAST GUARD	
UPCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY	9029	02	S HILO	2	19 40	155 08	1050	7A				SHINICHI KANEISHIRO	
PAGUNU 217	7204	01	HAKAUA	1	20 05	155 26	415	7A				PARAHU SUGAR CO	A 9350	01	N KOHALA	1	20 08	155 47	3830					KAHUA RANCH	
PAHUU 221	7312	01	HAKAUA	1	20 03	155 40	690	7A				HAKAUA MILL CO													
PANALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	0A			HAWAIIAN AGR CO													
PANOA 65	7457	02	PUNA	2	19 30	154 57	670	0A				PUNA SUGAR COMPANY													
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	9000					HAWAIIAN RANCH CO, INC.													
PAPAIAKU 144.1	7711	02	S HILO	2	19 47	155 06	2200	7A				MAUNA KEA SUGAR CO.													
PAPAIAKU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO.													
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1740					STATE DIV OF FORESTRY													
PONAKULA 107	A 8093	02	HAKAUA	2	19 43	155 32	6511	VAR				STATE DIVISION OF PAPRS													
PUAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN M. RAPP													
PUU KIME 120	A 8399	01	HAKAUA	1	19 54	155 24	7750					KUKAIAU RANCH CO													
PUU LAU 102.1	A 8452	05	HAKAUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME													
PUU LEHIA 73	A 8460	04	N KONA	4	19 34	155 49	4880					W.M. GREENWELL RANCH													

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ↔ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index" indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

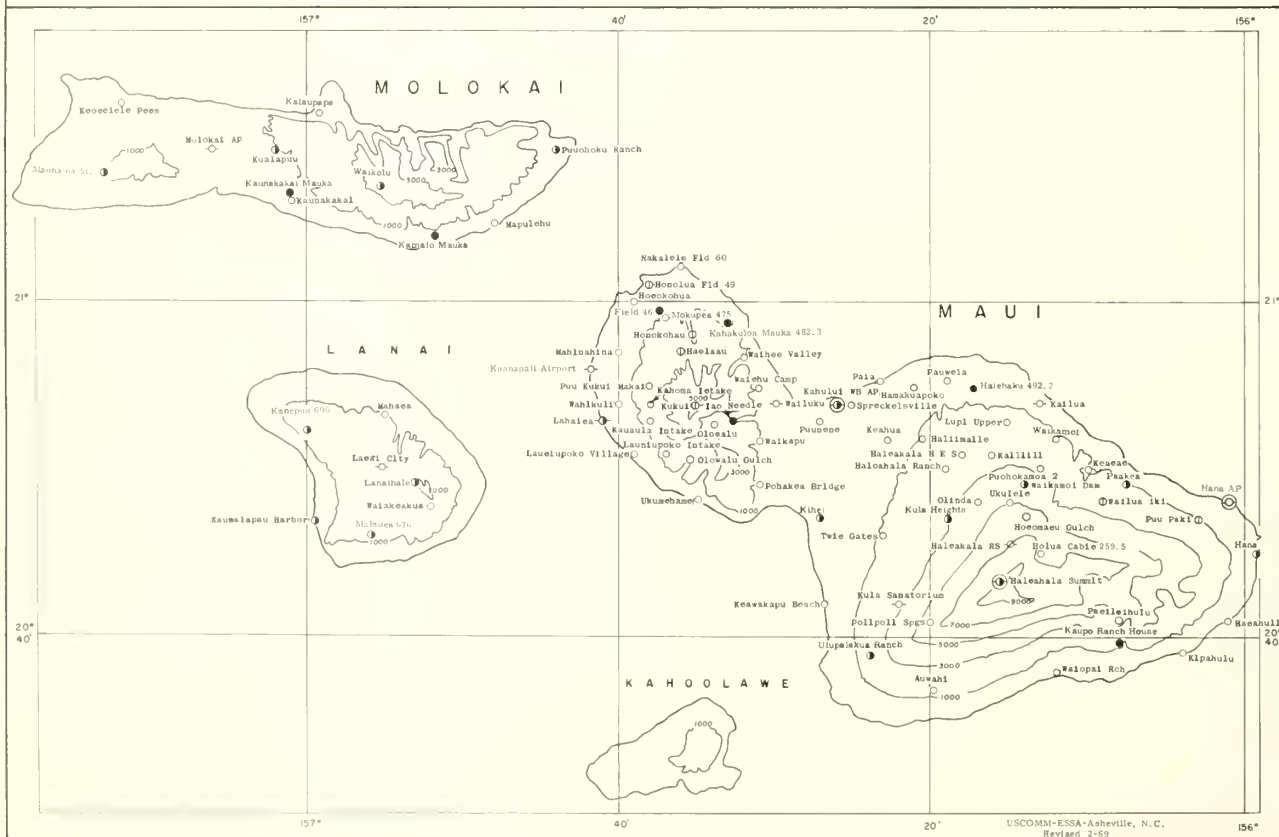
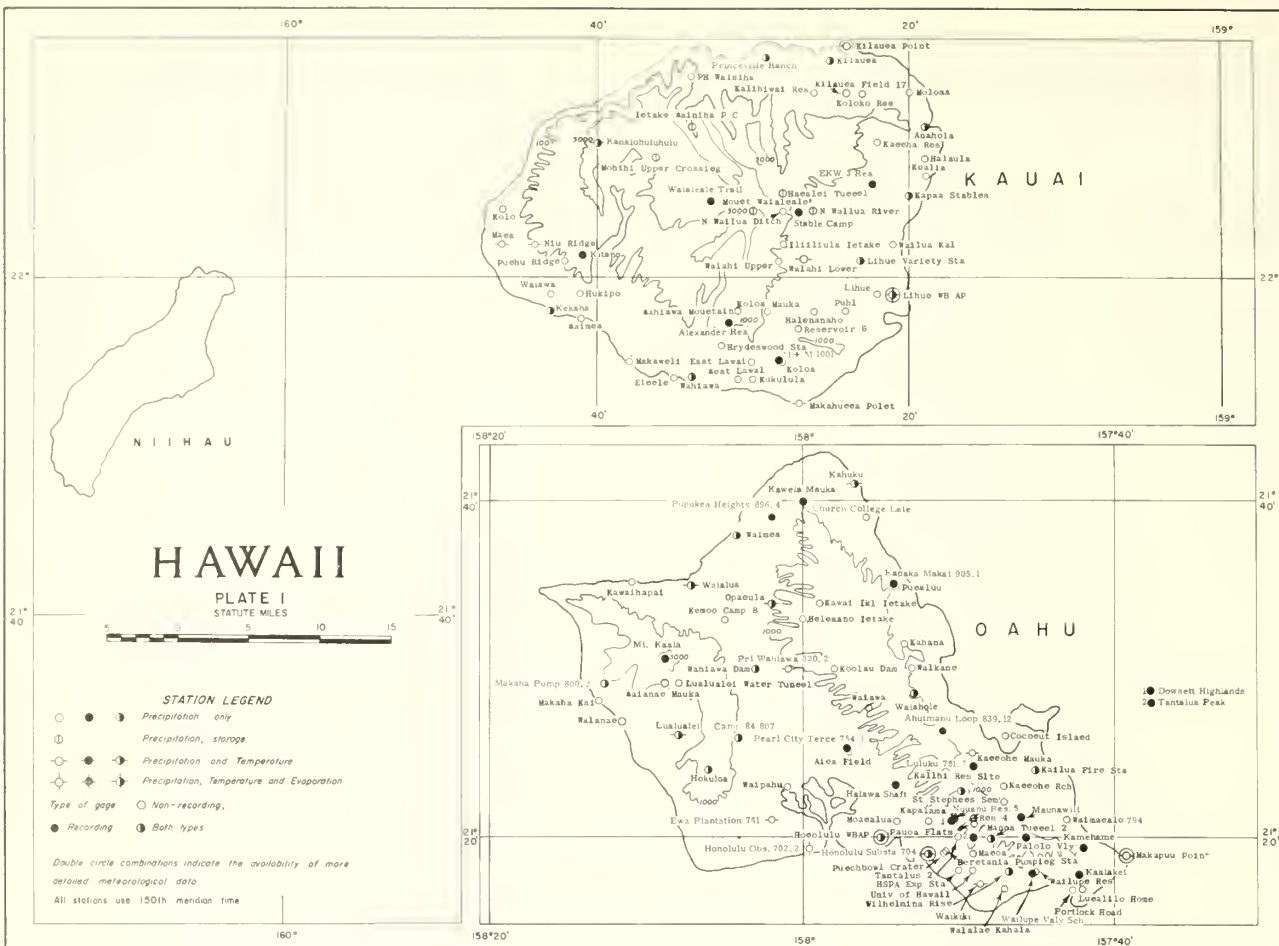
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

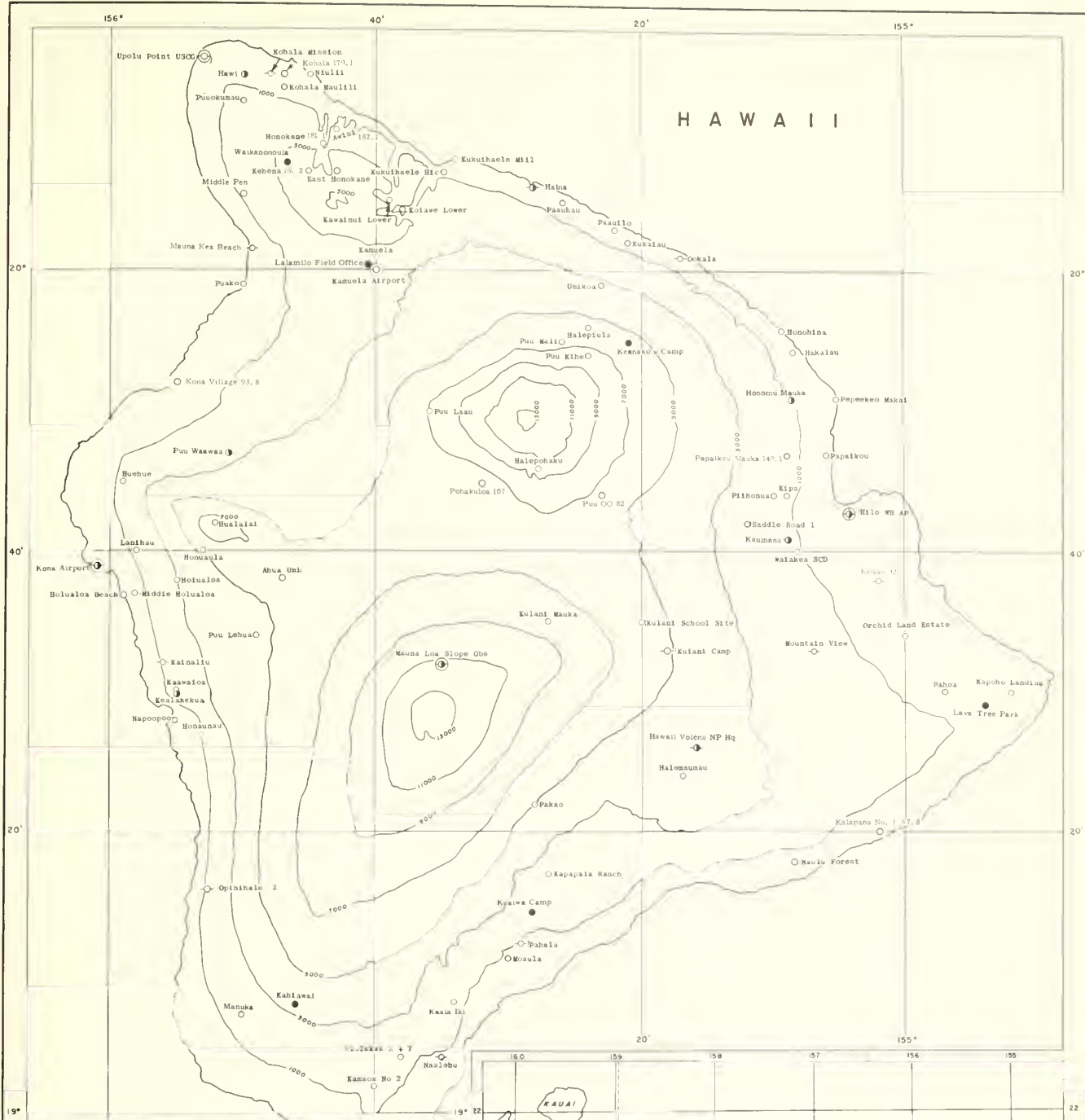
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual: \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center
USCOMM-NOAA-ASHEVILLE, N.C. 7/31/72-890





HAWAII

HAWAII

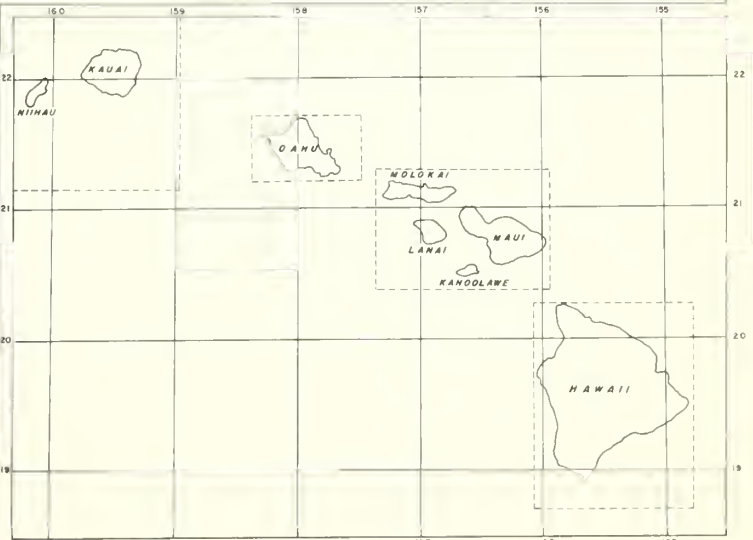
PLATE 2
STATUTE MILES



STATION LEGEND

- ● ● Precipitation only
- ⊙ Precipitation, storage
- ● ● Precipitation and Temperature
- ⊙ ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording.
- Recording ⊙ Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time



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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MAY 1972

Volume 68 No. 5

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										90° or Above	70° or Above	32° or Above	Below 32°					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More				
																								Max.	Min.	0° or Above	0° or Below
* * * ISLAND OF KAUAI																											
ANAHOLA 1114	A	70.3	51.6	61.0		73	27+	44	19+		0	0	0	0	1.84	- 1.11		.20	15		.0	0			2	0	0
KANALOHULUHULU 1075	A										0	0	0	0	2.06						.0	0					
KAPAA STABLES 1104	A										0	0	0	0	3.14	- 4.45					.0	0					
KILAUEA FIELD 17 1135	A	79.4M	73.4M	76.4M		84	14	70	13		0	0	0	1.57							.0	0			4	1	0
KILAUEA POINT 1133	A										0	0	0	0	3.90	- .45					.0	0					
KOLPA 936	A										0	0	0	0	.75	- 1.84		.33	29		.0	0			2	0	0
LIHUE WSO 1020.1 AP	//R	81.2	72.1	76.7	2.2	83	24+	66	26		0	0	0	0	.24	- .66		.15	8		.0	0			1	0	0
MANA 1026	A	86.6	63.9	75.3	.6	89	21+	61	26+		0	0	0	0	12.26						.0	0					
N WAILUA OITCH 1051	A										0	0	0	0	2.39	- 6.77		.45	29		.0	0			10	0	0
PH WAINIHA 1115	A										0	0	0	0	.94			.56	8		.0	0			3	1	0
PUEHU RIGGE 1040	A										0	0	0	0	1.69	.19					.0	0					
WAHIKAWA 930	A										0	0	0	0	6.52			2.07	15		.0	0			14	3	1
WAIHI LOWER 1054	A	79.8	62.8	71.3		82	27+	57	27		0	0	0	.07	- .78		.07	15		.0	0			0	0	0	
WAIWEA 947	A										0	0	0	0							.0	0					
ISLAND																											
ISLAND OF OAHU																											
HONOLULU OBSERV 702.2	R	84.4	70.1	77.3	1.4	87	14	65	26		0	0	0	0	.09			.07	13		.0	0			0	0	0
HONOLULU WSO 703 AP	R										0	0	0	0	.12	- .87		.04	17		.0	0			0	0	0
KAHUKU 912	A										0	0	0	0	1.55	- .61					.0	0					
KANEHE MAUKA 781	A	80.1	68.9	74.5	.3	82	27	62	23		0	0	0	0	1.97	- 2.58		.34	24		.0	0			10	0	0
KOOLAU OAM 833	A										0	0	0	0	4.43	- 1.68		.83	23		.0	0			15	2	0
LUALUALEI 804	A	84.0	68.9	76.5		87	14	65	4		0	0	0	0	.14						.0	0			0	0	0
MAKAPUU POINT 724	A	76.0	64.9	70.5		78	30+	56	16		0	0	0	0	.14	- .89		.04	23+		.0	0			0	0	0
NUUANU RES 4 783	A										0	0	0	0	5.34	- 6.49		1.46	9		.0	0			12	2	2
OPAFLA 870	A	77.7	60.0	68.9	-.9	81	13	57	25+		0	0	0	0	.28	- 3.00		.12	9		.0	0			1	0	0
PALOLD VALLEY 718	R										0	0	0	0	5.88	- 6.24		1.88	9		.0	0			13	3	1
PRI WAHIAWA 820.2	A	81.9M	62.7M	72.3M		86	11	60	26+		0	0	0	0	.34						.0	0			0	0	0
WAHIAWA OAM 863	A										0	0	0	0	.63						.0	0					
WAIHOLE 837	A										0	0	0	0	5.45	- 6.70					.0	0					
WAIALEE 896.3	A	81.7	68.9	75.3		84	15+	65	29+		0	0	0	0	1.48			.93	24		.0	0			3	1	0
WAILAUA 847	A	82.2	61.2	71.7	- 1.7	85	23+	58	27+		0	0	0	0	.21	- .89		.11	13		.0	0			1	0	0
WAIKIKI 717.2	A	83.2	68.9	76.1		86	11	64	4		0	0	0	0	.16			.08	13		.0	0			0	0	0
WAIMANALO EXP FARM	A	81.4	69.9	75.7		85	13	63	26		0	0	0	0	.55			.22	24		.0	0			1	0	0
WAIPIHU 750	A										0	0	0	0	.11	- 1.09					.0	0			0	0	0
ISLAND																											
ISLAND OF MOLOKAI																											
KUALAPUU 534	A										0	0	0	0	.06	- 1.52		.04	12		.0	0			0	0	0
MAPULEHU 542	A										0	0	0	0	1.09	- 1.62		.27	23		.0	0			4	0	0
MAUNALO A 511	A										0	0	0	0	.07	- 1.40					.0	0			0	0	0
MOLOKAI AP 524	A	79.8	68.6	74.2		84	11	64	4+		0	0	0	0	T			T	13		.0	0			0	0	0
ISLAND																											
ISLAND OF LANAI																											
LANAI CITY 672	A	74.4M	59.9M	67.2M	- 1.3	78	22+	54	22		0	0	0	0	.73	- 1.94		.35	23		.0	0			2	0	0
ISLAND																											
ISLAND OF MAUI																											
HALEAKALA B E S 434	A	61.7	42.1	51.9		66	31+	36	2		0	0	0	0	.72	- 3.68		.31	21		.0	0			3	0	0
HALEAKALA RS 338	A	82.1	66.2	74.2		84	31+	62	28+		0	0	0	0	.38			.11	26+		.0	0			2	0	0
HANA AIRPORT 355	A										0	0	0	0	1.63			.35	26		.0	0			7	0	0
HONOKOHUA 493	A	83.1M	67.0M	75.1M		86	18+	63	3		0	0	0	0	.96	- 1.30					.0	0			0	0	0
KANAPALI AIRPORT	A										0	0	0	0	.06			.06	23		.0	0			0	0	0
KAHULUI WSO 398 AP	R	85.2	64.2	74.7	-.6	89	12	59	18+		0	0	0	0	T			T	24+		.0	0			0	0	0
KAILUA 446	A	75.2	64.9	70.1	-.3	77	21+	61	26		0	0	0	0	3.51	- 6.41		.70	21		.0	0			9	3	0
KEANAE 346	A										0	0	0	0	7.20	- 13.90					.0	0					
KIPAHULU 258	A										0	0	0	0	2.91	- 5.03		.79	21		.0	0			9	2	0
KULA SANATORIUM 267	A	71.0	56.3	63.7	.2	73	30+	52	26		0	0	0	0	.19	- 1.91		.09	26		.0	0			0	0	0
LAHAINA 361	A	84.6	65.9	75.3		87	28+	63	6		0	0	0	0	.00	- .35		.00			.0	0			0	0	0
PAIA 406	A										0	0	0	0	.04	- 2.07		.01	24+		.0	0			0	0	0
WAILUKU 386	A	80.4M	67.9M	74.2M	-.2	84	15	66	11+		0	0	0	0	.03	- 1.23		.03	5		.0	0			0	0	0
ISLAND																											
ISLAND OF HAWAII																											
HAINA 214	R	79.0	64.9	72.0	-.6	81	29+	63	26+		0	0	0	0	1.59	- 3.33		.66	5		.0	0			3	1	0
HAWAII VOLCNS NP HO 54	R	67.5M	51.5M	59.5M	- 1.1	73	15	48	19		0	0	0	0	4.29	- 1.78		.86	1		.0	0					
HILD WSO 87 AP	R	81.0	65.0	73.0	.0	83	22+	62	28+		0	0	0	0	4.71	- 4.62		.54	25		.0	0			15	2	0
HUEHUE 92.1	A										0	0	0	0	3.67	- 1.00					.0	0					
KAINALIU 73.2	A	76.0	61.2	68.6		79	11+	57	4		0	0	0	0	4.90	- 2.80		.83	8		.0	0			10	5	0

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
										90° or Above	32° or Below	32° or Below	27° or Below											27° or Below
KEAAU 92	78.8	62.9	70.9	- 1.6	81	29+	59	10+		0	0	0	0	5.78	- 4.10	.76	5	.0	0		21	2	0	
KEALAKEUA 26.2	76.4	61.7	69.1		78	20+	59	27+		0	0	0	0	4.46		1.69	3	.0	0		9	2	1	
KONA (KAILUA) 68.3	83.1M	69.3M	76.2M		87	9	66	26		0	0	0	0	3.61		.0	0	.0	0		3	1	0	
KUKUIHAELE HIC 199					70	5	42	30+		0	0	0	0	1.67	- 5.04	.59	8	.0	0		3	1	0	
KULANI CAMP 79	61.8	45.9	53.9							0	0	0	0	5.81		1.10	1	.0	0		13	2	1	
PAHALA 21	78.3M	61.6M	70.0M	- 1.0	81	29	58	29		0	0	0	0	1.69	- .63	1.37	5	.0	0			1	1	
POHAKULOA 107														.00		.00		.0	0			0	0	0
PUAKO 95.1														.16		.08	21	.0	0			0	0	0
PUU WAHAA 94.1	84.3	69.0	76.7		88	28+	66	22+		0	0	0	0	3.27		.54		.0	0			2	0	0
UMIKOA 118														.47	- 4.59	.22	2	.0	0			2	0	0
WAIAKEA SCD 88.2														10.00		1.78	5	.0	0		22	7	2	
ISLAND			69.0											3.51				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 89° ON THE 22D+ AT 4 STATIONS

LOWEST TEMPERATURE: 29° ON THE 8TH+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 11.18 AT KIPA 89.2, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 18 STATIONS

GREATEST ONE-DAY PRECIPITATION: 2.90 ON THE 9TH AT MANOA TUNNEL 2 716, OAHU

H A W A I I - M A Y 1 9 7 2
SPECIAL WEATHER SUMMARY

May's weather was mild, warm, sunny -- and very dry, threatening many areas with a resurgence of the prolonged dry spell, only intermittently interrupted by the rains of the past winter. Light to moderate trade winds persisted throughout, except on the 10th through the 12th, when replaced by light southerly winds, and between the 27th and 28th, when they became gusty enough to call for 12 hours of small craft advisories.

The State was exceptionally dry nearly everywhere. Most sections had well under half, and large areas less than one-fourth, their average rainfall for May. Of the several hundred gages reporting, only three exceeded their May normals, and then only slightly: Wahiawa, Kauai, and Puu Waawaa and Kailua-Kona, in western Hawaii Island.

On Kauai, a band extending from the south-central coast through central and into eastern Kauai was only moderately deficient in rainfall (over 50 percent of the May normal), but elsewhere rainfall was below half its average for May, and along the southwestern coast, below one-fourth.

On Oahu, rainfall reached even half or slightly above the May average only in a scattering of upland gages above Waianae and Honolulu, on the northern coast from Waimea to Kahuku, and near Kaneohe. All other areas were well under 50 percent of normal, and the western and northwestern coasts, from Nanakuli to Mokuleia, less than 10 percent of normal.

Maui was especially dry everywhere. Only the extreme eastern coast near Hana had even as much as half May's normal rainfall, while most of the central valley and southwestern coast

had no rain at all. The Kula District on Haleakala's southwestern slopes had less than 10 percent of its May average. Even in ordinarily wet windward East Maui, most gages registered well under half their monthly average. This return of dry weather to areas not yet recovered from their recent prolonged drought was of great concern to agricultural and ranching interests on the island.

In the western two-thirds of Molokai, no reporting gage exceeded 5 percent of normal, while the eastern third had less than half its May average.

All of Lanai was dry. Coastal areas had no rain at all, while even upland gages near Lanai City received little more than a fourth of their normal May rainfall.

On Hawaii Island, South Kohala and the Hamakua coasts and uplands had under half, and in places less than one-fourth, their average rainfall for May, thus continuing the extended dry spell affecting those localities. Haina, for example, has exceeded its monthly mean rainfall in only one of the past 16 months. The balance of eastern Hawaii, from Honomu and Pepeekeo south of Pahoia and southwest nearly to South Point, registered above half (although still below) its normal May rainfall, as did most lower elevation gages in the Kona District.

At the Federal Building in downtown Honolulu, May's rainfall total of 0.10 inch was the second lowest since 1905 when records began there. Only May 1949 had less, with 0.06 inch.

Kahului Airport, Maui, had its driest May -- only a trace of rain -- since records began in 1952.

As the list below shows, a number of other long-term gages had their driest May of record.

Stations With Less Rain in May 1972 than
in Any Previous May

(25 years of record or more, only)

Station	Length of Period (Yrs.)	Previous Least May Total (Inches)	May 1972 (Inches)
KAUAI			
Waiawa	68	0.17	0.09
OAHU			
Opaepa	68	0.31	0.28
MAUI			
Haleakala Ranger Stn	34	0.64	0.38

H A W A I I - M A Y 1 9 7 2

SPECIAL WEATHER SUMMARY - Continued

Station	Length of Period (Yrs.)	Previous Least May Total (Inches)	May 1972 (Inches)
MAUI - Continued			
Nakalele	35	0.93	0.16
Paia	68	0.24	0.04
HAWAII			
Manuka	44	1.69	1.25

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DAILY PRECIPITATION

HAWAII
MAY 1972

Continued

Station	T	Day of Month																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KEALAKEKUA 20.2	A	4.46	.03	1.09			.16	.01	.26			.05	T	T	.06	.31	.02		.31		T	.08	.53	.32	.03	.31						T	.29		
KEMENA 181.2	A	3.00																																	
KIDILAKAA A & F 6	A	11.18	.11	.17	.33	.04	1.69	1.22		.01	.91	.57	.02	.42	.71	.45	.13	.55	.05	.09	.44	.01	.59	.94	.31	.11	.48	.22	.24	.02	.01	.06	.28	3.00	
KIFA 89.2	A	3.61																																	
KOHALA MAULILI 176	A	2.68	1.22	.08			.28				.47	.14										.15	.05	.11	.01										
KOHALA MISSION 175.1	A	1.75	T	.08		T	.17	.21		.58	.13		T	T		T	.08		T	.14	T	T	.22	T	.02	.10	T			.02	T				
KOHANE LOWER 196	A	3.01					1.05								.75																				
KONA (KAILUA) 68.3	A	3.61	.01							2.09			.31									.18			.05	.13	.95			1.03					
KONA VILLAGE 93.8	A	2.24																																	
KUKAIAU 222	A	2.70	.02	.05		1.05	.62			.82	.01					.01						.01	T	.08	.19								.06		
KUKUIHAELE H1C 199	A	1.67		.06			.24			.59	.46																								
KUKUIHAELE MILL 206	A	1.41	.01	.07	.05		.16			.50	.38													.04	.03		.02	.05				.06	.08		
KULANI CAMP 79	A	5.81	1.10	.09	.16		.08	.35	.33	.01	.09	.04	.16	.06	.09	.40	.09	.32	.03	.03	.21	.07	.26	.90	.40	.14	.23	.07	.07	.03			.08	.03	
KULANI MAUKA 76	A	1.60	.05				.02	.05		.10														.10	.04	.05	.04	.63							
KULANI SCHOOL SITE 78	A	3.95						.80								.57	.52							.83						1.35					
LANIHAWA 68.2	A	7.91	.65		.35					1.60		.17						.09			.54			.88	2.62		.68						.05	.28	
NAKAMALAU 103	A	1.33		.08						.90																									
MAUKA 2	A	1.25																																	
MAUNA LOA SLOPE DB5	A	1.38				.07	.03			.01	.51	.05				.02	.25	T							.15	T									
MIDDLE HOLUALOA 68.1	A	2.63			.30					1.00														.50	.28	.04								.03	
MIDDLE PEN 147.1	A	.00																																	
MOAULA 18	A	1.30																																	
MOUNTAIN VIEW 91	A	6.63		.13	.40		.20	.48	.31	.03	.18	.60	.16	.40	.25	.38	.18	.15	.06	.08	.20	.06	.54	.40	.03	.21	.27	.15	.42	.02		.16	.18	1.30	
NAALEHU 14	A	1.12	.55			.01	.01									.03									.16										
NAPDOPOD 28	A	2.34	.60							.85																									
NIULII 179	A	2.79	1.16	.12			.08			.77	.05																								
ODAKA 223	A	3.46	.02	.17	.26		.85	.33		.99	.18		.01																						
OPHIHAELE 2 24.1	A	2.35		.16	.10					.07	T		.02	.06	.02	T	.10	.54	.08	.02					.53										
ORCHIO LAND EST 91.5	A	5.38					2.57	.10																	.02	.21	.02	.03	.01	T		.02	.03	T	
PAAUHAU 217	A	1.67		.05	.01		.83	.10		.52	.11																								
PAAUHU 221	A	1.76	.05	.08		.54	.66			.37	T					.01	.01																		
PAHALA 21	A	1.69	.25				1.37						.02																						
PAHOLA 65	A	6.72		.29	.08		.02	.08	.94	.10	.56	.39	.17	.06	.10	.19	.09	.07	.05	.20	.24	.11	.48	.36	.01	.39	.62	.27	.30	.02		.13	.35	.05	
PAAKAO 37	A	2.60																																	
PAPAIAKU 144.1	A	7.28	.02	.81	.03	.21	.08	1.34		.07	.23	.38	.09	.23	.40	.17	.07	.21	.04	.14	.42	.05	.25	.45	.36	.02	.13	.29	.11	.12	.01	.27	.28	2.60	
PAPAIAKU MAUKA 140.1	A	9.33	.30	.28	.38	.06	1.14	.83		.08	.53	.33	.01	.33	.70	.81	.10	.39	.08	.04	.08	.05	.34	.71	.32	.09	.06	.48	.22	.03		.16	.40	T	
PIIHONGUA 89	A	14.08																																	
PORAKULOA 107	A	.00																																	
PUAKO 95.1	A	.16	T																																
PUU KIHAE 120	A	.78																																	
PUU LAU 102.1	A	.32																																	
PUU LEHUA 73	A	1.50																																	
PUU MAHI 113	A	.74																																	
PUU OO 82	A	-																																	
PUU WAAHAA 94.1	A	3.27		.22	.06				1.10				T	.02																					
SAOOLE ROAD 1 84	A	13.69					5.72								4.20																				
SOUTH POINT CORRAL 3	A	.49																																	
UMUKA 118	V	.47	.17	.22												.02																			
UPOLU POINT USCG 159.2	A	.47	T	T						.27		1.12																							
WAIKAEA SCD 88.2	A	10.00	.29	.15	.92	.13	1.78	.84		.06	.25	1.12	.03	.18	.54	.75	.15	.02																	

SUPPLEMENTAL DATA

	Wind (Speed - m.p.h.)						Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover sunrise to sunset	
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over			Total
							02	08	14	20									
HILO WSO 87 AP	15	1.2	6.0	18	E	20+	90	82	68	85	2	12	13	2	0	0	29	39	7.7
HONOLULU WSO 703 AP	6	13.1	14.6	27	NE	31	74	69	53	69	12	5	0	0	0	0	17	74	5.8
KAHULUI WSO 398 AP	5	11.5	12.9	29	NE	31+	82												

DAILY TEMPERATURES

HAWAII
MAY 1972

Station	Day of Month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	68 53	70 51	68 48	71 48	71 48	68 44	73 54	72 49	71 46	70 55	70 51	64 56	69 59	72 56	73 54	72 51	70 47	69 44	72 52	69 55	73 52	71 55	71 53	69 52	73 48	73 48	71 55	70 56	70 56	69 54	70.3 51.6		
KILAUEA POINT 1133	MAX MIN	78 72	77 73	79 73	79 74	79 71	77 73	79 74	79 73	79 74	80 73	79 71	80 74	84 75	79 74	80 74	80 74	80 74	80 74	80 74	81 73	81 72	80 74	79 75	80 74	79 74	79 74	81 75	79 71	80 74	79 75	78 75	79.4 73.4	
LIHUE WSO 1020.1 AP	MAX MIN	80 71	80 72	79 73	80 72	81 70	79 69	80 71	81 73	82 74	81 73	82 73	81 74	78 72	80 69	81 73	82 74	82 73	82 73	82 74	82 73	82 72	82 74	83 71	83 71	82 72	82 73	82 73	82 73	82 73	81 73	82 75	81 75	81.2 72.1
MAKAHUEA POINT 940.1	MAX MIN	81 71	80 69	81 70	81 68	82 68	81 68	81 70	81 70	82 71	86 70	81 65	83 70	77 65	87 71	87 71	82 72	82 72	82 72	84 72	82 72	82 60	83 71	83 71	83 71	83 69	81 68	82 60	82 69	83 71	83 72	83 72	82.1 69.5	
MANA 1026	MAX MIN	85 61	86 63	85 63	84 63	88 65	86 62	87 65	87 62	86 63	87 65	87 62	88 65	86 62	81 65	89 64	89 65	89 65	89 65	85 62	84 65	89 66	87 64	88 64	88 62	88 64	86 61	88 66	88 66	87 64	88 66	88 62	86.6 63.9	
NIU RHOGE 1035	MAX MIN	80 57	81 59	80 60	79 60	80 60	79 60	80 60	81 58	82 59	81 60	82 62	81 62	83 63	82 61	83 62	83 60	81 60	80 62	82 62	82 63	83 63	80 59	81 60	82 60	80 58	82 58	80 60	81 59	79 61	82 59	82 59	81.0 60.2	
WAIHI LOWER 1054	MAX MIN	79 61	79 61	79 64	80 63	79 60	79 62	80 61	80 63	82 67	82 65	80 65	79 65	80 61	80 67	79 66	81 64	81 62	81 62	82 64	81 62	81 64	82 64	81 64	81 64	79 62	82 58	82 57	81 58	78 66	79 66	79 64	79.8 62.8	
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	82 63	82 65	83 63	82 61	84 63		84 64	84 65	85 65	85 65	86 65		85 66	86 67	83 66	84 64	84 64	85 64	84 64	85 64	84 67	84 67	84 67	84 65	83 62				84 63	83 67	83.9 64.6		
HONOLULU WSO 703 AP	MAX MIN	84 68	84 69	83 68	85 66	85 69	82 68	84 67	85 68	86 67	83 66	82 67	82 67	80 68	87 69	86 70	85 69	86 70	85 69	85 69	85 71	85 71	84 70	83 71	83 71	84 70	85 68	85 68	85 70	85 71	85 72	85 72	84.4 70.1	
HONOLULU SUBSTA 704	MAX MIN	78 71	79 71	79 71	80 70	79 72	78 71	80 71	80 71	82 71	78 71	81 72	81 72	79 72	81 74	81 73	80 73	80 73	80 72	80 72	81 73	81 73	80 72	81 70	81 71	79 72	80 72	79 72	80 71	80 73	79 73	80 73	79.7 71.7	
KAHUKU 912	MAX MIN																																	
KANEHE MAUKA 781	MAX MIN	78 69	80 71	79 63	78 67	81 70	79 70	80 71	81 67	81 69	81 69	80 70	81 72	80 70	79 69	80 71	80 69	80 71	81 66	81 66	81 67	81 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80.1 68.9	
LUALUALEI 804	MAX MIN	83 68	83 68	84 67	83 65	84 68	82 68	85 67	85 68	84 67	83 66	83 67	84 67	81 68	87 69	86 67	84 67	84 67	85 67	84 67	84 67	84 67	84 67	84 67	84 67	84 67	84 67	84 67	84 67	84 67	84 67	84 67	84.7 68.9	
MAKAPUU POINT 724	MAX MIN	74 67	76 57	76 67	75 63	77 67	76 62	77 68	77 67	77 67	77 68	77 68	73 68	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	73 67	76.0 64.9
OPAELA 870	MAX MIN	75 58	75 59	75 58	75 60	75 62	75 62	75 62	75 58	75 58	75 58	75 58	81 61	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	80 60	77.7 60.0
PRI WAHIAWA 820.2	MAX MIN	80 61	80 61	82 61	81 61	83 61	79 61	79 60	82 61	84 60	83 61	85 63	80 63	79 64	84 64	83 65	82 65	82 61	82 61	83 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	81.9 62.7
WAIALEA 896.3	MAX MIN	80 70	80 70	80 69	81 67	81 70	81 70	80 70	82 70	82 70	83 71	84 71	81 71	81 71	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81.7 68.9	
WAIALUA 847	MAX MIN	78 61	80 59	82 59	82 59	83 59	79 59	80 59	82 60	84 60	85 63	84 63	82 63	76 63	83 63	83 64	84 64	85 62	82 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83.2 61.2	
WAIKIKI 717.2	MAX MIN	81 69	82 68	82 67	82 67	83 67	83 69	83 69	83 69	83 69	83 69	83 69	84 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81 69	81.2 68.9	
WAIMANALO EXP FARM	MAX MIN	79 70	80 70	80 70	81 70	81 71	81 71	81 71	81 71	82 71	82 71	82 71	85 71	80 71	81 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	82 71	81.4 69.9	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	77 68	79 68	80 68	81 64	81 69	78 67	77 71	78 66	80 66	82 66	84 66	80 68	81 69	78 73	83 70	81 67	79 67	80 70	81 72	80 66	80 75	81 68	80 69	81 69	81 69	76 69	78 69	80 69	80 69	80 70	80 70	79.8 68.6	
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	72 61	71 61	73 61	73 61	73 59		76 60	74 61	76 61	78 61	76 62		76 61	75 62	76 59	75 57	75 59	75 59	75 59	75 59	75 59	78 54	75 59	74 59	70 60	72 59		76 59	75 61	73 60	74.4 59.9		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	61 37	60 36	58 39	60 41	62 38	60 40	60 41	61 38	60 40	62 41	64 43	63 43	62 47	65 52	65 46	66 48	65 40	64 39	59 39	63 41	61 37	61 37	58 37	62 39	60 40	57 40	63 47	62 47	60 48	60 48	66 48	61.7 42.1	
HALEAKALA SUMMIT 338.4	MAX MIN	52 38	48 36	53 36	52 36	51 37	51 37	53 38	54 38	53 39	56 38	59 41	55 42	56 44	56 42	56 41	58 39	56 42	59 42	55 40	53 36	50 41	53 42	54 31	51 34	51 38	51 39	51 40	57 38	53 40	59 46	59 46	54.0 39.1	
MANA AIRPORT 355	MAX MIN	80 65	81 64	81 63	81 64	82 69	81 69	82 66	81 65	82 65	82 69	82 70	81 71	81 69	81 66	84 65	83 66	84 67	83 66	83 66	83 67	83 67	82 65	82 66	82 66	79 67	81 62	82 64	82 65	83 66	83 66	84 66	82.1 66.2	
KAHNAPALI AIRPORT	MAX MIN	81 65	82 65	83 65	82 64	82 68	82 67	82 65	84 65	83 66	82 69	82 69	82 73	81 70	84 69	86 67	85 67	86 67	86 67	82 65	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84.1 67.0	
KAHULUI WSO 398 AP	MAX MIN	83 69	84 69	85 59	83 63	84 62	86 62	86 61	86 61	87 61	87 66	89 65	86 65	88 69	88 69	86 68	86 68	86 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88.2 64.2	
KAILUA 446	MAX MIN	73 63	74 63	75 63	76 62	74 63	73 65	76 65	76 66	77 65	77 65	77 65	77 65	77 65	77 65	76 64	75 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	76 65	75.2 64.9	
KEAHAWA BEACH 260.2	MAX MIN	85 60	83 60	84 60	85 60	86 60	86 62	86 63	85 60	88 62	87 62	87 62	88 67	82 65	85 65	88 62	88 65	88 65	88 65	85 59	86 62	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	85.2 62.0

See Reference Notes Following Station Index

DAILY TEMPERATURES

Continued

HAWAII
MAY 1972

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KULA SANATORIUM 267	MAX	70	71	70	72	71	71	69	71	70	70	72	72	73	72	71	71	72	70	72	72	70	73	72	70	68	69	71	72	72	73	71	71.0	
	MIN	56	55	54	55	58	57	58	57	57	58	59	59	60	62	58	56	57	54	53	54	57	57	57	55	55	52	53	54	59	55	55	56.3	
LAHAINA 361	MAX	84	85	84	84	85	84	84	84	85	85	86	85	80	85	86	85	85	84	85	85	84	84	87	81	84	85	86	87	85	85	85	84.6	
	MIN	64	64	65	64	65	63	64	64	65	66	68	67	69	68	68	66	64	65	64	67	66	66	66	66	64	64	67	70	70	67	66	65.9	
WAILUKU 386	MAX	78	79	78	79	79		81	81	80	83	83		84	80	80	80		82			82	81	80	78	81		80	80	80	80.4			
	MIN	66	68	67	68	69		67	69	67	66	67		69	69	68	68		67			67	68	69	68	68		67	70	70	67.9			
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX	78	79	78	78	79	78	78	77	79	80	80	80	79	77	78	80	79	80	79	81	79	80	80	78	78	79	80	80	81	78	80	79.0	
	MIN	63	63	65	65	65	63	64	63	63	64	66	66	67	67	67	67	66	65	65	64	65	65	65	66	63	64	64	66	66	66	66	64.9	
HAWAII VOLCNS NP HO 54	MAX	66	67	68	63	70	67	68	67	65	71	70	72	65	67	73	68	67	67	66	70	66	66	66	66	63	68	68	70	53	68	67.5		
	MIN	52	52	52	53	52	50	51	52	52	51	52	56	52	55	53	50	50	52	48	52	52	51	51	51	49	49	50	50	50	51	51.5		
HILO WSD 87 AP	MAX	81	81	76	80	80	82	80	80	83	83	83	82	79	82	82	80	81	82	83	81	82	83	78	80	78	81	81	82	81	82	81.0		
	MIN	63	63	64	65	65	64	65	67	65	67	67	68	68	67	65	64	64	65	62	66	67	66	65	65	66	63	63	62	66	64	64	65.0	
KAINALIU 73.2	MAX	77	75	77	75	78	79	76	75	76	77	79	78	78	76	78	74	75	77	75	76	78	75	75	74	73	75	75	76	74	76	75	76.0	
	MIN	61	60	60	57	60	62	62	60	62	62	63	62	64	65	65	64	60	59	61	58	60	60	59	62	61	60	60	61	62	63	63	61.2	
KAMUELA 192.2	MAX	69	70	71	70	73	69	76	70	71	75	78	79	76	79	76	76	70	72	71	71	73	70	70	69	70	71	70	72	71	72	72.3		
	MIN	56	55	57	56	58	57	58	57	57	53	56	56	57	59	59	57	57	52	54	56	58	57	58	57	57	56	57	56	57	57	56.7		
KEAAU 92	MAX	78	79	77	73	78	79	79	78	77	81	81	80	79	79	81	80	78	79	79	81	79	79	80	77	78	76	79	79	81	80	80	78.8	
	MIN	63	62	63	59	63	63	64	65	64	59	60	60	66	67	65	63	63	63	63	62	64	65	64	63	64	62	62	61	62	64	63	62.9	
KEALAKEUA 26.2	MAX	75	75	78	75	78	78	76	77	77	78	78	78	78	76	78	76	75	77	77	78	77	77	74	74	74	76	73	75	77	76	77	76.4	
	MIN	62	61	61	59	61	63	63	61	64	64	64	63	64	65	65	65	62	60	62	59	60	60	60	61	59	60	59	61	60	63	61	61.7	
KOHALA MISSION 175.1	MAX	76	78	78	77	78	77	78	75	78	79	82	81	78	78	78	79	78	78	78	80	80	78	79	78	76	77	79	79	79	81	80	80	78.4
	MIN	64	64	66	64	66	66	65	65	66	66	67	67	68	68	67	68	66	65	66	66	66	67	67	65	65	64	65	66	66	69	67	67	65.9
KONA (KAILUA) 68.3	MAX	83	83	83	82	83		86	87	85	84	83		85	81	82	83	84			86	84	80	79	82		84	81	81	83.1				
	MIN	68	68	70	67	68		72	73	74	71	70		70	71	69	69	70			67	68	69	67	66		67	69	70	69	69.3			
KULANI CAMP 79	MAX	59	59	61	61	70	61	62	61	62	62	61	62	66	59	66	66	62	60	63	66	64	61	52	59	56	60	63	67	63	62	61.8		
	MIN	48	47	47	44	45	43	44	47	45	46	46	53	48	48	45	46	48	48	43	49	46	42	48	48	46	46	42	44	43	42	47	45.9	
MAUNA LOA SLOPE DBS	MAX	48	48	47	47	50	45	46	48	47	48	49	54	48	50	49	51	52	54	55	54	51	50	53	52	49	47	53	58	55	60	61	50.9	
	MIN	30	32	33	30	29	29	32	29	32	32	33	35	38	37	35	32	36	34	36	34	37	34	33	37	34	30	32	34	40	38	41	33.8	
MOUNTAIN VIEW 91	MAX	73	75	74	68	75	75	75	75	71	77	75	78	75	75	75	77	75	74	74	78	78	78	76	70	71	68	76	76	75	77	74.7		
	MIN	55	58	59	59	58	56	56	56	62	60	60	61	59	59	59	59	58	59	57	58	58	58	59	59	59	58	55	55	55	55	57.9		
NAALEHU 14	MAX	77	78	74	74	78	78	79	78	78	79	78	79	79	78	78	79	78	78	77	77	78	78	79	77	75	75	79	79	77	79	77.5		
	MIN	62	62	64	64	62	62	65	65	67	68	68	68	68	67	67	65	63	65	64	64	65	65	66	64	61	61	61	61	61	67	67	64.6	
ODKALA 223	MAX	77	78	78	77	76	78	79	79	78	79	79	79	79	80	80	79	79	79	78	80	79	79	78	79	79	78	79	80	80	80	78.7		
	MIN	65	64	65	66	65	65	67	66	66	66	65	66	64	68	67	68	66	66	67	66	66	66	66	66	66	66	65	65	66	67	67	65.9	
OPIHIHALE 2 24.1	MAX	73	78	74	78	78	79	78	78	80	81	81	77	80	80	73	76	75	77	74	77	74	74	71	72	73	78	73	77	76	77	75	76.4	
	MIN	57	60	58	58	60	56	57	59	62	61	64	61	66	65	61	59	58	59	56	59	58	61	60	58	58	60	59	61	59	62	60	59.7	
PAHALA 21	MAX	78	80	79	74	80		78	77	78	77	77	80	80	79	78	80	79	78	78		80	79	77	78	75		81	77	79	78.3			
	MIN	60	61	63	61	60		60	63	61	63	67		63	61	59	62	59			61	63	62	63	61		58	63	63	61.6				
PUAKO 95.1	MAX	84	85	84	88	85	84	84	80	85	84	83	83	85	82	84	87	86	84	84	86	83	85	84	85	83	83	82	88	83	84	86	84.3	
	MIN	70	66	68	66	66	69	68	69	68	67	71	71	72	73	70	71	70	68	69	68	71	66	67	72	68	69	69	68	69	67	69	69.0	
UPOLU POINT USCG 159.2	MAX	79	82	82	79	83	82	81	78	80	83	80	86	85	81	89	84	82	83	83	84	83	83	84	83	83	84	83	82	82	83	82.4		
	MIN	71	72	66	70	70	70	73	71	71	71	64	71	73	71	70	70	68	68	63	68	68	69	69	68	66	67	68	68	69	70	69	69.1	

EVAPORATION AND WIND

Station		Day of Month																															Total of Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP	.32	.33	.35	.32	.33	.32	.20	.23	.31	.31	.26	.27	.15	.11	.10	.27	.35	.39	.43	.38	.43	.36	.38	.31	.33	.32	.36	.27	*	.55	.23	9.27
	WIND	218	209	203	153	139	154	145	156	183	187	111	88	150	35	163	185	194	196	177	179	199	176	223	185	165	119	55	171	155	185	200	5038
	MIN	58	59	59	60	59	58	59	59	60	61	63	62	62	60	60	61	60	60	60	60	60	60	61	61	60	59	58	58	59	59	61	61	59.9
* * *																																	
ISLAND OF OAHU																																	
HONOLULU DBSERV 702.2	EVAP	.30	.37	.36	.30	.30	.37	.30	.30	.30	.23	.30	.30	.19	.15	.30	.38	.36	.35	.37	.26	.32	.32	.36	.40	.32	.32	.33	.45	.38	.39	.45	10.13
	WIND	37	37	31	21	25	30	25																									

STATION INDEX

HAWAII MAY 1972

Main data table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. Includes sub-sections for ISLAND OF MOLOKAI and ISLAND OF MAUI.

STATION INDEX

HAWAII
MAY 1972

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP.	PRECIP.	SPECIAL										TEMP.	PRECIP.	SPECIAL	
ISLAND OF HAWAII																							
MOUNTAIN VIEW 91	A 6552	02	PUNA	2 19 33	155 07	1530	6A	NA			PUNA SUGAR CO	PUU MALI 113	E 8515	01	HAWAIIA	1 19 55	155 26	6900				KUKAIAU RANCH CO	
NAALEHU 14	A 6588	03	KAU	3 19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO	PUU OO 82	E 8550	02	S MILO	1 19 44	155 23	6340	9A			MISS JACKIE BENLEHR	
NEPOPOO 28	A 6597	04	S KONA	4 19 28	155 35	673	7A	7A			KONA EXPERIMENT STA	PUU WAHAA 94.1	E 8558	03	N KONA	1 19 47	155 31	6250	7A			OILLINGHAM RANCH INC	
NIULII 179	A 6606	01	N KONA	1 20 14	155 45	75	9A	9A			KONA CORPORATION	SAOOLE ROAD 1 84	E 8590	02	S MILO	1 19 42	155 12	2340				BOARD OF WTR SUPPLY	
KOHALA 223	7131	02	N MILO	2 20 01	155 17	430	7A	7A			LAUPAHOE SUGAR CO	SOUTH POINT CORRAL 3	E 8675	03	KAU	3 18 57	155 41	500				HAWAIIAN PANCH COMPANY	
OPHIOMALIS 2 24.1	A 7183	02	PUNA	2 19 34	155 00	445	VAR	VAR			MISS C. LEONARD	UMUKA 118	E 8780	01	HAWAIIA	1 19 59	155 23	3420	7A			KUKAIAU RANCH CO	
OPCHIO LAHO EST 91.5	A 7204	01	HAWAIIA	1 20 05	155 26	415	7A	7A			STATE DIV OF FORESTRY	UPULU POINT USCG 159.2	E 8830	01	N KONA	1 20 15	155 53	61	8A			U S COAST GUARD	
PAIHUHU 217	7312	01	HAWAIIA	1 20 03	155 22	600	7A	7A			STATE DIV OF FISH-GAME	WAIKAKA SCG 89.2	E 9025	02	S MILO	2 19 40	155 08	1030	7A			SMITHSONIAN KANESHIRO	
PAUULU 221	A 7421	03	KAU	3 19 12	155 29	870	8A	8A			PAALUHA SUGAR CO	WAIKANOOUA 178.6	E 9350	01	N KONA	1 20 08	155 47	3830	7A			KAHUA RANCH	
PANALA 21	A 7421	03	KAU	3 19 12	155 29	870	8A	8A			HAWAIIAN AGR CO	NEW STATIONS ISLAND OF OAHU											
PANOA 65	7457	02	PUNA	2 19 30	154 57	870	7A	7A			PUNA SUGAR COMPANY	KAENA POINT 841.3	2410	04	WAIALUA	4 21 34	158 13	1240	9A			LOCKHEED BALL MISS DIV	
PAHAO 37	A 7643	03	KAU	3 19 22	155 28	5000	0A	0A			HAWAIIAN RANCH CO. INC.												
PAPAIAKU 144.1	7711	02	S MILO	2 19 47	155 08	1270	7A	7A			MAUNA REA SUGAR CO.												
PAPAIAKU MAUKA 140.1	7721	02	S MILO	2 19 47	155 08	1270	7A	7A			MAUNA REA SUGAR CO.												
PINOHUA 89	A 8051	02	S MILO	2 19 44	155 10	1730	VAR	VAR			STATE DIV OF FORESTRY												
PONAKULA 107	A 8093	02	HAWAIIA	2 19 45	155 32	9511	VAR	VAR			STATE DIVISION OF PAPRS												
PUAKO 95.1	A 8186	05	KOHALA	5 19 59	155 50	5	8A	8A			ERWIN W. RAPP												
PUU KIME 120	A 8393	01	HAWAIIA	1 19 56	155 24	7750					KUKAIAU RANCH CO												
PUU LAHU 102.1	A 8452	05	HAWAIIA	1 19 56	155 24	7750					STATE DIV OF FISH-GAME												
PUU LEHUA 73	A 8460	04	N KONA	4 19 34	155 49	4880					W.M. OPEENHILL RANCH												

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAUA 3-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index" indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- W2 Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Resittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.


 Director, National Climatic Center
 USCOM-NOAA-ASHEVILLE, N. C. 8-28 72-890

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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 ENVIRONMENTAL DATA SERVICE

HAWAII

JUNE 1972

Volume 68 No. 6

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation																	
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days							
										80° or Above	70° or Above	60° or Above	50° or Above					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	-10 or More	-50 or More	1.00 or More	
																												Max.	Min.
* * * ISLAND OF KAUAI																												
ANAOHOLA 1114 A	71.4	53.5	62.5		77	15+	47	22+		0	0	0	0	4.17	2.52		.41	11		.0	0				5	0	0	
KANALOAHULUHULU 1075 A										0	0	0	0	1.88						.0	0							
KAPAA STABLES 1104 A										0	0	0	0	4.96						.0	0							
KILAUEA FIELD 17 1135 A										0	0	0	0	5.49	.44					.0	0							
KILAUEA POINT 1133 A	82.2	75.3	78.8		88	9	71	7		0	0	0	0	1.89			.65	9		.0	0				5	1	0	
KOLCA 936 A																												
LIHUE WSD 1020.1 AP //R	83.1	72.0	77.6	1.0	85	15+	67	5		0	0	0	0	3.50	-.19		.51	9		.0	0				5	1	0	
MANA 1026 A	87.7	67.1	77.4	.7	91	15	64	28		5	0	0	0	1.74	.28		.22	23		.0	0				1	0	0	
N WAILUA DITCH 1051 A										0	0	0	0	4.40	-.24					.0	0							
PH WAINIHA 1115 A										0	0	0	0	11.08						.0	0							
PUEHU RIDGE 1040 A																												
WAHIAWA 930 A	80.4	63.9	72.2		83	4	58	5		0	0	0	0	4.99			.33	23		.0	0				1	0	0	
WAIAMI LOWER 1054 A										0	0	0	0	1.31	-.01					.0	0							
WAIWEE 947 A										0	0	0	0	6.91			.87	18		.0	0				18	5	0	
ISLAND			73.7											1.60	1.32		1.42	23		.0	0				2	1	1	
* * * ISLAND OF OAHU																												
HONOLULU OBSERV 702.2 R																												
HONOLULU WSD 703 AP	85.7	72.1	78.9	1.0	88	22+	66	5		0	0	0	0	1.46			.74	11		.0	0				2	2	0	
KAHUKU 912 A	86.7	74.0	80.4	3.7	87	30+	71	5		0	0	0	0	.79	.46		.41	3		.0	0				2	0	0	
KANEDHE MAUKA 781 A	81.7	70.9	76.3	.4	84	23+	66	6		0	0	0	0	1.94	.53		.39	9		.0	0				8	0	0	
KODIAU DAM 833 A										0	0	0	0	2.47	-.47		.38	4		.0	0					8	0	0
LUALUALEI 804 A	85.7	70.0	77.9		89	20+	63	22		0	0	0	0	6.15	-2.07		1.57	27		.0	0				13	3	2	
MAKAPUU POINT 724 A	78.2M	69.5	73.9M		85	12	60	1		0	0	0	0							.0	0							
NUUANU RES 4 783 A										0	0	0	0	.79						.0	0							
DPAEULA 870 A	78.7	61.9	70.3	-1.3	83	11	58	30+		0	0	0	0	2.27	-.23		.12	6		.0	0				1	0	0	
PALDLD VALLEY 718 R										0	0	0	0	4.70	2.45					.0	0							
PRI WAHIAWA 820.2 A	83.2	65.0	74.1		87	13	61	6		0	0	0	0	4.96	-3.83		1.02	8		.0	0				15	2	1	
WAHIAWA OAM 863 A										0	0	0	0	1.01						.0	0							
WAIHADLE 837 A										0	0	0	0	1.27						.0	0							
WAIWEE 896.3 A	83.7	69.6	76.7		86	13+	61	4		0	0	0	0	6.38	1.62		1.05	9		.0	0							
WAILUA 847 A	84.1	64.4	74.3	-1.0	89	13	60	6		0	0	0	0	1.98			.35	3		.0	0				6	0	0	
WAIKIKI 717.2 A	84.8M	70.3M	77.6M		87	7	66	23+		0	0	0	0	.79	.07		.79	6		.0	0				1	1	0	
WAIMANALO EXP FARM A	82.7	70.4	76.6		85	30+	65	5		0	0	0	0	1.05			.15	11		.0	0				2	0	0	
WAIWEE 750 A										0	0	0	0	.64	.04		.29	4		.0	0					4	0	0
ISLAND			76.1											2.08						.0	0							
* * * ISLAND OF MOLOKAI																												
KUALAPUU 534 A																												
MAPULEHU 542 A														1.23	-.56		.25	26		.0	0					7	0	0
MAUNALO A 511 A														1.63						.0	0							
MOLOKAI AP 524 A	80.6	69.4	75.0		85	13	65	2		0	0	0	0	1.88	1.13		1.60	4		.0	0					2	1	1
ISLAND			75.0											1.66						.0	0							
* * * ISLAND OF LANAI																												
LANAI CITY 672 A																												
ISLAND														1.36	-.06		.54	23		.0	0					1	0	
* * * ISLAND OF MAUI																												
HALEAKALA 8 E 5 434 A																												
HALEAKALA RS 338 A	65.4	45.9	55.7		74	26	40	22+		0	0	0	0	1.75	-1.03		.62	28		.0	0				6	1	0	
HANA AIRPORT 355 A	83.5	66.4	75.0		85	21+	63	7+		0	0	0	0	1.29			.77	23		.0	0				1	1	0	
HONCKOHUA 493 A										0	0	0	0	3.09			.52	10		.0	0					9	1	0
KANAPALI AIRPORT A	83.8	68.8	76.3		88	13	66	29+		0	0	0	0	1.03	-.65		.64	3		.0	0					3	1	0
KAHULUI WSD 398 AP R	85.7	66.3	76.0	-1.2	88	24+	60	2		0	0	0	0	1.15						.0	0							
KAILUA 446 A	77.6	65.7	71.7	-.2	80	23+	64	21+		0	0	0	0	.29	.11		.20	3		.0	0					1	0	0
KEANAE 346 A										0	0	0	0	4.56	3.01		.51	9		.0	0					14	1	0
KIPAHULU 258 A										0	0	0	0	8.50	5.27					.0	0							
KULA SANATORIUM 267 A	72.0	58.2	65.1	.2	75	7	55	7		0	0	0	0	6.07	1.69		.78	9		.0	0					18	4	0
LAHAINA 361 A	85.7	67.0	76.4		89	11+	65	22+		0	0	0	0	2.08	.39		.98	23		.0	0					6	1	0
PAIA 406 A										0	0	0	0	.92	.86		.78	5		.0	0					2	1	0
WAILUKU 386 A	81.5M	69.5M	75.5M	-.9	85	13+	67	5		0	0	0	0	.98	-.21		.47	4		.0	0							
ISLAND			71.5											1.07	.73					.0	0							
* * * ISLAND OF HAWAII																												
HAINA 214 A																												
HAWAII VOLCONS NP HQ 54 R	80.7	66.6	73.7	.7	84	23+	64	29+		0	0	0	0	1.21	-.71		.75	28		.0	0					2	1	0
HILD WSD 87 AP A	69.1M	53.6M	61.4M	-.6	79	8	49	3		0	0	0	0	4.92	-.39		1.48	28		.0	0					2	1	0
KUHEUE 92.1 A	83.0	67.6	75.3	1.0	87	3	63	2		0	0	0	0	4.58	2.21		.80	19		.0	0					14	2	0
KAINALIU 73.2 A	76.3	63.4	69.9							0	0	0	0	6.43	1.93		3.75	11		.0	0						3	1
					80	15	59	21		0	0	0	0	5.99	-1.96		1.20	12		.0	0					14	3	1

See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
	90° or Above	32° or Below	32° or Below	0° or Below	90° or Above	32° or Below	32° or Below	0° or Below															
KEAAU 92	81.0	65.4	73.2	- .5	85	4	63	23+		0	0	0	0	4.89	= 2.97	.90	28	.0	0		17	2	0
KEALAKEUA 26.2	76.7	63.1	69.9		80	6	60	23+		0	0	0	0	3.83		.71	16	.0	0		11	3	0
KONA (KAILUA) 68.3	84.2M	70.1M	77.2M		88	6	66	30+		0	0	0	0	2.08		1.22	20	.0	0		1	1	0
KUKUIAIELE HIC 199														1.31	= 1.73	.82	28	.0	0		1	1	0
KULANI CAMP 79	64.5	48.3	56.4		70	15+	41	2		0	0	0	0	4.48		.76	28	.0	0		13	1	0
PAMALA 21	79.8M	63.3M	71.6M	- .6	83	8+	59	21		0	0	0	0	1.61	.28	.0		.0	0				0
POHAKULOA 107														.12		.0		.0	0				0
PUAKO 95.1														.47		.0		.0	0				0
PUU WAAWAA 94.1														1.68	= .44	.74	12	.0	0				0
UMIKOA 118														1.44	= .26	.38	28	.0	0				0
WAIAKEA SCO 88.2														7.87		1.42	28	.0	0		17	6	2
ISLAND			70.7											3.31				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 13TH AT KEAWAKAPU BEACH 260.2, MAUI
 LOWEST TEMPERATURE: 32° ON THE 20TH AT MAUNA LOA SLOPE OBS, HAWAII
 GREATEST TOTAL PRECIPITATION: 18.07 INCHES AT MOUNT WAIALEALE 1047, KAUAI
 LEAST TOTAL PRECIPITATION: .00 AT 2 STATIONS
 GREATEST ONE-DAY PRECIPITATION: 4.66 INCHES ON THE 20TH AT LANIHOU 68.2, HAWAII

SPECIAL WEATHER SUMMARY

Mild weather prevailed over the State, with an otherwise uneventful June interrupted only by an episode of high waves, funnel cloud sightings, and record low atmospheric pressures.

On the 3d, a low pressure area (trough) 300 miles northwest of Oahu gave Lihue and Honolulu Airports their lowest sea-level pressure readings for June (29.80 inches) in 23 and 24 years of record, respectively. Pressures at Hilo and Kahului Airports were only 0.01 inch above their June record lows.

The low pressures were accompanied during the early morning of the 3d by showers that accounted for a good part of, and in some instances all, June's total rainfall on leeward Oahu, Molokai, Lanai, and Maui.

On the afternoon and evening of the 4th, high waves of undetermined origin (but generated possibly by an intense Southern Hemisphere storm near Lat. 65° S. and Long. 170° W, or by tropical storm IDA near the Solomon Islands, or by both) swept onto the southern shores of the islands. Swells of 10 to 12 feet were reported at Makahuena Point at the southern tip of Kauai and of 10 feet at nearby Poipu Beach. From about 3 p.m. to 10 p.m., waves up to 15 feet rolled into the narrow southward-opening entrance to Honolulu's Ala Wai Yacht Harbor. Shortly after 3 p.m., they capsized a 16-foot sailboat, and at about 3:45 p.m. an 18-foot sailboat and a 16-foot Boston Whaler. The 16-foot sailboat sank, the 18-foot boat righted itself, but with only the bare hull remaining, and the Boston Whaler lost all its equipment except the motor. At 5:30 p.m. a 30-foot sailboat, turned broadside by the high waves, lost some sails and rigging when the next wave broke across it, but managed to get back out to sea. The large waves occurred in sets of 6 to 10, with an average period of about 15 seconds, and appeared to build up suddenly from smaller waves at about 10-minute intervals.

High waves, presumably from the same source, were reported to have sunk two lighters loading copra at Washington Island (about Lat. 4° 43' N Long. 160° 24' W) on the 3d, but this has not been confirmed.

On the 10th, from 2:57 p.m. to 3:08 p.m., a dark cone-shaped funnel cloud was observed over the valley west of Pacific Palisades, Pearl City, Oahu. The funnel was described as sloping southeastward, extending downward about 1,000 feet from dark cumulus clouds having a flat base at 2,400 feet and tops of undetermined height. Nearby ground observers remarked on the counterclockwise rotation of the funnel and the narrow diameter (estimated at 10 feet) of its base, as it

moved toward the southwest.

On the night of the 19th, debris and high water closed Kuakini Highway in Kona, Hawaii Island, following a few hours of heavy rain.

Dry conditions continued to plague residents and cattlemen in the Makawao District, on the western slopes of Haleakala, on East Maui. Although rainfall in the area was near normal, June is one of the very driest months, so that amounts were quite inadequate to replenish the water supply or to meet current demands. Pastures were reported as deteriorating. Beginning on the 16th, fire permits were required in the area.

Elsewhere in the State, rainfall varied widely. Some stations reported many times their June normals, although actual amounts were small. For example, the modest 1.12 inches at Kaunakakai, Molokai, was fourteen times its average for the month.

On Kauai, rainfall was relatively evenly distributed throughout the month. Some gages in the Moloaa-Kapaa area in eastern Kauai, between Elele and Waimea on the southwestern coast, and Kolo near the western coast, had several times their average June rainfall. The central mountains, northern areas near Hanalei, southern coastal districts near Wahiawa, and Mana in the western portion of the island, ranged between 50 and 100 percent of normal, while all other areas had above their June average.

Oahu was driest (below one-third the June normal) in upland regions near Opaepa in the Koolau Mountains, in scattered gages above Waianae, and near Mokuleia on the northwest coast. Elsewhere, amounts ranged from somewhat below to somewhat above their average for June.

Lanai City had an average June, while other gages on the island were wetter than normal.

On Maui, rainfall in the central valley and in the Ulupalakua area exceeded normal by two to ten times, with most of the rain falling on the 3d. Windward East Maui watersheds ran above 50 percent, but below normal.

On Hawaii Island, most gages read less than the monthly normal. The Hamakua and Hilo coasts, while not as dry as in some recent months, were still reporting below their June averages. South Kona and North Kohala were below 50 percent of normal. It was reported that the continuing dry spell in North Kohala might result in an earlier than usual harvesting of cane, and a faster phase-out of some jobs at the recently closed Kohala Sugar Company.

SPECIAL WEATHER SUMMARY - Continued

Stations With More Rain in June 1972
than in Any Previous June

(25 years of record or more, only)

Station	Length of Period (Yrs.)	Previous Greatest June Total (Inches)	June 1972 (Inches)
<u>KAUAI</u>			
Anahola	42	3.91	4.17
Kapaa Stables	32	4.44	4.96

Stations With Less Rain in June 1972
than in Any Previous June

(25 years of record or more, only)

Station	Length of Period (Yrs.)	Previous Least June Total	June 1972
<u>HAWAII</u>			
Ahua Umi	51	0.14	0.07

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DAILY PRECIPITATION

HAWAII
JUNE 1972

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * * ISLAND OF KAUAI * * *																																		
ANAHOLA 1114	A	4.17				.10	.02					3.02				.20	*		.19			.15	.11	*		.15			.09	.09				
BRYDESWOOD STA 985	A	2.68	.04	.05	*		.07		.01			.03	T		.01	.32	*		.68	.01	.07	.05	.40	*		.59	.14	.04	.13	.06				
EAST LAMAI 934	A	3.28	.04	.06	*		.12	.01	.05	.02	.01		.39		.02	.18	.39	*		.53	.12	.03	.02	.05	*		.63	.06	.12	.34	.09			
ELELE 920	A	3.02	.01	T	*		.02	T				.01				.20	*		.17	T		2.43	*		.10	.02	.05	.01						
HALAULA 1110	A	4.12	.02	.10	*		.17	.03	.01				2.77			.14	*		.15			.20	.03	*		.20			.23	.03				
HALENANAMU 1006	A	5.20	.18	.04	*		.21	.02	.19	.04	.17	*	1.14	.03	.02	.05	.44	*		.38	.04	.03	.05	.07	*		1.39	.07	.05	.31	.28			
MUKIPO 945	A	4.48																																
ILILIULU INTAKE 1050	A	9.41	.07	.06	*		.41	.20	1.30	.11	.06	*	1.27	.30	.03	.28	.24	*		1.55	.11	.09	.15	.42	*		1.05	.16	.05	.56	.40			
INTAKE WAINIHA PC 1086	A	4.52		.24	*											1.36	*											2.92						
KANALOHULULU 1075	A	1.88			.02	.39	.03		.04	.09		.19	.41	.02	.04		.05			.02			.25	.09		.04			.12	.03				
KANEHA RESERVOIR 1092	A	7.47	.05	.10	*		.50	.10	.25	.03			3.30	.10	.04	.20	*		.70	.07	.11	.25	.27	*		.70	.05	.05	.30	.36				
KAPAA STABLES 1104	A	4.96	.02	.05	*		.19	.05	.13	.10			2.70	.04		.14	*		.05	.07	.11	.20	*			.75	.02	.02	.20	.10				
KEALIA 1112	A	3.63	.02	.09	*		.11	.03	.01				2.35	.02		.11	*		.11		.03	.25	.10	*		.16	.01		.23	.03				
KERAMA 944	A	4.07					.07						.15																					
KILAUEA 1134	A	3.72	.10	.15	*		.10	.07	.07	.08	.03	*	.95	.08	.08	.05	.07	*		.40	.03	.25	.25	.05	*		.30	.05	.30	.10	.16			
KILAUEA FIELO 17 1135	A	5.49	.07	.10	*		.15	.15	.48	.07	.04	*	1.40	.07	.12	.13	*		.68	.05	.24	.04	.32	*		.60	.08	.15	.35	.18				
KILAUEA POINT 1133	A	1.89			.07			.07	.10	.02	.05	.13				.09			.05	.09						.07	.04		.17					
KOLO 1033	A	1.38				.14						.80																						
KOLOA 936	A	3.50	.02	.12	*		.04	.14	.07	.06	.07	*	.04	.02	.15	.26	*		.95	.06	.09	.03	.09	*		.70	.03	.18	.43	.06				
KOLOA MAUKA 994	A	3.73	.09	.05	*		.14	.04	.26	.05	.10	*	.09	.02	.02	.07	.50	*		.41	.07	.04	.06	.11	*		.88	.13	.11	.31	.18			
KOLOKO RES 1137	A	7.20	.08	.12	*		.12	.08	.60	.10	.15	*	3.50	.07	.03	.24	*		.24	.10	.31	.04	.15	*		.54	.10	.23	.20	.20				
KUKUIULA 935	A	1.77	.01	*			.06	.15	.11	.05		*	.12	.02	.01	.10	.24	*		.34	.05	.02	.02	.01	*		.36	.04	.05	.16				
LIHUE VARIETY STA	A	4.71	.05	.19	*		.07	.15	.18	.06		.91	.85	.02	.01	.16	.08	*		.36	.07	.25	.10	.14	.20	*	.41	.08	.06	.27	.05			
LIHUE 1020	A	3.51					.04	.16	.08	.12			1.33	.03	.05	.03	.41	*		.06	.01	.12	.05	.02	*		.45	.12	.02	.40	.01			
LIHUE WSO 1020.1 AP	/R	1.74	T	T		.01	.05	.07	.01	.03	.51	.08				.27	T	.04			.09	.02	T	.05	.14	.13	T	.20	T					
HAKAHEUNA POINT 940.1	A	1.76	.08			.02			.14	.01		.03	.01			.01	.16			.07						.05	.01	.02	.02	.10	.01			
HAKAHEUNA 965	A	1.08			.04											.15				.01						.81	.01	.01	.04	.01				
MANA 1026	A	1.40			.02		.03																			.04	.22	.02						
MOHINI UPR CROSS 1083	A	1.91			.07				.07	.50		.21								.07	.07	.14				.29		.07	.07	.14				
MOLAA 1145	A	3.59		.06	*		.14	.04	.08				2.49	.10					.07	.06	*					.16	.02	.03	.05	*				
MOUNT WAIALEALE 1047	R	18.07	.71		.04				1.12	.38	.04	1.18	.31	.12		.12	.04	.24	.51	.75	1.26	.87	.63	.16	1.73	.94	1.57	.68	1.18	.39	1.65	.24	.91	
NTU RIDGE 1035	A	1.39				.15			.56	.16		1.06			.26	*		.04								.15		.05						
N WAILUA OITCH 1051	A	11.05	.10	.16	*		.56	.16	1.06		.26	*		1.50	.40		.10	.70	*		1.02	.16	.26	1.16	*		1.80	.16	.30	.86	.36			
PH WAINIHA 1115	A	4.67		.05	T	.44			.40	.02	.01		.10	.58			.15	.07	.18	.05	.17	.30	.09	.16	.07	.02	.16	.13	.07	.17	.23	.52	.12	
PRINGEVILLE RANCH 1117	A	4.53	.06	.02	*		.18	.05	.69	.22	.10	*				.65	.05	.05	.19	*						.32	.03	.20	.48	.19				
PUEHU RIDGE 1040	A	4.49														.03										.33		.05						.08
PUMI 101	A	4.82		.03	*		.15	.14	.12	.15	.04	*	1.83	.08	.02	.06	.39	*		.10	.08	.06	.05	.04	*		.89	.15	.06	.45	.13			
RESERVOIR 6 1004	A	4.07	.04	.08	*		.05	.05	.29	.03	.02	*	.57	.03	.04	.36	*		.45	.08	.05	.09	.07	*		.11	.14	.12					.07	
WAIHANA 930	A	1.31	.01	*			.01	*	*	*	*	*	*	*	*	T	.29	*									.34	.66	.08	.02	T			
WAIHANA MOUNTAIN 990	A	8.25		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.25
WAIHI LOWER 1054	A	6.91	.03	.06		.10		.05	.61	.06	.12	.66	.36	.03	.06	.02	.10	.17	.20	.87	.19	.06	.30	.28	.81	.46	.40	.11	.03	.65	.12			
WAIHI UPPER 1052	A	6.90	.10	.02	.06		.13	.89	.05	.10		.41	.46	.34	.05	.11	.10	.53	.64	.30	.20	.05	.11	.20	.35	.26	.29	.13	.01	.75	.24			
WAILUA 943	A	1.64				.17						.20				2.56					.03					.17								
WAILUA KAI 1065	A	3.97		.07	*			.04	.12	.05	*				2.56				.18			.10	*		.06	.08	.14	.07						
WAIKOA 947	A	1.60																																
WEST LAMAI 931	A	1.73	.01			T			.01	T	*		.26	.01		.04	.31	*		.43	.02	.01	.07	*		.37	T	.07	.12					
* * * ISLAND OF OAHU * * *																																		
BERETANIA PUMPING STA	A	1.08	.01		.46								.10	.07	T		.01	.15		.01	.05		.09					.13						
CAMPBELL INO PK 702.5	A	1.05						.02					.01	.01	T		.30	*									.15	*		.04				
CAMP 84 807	A	1.20														.01											.02							
CHURCH COLLEGE LAIE	A	2.09	.05		.21	.41		.01	.06		.29	.03		.01		.07	.03	.05	.06			.01	.06	.13	.03	.05	.04	.01		.31				
CONOUT ISLAND 840.1	A	1.07		.19		.09		.01	.06		.15			.01	.01	.07	.03	.05	.06			.02	.09	.04	.01	.07	.07	.01	.04	.01	.01	.03		
EWA PLANTATION 741	A	.51					.40							.11																				
HELEHAND INTAKE 881	A	1.29	.09	*	*		.16							.54								.17	*				.27	*		.06	*			
HOKULU 725.2	A	1.49		*	*		.16							.93								.34	*											
HONOLULU OBSERV 702.2	A	1.46	.02	.66		.01	.03						.74																					
HONOLULU WSO 703 AP	R	1.79	.01		.41	T							.25	T	T	T	.02	T	.01	T		.01	T		T	.04	T	T	.01	.04	T			
HONOLULU 5UBSTA 704	R	1.13		.45		.06						.41				.07						.02	.02		.06			.03	.07					
H S P A EXP STA 707	R	1.36	.05	T	.42						.01		.01	.10	.02	T	.01	*			.29	.11	.01	.11	*		.08	.06		.01	.01			
KAENA POINT 841.3	A	1.20			.22	.02						.73			.01	*																		

DAILY PRECIPITATION

HAWAII
JUNE 1972

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KEALAKEUA 26.2	3.83	.02	.17	.23	.01			.02		.06	.21	.70	T	.05	.06	.71		.06	.16	.11	.03	.09	.17	.57	.02	.11	.02	T			.25			
KEHENA 181.2	5.18	*	*	*	*	*	5.18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KIDLAKAS A C F 6	4.64	*	*	*	*	*	T	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.64
KIPA 89.2	9.06	.18	.04	.28	.02	T	.02	.83	.53	.32	.21	.10	.01	.03	.07	.05	.25	.39	1.11	.51	.01	.47	.17	.52	.06	.15	.39	1.77	.63	.03				
KOHALA MAULILI 176	1.74	*	*	*	.09	.04	.02						.13	.02	.01																			
KOHALA MISSION 175.1	1.50			.02	.06	.04		.20	.01	.02		.12	.03			.72	.04	.21	.24	.05	T	T	T	.01	.11	.17	.17	T						
KOIALE LOWER 196	2.86	*	.02	*	*	*		.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KONA (KAIIUA) 68.3	2.08		.03				.04	.04	*	*	.38	.01	.02	.03																			1.10	
KONA VILLAGE 93.8	.43																																	
KUKAIUA 222	2.95			.12	.10	.09	.01	.05							T	T	.12	.12	.12	.04				.03	.05	1.78	.20	.12						
KUKUIHAELE HIC 199	1.31				.03	.04		.05	.06	.06		.07							.05	.08						.02	.01	.82	.02					
KUKUIHAELE MILL 206	1.32			*	.07	.07	.02	.02	.07			.16		.02		*	.07							.02	.02	.01	.82	.01						
KULANI CAMP 79	4.48	.02		.30	.18	.18	.05	.30	.04		.76	.07				.06	.48	.26	.30	.19	.35	.35	.02	.19	.19	.76	.44	.05						
KULANI MAUKA 76	.87			.03	.09	.45	*	*	*																									
KULANI SCHOOL SITE 78	2.29	*	*	.17	*	*	*	*	*		.20	*	*	*	*	*	*	*	.15	.09	.08													
LANIUA 68.2	13.74		.16	.51			.37	.07	.58	2.07	1.48	.14	.18	.12		.61	.67	4.66	.30				1.10		.35	.11						.63		
MAKAMALAU 103	.83				T				*	*	*	.40	.22	T					.12								.40		T					
MANUKA 2	.80																																	
MAUNA LOA SLOPE OBS	.55	*	.22	.15	*	*	.20	.02	*	.15	*	1.86	*	*	*	.57	*	.18	T															
MIDDLE HDLUALOA 68.1	6.00	*	.22	*	*	*	*	*	.15	*	*	1.86	*	*	*	.57	*	.18	.77	1.25	*	*	*	*	*	*	.48	*	*	*	*	.70		
MIDDLE PEN 147.1	.00																																	
MOAULA 18	1.75			*	*	*		*	*																								1.75	
MOUNTAIN VIEW 91	7.85	.15	.13		.27	.02	.01	.41	.62	.04	.32	.08	.02	.04	.21	.06	.30	.94	.91	.02	.37	.07	.20	.28	.41	.10	1.35	.50	.02					
NAALEHU 14	1.86	*	.02		T		.30	.77	.30	.49					*	*	.18	.18																
NAPDOPO 28	1.84	*	*	*	.32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
NIULII 179	1.64					.26	.07	.01	.15	.07	.05	.03			*	*	.46	.12					.10	*	*	.02	.06	.31	.01					
OKALA 223	3.00	*	.67	*	.17	.03	.01	.10	.03	.01					.67	*	.01	.09																
OPHIHALE 2 24.1	1.92	.06	.01	.03	T	*	*	.11	.19	.50	T	*	.09	.03	.01	.11	.23	.08	.13	.02	.02	.24	.01	.01	.01	.10	.07	.43						
ORCHID LAND EST 91.5	6.25	*	.06	.01	.03	T	*	.11	.19	.50	T	*	.09	.03	.01	.11	.23	.08	.13	.02	.02	.24	.01	.01	.01	.10	.07	.43						
PAAUHUA 217	.96	*	.06	.01	.03	T	*	.11	.19	.50	T	*	.09	.03	.01	.11	.23	.08	.13	.02	.02	.24	.01	.01	.01	.10	.07	.43						
PAAUHUA 221	2.14				.01	.08	.04	.01	.03			T			.08	.06	.03	.01					T	.03	1.47	.18	T	.11						
PAHALA 21	1.61		.02	*	.01		.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01		
PAHUA 65	7.57	.15	.08	*	.17	*	.14	.35	.35	.02	.18	.09	.08	.32	.09	.08	.44	1.38	.61	.05	.44	.07	.32	.22	.29	.44	.30	1.12	.15	.15				
PAKAO 37	2.45	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PAPAIKOU 144.1	6.02	.08	.02	.03	T		.03	.27	.25	T	.08	.02	.07	.16	.05	.42	.33	.86	.54	.15	.06	.51	.14	.12	.18	1.04	.51	.10						
PAPAIKOU MAUKA 140.1	7.56	.13	.01	.22	.01	.08	.01	.45	.50	.06	.09	.04	.10	.04	.07	.34	.30	1.10	.35	.03	.37	.11	.47	.15	.21	.45	1.45	.21	.21					
PIIHONUA 89	9.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9.40	
POHAKULUA 107	.12																																	
PUAKO 95.1	.47	*	*	.07	T	*	*	.03	.01	.12	.09	*	*	*	*	*	.05	*	*	*	.01	*	*	*	*	*	*	*	*	*	*	.09		
PUU KIIHE 120	.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.53	
PUU LAU 102.1	.24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.24	
PUU LEHUA 73	.92	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.92	
PUU MALI 113	.81	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.81	
PUU OO 82	.71	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.71	
PUU HAANAA 94.1	1.68		.08	*	.24	*	.03		.41	.74				.02	*	.08	.41	.22	T	.06	.15	.12	.15	.01	.05	.02	.22	.01	T					
SADDLE ROAD 1 84	6.69	*	.44	*	*	*	*	.75	*	*	*	*	*	*	.60	*	*	*	*	*	*	*	1.30	*	*	*	*	*	*	*	*	3.60		
SOUTH POINT CORRAL 3	1.78	*	*	*	.10	*	*	.16	*	*	*	*	*	*	*	*	.30	*	*	*	*	*	*	.22	*	*	*	*	*	*	*	*		
UMIKOA 118	1.44			.16	.03	.14	.12	.04	.03	.03												.03						.38	.27					
UPDLU POINT USCG 159.2	1.33			T	T		.09	.04	.55	.05	.12	.07	T		.02	T	T	.10	T						.11	.30								
WAIKAE SCD 88.2	7.87	.15	.01	.16	.03	T	T	.60	.27	.23	.21	.02	T	.02	.01	T	.51	1.30	.92	.37	.14	.52	.15	.20	.21	1.42	.36	.06						

SUPPLEMENTAL DATA

	Wind (Speed - m.p.h.)					Relative humidity averages- percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover sunrise to sunset		
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99			2.00 and over	Total
							02	08	14	20									
HILD WSD 87 AP	9	0.3	6.1	17	E	03	90	81	67	85	4	9	12	2	0	0	27	39	8.4
HONOLULU WSD 703 AP	6	10.9	13.8	29	NE	27	74	67	54	68	13	6	2	0	0	0	21	66	7.3
KAHULUI WSD 398 AP	5	10.7	12.6	31	E	25	83	69	55	74	10	2	1	0	0	0	13	72	7.2
LIHUE WSD 1020.1 AP	5	8.1	10.0	26	NE	27	84	77	68	77	11	11	4	1	0	0	27	59	7.4

DAILY TEMPERATURES

HAWAII
JUNE 1972

Station	Day of Month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF HAWAII																																		
KANALOHULU HSO 1075	MAX MIN	68 52	68 49	66 53	68 52	72 47	70 46	75 53	70 52	72 59	71 53	77 53	72 50	72 54	75 50	77 55	73 57	71 58	72 56	74 52	73 56	71 50	75 47	74 54	65 58	70 59	69 58	68 52	67 56	71 54	73 59	71.4 53.5		
KILA EA POINT 1133	MAX MIN	80 74	80 73	84 73	85 73	84 75	82 74	81 71	83 76	88 80	84 73	84 79	83 75	81 74	82 77	82 77	81 76	81 75	82 75	82 76	83 74	83 78	84 75	84 77	82 76	84 76	82 76	80 76	79 75	80 76	82 76	81.2 75.3		
LIHUE HSO 1020.1 AP	MAX MIN	82 72	81 70	84 68	80 70	82 67	82 71	83 73	84 72	85 72	83 71	83 69	84 70	83 73	84 74	85 74	83 73	84 75	84 73	84 70	84 73	85 70	84 69	84 74	83 74	83 74	82 72	83 72	84 74	82 73	83 74	83.1 72.0		
MAKAHUNA POINT 940.1	MAX MIN	83 71	84 69	86 69	75 72	86 73	86 68	86 69	83 75	82 70	89 89	89 89	89 89	82 77	83 72	83 72	84 71	85 71	85 71	85 72	85 72	85 72	85 72	86 77	85 70	85 71	85 71	82 72	83 71	83 72	83 71	84 71	84.2 71.5	
HANA 1024	MAX MIN	84 65	84 65	86 68	83 69	85 65	87 65	87 66	88 69	87 66	89 66	85 66	85 68	89 68	89 68	91 68	90 67	88 68	89 67	89 66	89 66	89 66	89 66	89 66	87 68	87 66	89 66	87 71	86 70	88 67	90 64	88 65	90 67	87.7 67.1
KUU RIDGE 1435	MAX MIN	78 64	82 62	81 61	82 60	80 60	82 61	82 63	81 64	80 63	81 64	83 64	83 62	83 63	84 62	83 63	84 63	82 63	83 64	83 64	82 61	83 61	84 63	83 62	83 62	81 62	81 65	81 63	80 60	83 61	82 62	83 62	81.9 62.5	
WAIAMI LOWER 1054	MAX MIN	79 67	80 61	82 60	83 62	78 58	78 60	80 66	81 61	80 61	80 61	80 62	80 61	80 61	82 61	81 64	81 64	82 67	81 67	81 65	81 61	81 61	82 60	81 65	81 65	81 65	80 67	79 68	78 66	80 66	81 66	81 66	80.4 63.9	
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	84 69	85 65		84 64	85 64	87 69	87 69	88 71		88 66	88 68	85 68	85 69	86 69		87 69	86 66	85 66	85 66		87 67	86 66	88 67	88 67		87 70	82 72	85 70	83 68	86 67	85.9 68.0		
HONOLULU HSO 703 AP	MAX MIN	86 71	83 71	82 70	82 68	85 66	87 67	86 72	88 74	82 75	84 80	82 80	88 83	87 81	86 82	87 80	87 81	87 80	87 80	87 80	87 80	87 80	87 80	87 80	87 80	87 80	86 74	84 74	86 73	85 74	87 73	87 73	85.7 72.1	
HONOLULU SUBSTA 704	MAX MIN	82 72	82 72	81 71	81 70	82 70	82 70	83 72	83 73	81 73	80 73	83 72	83 71	81 71	82 72	83 73	80 74	81 72	80 72	80 72	80 72	80 72	80 72	80 74	80 74	80 74	80 72	80 72	80 72	80 73	82 72	82 73	81.2 72.0	
KAHUKU 912	MAX MIN	84 72	83 74	86 74	87 77	87 81	87 75	87 87	87 72	87 73	87 72	87 75	87 75	87 73	87 74	87 76	87 75	87 75	87 75	87 74	87 74	87 74	87 74	87 74	87 74	87 74	87 74	87 74	87 74	87 74	87 74	87 74	86.7 74.0	
KANEOME HAUKA 781	MAX MIN	80 68	81 69	81 72	80 69	79 66	81 66	82 69	82 71	84 70	78 71	82 72	84 70	84 71	83 72	82 74	83 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	81.7 70.9
LUALUALEI 804	MAX MIN	84 73	84 71	85 71	83 70	85 65	85 69	84 73	85 73	85 73	85 65	85 67	86 67	86 70	86 71	86 74	86 71	86 72	86 72	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	86 70	85.7 70.0
MAKAPUU POINT 724	MAX MIN	77 60	78 70	78 68	74 63	73 71	78 68	74 67	81 70	81 65	80 69	84 72	85 70	85 69	82 70	80 69	80 72	80 71	80 71	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	80 70	78.2 69.5
OPAEULA 870	MAX MIN	80 62	80 59	80 60	80 63	80 58	80 59	80 62	80 59	80 62	80 63	80 59	81 63	81 62	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	81 63	78.7 61.9
PRI WAHIAWA 820.2	MAX MIN	82 65	84 62	82 63	80 63	83 62	84 61	84 64	84 67	86 68	80 65	86 66	86 63	87 65	82 68	83 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	83.2 65.0
WAIALEE 696.3	MAX MIN	83 70	83 68	82 68	81 61	83 70	83 69	84 70	84 69	85 71	83 69	86 80	85 76	84 81	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	83.7 69.6
WAIALUA 647	MAX MIN	85 66	86 63	83 63	82 64	79 62	81 60	86 67	85 66	88 68	82 68	81 66	83 66	81 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	84.1 64.4
WAIKIKI 717.2	MAX MIN	84 70	83 73	84 66	83 67	84 66	84 66	85 71	85 72	85 72	83 71	86 71	85 71	85 68	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	85 72	84.8 70.3
WAIMANALO EXP FARM	MAX MIN	82 70	82 71	82 70	82 66	76 65	79 66	83 70	82 71	83 71	84 71	85 71	84 68	83 70	83 72	84 72	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	83 71	82.7 70.4
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	80 70	81 65	80 69	77 70	77 68	79 66	82 66	78 70	83 72	82 70	80 76	81 68	85 68	83 70	82 70	82 70	81 69	80 74	81 69	83 69	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	81 68	80.6 69.4
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN																																	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	67 45	61 40	59 48	56 48	60 49	67 47	68 49	70 50	69 46	71 46	67 46	59 46	73 50	71 49	70 47	65 48	67 46	64 41	63 41	62 45	62 42	62 42	62 42	62 42	62 42	62 42	62 42	62 42	62 42	62 42	62 42	62 42	65.4 45.9
HALEAKALA SUMMIT 338.4	MAX MIN	57 43	55 34	59 38	52 40	58 44	58 40	62 45	63 46	64 46	65 45	65 45	66 45	66 46	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	66 35	58.8 41.7
HANA AIRPORT 355	MAX MIN	84 67	84 65	82 64	84 65	83 67	82 63	83 66	83 66	84 66	83 67	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	83.5 66.4
KAANAPALI AIRPORT	MAX MIN	85 67	83 68	81 70	79 69	79 66	82 66	84 68	84 69	85 70	84 70	84 70	85 70	85 68	84 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	83.8 68.8
KAHULUI HSO 398 AP	MAX MIN	86 66	84 65	81 65	80 63	82 63	83 66	83 66	87 66	88 67	88 67	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	87 65	85.7 66.3
KAILUA 446	MAX MIN	76 66	76 65	76 65	77 65	77 65	76 65	77 65	77 65	77 65	76 65	76 65	78 66	78 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	77.6 65.7
KEAOKAPU BEACH 260.2	MAX MIN	89 68	88 65	88 69	81 68	86 67	87 64	87 66	85 69	84 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	86 69	87.4 65.9

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
JUNE 1972

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	73	70	73	68	73	74	75	72	71	72	71	70	74	72	73	74	73	73	73	72	70	72	69	70	70	72	71	74	74	71	72.0 58.2	
	MIN	58	58	59	59	58	59	55	56	59	60	60	59	60	59	57	58	59	60	58	57	58	59	57	58	57	58	58	59	57	58		
LAHAINA 361	MAX	84	83	81	83	89	85	85	85	84	86	89	85	86	86	87	86	88	87	87	86	85	84	86	86	88	86	87	86	85	85	85.7 67.0	
	MIN	69	67	68	66	67	65	67	67	68	67	65	67	68	68	67	69	68	68	68	66	67	65	66	68	66	67	69	66	66	66		
WAILUKU 386	MAX	82	82			81	79	79	79	80			85	85	83	82	82				82	83	81	81	82		83	80	81	81	81	81.5 69.5	
	MIN	69	69			67	69	69	69	71			68	70	70	71	71				69	70	69	68	70		70	70	70	71	70		
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	80	81	78	80	80	76	77	82	81	80	80	84	82	80	82	83	82	81	81	82	83	83	84	84	83	82	80	80	78	80	75	80.7 66.6
	MIN	68	64	65	65	67	66	65	65	67	67	66	65	70	68	68	67	67	67	66	66	65	65	66	68	68	70	67	66	64	69		
HAWAII VOLCNS NP HQ 54	MAX	66		67	68	70	72		79	71	71	71	67	72	69	71	71	66	70	69	69	68	70	68	65	70	68	62	66	68	69.1 53.6		
	MIN	53		49	56	54	56		50	56	58	56	54	55	54	55	54	54	53	52	51	50	55	54	53	55	55	55	52	50			
HILO WSD 87 AP	MAX	81	82	87	82	80	82	82	84	83	84	86	85	84	84	84	85	85	82	82	83	83	84	83	83	82	82	81	82	83	81	83.0 67.6	
	MIN	67	63	65	68	69	68	68	69	70	71	70	67	70	69	68	67	68	66	68	65	65	65	69	69	65	68	69	69	68	66		
KAINALIU 73.2	MAX	75	75	76	76	78	79	79	78	76	77	75	77	72	74	80	77	78	76	75	74	75	74	77	76	76	76	77	75	78	78	76.3 63.4	
	MIN	63	61	62	63	63	62	65	62	66	66	67	65	66	65	65	68	64	63	65	62	59	60	60	63	65	66	65	63	61	61		
KAMUELA 192.2	MAX	70	72	72	74	80	76	75	76	73	74	76	79	72	69	71	72	73	74	73	73	73	74	76	74	72	70	68	70	73	73.1 57.0		
	MIN	56	55	56	56	57	56	55	57	58	58	60	56	58	58	57	58	57	58	58	58	57	52	54	58	57	59	58	58	57			
KEAAU 92	MAX	80	79	79	85	83	80	79	83	81	81	81	79	82	82	82	83	82	83	81	80	81	81	81	80	80	80	79	80	82	81.0 65.4		
	MIN	65	63	63	64	67	67	67	66	68	68	68	63	63	66	67	65	65	66	67	64	64	63	63	67	65	66	66	65	65			
KEALAKEUA 26.2	MAX	75	77	76	76	78	80	79	77	77	76	76	74	73	76	79	78	78	77	76	76	77	75	78	75	78	74	78	75	79	78	76.7 63.1	
	MIN	62	61	60	61	62	62	63	63	66	66	67	65	66	65	65	62	63	63	65	61	60	60	60	63	64	65	65	63	62	62		
KOHALA MISSION 175.1	MAX	79	80	80	82	84	76	78	82	82	80	82	84	81	80	81	81	82	81	81	80	81	82	82	82	81	78	78	76	80	82	80.6 67.2	
	MIN	68	65	67	66	67	66	66	66	67	69	69	67	69	68	68	69	69	66	67	67	66	66	66	70	69	68	67	67	65			
KONA (KAILUA) 68.3	MAX	81	84			85	88	87	87	85			84	80	84	84	84				85	85	83	83	85		83	85	81	85	85	84.2 70.1	
	MIN	72	68			71	71	71	71	71			72	72	73	70	72				70	66	67	69	68		70	72	71	70	66		
KULANI CAMP 79	MAX	61	61	62	65	65	65	68	68	68	65	67	67	70	70	70	70	66	66	65	64	62	61	60	63	63	61	66	66	59	59	62	64.5 48.3
	MIN	50	41	42	51	49	49	50	46	52	52	48	49	45	45	59	48	50	51	47	49	45	45	51	51	43	48	48	51	49	44		
MAUNA LOA SLOPE OBS	MAX	55	52	56	55	56	55	53	55	55	56	56	63	60	59	58	54	54	52	53	50	51	50	60	64	66	61	60	54	52	51	55.9 38.6	
	MIN	43	37	36	38	38	40	39	38	37	38	40	39	42	40	40	38	36	35	34	32	34	34	39	43	46	47	42	40	37	37		
MOUNTAIN VIEW 91	MAX	76	72	77	77	77	76	75	80	74	76	76	76	78	76	76	77	78	78	78	72	77	78	78	76	76	76	73	70	74	76	76.0 59.1	
	MIN	55	55	57	57	57	57	61	62	63	59	59	59	59	61	62	61	60	60	60	59	57	57	58	58	58	62	64	60	59			
NAALEHU 14	MAX	78	77	77	81	81	81	82	83	79	79	79	79	77	79	80	80	80	79	79	80	80	80	80	79	78	78	78	79	79	79	79.3 66.4	
	MIN	68	63	63	64	64	67	64	67	68	68	66	66	67	67	67	68	68	66	66	67	63	65	67	67	67	67	69	69	67	67		
OOKALA 223	MAX	80	78	83	84	87	75	77	82	81	79	81	82	81	81	82	82	82	82	80	80	81	81	80	82	81	80	80	76	80	81	80.7 66.7	
	MIN	62	66	65	65	65	67	68	67	67	69	68	68	69	69	69	69	63	66	67	65	67	65	65	65	67	69	67	66	66	66		
OPIHIHALE 2 24.1	MAX	77	72	76	79	80	76	76	74	74	75	76	73	78	81						79	72	76	77	75	75	79	75	78	74	75	76.1 63.1	
	MIN	64	62	61	62	65	66	68	62	64	66	66	62	64	65						61	60	60	62	61	63	65	66	61	60	62		
PAHALA 21	MAX	80	78			81	81	83	83	79	79	78	78	81	81					80	79	79	78	79		80	79	78	79	79	79	79.8 63.3	
	MIN	64	61			62	68	63	64	67			62	62	64	63	63				63	63	59	60	62		64	67	64	65	62		
PUAKO 95.1	MAX	86	82	84	83	79	89	88	88	85	85	85	84	86	89	89	87	86	83	85	86	88	85	85	86	84	84	87	87	86	86	85.6 70.8	
	MIN	70	67	68	70	69	69	71	70	72	73	73	66	69	73	73	72	72	71	72	71	69	69	70	69	70	74	73	73	68	68		
UPOLI POINT USCG 159.2	MAX	83	84	84	84	84	83	84	84	86	83	86	85	84	83	83	84	83	83	83	84	84	84	83	85	86	84	82	84	80	83	83.7 69.5	
	MIN	69	69	72	71	70	69	69	68	69	69	69	69	67	70	69	69	71	69	68	66	70	71	69	72	71	74	63	65	71	71		

EVAPORATION AND WIND

Station		Day of Month																															Total for Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP	.21	.35	.22	.20	.30	.12	.39	.14	.17	.26	.12	.26	.27	.28	.36	.34	.28	.39	.34	.41	.40	.39	.34	.35	.32	.23	.29	.32	.45	.29	8.79 42.41 81.0 61.3	
	WIND	178	102	58	56	98	78	131	96	93	64	52	67	78	113	158	164	166	207	223	191	117	93	120	178	209	235	251	264	215	176		
	MIN	75	83	80	77	75	80	86	83	83	86	80	83	85	86	85	84	80	83	82	83	83	84	85	84	81	76	77	80	78	82		
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.32	.30	.21	.20	.21	.30	.20	.33	.30		.29	.21	.30	.15	.28	.30	.19	.30	.33	.36	.34	.27	.28	.28	.30	.42	.30	.42	.40	.30	8.688 1118 89.6 66.0	
	WIND	43	27	63	40	28	27	29	24	42	32	27	25	27	23	34	40	41	40	44	40	28	30	38	37	53	56	50	56	40	34		
	MAX	89	88	87	88	90	87	90	94	87	90	95	96	97	87	91	93	86	92	92													

LATE REPORTS

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII

Station	Temperature										Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days			Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										50° or Above	55° or Above	32° or Below										
* * * JULY 1971 WAIALEE 896.3	83.3	71.3	77.3		85	27+	67	26		0	0	0	1.19		.53	10	.0	0		2	1	0
* * * AUGUST 1971 WAIALEE 896.3	84.2M	71.3M	77.8M		86	11+	67	21+		0	0	0	1.70		.49	14	.0	0		5	0	0
* * * SEPTEMBER 1971 HANA AIRPORT 355 WAIALEE 896.3	84.7 84.7	65.6 71.5	75.2 78.1		87	1	60	27		0	0	0	5.54 1.27		.84 .31	24 24	.0 .0	0 0		14 4	3 0	0 0
* * * OCTOBER 1971 WAIALEE 896.3	83.2M	69.7M	76.5M		85	30+	63	29		0	0	0	1.87		.67	30	.0	0		5	1	0
* * * NOVEMBER 1971 WAIALEE 896.3	79.8	66.8	73.3		84	6	60	23		0	0	0	3.95		.78	16+	.0	0		10	2	0

See Reference Notes Following Station Index

LATE REPORTS DAILY PRECIPITATION

HAWAII

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * * JULY 1971 WAIALEE 896.3	1.19		T	T		.02				.34	.07	.53	.02		.01					.04	.01	.01	.03		.02					.02	.01	.04	.02	
* * * AUGUST 1971 WAIALEE 896.3	1.70		.17	.02	.07	.02					.03		.03	.28	.49			.19	.02	.01	.05	.05			.05			.20	.01	.01				
* * * SEPTEMBER 1971 HANA AIRPORT 355 WAIALEE 896.3	5.54 1.27	.04 .07	.26 .04	.66 .25	T .13	T .02	.26 .03	.08 .05	.70 .06	.17 .07	.30 .01	.21 .01	.17 .02	.04 .03	.06 T		.08	.02		.20	.11	.42 .01	T .01		.84 .31	.41 .02	.04 .04	.02 .02	.31 .01	.07 .11	.07 .01			
* * * OCTOBER 1971 WAIALEE 896.3	1.87	.12	.04	.02	.03	.01	.03	.06				.03	.01				.04			.06				.02	.19	.16	.36	.01		.67	.01			
* * * NOVEMBER 1971 PUUOHEKU RANCH 542.1 WAIALEE 896.3	3.95	.02	.08	.02	.03				.01	.05	.07	.06	.13	.07	.01	.24	.78	.78	.08	.02		.01	.01			2.00 .11	.01 .01	.12	.24	.28	.01	.28	.05	.38

DAILY TEMPERATURES

Station	MAX MIN	Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * * JULY 1971 WAIALEE 896.3	MAX MIN	83 70	84 72	85 73	84 73	83 70	83 71	83 71	82 69	82 71	81 72	83 74	83 73	83 72	83 71	83 70	84 71	84 70	84 71	84 71	83 70	83 72	84 72	84 73	84 73	83 72	83 67	85 68	84 70	83 71	83 71	84 72	83.3 71.3	
* * * AUGUST 1971 WAIALEE 896.3	MAX MIN	83 71	83 67	83 68	83 70	85 68	85 70		83 72	86 73	82 72	86 78	84 74	85 72	85 72	84 70	85 72	84 71		84 67	84 72	83 67	84 73	85 73	84 73	85 73	85 73	85 72	84 72	85 70	85 73	84 71	85 73	84.2 71.3
* * * SEPTEMBER 1971 HANA AIRPORT 355 WAIALEE 896.3	MAX MIN	87 65	86 65	86 64	86 67	86 66	85 64	86 66	84 66	86 72	85 65	83 69	84 65	85 65	85 64	85 64	86 67	86 69	85 66	83 64	83 66	83 66	84 63	85 62	84 65	84 62	84 67	84 60	81 67	84 64	84 65	84 65	84.7 65.6	
* * * OCTOBER 1971 WAIALEE 896.3	MAX MIN	85 69	85 70	85 72	84 70	85 69	84 72	86 69	84 68	85 68	84 73	84 71	85 71	85 70	84 71	85 74	86 72	87 72	85 72	86 75	85 73	85 74	85 72	84 72	86 71	86 68	85 70	84 73	84 72	83 71	83 73	85 71	84 73	84.7 71.5
* * * NOVEMBER 1971 WAIALEE 896.3	MAX MIN	83 69	83 70	84 72	83 70	85 68	83 72	84 72	84 72	84 72	84 72	84 72	83 69	84 71	85 73	84 73		85 72		83 68	81 67	82 70	83 71	83 70	83 69	83 68	82 69	83 66	83 66	83 63	85 65	77 71	83.2 69.7	
* * * NOVEMBER 1971 WAIALEE 896.3	MAX MIN	82 69	82 65	80 68	81 66	83 68	84 70	82 70	82 69	80 65	78 63	77 63	79 64	74 64	80 68	80 67	81 65	80 70	79 69	81 70	79 69	79 65	78 65	79 60	78 66	79 63	79 70	79 71	80 67	79 67	80 68	80 68	79.8 66.8	

STATION INDEX

HAWAII
JUNE 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII																									
MOAULA 18	A 6407	03 KAU		3 19 11	155 30	600							HAWAIIAN RANCH CO	PUU LEHUA 73	A 8400	04 N KONA		4 19 34	155 49	4680					W.H. GREENWELL RANCH
MOUNTAIN VIEW 91	A 6552	02 PUNA		2 19 33	155 07	1330	6A						PUNA SUGAR CO	PUU MAUI 113	A 8519	01 HAWAII		1 19 55	155 26	6960					HAWAIIAN RANCH CO
HALELOU 14	A 6508	03 KAU		3 19 04	155 35	673	8A						HUTCHINSON SUGAR CO	PUU OO 82	A 8550	02 S HILO		2 19 44	155 23	6340					MISS JACKIE BENLEMP
NAPPOPOO 28	A 6697	04 S KONA		4 19 28	155 55	395	7A						KONA EXPERIMENT STA	PUU WAHAA 94.1	A 8555	05 N KONA		5 19 47	155 51	2520					OILLINGHAM RANCH INC
NIHULI 179	A 6898	01 N KONA		1 20 14	155 45	75	6A						KAHOLA CORPORATION	SADOLE ROAD 1 84	A 8560	02 S HILO		2 19 42	155 12	2340					AGRO DR NTR SUPPLY
ODUALA 529	A 7131	02 N HILO		2 20 01	155 17	430	7A						LAUPAHEME SUGAR CO	SOUTH POINT CORRAL 3	A 8675	03 KAU		3 18 57	155 41	500					HAWAIIAN RANCH COMPANY
OPIMAHALE 2 24.1	A 7166	04 S KONA		4 19 16	155 53	1270	7A						MISS C LEONARD	UMUKOA 118	A 8780	01 HAWAII		1 19 59	155 23	3420					KURAIKU RANCH CO
OPICHO LAND EST 91.5	A 7185	02 PUNA		2 19 34	155 00	448	VAR						ROPO OF WATER SUPPLY	UPULU POINT USCC 159.2	A 8830	01 N KONA		1 20 15	155 53	61					U S COAST GUARD
PAAHUA 217	A 7204	01 HAWAII		1 20 05	155 24	415	7A						HAWAIIAN SUGAR CO	WAIKAEA SCO 86.2	A 9043	02 S HILO		2 19 40	155 08	1050					SHINICHI KANESHIRO
PAAHULO 221	A 7312	01 HAWAII		1 20 03	155 22	800	7A						HAWAIIAN HILL CO	WAIKANAHOULA 176.6	A 9350	01 N KONA		1 20 08	155 47	3850					KANUIA RANCH
NEW STATIONS																									
ISLAND OF OAHU																									
PAHALA 21	A 7471	03 KAU		3 19 12	155 29	870	8A						HAWAIIAN AGR CO	WOMILANI 835.1	A 6547	03 OAHU		3 21 25	147 56	325					CHESTER R KAINUMA
PAMOA 65	A 7437	02 PUNA		2 19 30	154 57	670	6A						PUNA SUGAR COMPANY	PUNAHUU PUMP 905.2	A 8314	01 MOLOKAI		1 21 25	157 54	20					DEAN FUJII
PAKAU 37	A 7643	03 KAU		3 19 23	155 28	5000	NO						HAWAIIAN RANCH CO. INC.												
PAPAIAKOI 144.1	A 7711	02 S HILO		2 19 47	155 06	200	7A						KAHUNA KEA SUGAR CO.												
PAPAIAKOI MAUNA 140.1	A 7721	03 S HILO		2 19 47	155 08	1270	7A						HAWAIIAN SUGAR CO.												
PIIHOHONA 89	A 8091	02 S HILO		2 19 44	155 10	1790	NO						STATE DIV OF FORESTRY												
POMAKULUA 107	A 8063	02 HAWAII		2 19 45	155 32	6511	VAR						STATE DIVISION OF PARKS												
PUNAKO 95.1	A 8186	02 KONA		4 19 52	155 50	4	8A						ERWIN M. RAPP												
PUU KIME 120	A 8393	01 HAWAII		1 19 54	155 24	7750	NO						KURAIKU RANCH CO												
PUU LAU 102.1	A 8452	05 HAWAII		5 19 50	155 36	7440	NO						STATE DIV OF FISH-GAME												

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index". Indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

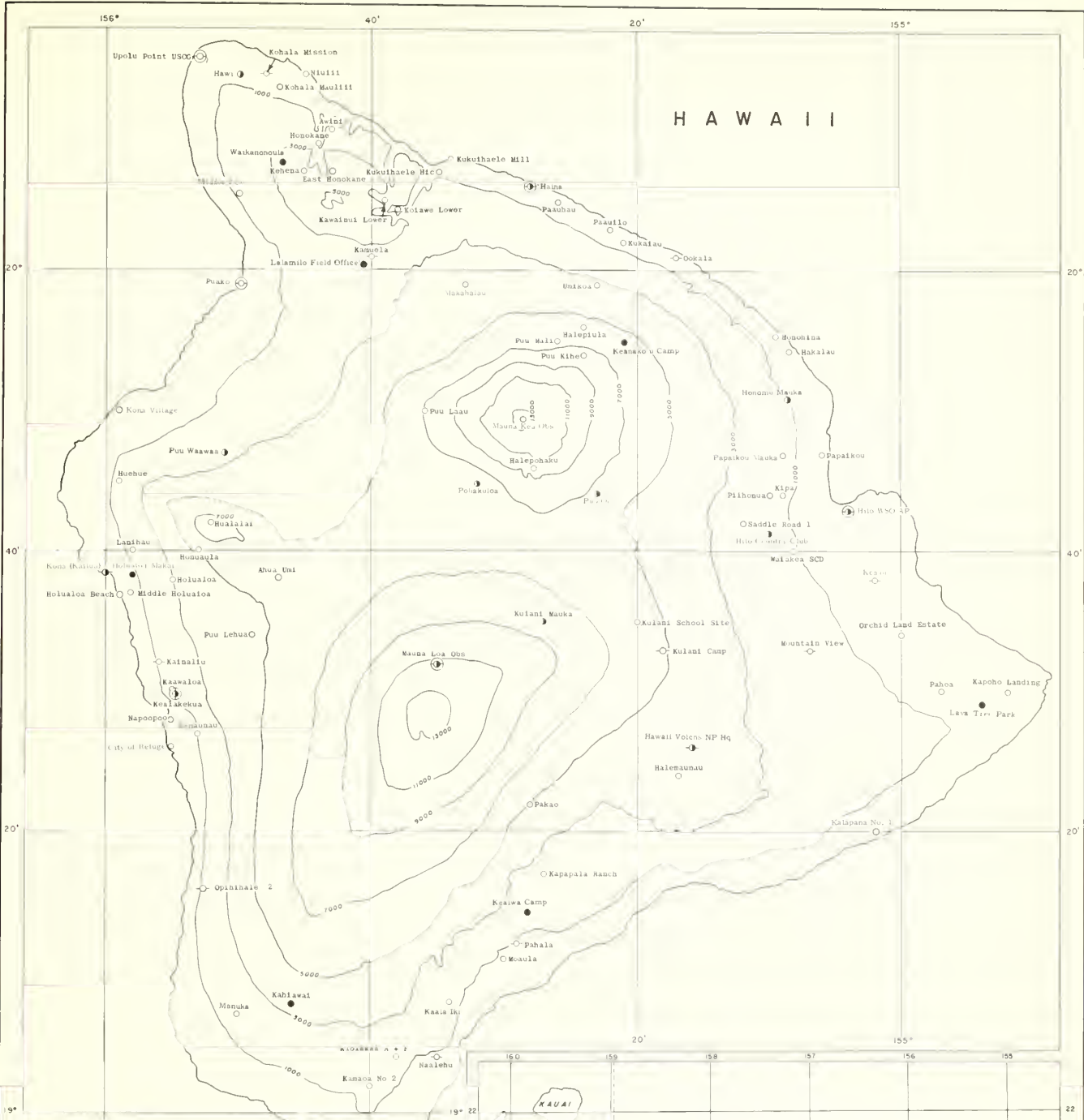
Information concerning the history of changes in locations, elevations, exposure, etc. of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: \$2.50 a year for each section including annual summary, \$1.00 additional for foreign mailing, 20¢ single copy, 20¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N. C. 9/28/72-890



HAWAII

HAWAII

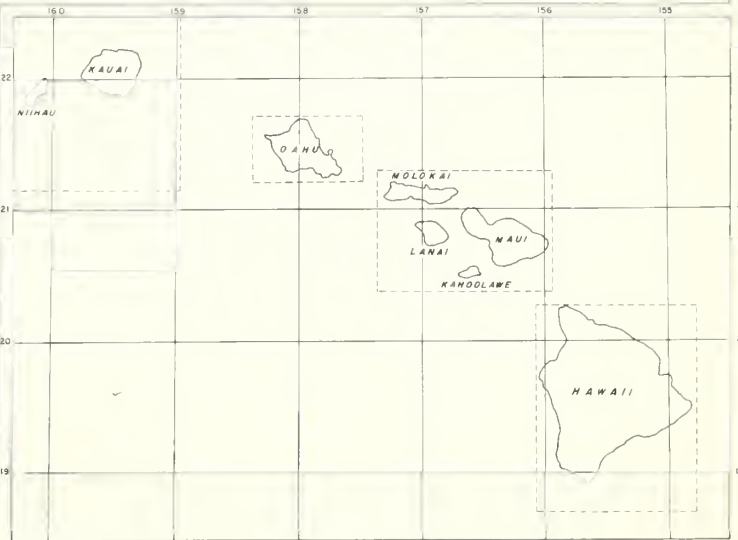
PLATE 2
STATUTE MILES



STATION LEGEND

- ● ○ Precipitation only
- ○ Precipitation, storage
- ● ○ Precipitation and Temperature
- ● ○ Precipitation, Temperature and Evaporation
- Type of 9000 ○ Non-recording,
- Recording ○ Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time



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CLIMATOLOGICAL DATA

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JULY 1972

Volume 68 No. 7

NOV 20 1972

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation														
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days					
										Max.	Min.	Total	Above 32° or Below					32° or Below	Above 32° or Below	Below	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																										
ANAOHA 1114	A	71.5	56.0	63.8		76	24+	49	22	0	0	0	0	3.35	.96	.55	15	.0	0				8	1	0	
KANALOHULUHULU 1075	A									0	0	0	0	2.23				.0	0							
KAPAA STABLES 1104	A									0	0	0	0	3.67				.0	0							
KILAUEA FIELO 17 1135	A									0	0	0	0	9.38	2.67			.0	0							
KILAUEA POINT 1133	A	80.7	75.2	78.0		84	27	72	23+	0	0	0	0	6.33		2.00	24	.0	0				14	3	2	
* * * ISLAND OF OAHU																										
KOOLA 936	A									0	0	0	0	3.83	-1.23			.0	0							
LIIHUE WSO 1020.1 AP	//R	82.9	73.8	78.4	.8	84	30+	69	15	0	0	0	0	2.25	.31	.78	15	.0	0				4	2	0	
MANA 1026	A	87.6	67.9	77.8	-.1	91	7	64	27	3	0	0	0	1.35	.79	1.18	11	.0	0				1	1	1	
N WAILUA DITCH 1051	A									0	0	0	0	16.54				.0	0							
PH WAINIHA 1115	A									0	0	0	0	8.66	-1.42	2.25	15	.0	0				17	6	2	
* * * ISLAND OF MOLOKAI																										
PUEHU RIDGE 1040	A									0	0	0	0	1.26		.75	11	.0	0				3	1	0	
WAHIAWA 930	A	80.4	66.2	73.3		83	31	60	19	0	0	0	0	.74	-.95			.0	0							
WAIHI LOWER 1054	A									0	0	0	0	9.88		2.82	15	.0	0				21	9	1	
WAIMEA 947	A									0	0	0	0	.08	-.39	.08	11	.0	0				0	0	0	
* * * ISLAND OF LANAI																										
HONOLULU OBSERV 702.2	R	87.0	73.8	80.4	1.6	89	22+	71	31+	0	0	0	0	.17		.08	8	.0	0				0	0	0	
HONOLULU WSO 703 AP	R									0	0	0	0	.20	-.24	.07	13	.0	0				0	0	0	
KAHUKU 912	A	87.1	76.0	81.6	3.9	89	17+	73	4+	0	0	0	0	.84	-1.05	.30	8	.0	0				3	0	0	
KANEHE MAUKA 781	A	82.3M	72.4M	77.4M	.9	85	27	68	6	0	0	0	0	3.53	-.78	1.74	17	.0	0				8	1	1	
KOOLA OAM 833	A									0	0	0	0	7.77	-2.01	1.63	15	.0	0				11	8	1	
* * * ISLAND OF MAUI																										
LUALUALEI 804	A	88.6M	71.7M	80.2M		92	26	55	5	8	0	0	0	.29				.0	0							
MAKAPIU POINT 724	A	78.7M	70.0M	74.4M		82	24	65	21	0	0	0	0	.16	-.68	.16	25	.0	0				1	0	0	
NUUANU RES 4 783	A									0	0	0	0	5.74	-2.93	1.26	15	.0	0				13	5	2	
OPAEULA 870	A	77.5	65.1	71.3	-.9	85	4	60	30+	0	0	0	0	1.29	-2.01	.80	16	.0	0				1	0	0	
PALOLO VALLEY 718	R									0	0	0	0	6.44	-4.37	.90	15	.0	0				19	3	0	
* * * ISLAND OF HAWAII																										
PRI WAHIAWA 820.2	A	83.7	66.7	75.2		87	3	61	3	0	0	0	0	.71				.0	0							
WAHIAWA OAM 863	A									0	0	0	0	.64				.0	0							
WAIHOLE 837	A									0	0	0	0	4.41	-6.53			.0	0							
WAIALEE 896.3	A	84.5	72.0	78.3		87	18	70	31+	0	0	0	0	1.18		.24	3	.0	0				5	0	0	
WAILUA 847	A	85.0	65.7	75.4	-.8	89	11	61	2+	0	0	0	0	.27	-.47	.19	16	.0	0				1	0	0	
WAIKIKI 717.2	A	85.5M	72.1M	78.8M		87	27+	68	20	0	0	0	0	.27		.16	9	.0	0				1	0	0	
WAIMANALO EXP FARM	A	84.1	72.7	78.4		86	23+	70	25+	0	0	0	0	.58		.24	21	.0	0				2	0	0	
WAIPIHU 750	A									0	0	0	0	.32	-.35			.0	0				0	0	0	
* * * ISLAND OF HONOLULU																										
KUALAPUU 534	A													.39	-.49	.31	14	.0	0				1	0	0	
MAPULEHU 542	A													1.35	-1.59	.39	1	.0	0				6	0	0	
MAUNALO A 511	A													.02	-1.24	.02	14	.0	0				0	0	0	
MOLOKAI AP 524	A	82.5M	71.5M	77.0M		86	4	68	31	0	0	0	0	.17		.12	14	.0	0				1	0	0	
* * * ISLAND OF KAUAI																										
LANAI CITY 672	A	77.5M	65.0M	71.3M	-.2	81	12	62	26+	0	0	0	0	.24	-1.48			.0	0							
* * * ISLAND OF MAUI																										
HALEAKALA 8 E S 434	A	65.9	47.1	56.5		75	13+	37	31	0	0	0	0	1.54	-2.59	.88	14	.0	0				3	1	0	
HALEAKALA RS 338	A	83.7	66.9	75.3		86	31+	63	14+	0	0	0	0	.56		.25	14	.0	0				3	0	0	
HANA AIRPORT 355	A									0	0	0	0	3.21	-2.93	.56	16	.0	0				9	1	0	
HONOKOHUA 493	A									0	0	0	0	1.06	-1.32			.0	0							
KAAHAPALI AIRPORT	A	84.5	69.5	77.0		87	27+	66	28+	0	0	0	0	.11		.10	14	.0	0				1	0	0	
KAHULUI WSO 398 AP	R	86.7	69.1	77.9	-.4	89	22+	60	22	0	0	0	0	.04	-.39	.03	13	.0	0				0	0	0	
KAILUA 446	A	77.5	66.5	72.0	-.7	80	23+	64	31	0	0	0	0	8.31	-1.84	2.49	16	.0	0				16	4	2	
KEANAE 346	A									0	0	0	0	17.50	-2.37			.0	0							
KIPAHULU 258	A									0	0	0	0	4.51	-5.02	.67	14	.0	0							
KULA SANATORIUM 267	A	73.0	59.6	66.3	-.3	75	30+	56	31	0	0	0	0	.47	-1.59	.24	31	.0	0				2	0	0	
LAHAINA 361	A	87.5	67.2	77.4		89	30+	65	30+	0	0	0	0	.00	.11	.00		.0	0							
PAIA 406	A									0	0	0	0	.41	-1.48	.09	14+	.0	0							
WAILUKU 386	A					84	24+	69	31+	0	0	0	0	.01	-.70			.0	0				0	0	0	
* * * ISLAND OF HAWAII																										
HAINA 214	A	80.8	67.9	74.4	.3	84	26	64	30	0	0	0	0	6.51	3.05	2.41	26	.0	0				9	5	1	
HAWAII VOLCNS NP HO 54	R	68.6	54.5	61.6	-1.3	73	24	49	26	0	0	0	0	5.59	.47	1.04	26	.0	0				14	5	1	
HILD WSO 87 AP	R	82.0	68.8	75.4	.5	84	31+	64	30	0	0	0	0	9.07	-.75	1.39	27	.0	0				20	7	2	
HUEHUE 92.1	A									0	0	0	0	1.13	-1.37	.82	9	.0	0							
KAINALIU 73.2	A	78.0	65.0	71.5		81	27+	60	31	0	0	0	0	11.27	2.72	3.44	9	.0	0				10	3	3	

See Reference Notes Following Station Index

CLIMATOLOGICAL DATA

HAWAII
JULY 1972

Continued

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										34° or Above	32° or Below	32° or Below	30° or Below														
KEAAU 92	80.3	67.2	73.8	- .6	82	26+	65	31+		0	0	0	0	10.68	.54	1.60	26		.0	.0		17	7	4			
KEALAKEUA 26.2	77.8	65.3	71.6		81	27	61	31		0	0	0	0	8.20		2.62	9		.0	.0		10	4	3			
KONA (KAIIUA) 68.3					89	7	69	17		0	0	0	0	4.82		.00			.0	.0							
KUKIHAELE HIC 199														6.88		.00			.0	.0							
KULANI CAMP 79	63.6	49.7	56.7		72	24	42	22		0	0	0	0	6.15	1.34	.98	27		.0	.0		12	6	1			
PAHALA 21					84	18+	61	19		0	0	0	0	.48		.30	27		.0	.0		1	0	0			
POHAKULOA 107														.00		.00			.0	.0		0	0	0			
PUNAO 95.1														.01		.01	19		.0	.0		0	0	0			
PUU WAAWAA 94.1														.57		.20	1		.0	.0		0	0	0			
UMIKOA 118														1.89	1.53	.47	14		.0	.0		6	0	0			
WAIKOA SCO 88.2														15.71	1.10	2.41	26		.0	.0		20	11	6			
ISLAND			70.6											5.56					.0								

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93° ON THE 25+ AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 34° ON THE 21+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 20.80 INCHES AT PUOHOKAMO A 2 343, MAUI

LEAST TOTAL PRECIPITATION: .00 INCH AT 18 STATIONS

GREATEST ONE-DAY PRECIPITATION: 7.09 INCHES ON THE 10TH AT MOUNT WAIKALEALE 1047, KAUAI

SPECIAL WEATHER SUMMARY

It was a mild July, highlighted only by continued dry weather over much of the State and by an unseasonable fall of snow on the twin peaks of Mauna Loa and Mauna Kea.

There were also two drownings caused by high waves. Both occurred on Hawaii Island. In the first of these, on the 4th, a 17-year-old boy, climbing a large rock in Hilo to pick opihi, a shellfish, was swept into the water by waves unexpectedly larger than the preceding ones. Two days later, on the 6th, a couple, spin-fishing from the rocks along the shore at Opihikao, were washed into the ocean. The woman drowned. Her husband was rescued 150 yards offshore with facial injuries and in shock.

Between the evening of the 14th and the early morning of the 15th, heavy rain, associated with an upper-level trough of low pressure, fell in the Princeville area of north Kauai, but appears to have done no damage. During the 5 hours between 9:15 p.m. and 2:15 a.m., the gage at Princeville Ranch registered 6.3 inches of rain, of which

3 inches fell in a single hour, 11:30 p.m. to 12:30 a.m.

On the afternoon of the 18th, Mauna Loa Observatory, at an elevation of 11,000 feet, reported 1/2 inch of snow, accompanied by hail and rain - its first snowfall in July since the Observatory opened 15 years ago. Twenty-four hours later, snow also fell at Mauna Kea Observatory, at the summit of Mauna Kea.

Rainfall exceeded its July normal only in eastern and northeastern Kauai, from Lihue to Princeville, and in extreme western Kauai; at a few gages in the Honolulu and Kaneohe areas; and in most of Hamakua, Hilo, and North Kona Districts of Hawaii Island. Nearly everywhere else amounts were less than half the July average, with all of Lanai, western Molokai, Maui's Central valley and western Kohala, on Hawaii Island, reporting little or no rain.

Several stations with long periods of record had less rain than in any previous July.

Stations With Less Rain in July 1972
than in Any Previous July

(25 years of record or more, only)

Station	Length of Period (Years)	Previous Greatest July Total (Inches)	July 1972 (Inches)
<u>OAHU</u>			
Waianae Mauka	68	1.04	0.64
<u>MOLOKAI</u>			
Maunaloa	49	0.04	0.02
<u>MAUI</u>			
Waiehu Camp	63	0.05	0.03
Wailuku	71	0.02	0.01
<u>HAWAII</u>			
Manuka	44	1.60	1.35

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DAILY PRECIPITATION

HAWAII
JULY 1972

Day of Month

Station	Total	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																
ANAHU 1114	3.34					.20					.50	.03		.07	.02			1.93	.05	.05	.20	.10			.04		.09				.15	
BAYOES-POD STA 984	1.65					.05					.41	.13	.01		.02			.28	.04	.04	.01				.01		.08	.08			.14	
EAST LAKE 934	4.09					.05		.03			.81	.04	.02					1.08	.08	.14	.09	.02			.10	.04	.19	.01	.06		.40	
FALE 927	4.48					.22												.15	T			.03				.02				.04		
HALAUA 1110	3.76					.25					.50							2.25	.10	.10	.21				.10		.05			.26		
HALENAHAWI 1006	5.28					.61	.02	.01			1.49	.15		.05	.08			1.31	.14	.31	.13	.04			.19	.06	.08	.04		.57		
H-100 945	1.07										.05	.05																				
ILLILILUA INTAKE 105	13.74					7.67					1.45	1.14	.04	.14	.44			4.48	.51	.42	.18	.18			.22	.06	.07	.28	.28		1.17	
INTAKE WAINIPA PC 1086	5.58									1.89								.26														
KANALOHU 1075	2.23		.49		.00					.12	.10		.21			.09	.55									.03			.25	.22		
KANEHA RESERVOIR 1092	7.03					.45	.05	.04			.60	.80	.03					3.16	.45	.15	.20	.30			.07	.10	.10				.78	
KAPAA STAFFS 1104	3.67					.15					.30	.01						1.90	.17	.24	.06	.03			.07	.01	.02				.39	
KALIA 1112	2.99					.20					.37	.03						1.75	.05	.13	.07	.05									.30	
KERAMA 944	4.28	.17									.95	.10		.02	.15			2.33	.10	.25	.22	.10			.11			.12		.08		
KILAUEA 1134	5.67			.68		.40	.06				.95	.10		.02	.15			2.33	.10	.25	.22	.10			.11			.12		.08		
KILAUEA FIELD 17 1135	9.38			1.50		.42	.05	.02		.02	.05	.06		.15			4.18	.25	.34	.15	.05			.18	.10			.10		.28		
KILAUEA POINT 1133	6.33	.26	.01	.28	.03			.20	.30	.35	.10			.03	.29	.11	.29	.06	.32	.07	T		.11	2.00			.50		.10		1.00	
KOLO 033	1.06									.10		.83				.10		.80	.16	.14	.21					.09	.06	.26	.04	.03	.41	
KOLOA 936	3.83					1.01					.60	.24	.02	.03	.02	.10		1.19	.18	.17	.12	.05			.07	.06	.18	.18		.36		
KOLOA MAUKA 994	5.93					.93	.04	.04			1.51	.24	.02	.10	.19										.07	.06	.18	.18		.36		
KOLOKO RES 1137	8.26			1.04		.33	.02	.01			1.50	.05	.02	.05	.24			3.17	.17	.34	.23	.22			.14	.14		.12		.47		
KUKUIA A 935	1.48			.31		.01					.32	.03		.02	.03			.21	.04	.06	.09						.15		.03		.21	
LIHUE VARIETY STA	7.10	.03		.19	.16	.02			.45		.53	.06	.01	.07	.06	3.46		.65	.15	.26	.24	.12	.04		.05	.04	.11	.04	.05	.31		
LIHUE 1020	2.79					.25					.24							1.78	.08	.06	.19	.03			.05	.02	.02			.07		
LIHUE 450 1020.1 AP	2.25	.01	.12	.01	.02	T	.01	.07		.33	.02	T	.03	.50	.78		.01	.06	.03	.04	.03	T	.08	T	.02	.01	.01	.01	.05		.13	
MAKAHUNA POINT 940.1	.76		.23	.01				.02			.01	.01	.01	.01	.01	.20		.01	.01	.01	.01						.08		.03	.11		
MAKAHIKI 965	.44	.30	.03					.01	.02		.02	.03	.01	.01	.03																	
MANA 1076	1.35										.02	1.18				.08																
MOHAKI BRIDGE CROSS 1083	2.09	.21	.07					.14	.07	.07	.07	.07		.14	.07	.55		.07										.07		.21	.21	.07
MOLOKA 1145	3.11					.68	.03				.38				.10			1.20	.05	.13	.11	.08			.04	.03				.13		
MOUNT MAHALEALE 1047	R	.91	2.01	1.57	.63	.12	.08	1.34	.98	.59	7.09	2.05	.16	1.14	.31	4.17	1.65	.15														
NIU RIDGE 1035	1.87					.20		.10			1.60	3.20	.30	.52	.15			4.80	.66	.30	.38	.35			.18	.06	.25	.10	.20		1.19	
N WAILUA DITCH 1051	10.54										.22	.82	.01	.05	.24	2.25		.52	.52	.02	.10	.05	.13	.10		.12		.02	.24	.20	T	
PC WAINIPA 1115	8.66	.05	.45	1.08	.33	.02		.80	.32		.22	.82	.01	.05	.24	2.25		.52	.52	.02	.10	.05	.13	.10		.12		.02	.24	.20	T	
PRINCETON RANCH 1117	12.93					1.42	.02	.06			2.60	.26	.02	.03	.27			7.25	.07	.12	.20	.21			.18	.03	.13	.08		.14		
PUEHU RIDGE 1040	1.26										.25	.75						.18													.08	
PUMI 1013	3.67					.55	.02				.62			.04				1.53	.20	.09	.17	.05			.05	.06	.01			.28		
RESERVOIR D 1004	4.88					.75	.03	.02			1.38	.03	.02	.08	.09			1.06	.26	.18	.11	.03			.05	.05	.04			.47		
WAILUA 930	4.74		.25								.17	T		.01	T			.06	T	.03	T					.02	.11			.09		
WAILUA MOUNTAIN 990	8.88																														8.88	
WAIKAI LOWER 1054	9.88	.17	.82	.28	.17	.03	.01	.69	.49	.33	.70	.01	.07	.11	2.82		.10	.45	.51	.31	.22	.16			.03	.04	.04	.26	.06	.32	.26	.24
WAIKAI UPPER 1052	11.87	.25	.27	.26	.27	.05	.02	.68	.52	.10	1.01	.01	.07	.15	3.69		.58	.68	.59	.33	.20	.04	.04	.03	.04	.04	.26	.06	.32	.26	.24	
WAIKAI 943	2.88					.29					.60	.06			.08			1.14	.12	.17	.16	.07								.27		
WAIKAI 1065	2.88					.29					.60	.06			.08			1.14	.12	.17	.16	.07								.27		
WAIKAI 947	2.88					.29					.60	.06			.08			1.14	.12	.17	.16	.07								.27		
WEST LAKE 931	1.97			.32		.02		.03			.52	T		.01				.16	.03	.12	.07	.02			.03	.04	.30	T		.30		
ISLAND OF MAUI																																
BERETANTA PUMPING STA	.58		.04							.15	.03			.01				.13									.15			.07		
CAMPBELL 140 PK 702.5	.01																															
CAMP 84 807	1.73	.06	.43	.16					.16	.21			.01	.17	.02	.05		.13	.12				.14		.01				.03		.05	
CHURCH COLLEGE LAIE	1.37	.03	.07				.01		.07					.01	.07		.89					.05			.02			.02		.01	.05	
COCONUT ISLAND 840.1	1.37	.03	.07				.01		.07					.01	.07		.89					.05			.02			.02		.01	.05	
ISLAND OF HAWAII																																
EWA PLANTATION 741	.03										.73			.32				1.58									.01	.01			.01	
HELEMANH INTAKE 881	2.87										.73			.32				1.58												.24		
HOKULUA 725.2	4.55										.07			.07						.10						.04				.36		
HONDOLU OBSERV 702.2	4.20										.08															.05	.02			.02		
HONDOLU 450 703 AP	R		T				T	.08		.05	.03	T	.07	T	T		T					T			T	.01	.02		T	T	.02	
HONDOLU SUBSTA 704	R	.38		.03			.02		.02		.12	.02	T	T	T	.04		.07								.11			.01		.01	
K-10 A EXP STA 707	R	.72		.08			.02		.01		.28	T	T	T	.09		.08		.07							.14	T				.05	
KAEHA POINT 841.3	A	15.64		5.20							1.54							6.40													1.64	
KAEHA 883	A	8.84	.15	.25					.02	.30	.08													.03		.86					.01	
KAIKAI FIRE STA 791.3	R	.97		.75					.05	.05	.05	.01		.04	T			.45		T		.11	.03						.18			
KALIHU RES SITE 777	R	6.74	.20	.28	.2			.22	.04	.58	.14	.02	.02	.06	.04																	

DAILY TEMPERATURES

HAWAII
JULY 1972

Continued

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KULA SANATORIUM 267	MAX	72	72	74	75	74	73	72	73	71	72	71	72	73	74	71	71	74	73	72	72	72	74	75	74	74	75	72	75	75	75	72		
	MIN	59	60	59	59	59	58	59	60	61	60	61	61	62	61	60	61	62	60	60	59	60	59	58	59	59	60	60	61	59	58	57	56	
LAHAINA 361	MAX	87	87	89	87	87	88	87	86	86	86	86	88	88	86	87	89	87	88	86	89	87	89	87	88	87	88	88	89	89	89	87		
	MIN	67	68	67	68	67	66	68	67	67	67	70	69	68	65	65	66	67	68	66	67	69	68	69	68	67	68	67	67	68	65	66		
HAILUKU 384	MAX				84	83	82	81			81	84	81	83	80			83	81	81	83	81				84	82	83	82	82		82		
	MIN				70	72	71	72			71	72	72	70	70			70	72	72	69	70				71	71	72	73	71		69		
ISLAND OF HAWAII																																		
HAINA 214	MAX	77	80	81	82	82	82	80	80	80	79	81	80	82	80	80	80	82	82	82	81	79	83	82	82	82	81	82	84	78	80	80	81	82
	MIN	64	67	67	66	70	68	68	67	70	70	70	69	67	69	67	67	68	70	72	70	66	68	65	69	68	69	69	68	66	66	64	65	
HAWAII VOLCNS NP HO 54	MAX	68	70	71	71	71	68	71	67	68	63	64	69	67	69	68	68	68	72	71	72	69	70	73	69	57	71	68	65	67	69	68.6		
	MIN	57	57	56	56	56	54	56	56	57	56	56	56	54	54	52	56	56	52	53	53	55	52	55	55	56	49	55	54	53	50	53		
HILO WSO 87 4P	MAX	81	83	83	84	83	83	80	80	79	79	82	81	81	82	80	84	84	83	79	83	82	83	83	84	83	84	79	82	82	82	84		
	MIN	70	71	69	70	71	70	70	70	70	69	69	67	68	69	66	70	69	71	69	68	69	66	68	69	68	68	68	67	64	66	66		
KAINALIU 73.2	MAX	78	76	79	76	79	75	80	78	78	72	77	81	76	79	78	78	80	79	73	80	79	80	77	79	79	79	81	78	77	79	77		
	MIN	64	66	65	66	66	65	64	67	66	67	66	66	66	65	63	64	69	67	64	67	62	62	64	67	67	66	65	65	63	62	60		
KAMUELA 192.2	MAX	75	72	72	73	68	72	70	72	74	70	72	71	72	72	71	78	73	72	74	73	74	73	74	72	73	74	70	70	71	72	74		
	MIN	58	58	59	60	59	59	59	60	61	59	59	60	59	60	59	60	60	60	60	56	59	59	60	60	60	60	59	58	59	59	59		
KEAAU 92	MAX	79	79	81	80	82	81	82	79	79	78	79	80	79	81	80	79	82	82	82	78	82	81	81	81	82	82	80	77	79	80	81		
	MIN	65	69	69	69	69	68	68	68	68	68	68	68	66	66	65	65	68	68	67	67	68	65	67	68	68	68	68	66	66	65	65		
KEALAKEKUA 26.2	MAX	78	77	78	76	80	76	79	79	78	72	76	79	78	78	74	78	80	78	73	79	79	79	78	80	77	79	81	80	77	78	77		
	MIN	65	65	63	67	64	64	64	65	66	67	67	66	67	64	64	64	69	68	65	68	63	62	65	67	67	66	66	68	64	63	61		
KOHALA MISSION 175.1	MAX	79	82	82	82	82	83	81	80	80	80	80	80	82	80	80	80	81	82	82	83	83	82	84	82	82	83	78	80	80	81	81		
	MIN	69	68	68	71	71	69	68	68	70	72	72	71	68	67	69	71	72	70	70	66	69	67	68	70	70	70	68	67	66	66	66		
KONA (KAILUA) 68.3	MAX			84		85	83	89			86	83	83	83	84			85	83	84	86	85				88	84	84	87	85		86		
	MIN			71		73	72	73			71	72	72	73	70			69	74	71	73	70				70	73	72	73	70		72		
KULANI CAMP 79	MAX	64	64	65	66	68	68	65	62	62	58	60	64	64	52	62	64	66	62	68	68	69	65		72	63	65	65	63	55	59	60		
	MIN	45	50	49	48	49	51	54	52	54	50	50	53	48	50	48	54	52	48	48	44	49	42		48	52	54	56	52	50	47	45		
MAUNA LOA SLOPE DBS	MAX	54	55	60	56	55	52	53	50	52	54	58	63	62	54	54	53	54	54	50	50	52	58	58	60	58	54	52	56	55	54	59		
	MIN	37	37	37	39	37	39	36	35	39	41	44	46	46	40	40	39	36	37	36	34	34	38	38	44	38	38	38	38	38	37	39		
MOUNTAIN VIEW 91	MAX	76	76	76	76	76	76	76	74	74	74	70	73	71	77	77	77	77	72	76	76	78	77	77	77	77	78	74	73	78	78	78		
	MIN	61	61	61	61	61	63	64	63	63	63	64	63	61	61	61	61	61	64	61	63	63	60	60	60	63	64	65	61	58	58	58		
NAALEHU 14	MAX				81	79	82				79	74	78	78	81			80	82	80	81				81	77	82	80	78		80			
	MIN				67	68	70				68	70	68	69	67			68	68	69	65	66				65	70	70	68		65			
UOKALA 223	MAX	77	83	81	83	82	82	79	79	81	79	81	79	81	81	80	81	81	80	81	78	82	81	71	81	80	82	76	79	79	79	81		
	MIN	57	69	69	71	71	69	68	68	68	71	67	69	69	66	69	70	70	67	71	68	67	68	62	66	66	66	67	65	65	65			
UPIHIHALF 2 24.1	MAX	80	80	81	81	78	80	80	80	74	80	79	78	77	72	77	84	75	78	75	77	81	77	71	75	78	84	84	75	76	78	81		
	MIN	64	63	66	66	64	63	63	64	67	65	66	66	65	65	64	66	68	65	66	66	60	63	66	66	62	64	66	63	61	59	61		
PAHALA 21	MAX				82	81	81				81	77	79	80	84			81	84	81	81	80				82	81	82	83	79		82		
	MIN				63	63	67				65	66	64	63	66			65	63	61	63	64				62	67	69	68	65		62		
PUAKO 95.1	MAX	86	87	87	86	87	86	89	86	86	83	83	87	88	88	87	83	87	86	85	88	87	88	87	86	87	87	87	87	88	89	84		
	MIN	72	73	75	76	75	73	75	75	76	72	72	77	74	74	73	71	73	75	72	71	73	74	74	72	73	75	77	74	73	71	70		
UPOLU POINT USCG 159.2	MAX	81	83	83	84	83	82	83	84	84	80	82	82	83	81	81	83	84	83	85	85	88	85	85	85	85	85	83	83	83	84	85		
	MIN	73	73	73	76	74	68	70	71	71	73	73	71	70	70	74	74	73	77	70	70	74	70	70	73	70	71	71	70	68	68	70		

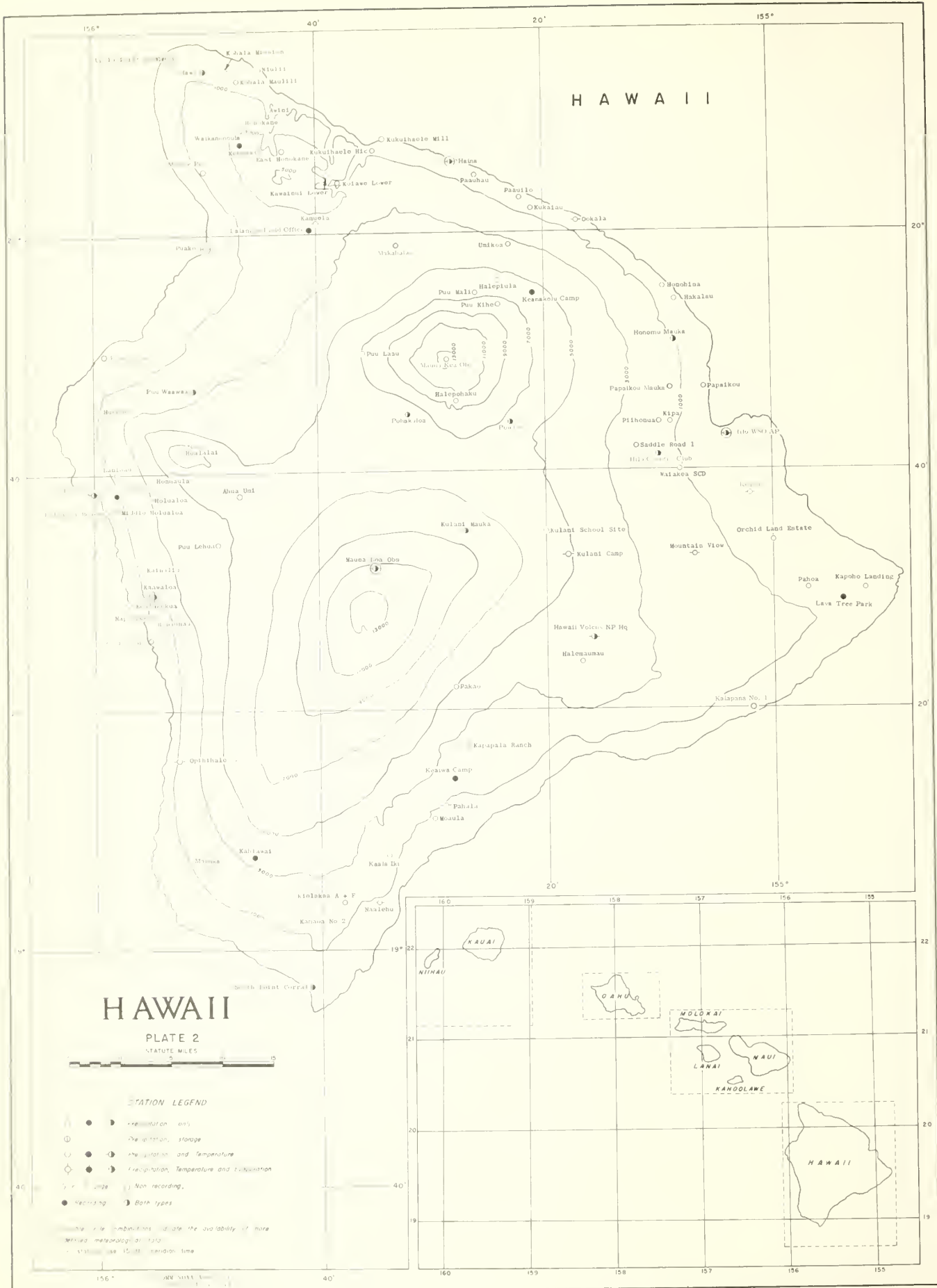
EVAPORATION AND WIND

Station		Day of Month																															Total of Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.34	.34	.31	.36	.32	.29	.53	.26	.34	.35	.28	.29	.32	.34	.30	.30	.35	.15	.23	.25	.28	.24	.33	.22	.25	.40	.33	.39	.34	.39	.35	
	WIND	157	178	225	196	-	-	-	-	-	-	-	-	-	374	137	191	186	203	123	120	115	103	141	171	218	210	170	234	220	197	84	
	MAX	84	84	80	82	79	79	82	77	80	83	83	83	83	79	71	81	83	83	80	84	83	84	85	81	87	89	89	90	85	88	90	
	MIN	62	63	62	63	63	62	62	62	62	63	63	63	62	61	60	60	61	64	64	64	67	61	61	62	71	70	70	70	69	69	69	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.37	.30	.45	.45	.37	.45	.45	.23	.24	.22	.28	.30	.36	.30	.24	.24	.34	.43	.30	.30	.30	.45	.45	.39	.20	.23	.45	.30	.38	.35	.33	
	WIND	31	32	43	51	48	47	55	33	30	33	53	49	58	46	35	28	49	47	32	31	23	27	29	35	42	39	38	48	39	35	27	
	MAX	88	91	92	91	88	90	91	92	83	84	85	88	87	87	86	88	92	94	9													

STATION INDEX

HAWAII JULY 1972

Main data table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE I, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE I, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. The table is split into two columns for readability.



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CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

AUGUST 1972
Volume 68 No. 8

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature												Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days			Total	Departure From Normal	Greatest Day	Date	Snow/Sleet		No. of Days						
										90° or Above	80° or Below	70° or Below					Total	Max. Depth on Ground	Date	10 or More	30 or More	1.00 or More			
	Max.	Min.	90° or Above	80° or Below	70° or Below	Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	10 or More	30 or More	1.00 or More										
ISLAND OF KAUAI																									
ANAHOLA 1114																									
KANALOHULUHULU 1075																									
KAPAA STABLES 1104																									
KILAUEA FIELD 17 1135																									
KILAUEA POINT 1133	83.2	76.8	80.0		88	30+	74	23+					6.37	- 2.90	4.30	5				10	1	1			
KOLA 936																									
LITHUE WSD 1020.1 AP //R	84.8	75.0	79.9	1.5	86	29+	71	5					1.27	- 3.05	.36	21									
MANA 1026	89.4	68.4	78.9	.6	92	19+	65	4	14	0	0	0	1.51	- 1.19	.47	31					3	0	0		
N WAILUA DITCH 1051																									
PH WAINIHA 1115													10.43	-											
PUEHU RIDGE 1040																									
WAHIAWA 930																									
WAIAMI LOWER 1054	83.4	67.2	75.3		88	29	64	25+					6.20	- 1.58	1.02	12						2	0	0	
WAIMEA 947													.47	-	.19	31							2	0	0
ISLAND																									
ISLAND OF DAHU																									
HONDLULU OBSERV 702.2																									
HONDLULU WSD 703 AP	88.3	73.9	81.1	1.7	90	15+	68	4	3	0	0	0	.80	-	.55	31						2	1	0	
KAHUKU 912	87.1	75.6	81.4	3.1	88	31+	72	31	0	0	0	0	.46	-	.16	30						1	0	0	
KANEDHE MAUKA 781	83.9M	73.1	78.5M	1.4	85	31+	70	23+	0	0	0	0	2.03	-	.41	19						5	0	0	
KOOLAU DAM 833													3.54	-	.60	2						11	2	0	
LUALUALEI 804																									
MAKAPIU POINT 724	89.6	73.0	81.3		92	31+	66	5+	18	0	0	0	.75	-	.25	26+						2	0	0	
NUUANU RES 4 783	80.2	72.0	76.1		84	9+	66	11	0	0	0	0	1.39	-	.84	9						4	1	0	
PAEULA 870													6.10	-	1.00	20						15	5	1	
PAELOD VALLEY 718	79.5	65.3	72.4	.6	83	20	60	23	0	0	0	0	1.63	-	.52	21						0	0	0	
PRI WAHIAWA 820.2																									
WAHIAWA OAM 863	84.9	66.8	75.9		88	7	62	7	0	0	0	0	2.19	-	1.12	1						1	0	0	
WAIAMOLE 837													1.49	-	.56	1						1	0	0	
WAIALEE 896.3	86.0M	72.6M	79.3M		88	28+	69	11	0	0	0	0	7.95	-	3.88										
WAILUA 847	86.6	67.2	76.9	.2	90	8	62	1	1	0	0	0	2.68	-	.52	21						5	0	0	
WAIKIKI 717.2																									
WAINALOA EXP FARM	87.2M	72.1M	79.7M		89	15+	66	23	0	0	0	0	.60	-	.36	30						2	0	0	
WAIAPAHU 750	85.6	73.5	79.6		88	29	70	31	0	0	0	0	1.29	-	.42	26						4	0	0	
ISLAND																									
ISLAND OF MOLOKAI																									
KUALAPUU 534																									
MAPULEHU 542													2.29	-	1.07	1.20	30						1	1	
MAUNALOA 511													3.22	-	.59	19						10	2	0	
MOLOKAI AP 524	83.2	71.6	77.4		86	22+	67	1	0	0	0	0	1.08	-	.60	30						3	1	0	
ISLAND																									
ISLAND OF LANAI																									
LANAI CITY 672																									
	79.4M	65.0M	72.2M	.3	85	30	62	5+	0	0	0	0	.62	-	1.16	.30	29					1	0	0	
ISLAND																									
ISLAND OF MAUI																									
HALEAKALA 8 E S 434																									
HALEAKALA RS 338	65.7	47.4	56.6		73	28	41	23	0	0	0	0	4.51	-	.17	1.97	30					6	4	1	
HANA AIRPORT 355	84.6	68.1	76.4		88	3+	65	23	0	0	0	0	2.88	-	1.05	19						6	2	1	
HONOKOHU 493													7.51	-	.97	20						21	6	0	
KAANAPALI AIRPORT	85.8	70.5	78.2		89	7	66	23	0	0	0	0	3.05	-	.47	.39	30					1	0	0	
KAHULUI WSD 398 AP																									
KAILUA 446	87.5	70.6	79.1	.1	94	6	63	4	4	0	0	0	.84	-	.49	.43	29					3	0	0	
KEANAE 346	79.1	67.6	73.4	.2	82	31+	65	11+	0	0	0	0	10.45	-	.86	2.14	20					17	7	2	
KIPAHULU 258													17.20	-	4.55										
KULA SANATORIUM 267	75.7	59.8	67.8	1.1	81	19	56	25	0	0	0	0	6.01	-	2.45	1.89	19					17	2	1	
LAHAINA 361																									
PAIA 406	88.7	68.3	78.5		91	19+	66	24+	7	0	0	0	.18	-	.24	.17	30					1	0	0	
WAILUKU 386	83.3M	71.2M	77.3M	.7	87	7	68	11+	0	0	0	0	1.63	-	.29	.59	30					5	1	0	
ISLAND																									
ISLAND OF HAWAII																									
HAINA 214																									
HAWAII VOLCONS NP HO 54	82.4	68.4	75.4	.9	85	30	65	24	0	0	0	0	7.09	-	2.45	1.92	19					9	5	2	
HILD WSD 87 AP	71.3	55.9	63.6	.0	77	29	51	16	0	0	0	0	5.96	-	1.63	1.88	31					9	4	2	
HUEHUE 92.1	84.2	68.8	76.5	.7	88	31	64	26+	0	0	0	0	8.77	-	2.68	2.33	20					15	4	3	
KAINALIU 73.2	79.5	64.7	72.1		84	18	62	26+	0	0	0	0	5.79	-	1.89	1.63	31					7	4	3	

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
AUGUST 1972

Continued

Station	Temperature											Precipitation														
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days					
										Max.	Min.	30° or Above	32° or Above					34° or Above	0° or Below	0° or Below	Total	Max. Depth on Ground	Date	1.0 or More	5.0 or More	1.00 or More
K EAAU 92	82.4	66.9	74.7	- .4	87	31	62	25		0	0	0	0	10.30	- 1.45	2.25	19	.0	0		14	6	3			
K EALAKEKUA 26.2	80.2	65.0	72.6		84	19+	61	26		0	0	0	0	6.71		2.75	31	.0	0		7	4	3			
KONA (KAILUA) 68.3	86.8M	72.2M	79.5M		93	29	70	25+		1	0	0	0	.84		.77	31	.0	0		1	1	0			
KUKI IMAELE HIC 199														6.40	.43	2.10	19	.0	0		10	4	2			
KULANI CAMP 79	66.5	50.6	58.6		72	30+	45	24+		0	0	0	0	7.81		2.90	31	.0	0		10	4	3			
PAHALA 21	83.1M	64.7M	73.9M		89	18	60	28		0	0	0	0	9.76				.0	0				0			
POHAKULOA 107														1.31				.0	0				0			
PUKO 95.1	87.6	73.2	80.4		91	29+	70	5+		5	0	0	0	T		T	30+	.0	0		0	0	0			
PJU WAAWAA 94.1														.32	- 1.81	.30	12	.0	0		1	0	0			
UMIKOA 118														11.48	6.42	7.22	18	.0	0				0			
WAIKEA SCO 88.2														16.41		4.02	21	.0	0		15	10	4			
ISLAND			72.7											6.24				.0								

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 19+ AT 2 STATIONS

LOWEST TEMPERATURE: 33° ON THE 11TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 21.78 INCHES AT HONOMU MAUKA 138, HAWAII

LEAST TOTAL PRECIPITATION: .00 INCH AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 7.22 INCHES ON THE 18TH AT UMIKOA 118, HAWAII

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

During the last three weeks of August, Hawaii was threatened by three tropical storms that drifted into the area from their spawning grounds off the coast of Mexico and Central America. The first of these, Hurricane CELESTE, passed westward well south of the State and went on to strike Johnston Island. The other two, Tropical Storms DIANA and FERNANDA, swung northward before reaching Hawaii, although DIANA's course brought it close to the islands during its dying stages.

In life cycle and track, CELESTE, DIANA, and FERNANDA were reminiscent of LORRAINE and MAGGIE in August 1970 and DENISE and ELEANOR in July 1971. All formed off Mexico and Central America, failed to undergo the usual northward recurvature in the Eastern Pacific, and then travelled thousands of miles westward toward Hawaii along the southern periphery of a strong high pressure area.

CELESTE attained full hurricane strength on the morning of the 10th, near 16° N, 131° W. It then gradually swept west-southwestward, reaching its southernmost latitude on the evening of the 13th, when about 480 miles south-southeast of South Point, Hawaii Island. From this point CELESTE turned west-northwestward on a direct course for Johnston Island, passing about 380 miles south-southwest of South Point, its closest approach to the Islands. Waves up to 15 feet high pounded the coast of Hawaii Island, from Kapoho to South Point on the 14th and Kona on the 16th. On the 17th, three small fishing boats west of South Point were swamped and one of them smashed against the rocks, for a total loss of \$2,000.

Early on the 19th, CELESTE, which had been heading directly toward Johnston Island, abruptly swerved to a more northwesterly course. That afternoon the storm center passed only about 25 miles northeast of Johnston, sweeping the island with hurricane-force winds; but then weakened rapidly as it moved north-northwestward. The tiny island had been entirely evacuated as a precaution against the possible escape of the toxic gases stored there, but appears not to have sustained serious damage. Further details may be found in the August 1972 issue of Climatological Data, Pacific.

DIANA, born a few days after, and about 500 miles southeast of CELESTE, became a hurricane on the afternoon of the 12th after reconnaissance aircraft reported maximum surface winds of 75 m.p.h. DIANA continued northwestward, reaching 19° N, 137° W on the afternoon of the 15th, and then swung westward. By the evening of the 17th, DIANA lay about 320 miles east of South Point, having weakened to tropical storm strength on the

morning of the 16th. The storm then began a slow recurvature to the northwest, still aimed at Hawaii. On the morning of the 19th, DIANA was poised 60 miles northeast of Hilo, nearly stationary, and still a threat to the State. But this proved to be her closest approach. She then moved off northwestward, parallel to the Islands, and rapidly dissipated.

On the morning of the 18th, waves estimated to be 30 feet in height struck Hawaii Island's Puna coast at Kalapana, Kapoho Beachlots and Kapoho Vacationland. At Vacationland, which was most severely hit, the waves swept four homes off their foundations, extensively damaging one of them, flooded another home, washed rocks and debris inland, and eroded 200 feet of a private road. A couple suffered minor cuts and bruises when they were knocked down and swept into the bushes by a wave. Damage was estimated at \$75,000 to the homes, excluding furnishings, and at \$2,000 to a swimming pool in nearby Pohoiki. Tides at Hilo Harbor rose 4 to 5 feet above normal, beginning about 8 a.m. of the 18th and lasting throughout the day.

On Maui, the only reported storm damage was the loss of some sand from Hamoa Beach on the eastern shore by waves estimated at up to 20 feet high, but of short duration.

FERNANDA formed near 11° N, 104° W on the morning of the 19th and moved west-northwestward, reaching hurricane strength on the afternoon of the 21st, when near 13° N, 111° W. It was downgraded to a tropical storm early on the 26th. Coming to within 450 miles east of Hawaii Island by the afternoon of the 27th, FERNANDA's forward motion slowed, and it recurved to the northwest. On the morning of the 29th, diminishing rapidly in strength, it passed within 220 miles of Hilo, its closest approach to the islands.

On the afternoon of the 31st, perhaps as an aftermath of FERNANDA, a flash flood from rains in Hawaii Island's Kohala Mountains overtopped Waipio Stream, damaging a farmer's pickup truck and destroying his 16 bags of taro.

Rainfall over the State was uneven; above normal in some areas, but -- despite DIANA and FERNANDA -- below normal in most.

Kauai's rainfall reached its August mean at only a few places in the northeast, and then only barely. Elsewhere, it was below normal. Southwest and northwest areas were driest, with less than one-fourth their means for the month.

On Oahu, also, only an occasional gage exceeded its monthly mean, while a greater number, mainly

SPECIAL WEATHER SUMMARY - Continued

leeward of the Koolaus, reported less than half their August normals.

On Molokai, owing largely to FERNANDA, rainfall exceeded August normals except in the southwestern portion of the island, but neighboring Lanai was deficient everywhere.

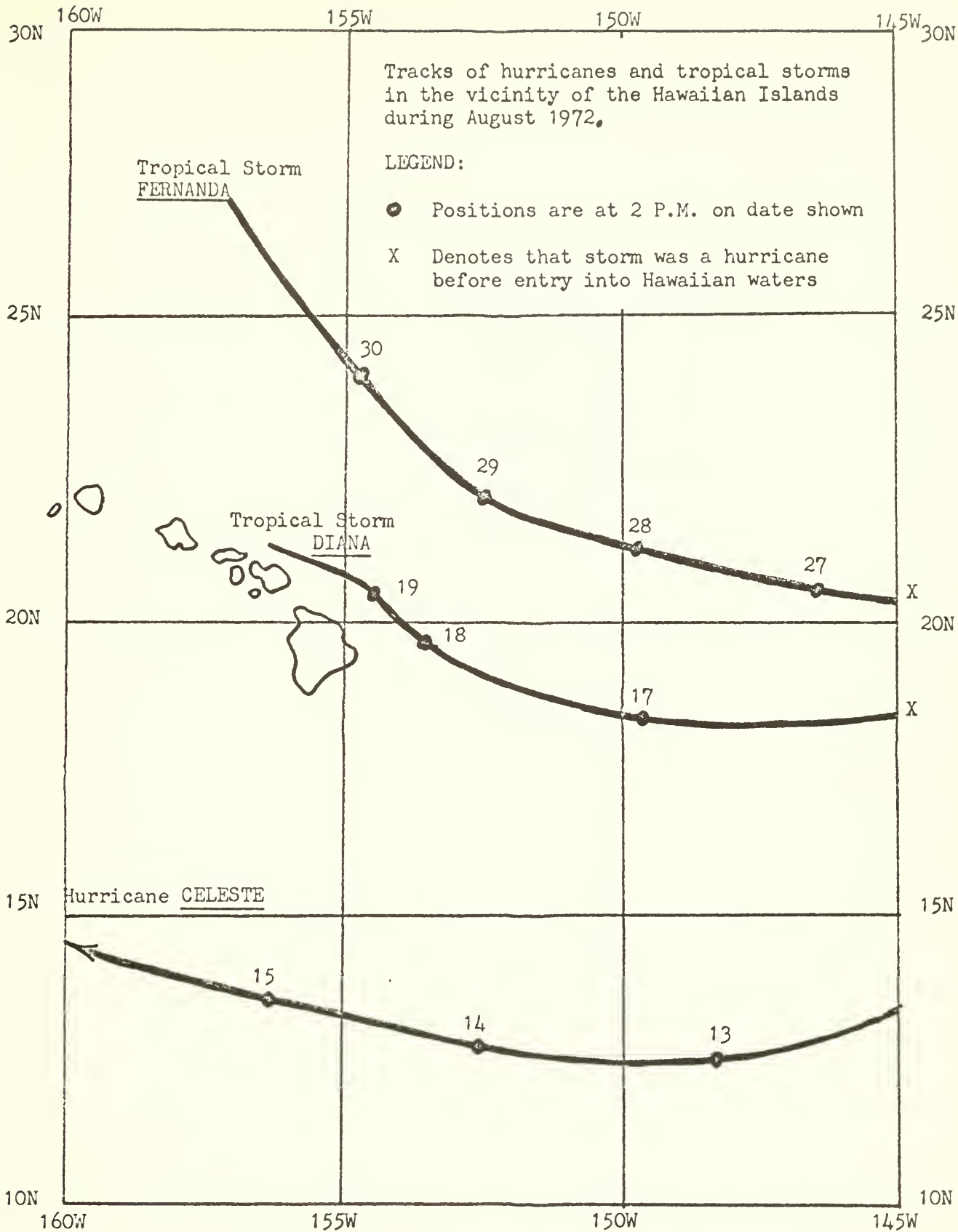
Maui's central valley had two to three times its August normal -- mainly from FERNANDA on the 29th, and much needed in that long-dry area. But East Maui, including the mountain watersheds, was below normal, despite rains from DIANA

in the Waikamoi Dam and Paakea areas.

On Hawaii Island, Moaula, and Pahala on the southeastern slopes of Mauna Loa, registered two and three times, respectively, their normals for the month, aided by DIANA. Relieved, also, was the chronically deficient Hamakua Coast. At Haina, for example, this was only the second month out of the past 17 in which rainfall reached or exceeded its monthly mean. Kohala, on the other hand, as well as the North Kona and Hualalai Districts, had under half their August averages, and the Kawaihae area was entirely dry.

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DAILY PRECIPITATION

HAWAII
AUGUST 1972

Continued

Station	Total	Day of Month																																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
* ISLAND OF MOLOKAI *																																										
KALAUAPAPA 563	A	3.74	.12	.04	.03		.04	.29			.06	.10	.06	.11						.74	*	*	*	*	*	.07		1.81	.27		.41	.04	*									
KAMAOKAIAI 536	A	1.20																														1.23		*								
KEONELELE PENS 551	A	2.29								.03	.12	.06	*	.08	T				.01	*	*	.49	*	*	.02	*								*								
KUALAPUU 534	A	3.22		.12	.02		.02	.12		.06	.04	.03	.22	.02	.02				.16	.58	.59	.23		.09	.03	.15	.06	.09		.02	T	.05	.14	.26	*							
MAPULEHU 542	A									.06	.04	.03	.22	.02	.02				.16	.58	.59	.23		.09	.03	.15	.06	.09		.02	T	.05	.14	.26	*							
MAUNALOA 511	A	1.08			.01					.05	.12			.01								.05								.03	.60		.17		*							
MOLOKAI AP 524	A	1.29			.01					.23	.16	.01		.02						.02	*					.02	T		T	.48	.04	*		*								
PUUHOHU RANCH 542.1	A																				.11	.23	T												*							
WAIKOLU 540	A	5.87				.34					.30												4.98						.25						*							
* ISLAND OF LANAI *																																										
KANEPUU 690	A	.53	*	*	.20	*	*	*	*		.03	*	*	*	*	*	*	.01	*	*	*	*	*	*	.11	*	*	*	*	*	*	*	*	*	.17	*						
KAUHALAPAU HARDDR 658	A	.00																																		*						
LANAI CITY 672	A	.62	.05	*	*	*	*	*							.08						.02	*	*	*	*	*	*		.01	.30	.06	*	*	*	*							
LANAI MALE 684	A	1.50	*	*	.05	*	*	*			.11	*	*	*	*	*		.40	.02	*	*	*	.03	*	*	*	*	*	*	*	*	*	*	*	*	*						
MAHANA 694	A	.13																							.01	*	*	*	*	*	*	*	*	*	*	.13	*					
MALAEUA 676	A	.16																.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.10	*					
WAIKAEKUA 685	A	.96																																			.96	*				
* ISLAND OF MAUI *																																										
AUWAHI-252	A	1.48		.05						.07											.57	.71	.56	.01	.96											.40	*					
HALEAKALA 0 E S 434	A	4.51	*	*	.04	*	*	*	*		.01	.09	*	*	.05	.01					.57	.71	.56	.01	.96											.40	*					
HALEAKALA RANCH 432	A	2.81	*	*	*	*	*	*	*		.01	.09	*	*	.05	.01					.57	.71	.56	.01	.96											.40	*					
HALEAKALA RS 338	A	2.88					T	T				.03	.19	T	T					.18	1.05	.44	.25	T												.93	*					
HALEAKALA SUMMIT 338.4	A	2.67					T	T				.03	.19	T	T					.18	1.05	.44	.25	T												.93	*					
HALIIMALE 423	A	2.72				.01						.05								.11	.32	*	.14	*	*	*	*	*	*	*	*	*	*	*	*	.17	*					
HAMAUKU 485	A	3.90				.10				.04			.12	.25	.06	.15				.07	.32	.66	.47	.23			.05	.03	.09							.17	*					
HANA 354	A	9.86	.02	.03	.03	.44	*	*	*	.35	.03	.53	.45	.34	.09	*	.65	.02		.04	.07	.32	.66	.47	.23			.05	.10	.44	.25	T				.93	*					
HANA AIRPORT 355	A	7.51	.05	.05	.13	.18	.19	.20			.11	.30	.40	.66	.50	.23	.07			.04	.04	.19	.89	.97	.13		.10	.09	.51	.10	.10	T	.37	.29	.62	*						
HANAHULI 281	A	6.24			.09	.26	.07	.16		.10	.09	.10		.15	.49	.57		.04		.12	.04	.08	.99	1.31	.29		.07									.09	.02	.03	.92	*		
HOLUA CABIN 259.5	A	3.44	.18	*	*	*	*	.01				.10	.57	*	.15	*	*	*	*				2.43	*	*	T	T	T	T	T	T	T	T	T	T	T	T	.92	*			
HONOKOHU 480	A	11.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.50	*			
HONOKOHU 493	A	3.05	*	*	.10	*				.05	*		.04	.06	*	*	.21	*	*		.16	.39	1.00	*	*		.14	.01	.13	*	*	*	*	*	*	*	.65	.02	*			
HONOHU CULCH 341	A	8.07	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.07	*		
KAAHAPALI AIRPORT	A	.48										.02										.04	.01	.01													.48	*				
KAHOMA INTAKE 374	A	2.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.20	*			
KAMULU HSD 398 AP	A	8.84	T	*	*	*	*	*	*	.01	*	*	*	*	*	*	*	*	*	*	.12	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	8.84	*			
KAILIILI 436	A	8.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.55	*			
KAILUA 446	A	10.45	.48	*	.30	.02	*	.06		.03	.03	.06	.15	.95	.25	1.23	.39	.30		.07	.05	.76	.65	2.14	.71		.02	.11	.08	.10	.32	.03	.17	.97	.02	*	*					
KAUAAU INTAKE 375	A	.63																																				.63	*			
KEAHUA 410	A	1.83			T							.05										.01	.08	.01	*	*	*	*	*	*	*	*	*	*	*	*	.05	1.55	.05	*		
KEANAE 346	A	17.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.20	*		
KEEWAHAPU BEACH 260.2	A	1.10																																					1.10	*		
KIMEI 311	A	4.37				.04	*	*		.05	*		.04	.06	*	*	.21	*	*		.16	.39	1.00	*	*		.14	.01	.13	*	*	*	*	*	*	*	.34	.03	*			
KIPAHULU 258	A	6.01	.29	.06	.20	.10	.20	.30			.15	.09	.53	.22	.20	.04		.06	.03	.36	1.89	.20	.16				.18	.14	.24									.21	.09	*		
KULA HEIGHTS 323.2	A	1.65										.17	.11																									.98	.35	*		
KULA SANATORIUM 267	A	2.59	T	*	*	*	*	*	*			.05	.07	.03														.12	1.52									.70	.10	*		
LAHAINA 361	A	1.18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.17	.10	*		
LAUNIUPOK INTAKE 376	A	2.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.17	.10	*		
LAUNIUPOK VILLAGE 372	A	.42																																					.42	*		
LUPI UPPER 442	A	12.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.80	*		
MAHINAHINA 466	A	1.69	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.96	*		
MAHOLE -FLO 60-497	A	3.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.95	*			
OLINALU 322	A	4.32	*	*	*	*	*	.03		.12	*	*	*	*	.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.34	.03	1.23	.34	*
OLOWALU 296	A	.34																																					.34	*		
PAAKEA 390	A	16.66	.17	.05	.46	.07	.32	.02	.08	.07	.29	2.10	.56	1.23	.52	.57	.24	.58	1.11	1.11	2.91	2.04	.05		.10	.20	.08	.06	.33	.07	.90	.32	*	*	*	.90	.32	*				
PAIA 406	A	1.43			.03			.01			.01	.03		.08	.08	.02				.11	.38	.11	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	.59	.14	*		
PANILEIYU 259.2	A	2.70																																						2.70	*	
POMAKEA BRIDGE 307.2	A	.78																				.07	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	.50	.20	*	
POLIPOLI SPRINGS 267.2	A	2.27																																						2.27	*	
PUHOHOKAMA 2 343	A	21.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	21.60	*		
PUUNENE 396	A	1.22									.01											.13	.01															.70	.37	*		
SPRECKELSVILLE 400.2	A	1																																								

DAILY PRECIPITATION

HAWAII
AUGUST 1972

Continued

Station	Total	Day of Month																																	
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
*KALAKEUA 70.2	6.71		.01			.03	T	.29	.36	.01	T									.82	1.14	1.09		.13			.02		.06	2.75					
*EHENA 18.2	11.50																																		
*IOLIKAI A & F 6	17.82	.35	2.61	.32		.24		.17	T	.41	.09	.62	1.47	.55		.56	.56	3.06	.64	5.74															
*IPA 49.2	3.44		.08					.07		.11				1.09	.03		.19	.62		.98	.01						.03	.09	.07	.13					
*OHALA MAHILI 176	2.52		T	.11				T	.05		.12	T	.25	.40	.02		.28	.24	.23	.18	.41	T			T	.03	T	.03	.09	.08					
*OHALA MISSION 175.1	10.03			.15				T			1.10		1.10	.91		.11	.63	3.60	.21	1.46					.06		.05	.81	.04	.11					
*OHALA LOWER 196	5.39					.16				.05		.36	1.31	.31		.05	.60	2.10	.50	.26						.08	.15	.14	.63	.77					
*OHALA KAILUA 68.3	1.95		T							.02	.15	.15	.13	.05		.03	.01	.57	1.72	.18	1.30														
*OHALA VILLAGE 93.8	9.98		.10	.04				.03	.07	T	.11		.54								.06														
*OKALAU 222	6.40																																		
*OKUIHALE MIC 199	5.29																																		
*OKUIHALE HILL 206	7.81	.06	.10	.06		.05		.06				.02	.15	.15	.13	.05		.03	.01	.57	1.72	.18	1.30												
*KULANI CAMP 79	1.87																																		
*KULANI MAUKA 76	4.88				.29						.25																								
*KULANI SCHOOL SITE 78	1.93							.13	.09			.11									.96	.52													
*LANIHOU 68.2	2.78																																		
*KAKAHALOU 103	8.41							.50	.30		.50	T			.01																				
*MAUKA 2	1.70																	.06	.28	.08															
*MAUNA KEA OBS 111.2	1.34																	.31	.07																
*MAUNA LOA SLOPE OBS	1.80			.15																															
MIDDLE POLUALOA 68.1	1.00																																		
*MOOLF PEN 17-71.1	7.10																																		
*MOAULA 18	10.97	.15	1.23	.20		.05	.35				.16	.12	.27	.57	.27	.13	.31	.39	1.78	.37	3.21	.02				.02	.02								
*MOUNTAIN VIEW 91	3.53	.02	.75	T				.01			.01																	.01							
*NAALEHU 14	2.06																																		
*NAPPOPOD 28	2.45							.02			.12			.78																					
*NIULII 179	11.60	.05	.02	.04	.12			.09	.02	.04	.18	.02	T	.05	.01	.01	.32	.62	3.70	.11	2.50														
*OKALA 223	6.75					.19	T	.09	.02	.04	.18	.02	T	.05	.01		.14	.46	.10	.56		.13	1.46	.11	T	.02									
*OKUIHALE 2 24.1	7.69										.91																								
*ORCHID LAND EST 91.5	6.67			.05						.07	.03		.16	1.40	.07		.02	.33	1.93	.53	.84														
*PAAUHOU 217	8.39		.13	.03				.02	.13	T	.03	.36	.97	.64	T	.06	.71	3.06	.25	1.16	T														
*PABULO 221	9.74	.05	1.37											.01																					
*PAHALA 21	10.48	.04	.15	.12				.09	.14	.06		.21	.44	.94	.05	.04	.35	.55	2.50	1.50	2.49	.04				.47		.02	.06	T					
*PANDA 65	5.90					.13	.19																												
*PANDA 37	13.99	.46	.58	.12	.03	.15	T	.45	.20		.58	.58	.73	1.31	.07	.06	.62	.38	3.28	2.20	2.03	.03				.03	.01	T							
*PAPAIAOUI 144.1	19.57	.69	1.75	.19		.44		.26	.07		.57	.65	.78	2.40	.72	.13	.43	.65	3.58	2.43	3.65	.03													
*PAPAIAOUI MAUKA 140.1	14.60														.44																				
*PIIHOUA 89	1.31																																		
*PONAALUA 107	T																																		
*PUAKO 95.1	6.84																																		
*PUU KIME 120	3.42																																		
*PUU LAAU 102.1	1.20																																		
*PUU LEHUA 73	3.80																																		
*PUU MAII 113	4.04														.71	.02	.01			.25	.45	1.10													
*PUU OO 82	.32										.47																								
*PUU WAHAA 94.1	10.16				.29																														
*SADDLE ROAD 184	.70					.12									.03						.55														
*SOUTH POINT CORAL 3	11.48							.02	.32		.04		.03	.41	.14																				
*UMIKOA 118	.84										.02		.02	.19			.07	.19	.05	.13	.01							.06	T						
*UPOLU POINT USCC 159.2	16.41	.37	3.85	.29		.18		.04	.06		.71	.20	.53	1.12	.54	T	.32	.54	2.03	.86	4.02						.02								
*WAIKAEA SCO 88.2																																			

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)					Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine		
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total	Percent of Possible sunshine	Average sky cover sunrise to sunset	
						02	08	14	20										
HILO WSD 87 AP	36	1.2	6.2	25	NW	19	90	80	70	86	5	7	11	1	2	1	27	49	6.2
HONOLULU WSD 703 AP	5	12.3	14.1	28	NE	19	71	67	53	66	14	7	1	0	0	0	22	72	4.9
KAHULUI WSD 398 AP	4	11.7	13.0	30	E	16+	81	73	59	75	11	4	3	0	0	0	18	70	4.3
LIHUE WSD 1020.1 AP	4	10.2	10.9	24	NE	20	81	76	66	76	10	15	3	0	0	0	28	68	5.6

DAILY TEMPERATURES

HAWAII
AUGUST 1972

Continued

Station	Day of Month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KULA SANATORIUM 267	MAX	74	77	76	75	74	76	75	75	75	76	75	68	75	79	78	79	75	79	81	80	72	78	78	72	73	75	75	75	78	78	74	74
	MIN	57	59	57	59	60	62	60	59	59	60	58	59	62	63	60	59	60	63	66	64	60	57	58	57	56	59	59	60	58	59	65	
LAHAINA 361	MAX	88	88	89	88	89	91	90	89	88	89	86	88	89	89	90	88	90	91	91	88	89	89	88	88	88	87	88	90	88	88	88	
	MIN	68	69	69	66	68	69	69	68	68	68	68	68	69	69	70	68	68	69	69	69	69	68	66	66	67	67	67	67	70	70	70	
HAILUKU 386	MAX	82	85	83	82			87	83	83	83	82			83	85	85	84	82			84	84	82	82	83			85	84	82	81	
	MIN	70	70	70	68			71	72	71	70	68			71	72	73	74	73			70	72	71	72	72			71	72	73	72	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	82	83	83	82	83	83	83	84	84	84	84	84	83	83	81	83	83	83	77	78	77	81	82	82	83	82	82	82	84	85	84	
	MIN	68	68	67	67	67	71	67	69	67	67	67	67	70	70	69	71	71	71	67	67	69	67	66	65	67	67	67	70	70	71	72	
HAWAII VOLCNS NP HO 54	MAX	71	70	65	73	68	75	67	73	73	72	71	70	75	74	67	72	71	76	68	68	64	71	70	71	73	74	75	75	77	75	67	
	MIN	55	57	53	52	54	56	54	55	54	55	54	55	54	59	56	51	57	60	62	61	57	54	63	52	54	55	56	55	52	63	59	
HILO WSD 87 AP	MAX	85	84	82	87	87	85	85	83	83	84	84	85	85	84	86	81	85	78	85	79	85	84	83	85	83	84	84	85	87	88		
	MIN	70	72	68	67	70	71	72	68	64	64	69	68	69	72	69	68	71	73	71	72	71	67	65	64	65	64	69	65	69	70	73	
KAINALIU 73.2	MAX	79	81	78	79	80	80	78	78	78	75	77	79	80	80	82	81	82	84	83	79	79	79	78	80	79	78	79	80	82	78	81	
	MIN	64	65	65	63	63	66	65	64	63	63	66	64	63	64	64	64	68	65	69	65	65	67	63	62	62	62	64	68	65	67	68	
KAMUELA 192.2	MAX	80	82	75	74	82	76	75	75	74	75	74	74	76	75	72	74	74	72	70	72	73	75	74	74	75	74	76	75	76	76	78	
	MIN	55	58	60	53	56	60	60	62	60	60	60	60	61	62	62	62	62	63	60	59	60	60	59	58	58	60	60	62	62	63		
KEAAU 92	MAX	82	82	81	82	84	84	83	83	82	83	84	81	82	84	81	83	79	82	75	82	78	82	82	82	82	82	84	84	85	86	87	
	MIN	65	68	66	66	66	68	69	68	65	64	65	66	66	69	70	67	68	70	70	69	70	67	65	63	62	64	64	68	67	69	70	
KEALAKEKIA 26.2	MAX	80	82	81	79	81	80	81	80	79	76	80	80	79	80	82	83	82	84	84	78	79	80	79	79	78	78	78	81	83	79	81	
	MIN	64	65	66	63	64	66	65	64	64	64	65	65	63	64	67	65	69	66	68	65	66	67	64	62	62	61	63	66	65	67	69	
KOHALA MISSION 175.1	MAX	82	83	81	81	84		83	83	83	83	84	83	82	83	81	83	82	81	79	80	79	81	81	81	82	82	84	83	84	85	86	
	MIN	66	68	67	67	69		71	70	70	69	67	70	69	70	70	72	70	72	68	68	70	68	68	68	68	68	69	71	71	73	73	
KONA (KAILUA) 68.3	MAX	86	88	85	86			87	86	87	85	87			86	87	88	88	89			83	85	86	86	87			88	93	88	86	
	MIN	72	70	73	70			72	72	72	70	74			71	73	73	75	73			70	74	72	71	70			71	73	76	74	
KULANI CAMP 79	MAX	66	67	61	68	68	68	68	68	68	68	64	64	69	69	65	65	67	72	68	65	64	62	65	65	57	68	70	63	72	72	61	
	MIN	47	54	49	45	49	54	46	48	51	48	53	49	54	54	49	50	49	57	63	55	55	48	45	45	48	46	51	49	48	53	56	
MAUNA LOA SLOPE OBS	MAX	57	63	59	57	57	54	54	53	54	54	48	52	59	61	59	60	62	48	50	52	51	54	51	52	54	60	58	56	54	58	49	
	MIN	44	42	44	40	40	38	38	36	37	34	33	36	43	37	37	43	42	41	40	37	39	36	35	34	34	38	41	38	38	41	40	
MOUNTAIN VIEW 91	MAX	78	79	77	79	81	81	81	78	78	79	79	80	80	80	74	80	83	76	76	76	76	77	77	79	80	82	82	82	83	80	84	
	MIN	61	60	62	60	60	60	60	63	60	59	59	61	61	61	65	62	62	65	66	66	66	61	58	57	57	59	59	59	63	65	66	
NAALEHU 14	MAX	82	83	78	82			82	82	81	81	81			84	81	82	80	85			87	80	80	82	82			84	85	89	81	
	MIN	70	69	66	66			68	66	66	66	66			68	72	71	71	69			71	68	66	67	66			65	71	72	72	
OKALA 223	MAX	80	82	81	81	82	82	82	82	82	81	82	82	83	82	79	83	82	82	76	81	76	80	81	80	81	81	82	83	83	81	85	
	MIN	68	68	69	67	71	71	69	70	67	67	68	68	70	70	70	72	70	71	66	68	70	69	68	67	69	69	68	71	73	72	73	
OPIHIKALE 2 24.1	MAX	83	76	79	79	81	77	77	79	79	77	77	79	82	84	84	83	86	84	84	77	82	79	80	76	75	75	82	81	78	79	84	
	MIN	62	63	61	61	63	65	65	63	62	63	64	62	62	66	68	66	65	68	65	68	67	63	61	60	59	61	63	64	65	69	66	
PAHALA 21	MAX	84	84	80	83			83	83	83	83	83			86	83	83	82	89			85	81	80	80	82			84	84	86	80	
	MIN	66	67	62	63			64	62	63	62	62	62			64	67	66	67	69			69	64	61	62	62			60	67	68	71
PUAKO 95.1	MAX	84	91	88	88	86	86	86	88	89	87	87	87	87	85	87	89	88	91	90	91	87	88	87	86	86	87	88	87	91	88	87	
	MIN	70	71	74	70	70	72	76	74	73	72	73	72	76	75	73	71	75	79	76	73	78	74	71	71	72	71	72	73	72	75	76	
UPOLO POINT USCG 159.2	MAX	86	87	86	84	87	85	87	85	85	84	84	85	86	84	85	84	84	78	82	85	82	84	83	84	84	84	85	86	85	85	85	
	MIN	71	78	72	71	71	72	73	72	72	71	70	72	72	72	74	71	72	74	72	72	72	72	79	71	71	69	69	73	79	72	76	

EVAPORATION AND WIND

Station	Day Of Month																															Total or Avg.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																
ISLAND OF KAUAI																																
LIHUE WSD 1020.1 AP	EVAP	.33	.29	.33	.35	.31	.33	.33	.30	.40	.41	.38	.33	.36	.33	.35	.41	.46	.29	.28	.33	.22	.32	.31	.25	.36	.34	.25	.32	.36	.32	.27
	WIND	173	84	169	137	114	129	165	150	161	167	185	183	171	144	146	256	250	220	201	218	257	188	128	99	146	144	126	107	133	108	78
	MAX	93	94	91	92	91	94	90	94	92	91	90	90	91	91	94	92	90	91	91	92	85	90	91	91	93	92	90	95	93	91	93
	MIN	70	70	70	70	69	69	77	71	71	71	70	71	71	71	71	72	71	71	71	73	73	73	71	70	70	70	70	72	72	72	72
* * *																																
ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.25	.23	.45	.36	.28	.30	.30	.27	.30	.25	.30	.30	.43	.35	.38	.45	.30	.30	.40	.37	.27	.37	.36	.32	.34	.33	.37	.24	.40	.32	.14
	WIND	34	22	35	28	28	31	33	31	30	25	28	31	31	31	37	53	49	47	53	47	34	33	26	23	24	23	25	32	34	13	997
	MAX	90	89	92																												

STATION INDEX

HAWAII
AUGUST 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
18	1	3	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO	PUU LEHIA 73	A 8400	04	N KONA	4	19 34	155 49	4800				W.H. GREENWELL RANCH	
19	2	3	KAU	3	19 33	155 07	1530	0A	0A			PUNA SUGAR CO	PUU MALI 113	A 8315	01	HAWAII	1	19 55	155 26	6500				KUKAIAU RANCH CO	
20	3	3	KAU	3	19 22	155 55	935					HUTCHINSON SUGAR CO	PUU OO 92	A 8550	02	S HILO	2	19 44	155 23	8300				MISS JACKIE BENLEH	
21	4	3	KONA	4	19 29	155 55	935					HONG KONG EXPERIMENT STA	PUU WAANAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520				DILLINGHAM RANCH INC	
22	5	3	HAWAII	5	20 14	155 45	75					KOHALA CORPORATION	SKADLE RD 84	A 8500	02	S HILO	2	19 42	155 12	2300				BOARD OF WTR SUPPLY	
23	6	3	HAWAII	6	20 01	155 17	435					LEIAPAHUWE SUGAR CO	SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	200				HAWAIIAN RANCH COMPANY	
24	7	3	HAWAII	7	19 16	155 31	1270					MISS C. LEONARD	UMIKO 118	A 8780	01	HAWAII	1	19 59	155 23	3420				KUKAIAU RANCH CO	
25	8	3	HAWAII	8	19 34	155 00	445					BOARD OF WATER SUPPLY	UPDLO POINT USCO 159.2	A 8830	01	N KONA	1	20 15	155 58	61				U.S. COAST GUARD	
26	9	3	HAWAII	9	19 05	155 18	415					PANAKA SUGAR CO	WAIKAEA SCO 89.2	A 9025	02	S HILO	2	19 40	155 08	1050				SHINICHI KANEHIED	
27	10	3	HAWAII	10	20 03	155 22	800					PANAKA SUGAR CO	WAIKANDIULUA 176.6	A 9350	01	N KONA	1	20 08	155 47	3830				KANUA RANCH	
28	11	3	KAU	3	19 12	155 29	870	0A	0A			HAWAIIAN AGR CO													
29	12	3	KAU	3	19 30	154 57	870	0A	0A			PUNA SUGAR COMPANY													
30	13	3	KAU	3	19 22	155 28	4000					HAWAIIAN RANCH CO INC													
31	14	3	HAWAII	14	19 47	155 06	200					HAWAIIAN RANCH CO INC													
32	15	3	HAWAII	15	19 47	155 08	1270					HAWAIIAN RANCH CO INC													
33	16	3	HAWAII	16	19 44	155 10	1790					HAUNA KEA SUGAR CO													
34	17	3	HAWAII	17	19 45	155 32	6511					STATE DIV OF FORESTRY													
35	18	3	HAWAII	18	19 34	155 00	5					STATE DIVISION OF PARKS													
36	19	3	HAWAII	19	19 34	155 24	7750					ERWIN H. RAPP													
37	20	3	HAWAII	20	19 50	155 36	7440					KUKAIAU RANCH CO													
38	21	3	HAWAII	21	19 50	155 36	7440					STATE DIV OF FISN-GAME													

1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

- Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 4650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII."
- DIENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.
- OBSERVATION TIME:** Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.
- EVAPORATION:** Is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.
- NORMALS:** For all stations are climatological standard normals based on the period 1931-1960.
- STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.
- LATE REPORTS AND CORRECTIONS:** will be carried only in the June and December issues of this bulletin.
- INTERPOLATED VALUES:** for monthly precipitation totals may be found in the annual issue of this publication.
- IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
 - No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
 - And also on an earlier date or dates
 - ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
 - * Amount included in following measurement, time distribution unknown.
 - A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
 - B Adjusted to a full month.
 - M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 - R Amounts from recording gage.
 - T Trace, an amount too small to measure.
 - V Includes total for previous month.
- IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- AR Observation made after rain
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Monthly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Monthly Precipitation Data" bulletin.
 - M Gage read once monthly, usually on the last day.
 - R Gage readings at periods varying from a few weeks to several months.
 - S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
 - SD Supplemental Data" table.
 - SU Observation time is near sunset.
 - VAR Observation time is variable.
 - W Gage read weekly or irregularly only
 - WM Gage read weekly and last day of month.
 - # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- Figures appearing in the tables with no data were either missing or received too late to be included in this issue.
- General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and WEATHER DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.
- Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this state, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.
- Subscription Price: \$2.50 a year for each section including annual summary; \$1.00 additional for foreign mailing. 20¢ single copy; 20¢ annual summary. Make checks payable to Department of Commerce, NOAA. Send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

William H. Hoggard
 Director, National Climatic Center

USCOMB-NOAA-ASHEVILLE, N. C. 11/30/72-890

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CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

SEPTEMBER 1972

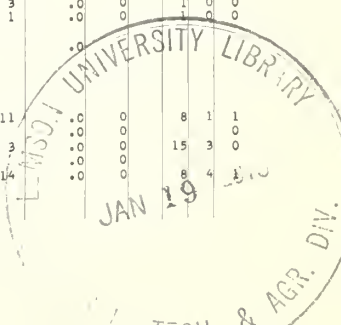
Volume 68 No. 9

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow/Sleet			No. of Days						
										91° or Above	31° or Snow	0° or Below	0° or Below					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
* * * ISLAND OF KAUAI																											
ANAPOLA 1114																											
KANALOHULUHULU 1075																											
KAPAA STABLES 1104																											
KILAUEA FIELO 17 1135																											
KILAUEA POINT 1133	84.7	73.2	79.0		90	16	65	29		1	0	0	0	2.11		.65	3				8	1	0				
* * * KOOA 936																											
LIIHUE WSO 1020.1 AP	83.8	73.7	78.8	.7	88	14	67	13+		0	0	0	0	3.94		.44											
MANA 1026	86.2	68.4	77.3	.6	90	5+	67	24+		3	0	0	0	1.95		.13	.72	4			4	1	0				
N WAILUA OITICH 1051														1.39		.60	1.02	16					7	1	1		
PH WAINIHA 1115														12.66													
PUEHU RIDGE 1040														4.52		-1.55	2.15	2					8	2	2		
WAHIAWA 930														4.78			1.05	16					9	6	1		
WAIAHI LOWER 1054	83.2	64.2	73.7		87	19+	60	20+		0	0	0	0	3.76		2.05											
WAIMEA 947														6.79			2.19	4					12	3	2		
														1.90		1.24	.89	16					4	2	0		
* * * ISLAND OF OAHU																											
* * * ISLAND OF OAHU																											
HONOLULU OBSERV 702.2	87.4	73.6	80.5	1.3	89	24+	69	13+		0	0	0	0	.58		.47	1										
HONOLULU WSO 703 AP														.92		-.07	.77	1					1	1	0		
KAHUKU 912	86.7M	75.4M	81.1M	2.9	88	24+	71	13+		0	0	0	0	1.43		-.42	.84	17				2	1	0			
KANEOME MAUKA 781	84.2M	72.0M	78.1M	1.3	87	1	69	13+		0	0	0	0	2.66		-1.15	.89	4				7	2	0			
KOOLAU OAM 833														7.45		1.21	1.92	29				15	3	3			
LUALUALEI 804	89.3	70.6	80.0		92	21+	64	10+		19	0	0	0	1.33			1.25	4					1	1	1		
MAKAPUU POINT 724	80.1M	73.4M	76.8M		87	1	68	4		0	0	0	0	.31		-.40	.12	4					2	0	0		
NUUANU RES 4 783														2.58		-5.95	.88	3					9	1	0		
OPAEULA 870	80.8	66.2	73.5	.3	88	17	60	7+		0	0	0	0	1.42		-1.02											
PALOLO VALLEY 718														2.93		-5.50		1.26	3				1	1	0		
PR1 WAHIAWA 820.2	86.1	66.1	76.1		92	17	62	29+		3	0	0	0	2.07													
WAHIAWA OAM 863														3.85													
WAIHOLE 837														4.64													
WAIALEE 896.3	86.2	72.2	79.2		89	15	68	6		0	0	0	0	2.32		-5.13	.86	16					5	2	0		
WAILUA 847	87.6	67.4	77.5	1.2	94	15	62	8		3	0	0	0	2.34		1.55	1.31	16				3	2	1			
WAIKIKI 717.2	87.3	71.1	79.2		89	17+	67	10+		0	0	0	0	.59			.36	2					3	0	0		
WAIMANALO EXP FARM	84.6	93.7	89.2		92	16	68	13+		1	0	0	0	.46			.34	4					1	0	0		
WAIPIHU 750														.87		-.21											
* * * ISLAND OF MOLOKAI																											
* * * ISLAND OF MOLOKAI																											
KUALAPUU 534														.42		-.36											
MAPULEHU 542														.96		-1.64	.35	2					2	0	0		
MAUNALOA 511														1.09		-.02	.53	1					1	1	0		
MOLOKAI AP 524	83.7	72.4	78.1		87	17	68	25		0	0	0	0	.12			.10	1				1	0	0			
* * * ISLAND OF MAUI																											
* * * ISLAND OF MAUI																											
HALEAKALA 8 E S 434	64.7	44.7	54.7		73	27	37	7		0	0	0	0	1.90		-.40	.80	1					3	2	0		
HALEAKALA RS 338														.99			.40	2					3	0	0		
HANA AIRPORT 355	85.0	67.8	76.4		88	14	64	21+		0	0	0	0	3.71			1.44	1					8	2	1		
HONOKOHUA 493														2.77		1.09	1.60	1									
KANAPALI AIRPORT	84.8	69.9	77.4		87	26+	67	30+		0	0	0	0	.45			.40	1					1	0	0		
KAHULUI WSO 398 AP	88.5	68.6	78.6	.2	93	27	61	7		8	0	0	0	.02		-.23	.01	3+									
KAILUA 446	80.0	67.9	74.0	.7	83	15+	62	16		0	0	0	0	5.68		-1.82	1.27	2					13	3	1		
KEANAE 346														5.20		-7.03											
KIPAHULU 258														1.95		-4.90	.49	3									
KULA SANATORIUM 267	74.7	59.5	67.1	.6	78	16	56	6		0	0	0	0	.44		-1.53	.32	2					1	0	0		
LAHAINA 361	88.8	66.8	77.8		91	17+	65	30+		8	0	0	0	.10		-.19	.08	1									
PAIA 406														.36		-.92	.11	3									
WAILUKU 386														.29		-.31	.19	1									
* * * ISLAND OF HAWAII																											
* * * ISLAND OF HAWAII																											
HANA 214	82.7	68.6	75.7		86	15	63	13		0	0	0	0	2.77		-.48	1.36	11					8	1	1		
HAWAII VOLCAN NP HQ 54	71.2M	55.1M	63.2M	-.1	78	20	49	6		0	0	0	0	3.18		-1.91											
HILO WSO 87 AP	84.4	68.3	76.4	.9	90	15	64	6		1	0	0	0	5.20		-3.30	.71	3					15	3	0		
HUEHUE 92.1														2.58		-.65											
KAINALIU 73.2	79.1	63.8	71.5		82	29+	61	6		0	0	0	0	5.15		-2.45	1.77	14					8	4	1		

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 109



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
SEPTEMBER 1972

Continued

Station	Temperature											Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										90° or Above	32° or Below	32° or Below	32° or Below														
KEAAU 92	82.7	66.8	74.8	- .1	88	14	62	6		0	0	0	0	6.06	- 2.99	1.34	4	.0	0		13	4	1				
KEALAKEKUA 26.2	80.0M	64.5	72.3M		83	26+	62	9+		0	0	0	0	5.64		1.58	5	.0	0		8	6	2				
KONA (KAILUA) 68.3	86.4M	71.6M	79.0M		90	26	69	5		1	0	0	0	2.67		1.89	5	.0	0		2	1	1				
KUKUIHAELE HIC 199														3.21	.42	1.62	11	.0	0		7	1	1				
KULANI CAMP 79	66.4	49.5	58.0		78	4	45	6		0	0	0	0	3.32		.80	11	.0	0		10	2	0				
PAHALA 21		M	M	M	84	18	61	11		0	0	0	0	4.15				.0	0								
POHAKULOA 107														1.95				.0	0								
PUKO 95.1														.95		.50	2	.0	0		2	1	0				
PUU WAAWAA 94.1														.91	- 1.42	.34	1	.0	0		3	0	0				
UMIKOA 118														.82	- 1.34	.43	11	.0	0		2	0	0				
WAIKOLEA SCO 88.2														6.38		1.24	4	.0	0		19	2	1				
ISLAND			72.2											3.43				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 15TH AT WAIALUA 847, OAHU

LOWEST TEMPERATURE: 34° ON THE 20 AT HALEAKALA SUMMIT 338.4, MAUI

GREATEST TOTAL PRECIPITATION: 21.43 INCHES AT MOUNT WAIKOLEA 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.75 INCHES ON THE 5TH AT WAIKOLEA 540, MOLOKAI

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

September was mild and uneventful except for a brief threat of local flooding on Oahu on the 1st, a few days of volcanic haze during mid-month, and the formation of a tropical storm far to the south near the end of the month.

On the afternoon of the 1st, an intense thunderstorm deluged Central Oahu between the Koolau and Waianae Mountains with almost 3 inches of rain in 3 hours or less. Gages at Hokuloa, Leilehua, Mount Kaala, and Wahiawa Dam recorded 1-hour amounts of 1.5, 1.6, 2.0, and 2.2 inches, respectively. Three teen-age boys, catching frogs in an almost dry drainage canal near Pearl City, were caught by the abruptly rising water, but managed to hold on to bridge beams until one of them could climb out and get help from a nearby fire station. By the time assistance arrived, the water in the canal had risen to a depth of about 5 feet.

On the 14th and 15th, the trade winds gave way to light southerly winds that carried volcanic smoke and haze northward along the island chain from eruptions of Kilauea Volcano. The smoke was reported on Kauai on the 16th.

On the 24th, Tropical Storm JUNE began its short-lived career in the very active Inter-tropical Convergence Zone about 600 miles south-

southwest of Hawaii Island -- the latest in a long series of tropical storms that have entered or formed within the Central Pacific during the past several months. JUNE then moved west-northwestward directly toward Johnston Island, only 5 weeks after Hurricane CELESTE had struck that island. But although JUNE passed within 50 miles of Johnston, the storm remained at only moderate strength and did no damage. Further details may be found in the September 1972 issue of Climatological Data, Pacific.

Rainfall for September continued uneven. A few gages on the leeward (or western) side of Kauai, Oahu, Maui, and Hawaii Island collected from twice to over six times their average for the month, mainly from the rains of the 1st, while most other areas were drier than normal.

Thus, rainfall was less than a fourth its monthly mean in the eastern end of Oahu and in Maui's central valley. Molokai was below average except at higher elevations, and Lanai above normal in the Kanepuu and Malauea areas, but deficient elsewhere. On Hawaii Island, rainfall was up to four times its September mean in the chronically dry Kohala District, slightly above normal at a few other isolated locations, but below average over most of the island. In North Kona, rainfall continued at under half of normal.

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DAILY PRECIPITATION

HAWAII
SEPTEMBER 1972

Continued

Station	Total	Day of Month																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
ISLAND OF MOLOKAI																																					
KALAUAPA 563	A	.25	.03	.04																																	
KAUONAKAI 536	A	.00																								.03	.02	.07	.03	.03							
KEONELELE PENS 551	A	.12	.12	*																																	
KUALAPUU 534	A	.42	.03	*	*	.35																															
MAPULEHU 542	A	.96		.35	.11													.08	.05				.07			.09	.07	.03	.01								
MAUNALOA 511	A	1.09	.53	*	*	.05		.04				.01					*	.45															.01				
MOLOKAI AP 524	A	.12	.10	T	T																												.02				
PUGHAKI RANCH 542.1	A																																				
WAIKOLU 540	A	5.33				4.75																				.58											
ISLAND OF LANAI																																					
KANEPUU 690	A	2.47	*	*	*	*	*	2.47																													
KAUHALAPAU HARBOR 658	A	.00																																			
LANAI CITY 672	A	1.29	1.09	*	*	.20																															
LANAIHALE 684	A	1.34	*	*	*	*		1.12	*	*	*	*	*	*																							
MAHANA 694	A	.76	.76	*	*	*									.11	*	*	*	*	*	*	*	*	.02	*	*	*	*	*	*	*	.09	*	*			
MALAUHA 676	A	1.12	*	*	*	*		1.12	*	*	*	*	*	*																							
WAIAKEAKUA 685	A	1.09	*	*	*	*		*	*	*	*	*	*	*		1.09																					
ISLAND OF MAUI																																					
AUWAHI-252	A	1.20	1.20	*	*	*																															
HALEAKALA B E S 434	A	1.90	.80	.33	.07	.50	.01	*											.01	.04	.03												.07	.04			
HALEAKALA RANCH 432	A	1.52	1.28	.24	*	.36	T	*																													
HALEAKALA RS 338	A	.99	.11	.40	.05	.36	T	*																													
HALEAKALA SUMMIT 338.4	A	.68	.14	*	*	.52	.02																														
HALIIMAILE 423	A	1.74	.82	*	*	.81																															
HAKAMUAPDKO 485	A	1.22	.07	.06	.07	.25	T					.04	.12						.04	.08	.13	.06	.06	.04	.04	.29						.03	.19	.10	.04		
HANA 354	A	3.66	1.67	.23	*	.21		.04	.12			.46	.05						.20	.06												.02	.19	.28	.03		
HANA AIRPORT 355	A	3.71	1.44	T	.18	.26	.05	T	.08	.02		.53	T						.12	.02	.05	T	.07	.14	.06	T					.15	.05	.04	.35			
HANAHULI 281	A	3.02	1.12	.05	.15	.26	.04					.21							.30	.19	.03	.04	.27			.08	.12	.09	.09	.18							
HOLUA CABIN 259.5	A	1.74	*	* 1.37	*	*		.30	.05			T	*	*	*	*	*	*	*	*	*	*	*	*		.02	*	*	*	*	*	*	*	*			
HONOKOHU 480	A	2.77	1.60	*	*	.58	.05																														
HONOHU 493	A	1.00	*	*	*	*														.07	.07				.05	.10		.03	.10	.12							
HONOHU GULCH 341	A	1.00	*	*	*	*																															
KAAHAPALI AIRPORT	A	.45	.40			.05																													1.00		
KAHOMA INTAKE 374	A	1.60	*	*	*	*																														1.60	
KAHULUI WSO 398 AP	R	.02	.01	T	.01	T														T	T																
KAILIILI 436	A	2.48	*	*	*	*																														2.48	
KAILUA 446	A	5.68	.09	1.27	.12	.38	.02	.01			.03		.36	.06		.01		.01	.10	.21	.04	.05	.47	.45	.82			.16	.61	.21	.20						
KAUULA INTAKE 375	A	3.85	*	*	*	3.75	*					.10																									
KEAHUA 410	A	.38	.21	.14	T	.02	.01														T																
KEANAP 346	A	5.20	*	*	*	*																														5.20	
KEANAKAPU BEACH 200.2	A	.14	.05	.11	*	*																															
KIHEI 311	A	.02	.01	*	*	*																															
KIPAMULU 258	A	1.95	.20		.49														.34		.06	.12	.12					.28	.06	.28							
KULA HEIGHTS 323.2	A	.31	.17	.14																																	
KULA SANATORIUM 267	A	.44	.05	.32	.01	T			.01				.04																						.01		
LAHAINA 361	A	.10	.08	.02																																	
LAUNIUPOKO INTAKE 376	A	3.30																																	3.30		
LAUNIUPOKO VILLAGE 372	A	1.53	1.53																																		
LUPI UPPER 442	A	3.50	*	*	*	*																													3.50		
MAHINAHINA 466	A	1.73	1.73	*	*	*																															
MAKALEI - FLO 60-497	A	.62	*	*	*	.03	*					.48	*							.03	*	*	*	*	*		.08	*	*	*	*	*	*	*			
OLINDA 332	A	.70	.33	*	*	.18	T																														
OLDHALU 296	A	.39	.07			.32																															
PAAKEA 350	A	8.72	1.21	.34		1.25	.14	.15		.06	.20	.64	.23						.32	.21	.14	.10	.55	.56	.81	.03	.23	.75	.35	.45							
PAIA 406	A	.96	.01	.05	.11	.06															T	.01	.03	.01													
PANILEI HULU 259.2	A	7.00	*	*	*	*																															
POHAKA BEACH 307.2	A	.60	.60	*	*	*																															

DAILY PRECIPITATION

HAWAII
SEPTEMBER 1972

Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KEALAKEHA 20.2	5.04	.61	.03	.58		1.58	.58	.58	.02			.10	T	1.26			.02	.15	.06	.01	.02													
KEHENA 181.7	A																																	
KIDLEKA A C # 6	A	4.00																																
KIPA 89.2	A	13.77	.03	.98	.25	1.51	1.28	.01	.24	.15			.06	2.27	1.83		.11	.13	.51	.56	.29	.17	.33	.33		.02	.23	.21	.17	1.00	.72			
KOHALA MALEILI 176	A	2.93	.27			.32							1.26	.01							.01					.28	.12	.17	.45					
KOHALA MISSION 175.1	A	2.50	.09		.11	.22	.07						.83	T				.05	T	T	T	.01		.76	.01		.21	.20	.43	.01				
KOIANF LOWER 196	A	5.43	3.35						.08						.85																			
KONA (HAIL) JA 64.3	A	2.87	.60			.17	1.89	.01																										
KONA VILLAGE 93.8	A	1.18	.16																															
KUKAIAU 222	A	3.19		.06	.37	1.60			.23	.10								.15		.02	.03	.06	.03				.07	.21	.12	.16				
KUKUIHAELE HIC 199	A	3.21	.05			.11	.30					.19	1.62					.04	.02	.08	.08						.40	.04	.13	.15				
KUKUIHAELE HILL 206	A	2.89	.05				.22					2.20						.02	.02	.05	.05						.10	.07	.13	.05				
KULANI CAMP 79	A	3.32	.27	.10	.02	.50	.05		.18				.80	.01				.05	.40	.16	.11	.06	.05			.05	.15	.22	.08					
KULANI MAUKA 76	A	4.25												3.25																				
KULANI SCHOOL SITE 78	A	6.84		2.07			.75							1.02																				.58
LANIHAU 68.2	A	3.03	.38		.22			.28	.32				.04	1.13						.12	.33	.13	.08											
MAKAMALAU 103	A	3.82	.59	2.96								.03						.24																
MANUKA 2	A	3.20	T				3.20																											
MAUNA KEA OBS 111.2	A	.06	T																															
MAUNA LOA SLOPE OBS	A	.86							.40																									
MIDDLE HOLUALOA 69.1	A	2.56	1.06					.00					.90																					
MIDDLE PEN 147.1	A	4.22		4.22																														
MOAULA 18	A	1.80																																
MOUNTAIN VIEW 91	A	6.10	.01	.19	.26	1.22	.05	.05	.05	.17	.04	.10					.03	.20	.54	.39	.14	.22	.45	.10	.15	.16	.19	.48	.28	1.80				
NAALEHU 14	A	1.90	.06				.67	.04		.05			T																					
NAPPOPOC 28	A	7.06					4.90						.93						1.77															
NIULII 179	A	3.41	1.02				.34						.79	.03					.08															
OKALA 223	A	3.76	.01		.09	.92	.77	.01	.02	T	.06	.25	.03		.13				.22	.12	.02	.06	.06	.16										
ORIHIMALE 2 24.1	A	2.20	.62	.15	.01	.02	.02	.20	.02	T		.11	.14	T	.19	T		.15	.13	.33	T	T					.08	T	T	.03				
OROHIO LAMO EST 91.5	A	4.86								1.56					.06							1.51												1.73
PAKAHUA 217	A	2.08	.01			.10	.36					.13	1.59						.08		.03												.14	
PAKUILO 221	A	2.37	T	.03	.34	1.25	T		.15	T		.15	T					.05		.01	.02	.04	.01									.13	.07	
PAMALA 21	A	4.15	.99				1.04		.07	.12		.01	.07	.02	.33				.01		.04													
PANOA 65	A	6.76	.03	.18	.26	1.20	.05	.15		.07	.07							.06	.43	.69	.33	.25	.21	.25	.05	.09	.06	.36	.51	.82	.64		1.00	
PAKAD 37	A	1.00																																
PAPAIAKU 144.1	A	6.89	.03	.48	.21	.95	.09		.04	.20		.03	.01		1.33	.31		.06	.18	.33	.33	.25	.29	.10	.13	.08		.37	.24	.37	.50			
PAPAIAKU MAUKA 140.1	A	9.29	.48	.14	.08	1.38	.37		.02	.25		.03	.04	.04	1.02	.96		.10	.33	.58	.31	.45	.48	.26	.32	.03	.21	.37	.38	.55	.61			
PIIHONUA 89	A	4.00																																1.00
POHAKULOA 107	A	1.95					.62																											
PUAKO 95.1	A	1.95	.04	.50		.07								.02	1.30				.03					.32										
PUU KINE 120	A	2.80																																2.80
PUU LAU 102.1	A	.52																																.52
PUU LEHUA 73	A	1.00																																1.00
PUU MALI 113	A	.40																																.40
PUU OI 82	A	.97		.60	T	.02	.05	.08		.06	.02	.04																.03	T	.02	.05			
PUU WAHAA 94.1	A	.91	.34	.25											.09							.23											2.70	
SADOLE ROAD 184	A	6.93	.56							2.28					1.79				.04				1.60										.44	
SOUTH POINT CORRAL 3	A	1.46			.98																													
UMIKOA 118	A	.82				.18			.08			.43	.20						.09	T	.01	T	.02				.18	.04	.18					
UPDULI POINT USCG 159.2	A	.92	T		.05	.05													.20															
WAIKAEA SCO 88.2	A	6.38	.09	.29	.16	1.24	.48	.11	.13	.22		.05	T	.32	.05		.02	.14	.50	.17	.31	.16	.33	.06	.01	.23	.27	.32	.41	.31				

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages— percent				Number of days with precipitation						Percent of Possible sunshine	Average sky cover sunrise to sunset	
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over			Total
							150TH MERIDIAN												
							02	08	14	20									
HILO WSD 87 AP	19	1.3	6.1	20	E	13	90	81	71	87	4	8	12	3	0	0	27	31	7.9
HONOLULU WSD 703 AP	6	10.4	13.2	26	NE	19+	72	66	52	67	10	6	0	1	0	0	17	80	5.3
KAHULUI WSD 398 AP	5	10.3	12.0	29	E	19	82	71	54	72	7	2	0	0	0	0	9	81	4.2
LIHUE WSD 1020.1 AP	5	7.5	10.5	28	SE	04+	84	79	67	78	7	6	3	1	0	0	17	63	6.0

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Station	Day of Month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULUHU 1075	MAX MIN	74 55	75 59	71 53	72 59	71 56	71 53	68 49	71 47	74 48	74 51	74 44	73 45	72 44	77 59	74 57	75 60	74 51	76 56	73 58	74 56	75 54	74 55	71 50	74 52	76 49	76 50	73 52	72 51	74 57	74 54	73.4 52.8	
KILAUEA POINT 1133	MAX MIN	83 77	87 78	85 78	82 76	85 77	82 74	85 75	83 76	85 75	87 74	87 72	89 71	89 70	85 76	90 69	86 69	84 73	85 69	84 67	83 67	83 67	85 78	83 69	85 73	85 78	84 68	82 73	84 78	83 65	84 69	84.7 73.2	
LIIHUE WSO 1020.1 AP	MAX MIN	84 74	82 77	84 74	81 74	81 75	82 71	79 71	80 71	81 71	81 71	81 71	81 70	86 70	85 71	85 74	85 77	84 76	85 73	86 71	85 77	85 74	84 77	85 74	86 75	86 78	86 75	86 78	85 74	85 76	85 75	83.8 73.7	
MAKAHUEA POINT 940.1	MAX MIN	84 74	87 75	86 76	86 74	84 75	85 71	85 71	84 71	85 71	85 71	85 70	89 70	89 71	87 74	87 76	88 70	87 71	85 73	85 71	87 73	87 71	86 75	88 74	88 75	81 74	81 75	80 77	82 74	83 72	86 76	85.8 72.7	
MANA 1026	MAX MIN	89 70	90 71	90 68	90 69	90 68	90 68	89 67	89 68	89 69	89 67	89 68	89 68	87 68	87 69	88 71	88 69	87 68	86 68	86 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	86.2 68.4	
NIU RIDGE 1035	MAX MIN	84 65	85 66	83 63	84 65	85 65	83 63	84 63	82 63	83 62	85 62	84 63	85 62	85 63	85 64	84 62	85 65	85 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	84.4 64.3	
WAIAMI LOWER 1054	MAX MIN	85 65	85 69	85 65	83 64	81 66	81 63	83 61	83 60	83 60	84 60	84 60	84 60	84 61	86 62	87 66	85 66	85 67	84 69	85 66	84 69	85 66	84 65	80 63	80 61	79 65	81 67	83 63	83 67	83 69	83 68	79 65	83.2 64.2
* * *																																	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	89 72		89 68	87 67	88 66	88 65	88 66		89 66	89 66	89 67	88 67	88 67	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	87.8 72.7	
HONOLULU WSO 703 AP	MAX MIN	87 75	87 74	87 73	87 74	88 75	88 72	88 70	88 70	88 69	88 70	88 70	88 70	88 69	88 74	88 76	87 77	87 76	87 75	88 74	88 74	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	87.4 73.6	
HONOLULU SUBSTA 704	MAX MIN	84 76	84 75	82 74	82 75	82 74	83 72	83 72	83 72	83 72	84 73	84 73	82 72	81 73	84 75	83 77	84 75	83 75	83 75	83 75	83 75	83 75	83 75	85 74	85 74	85 74	85 74	85 74	85 74	85 74	85 74	83.2 74.3	
KAHUKU 912	MAX MIN	88 72	87 74	88 76	88 77	88 77	88 76	88 77	88 77	85 77	85 77	85 77	85 77	85 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	86.7 75.4	
KANEOME MAUKA 781	MAX MIN	87 75	86 74	84 72	82 73	83 70	83 69	84 70	84 69	83 69	85 70	85 69	84 71	85 69	86 71	85 72	86 72	86 75	86 74	86 75	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	84.2 72.0	
LUALUALEI 804	MAX MIN	92 69	92 72	90 73	89 73	89 68	89 68	88 68	88 68	88 68	89 68	91 68	91 68	90 68	92 67	92 67	90 67	90 67	90 67	90 67	92 67	92 67	92 67	92 67	92 67	92 67	92 67	92 67	92 67	92 67	92 67	89.3 70.6	
MAKAPUU POINT 724	MAX MIN	87 73	82 72	82 71	80 68	77 75	81 74	80 70	78 72	79 67	82 73	82 73	81 72	78 76	79 77	86 76	79 76	79 76	81 76	80 75	80 74	81 75	80 74	77 75	78 74	81 75	81 75	81 75	81 75	81 75	81 75	80.1 73.4	
OPAEOULA 870	MAX MIN	84 66	84 71	84 70	81 72	75 60	79 61	80 63	82 64	82 64	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	80.8 66.2	
PRI WAHIAWA 820.2	MAX MIN	86 68	88 72	82 68	81 74	90 65	80 62	85 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86 62	86.1 66.1	
WAIALEE 896.3	MAX MIN	87 74	88 72	87 71	85 71	85 68	85 68	86 69	87 70	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86.2 72.2	
WAIALUA 847	MAX MIN	86 69	86 72	87 71	85 68	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	87.5 67.4	
WAIKIKI 717.2	MAX MIN	89 74	88 71	88 72	86 72	86 71	87 67	87 67	87 67	87 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	87.3 71.1	
WAIMANALO EXP FARM	MAX MIN	87 74	88 75	85 71	83 72	50 69	85 69	85 68	85 69	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	84.6 93.7	
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	83 70	80 73	83 76	83 74	83 74	84 74	77 72	83 69	83 69	84 70	85 70	83 73	85 73	84 72	86 70	85 72	86 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83.7 72.4	
* * *																																	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	79 68			80 69	77 67	78 66				78 63	78 66	82 64	83 65	82 65				83 64	78 64	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80 61	80.0 67.9		
* * *																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	65 49	62 49	64 44	64 48	63 42	65 40	60 44	60 44	63 47	66 45	67 47	66 45	67 45	68 44	62 46	65 49	65 50	66 51	66 51	66 51	66 51	66 51	66 51	66 51	66 51	66 51	66 51	66 51	66 51	64.7 44.7		
HALEAKALA SUMMIT 338.4	MAX MIN	53 44	52 34	53 36	48 40	56 39	55 38	50 40	56 41	58 44	56 44	61 44	63 44	59 43	56 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	53 42	57.8 43.0	
HANA AIRPORT 355	MAX MIN	82 70	84 69	84 68	84 68	84 64	84 64	85 64	84 66	85 66	84 66	85 66	84 65	85 65	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	85.0 67.8	
KAANAPALI AIRPORT	MAX MIN	85 75	83 71	85 71	84 68	84 67	85 67	83 68	83 68	85 68	86 68	86 68	86 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84.8 69.9	
KAHULUI WSO 398 AP	MAX MIN	87 74	87 69	87 72	87 75	87 71	87 62	85 61	86 62	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	88.5 68.6	
KAILUA 446	MAX MIN	82 70	77 68	78 70	79 68	80 66	79 66	80 67	80 67	80 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	81 67	80.0 67.9	
KEAWAKAPU BEACH 260.2	MAX MIN	91 72	84 69	92 64	92 66	92 64	88 64	89 63	87 64	86 65	88 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	89 65	90.1 66.3	

See Reference Notes Following Station Index

DAILY TEMPERATURES

HAWAII
SEPTEMBER 1972

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	75	73	74	74	76	74	72	71	75	75	72	73	77	76	76	78	76	75	76	77	75	74	72	75	77	76	72	74	76	76		
	MIN	65	64	59	60	57	56	57	58	57	58	60	61	60	61	62	62	60	60	60	58	57	58	60	61	60	58	59	60	60	58		
LAHAINA 361	MAX	87	88	88	89	88	87	87	88	89	90	90	89	88	89	90	91	91	90	89	89	89	89	88	90	88	88	88	90	89	89		
	MIN	71	68	68	69	66	65	65	65	65	65	65	66	66	68	69	70	68	68	67	66	65	66	66	66	65	67	67	68	66	65		
WAILUKU 386	MAX	83			85	82		82	81			84	82	85	85	86			87	83	83	83	83			86	85	84	83	83			
	MIN	72			69	71		69	70			70	69	69	70	70			71	72	72	72	73			72	73	72	72	73			
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	85	80	82	82	80	83	83	80	82	83	79	82	84	85	86	85	83	83	83	83	83	83	82	83	82	82	84	84	83	82	82	
	MIN	73	69	68	69	66	66	65	68	68	68	69	69	66	63	70	69	69	72	69	69	69	68	68	78	69	69	68	69	69	65		
HAWAII VOLCANO NP HC 56	MAX	67		71	73	66	68	68	69	70	72	75	76	74	76	76	77	73	73	73	67	78	70	68	71	70	72	72	70	69	70		
	MIN	58		53	57	51	49	50	55	54	54	59	52	52	57	57	56	56	58	55	55	53	52	56	55	52	56	58	56	56	54		
HILO WSO 87 AP	MAX	87	83	84	80	84	83	83	82	83	86	85	88	88	88	90	88	84	84	85	83	81	83	86	84	85	84	84	83	82	83		
	MIN	72	69	67	69	66	64	65	67	66	70	68	67	70	69	69	70	68	69	68	67	68	67	71	68	68	70	71	69	70	67		
KAINALIU 73.2	MAX	74	77	79	80	79	78	73	77	77	79	81	79	78	80	80	80	80	80	78	79	78	80	80	80	81	82	80	81	82	80		
	MIN	66	64	63	65	65	61	62	62	62	64	64	64	64	65	65	65	67	63	63	63	63	64	64	63	64	65	63	64	65			
KAMUELA 192.2	MAX	80	76	74	73	70	74	75	76	74	75	77	78	81	80	80	83	76	74	74	75	75	75	78	80	78	80	73	75	72	74		
	MIN	64	60	62	62	60	60	59	59	60	61	61	59	61	61	59	56	60	58	61	60	60	60	60	60	60	60	61	62	60	60		
KEAAU 92	MAX	86	84	82	82	79	81	82	82	81	82	83	84	85	86	87	87	85	82	80	82	81	80	83	83	82	83	83	81	81	80		
	MIN	71	68	66	68	64	62	64	66	65	68	68	65	65	66	69	68	68	68	67	67	66	66	65	67	66	68	68	67	66			
KEALAKEKUA 26.2	MAX	75	77	79	80	80	79	74	77		79	83	80	78	82	80	81	82	82	81	78	80	80	81	81	83	83	81	82	82	81		
	MIN	65	64	63	65	65	63	62	62	62	64	64	66	66	66	65	65	65	64	65	64	65	65	65	64	66	65	65	64	65	65		
KOHALA MISSION 175.1	MAX	84	84	82	80	80	82	82	83	82	83	83	81	84	87	86	85	82	82	82	83	83	83	84	86	83	84	83	81	81	81		
	MIN	73	71	67	67	68	68	65	66	69	67	70	69	67	68	68	70	72	68	69	71	69	69	69	69	70	71	69	69	68	67		
KONA (KAILUA) 68.3	MAX	82			86	86	86	83	85			87	86	87	87	89			88	87	86	89	86			87	90	87	89	82			
	MIN	73			70	69	72	70	70			71	73	72	74	74			72	72	71	70	70			71	72	71	73	73			
KULANI CAMP 79	MAX	70	64	65	78	62	62	63	63	63	65	69	70	72	72	71	73	69	67	67	61	64	62	65	64	66	67	67	67	65	60		
	MIN	56	51	49	55	48	45	49	49	46	50	49	48	47	49	48	49	48	49	52	51	47	46	51	46	46	54	53	50	52	51		
MAUNA LOA SLOPE OBS	MAX	51	53	55	51	53	54	52	54	54	53	54	54	53	53	54	54	55	54	59	57	58	56	57	56	56	59	60	58	54	52		
	MIN	38	37	37	37	36	38	40	39	38	38	36	37	38	37	38	37	36	38	38	39	39	38	40	40	39	40	41	41	38	35		
MOUNTAIN VIEW 91	MAX	79	79	79	79	79	77	76	77	80	80	80	81	82	83	83	85	85	85	75	79	76	73	78	78	78	77	79	75	76	79		
	MIN	68	59	59	59	59	59	59	59	59	59	59	60	61	64	66	63	63	63	63	60	60	60	60	60	60	63	64	63	64	61		
NAALEHU 14	MAX	81			82	81	81	80			82	82	84	83	85			84	82	81	83	79			82	82	82	81	82	82			
	MIN	71			65	67	67	68			64	69	71	72	72			69	69	69	68	68			68	71	68	69	69	69			
OOKALA 223	MAX	85	82	82	82	80	80	86	80	80	81	78	81	82	83	83	82	80	80	82	82	82	80	83	84	84	83	83	81	81	83		
	MIN	73	71	63	64	67	67	64	66	68	69	69	68	68	69	69	70	71	70	68	68	68	68	70	70	72	71	69	69	69	69		
OPIHIHALE 2 24.1	MAX	79	81	76	82	79	75	76	80	79	82	78	78	82	83	82	81	81	79	73	81	78	83	82	83	82	82	80	82	77	81		
	MIN	67	62	63	64	65	62	62	62	62	63	63	64	64	63	66	64	64	64	62	62	59	61	62	66	64	64	62	61	62	62		
PAHALA 21	MAX	77			81	81	79	80			83	83	83	81	83			84	81	82	82	80			82	82	78	77	83	83			
	MIN	69			63	62	63	64			61	64	65	68	68			64	66	66	63	63			62	65	66	64	66	66			
PUAKU 95.1	MAX	88	81	88	88	88	87	86	88	88	87	89	87	87	86	87	86	88	89	90	89	88	89	88	88	88	86	90	87	87	88		
	MIN	75	70	72	73	71	72	69	69	69	68	71	70	68	71	70	71	73	74	74	73	69	68	69	68	68	68	70	72	72	69		
UPOLU POINT USCG 159.2	MAX	84	87	83	82	83	83	84	85	85	85	85	86	88	87	89	89	84	82	86	85	86	85	82	87	87	86	87	84	83	86		
	MIN	75	74	69	71	70	71	71	71	72	72	72	74	73	75	75	72	74	73	71	72	71	72	71	73	73	74	71	70	71	71		

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.34	.32	.22	-	.38	.28	.46	.11	.21	.40	.45	.40	.17	.26	.35	.05	.18	.43	.44	.33	.39	.39	.35	.30	.31	.32	.38	.32	.33	.26		
	WIND	77	126	185	280	215	155	98	75	94	108	104	95	75	81	100	55	141	222	231	241	187	167	140	167	160	136	200	236	225	200		
	MAX	94	83	93	90	88	91	89	91	92	91	92	90	93	90	91	85	90	92	90	86	91	90	92	89	90	93	90	88	89	90		
	MIN	71	74	70	71	70	68	67	68	66	66	67	67	65	65	66	67	70	72	72	70	70	70	70	71	72	72	71	71	71	71		
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.21	.33	.32	.36	.30	.21	.25	.29	.27	.18	.30	.36	.31	.25	.36	.32	.33	.42	.40	.31	.25	.27	.28	.30	.35	.30	.37	.42			
	WIND	19	20	34	45	36	25	30	21	21	21	22	29	37	40	28	23	40	34	38	42	29	26	25	26	25	28	31	37	43	32		
	MAX	97	95	94	91	92	91	88	88	88	90	90	92	93	94	95	94	94	90	86	91	93	89	86	87	82	92	90	92	90			
	MIN	70	70	67	67	66	65	64	64	63	63	65	67	66	68	70	71	67	67	66	66	66	66	66</									

STATION INDEX

HAWAII
SEPTEMBER 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP	PRECIP	SPECIAL										TEMP	PRECIP	SPECIAL	
ISLAND OF HAWAII																							
KAUAI	A 6670	03 KAU			3 19 11	155 30	800	HU			HAWAIIAN RANCH CO	PUU LEHUA 73	A 8400	04 N KONA		19 34	155 49	4880	HQ			W.M. GREENWELL RANCH	
	A 6520	02 PUHA			2 19 39	155 07	1530	0A	0A		PUNA SUGAR CO	PUU MALI 113	A 8510	01 HAMAUA		19 55	155 26	6960	HQ			KURAIU RANCH CO	
	A 6740	03 KAU			3 19 04	155 35	675	*A	0A		HUTCHINSON SUGAR CO	PUU OO 82	A 8550	02 S MILO		19 44	155 23	8340	0A			MISS JACKIE BENEHR	
	A 6697	04 S KONA			4 19 29	155 55	395	7A	0A		KONA EXPERIMENT STA	PUU #HAWA 94.1	A 8555	05 N KONA		19 47	155 51	2520	7A			CAPT CDD CATTIE CO	
	A 6896	01 N KONA			1 20 14	155 45	75	0A			KOMALA CORPORATION	SADOLE ROAD 1 8A	A 8590	01 S MILO		19 42	155 12	2340	0A			BOARD OF WTR SUPPLY	
	A 7121	02 N MILO			2 20 01	155 15	430	7A	0A		LAUPAHOE SUGAR CO	SOUTH POINT COPRAL 3	A 8675	03 KAU		18 57	155 41	570	0A			HAWAIIAN RANCH COMPANY	
	A 7106	04 S KONA			4 19 16	155 53	1270	7A	0A		UMIKUA 116	UMIKUA 116	A 8780	01 HAMAUA		19 59	155 23	3420	7A			KURAIU RANCH CO	
	A 7185	02 PUHA			2 19 38	155 20	445	VAR			URUOLU POINT USCG 159.2	URUOLU POINT USCG 159.2	A 8830	01 N KONA		20 19	155 53	81	0A			U.S. COAST GUARD	
	A 7240	01 HAMAUA			1 20 05	155 26	415	7A			MISS C LEONARD	WAIKAEA STD 99.2	A 9025	02 S MILO		19 40	155 08	1050	7A			SHINICHI KANESHIRO	
	A 7312	01 HAMAUA			1 20 03	155 22	800	7A			BOARD OF WATER SUPPLY	WAIKOHUOLA 178.6	A 9350	01 N KONA		12 08	155 47	3850	7A			KAHUA RANCH	
	A 7421	03 KAU			3 19 12	155 29	970	0A	0A		HAWAIIAN AGR CO												
	A 7457	02 PUHA			2 19 30	155 37	870	0A			PUNA SUGAR COMPANY												
	A 7453	03 KAU			3 19 22	155 28	9000	HQ			HAWAIIAN RANCH CO INC												
	A 7711	02 S MILO			2 19 47	155 06	200	7A			HAINA KEA SUGAR CO												
	A 7711	02 S MILO			2 19 47	155 06	1270	7A			HAINA KEA SUGAR CO												
	A 8051	02 S MILO			2 19 44	155 10	1730	HQ			STATE DIV OF FORESTRY												
	A 8063	02 HAMAUA			2 19 49	155 32	6511	VAR			STATE DIVISION OF PARKS												
	A 8106	05 KONA			3 19 58	155 20	5	0A	0A		ERWIN H. RAPP												
	A 8393	01 HAMAUA			1 19 54	155 24	7750	HQ			HUPAIU RANCH CO												
	A 8492	05 HAMAUA			5 19 50	155 36	7440	HQ			STATE DIV OF FISH-GAME												

⊥ DRAINAGE CODE: KAUAU: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD 2-KOOLAU 3-HONOLULU 4-WESTERN
 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII".

DIAGONAL UNITS: Unless otherwise indicated, diagonal units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: For all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
 - No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
 - + And also on an earlier date or dates
 - ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
 - * Amount included in following measurement, time distribution unknown.
 - A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. * where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
 - B Adjusted to a full month.
 - M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 - R Amounts from recording gage.
 - T Trace, an amount too small to measure.
 - V Includes total for previous month.
- IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- AR Observation made after rain.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Monthly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - MO Gage read once monthly, usually on the last day.
 - OK Gage readings at periods varying from a few weeks to several months.
 - S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
 - J "Supplemental Data" table
 - SS Observation time is near sunset.
 - VAR Observation time is variable.
 - W1 Gage read weekly or irregularly only.
 - W2 Gage read weekly and last day of month.
 - # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of stations through 1957 may be found in the publication "Station History" for this date, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801

William H. Hoggard
Director, National Climatic Center

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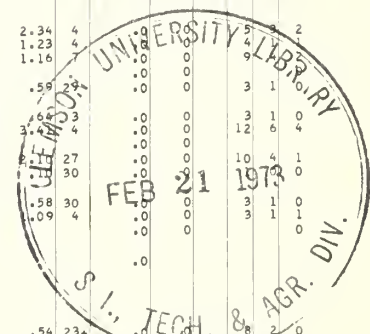
CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
OCTOBER 1972
Volume 68 No. 10

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow Sleet			No. of Days						
										50° or Above	40° or Above	30° or Above	20° or Above					Total	Total	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
																											Max.	Min.	Max.	Min.
* * * ISLAND OF KAUAI																											
ANAHOLA 1114 A																											
KANALOHULUHULU 1075 A	72.1	53.1	62.6		75	23+	46	1		0	0	0	0	7.16	2.24												
KAPAA STABLES 1104 A														5.55													
KILAUEA FIELD 17 1135 A														7.46													
KILAUEA POINT 1133 A	83.2		M		89	10				0	0	0	0	8.55	1.48												
														5.18		1.48	7				10	3	2				
KOOLA 936 A														7.71	2.40												
LIHUE WSD 1020.1 AP //R	83.0	73.4	78.2	1.3	86	9	68	30		0	0	0	0	6.07	2.04												
MANA 1026 A	81.9	68.4	75.2	-1.8	85	17	60	1		0	0	0	0	6.42	4.37												
N WALLUA OITCH 1051 A														18.81													
PH WAINIHA 1115 A														6.83	-1.41		3.18	4				6	4	2			
PUEHU RIDGE 1040 A														6.76			2.56	30					8	5	2		
WAHIAWA 930 A														9.97	6.95												
WAIAMI LOWER 1054 A	82.0	65.0	73.5		87	17+	60	14+		0	0	0	0	11.43			2.78	4					15	6	3		
WAIMEA 947 A														5.36	3.45		1.66	4						7	4	2	
ISLAND																											
			72.4											8.08													
* * * ISLAND OF OAHU																											
HONOLULU OBSERV 702.2 R	86.1	72.5	79.3	1.1	89	16+	68	29+		0	0	0	0	2.14			1.42	29					2	2	1		
HONOLULU WSD 703 AP A	84.8	74.6	79.7	2.4	88	8	65	29		0	0	0	0	2.39	.55		.99	28					4	2	0		
KAHUKU 912 A	83.6	71.0	77.3	1.2	89	14	65	29		0	0	0	0	3.47	.69		2.05	29					6	1	1		
KANEHE MAUKA 781 A														3.24	-2.51		1.30	29					7	2	1		
KOOLA OAM 833 A														6.41	-1.39		2.30	29						2	2		
LUALUALEI 804 A	89.1	69.4	79.3		96	5	60	18		13	0	0	0	3.98													
MAKAPUU POINT 724 A	80.3	71.8	76.1		86	14	68	31+		0	0	0	0	2.09	-.91		1.13	29					3	2	1		
NUUANU RES 4 783 A														7.90	-1.03		3.24	3						9	5	3	
OPAEULA 870 A	80.4	64.1	72.3	-.1	88	15	59	13		0	0	0	0	5.36	.51												
PAOLO VALLEY 718 R														8.72	-2.11		3.36	3						10	5	4	
PRI WAHIAWA 820.2 A	85.4	64.6	75.0		91	16+	58	1		4	0	0	0	4.40													
WAHIAWA OAM 863 A														5.95													
WAIHOLE 837 A														9.37	-2.71		3.38	4									
WATALEE 896.3 A	85.7M	71.7M	78.7M		89	16	67	29		0	0	0	0	3.63			2.13	29					5	1	1		
WATALUA 847 A	86.4	66.2	76.3	.9	90	16	61	25		1	0	0	0	3.79	1.10		2.47	29						4	2	1	
WAIKIKI 717.2 A	86.8	69.9	78.4		91	16+	65	29+		3	0	0	0	2.11			1.14	29						4	1	1	
WAIMANALO EXP FARM A	85.0	71.8	78.4		95	14	65	29		1	0	0	0	2.96			1.62	29						6	2	1	
WAIPIAHU 750 A														2.71	.37												
ISLAND																											
			77.3											4.48													
* * * ISLAND OF MOLOKAI																											
KUALAPUU 534 A														2.70	.28												
MAPULEHU 542 A														2.31	-1.10		.78	28						6	1	0	
MAUNALOA 511 A														2.21	-.16												
MOLOKAI AP 524 A	83.1	71.2	77.2		87	18	65	7		0	0	0	0	2.07			1.48	29						4	1	1	
ISLAND																											
			77.2											2.32													
* * * ISLAND OF LANAI																											
LANAI CITY 672 A	78.4M	62.9M	70.7M	.0	83	16	60	24+		0	0	0	0	2.12	-.83												
ISLAND																											
			70.7											2.12													
* * * ISLAND OF MAUI																											
HALEAKALA B E S 434 A	64.3	45.2	54.8		69	17	40	24+		0	0	0	0	4.63	.34		2.34	4									
HALEAKALA RS 338 A	84.6	68.1	76.4		87	31+	65	15		0	0	0	0	2.07			1.23	4									
HANA AIRPORT 355 A														4.92			1.16										
HONOKOHUA 493 A	84.4M	69.2M	76.8M		88	15	65	2		0	0	0	0	2.46	-.22												
KAANAPALI AIRPORT A														1.11			.59	23						3	1	0	
KAMULUI WSD 398 AP R	87.8	68.3	78.1	.8	92	31	62	2		7	0	0	0	1.00	.13												
KAILUA 446 A	78.6	67.5	73.1	.4	81	15	65	9+		0	0	0	0	10.80	1.48		3.66	4						12	6	4	
KEANAE 346 A														16.70	1.35												
KIPAMULU 258 A														4.97	-3.33												
KULA SANATORIUM 267 A	75.0	59.6	67.3	1.1	78	25+	56	20		0	0	0	0	.43	-1.83									10	4	1	
LAHAINA 361 A	88.2	66.6	77.4		90	31+	64	29		5	0	0	0	.94	-.06		.58	30						3	1	0	
PAIA 406 A														1.82	-.34		.09	4							3	1	0
WAILUKU 386 A	83.6M	70.3M	77.0M	.0	89	16	65	30		0	0	0	0	1.26	-.60												
ISLAND																											
			72.6											4.09													
* * * ISLAND OF HAWAII																											
HAINA 214 R	82.4	68.1	75.3	1.3	85	31+	65	18+		0	0	0	0	3.18	-2.07		.54	23+									
HAWAII VOLCNS NP HQ 54 R	71.4	55.1	63.3	.4	79	25	48	12		0	0	0	0	5.92	-.96		1.23	24						10	5	1	
HILD WSD 87 AP R	83.9	68.0	76.0	.9	91	13	64	29		1	0	0	0	9.52	-1.28		2.69	3							15	6	2
HUEHUE 92.1 A														2.34	-1.25												
KAINALIU 73.2 A	79.6	63.9	71.8		86	15	62	26+		0	0	0	0	6.59	-.39		2.27	2							4	3	3



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										88° or Above	32° or Below	31° or Below	30° or Below	29° or Below					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	82.1	66.6	74.4	.0	88	14	63	29		0	0	0	0	0	10.43	= 1.95	4.02	4	.0	0			15	6	1			
KEALAKEUA 26.2	80.7	64.4	72.6		86	14	62	26+		0	0	0	0	4.93		2.34	18	.0	0			6	3	1				
KONA (KAILUA) 68.3	87.1M	71.3M	79.2M		89	16+	69	31+		0	0	0	0	.43		.15	31	.0	0			1	0	0				
KUKUHAOLE HIC 199														2.67		.75	3	.0	0			10	1	0				
KULANI CAMP 79	66.2M	49.4M	57.8M		75	14	42	29		0	0	0	0	5.31		1.12	24	.0	0			11	5	1				
PAHALA 21	81.7M	64.2M	73.0M		87	31	62	26+		0	0	0	0	5.91				.0	0									
POHAKULDA 107														1.59				.0	0									
PUAKO 95.1														1.13		1.07	31	.0	0			1	1	1				
PUU WAAWAA 94.1	86.2	70.4	78.3		89	16	66	13		0	0	0	0	2.03	= .85	1.11	31	.0	0			2	2	1				
UMIKOA 118														2.18	= 2.77	1.17	31	.0	0			1	1	1				
WAIKOA SCD 88.2														20.26		9.60	4	.0	0			19	9	4				
ISLAND			72.2											5.28				.0										

EXTREMES TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 96° ON THE 5TH AT LUALUALEI 804, OAHU

LOWEST TEMPERATURE: 33° ON THE 29+ AT 2 STATIONS

GREATEST TOTAL PRECIPITATION: 27.79 INCHES AT MOUNT WAIKOA 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 9.60 INCHES ON THE 4TH AT WAIKOA SCD 88.2, HAWAII

SPECIAL WEATHER SUMMARY

It was a relatively mild October, highlighted by a tropical cyclone, waterspouts off Maui and Kauai, hail on Mauna Kea and Mauna Loa, and the first cold front of the "winter" season.

The worst of the month's weather occurred on the morning of the 3d, when a tropical cyclone that had formed near 16° N 130° W on September 28, and travelled westward to about 150 miles south of Hawaii Island, set off thunder, lightning, and rain over the entire State. Thunderstorms were most active in the Hilo, Puna, and National Park areas of eastern Hawaii Island. At the latter location, the Volcano Observatory was put out of action when lightning struck some of its seismometers, while lightning and heavy rain disrupted telephone service from Laupahoehoe to Volcano and knocked out electricity in Hilo town, as well as transmission lines to eight outlying areas. Storm totals were greatest in Puna, where Kurtistown recorded 10.49 inches and Mountain View 8.10 inches over periods of 20 hours or so.

Peak 1-hour amounts appear to have ranged under 2 inches, except at Honomu Mauka and the Hilo Country Club, where they reached 2.70 and 3 inches, respectively. While the storm was not at all severe by Hawaiian standards, its effects, which included a number of small landslides and washouts, were sufficiently widespread and inconveniencing to induce the Mayor of Hawaii Island to declare a brief emergency.

Two waterspouts were sighted over Hawaiian waters during the month: on the 13th, about 4 miles north of Kahului, Maui, and on the 18th, east of Lihue, Kauai.

On the afternoon of the 14th, hail fell atop Mauna Loa and Mauna Kea on Hawaii Island.

On the 28th, the "winter's" first cold front brought widespread rain and cloudiness to Kauai and Oahu.

Rainfall for the month as a whole continued uneven over the State.

Kauai exceeded its October average nearly everywhere, and by two to over three times in the southwestern sections.

On Oahu, rainfall was moderately deficient in the Kahuku area and in about the southeastern fourth of the island, including Kaneohe and most of Honolulu.

On Molokai and Lanai, most gages recorded slightly less than normal.

Maui's rainfall was below normal in most areas except on the northern slopes of East Maui, with gages in Kula and along the southern coast of West Maui recording less than half their October average.

On Hawaii Island, rainfall was most deficient in the North Kona-Hualalai area, where monthly totals were well below half the October mean. Along the Kohala-Hamakua coast, which has been experiencing a prolonged dry spell, rainfall was again below normal. Most of the Hilo district had above its monthly average, although at Hilo Airport this was the sixth successive month of deficient rainfall.

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DAILY PRECIPITATION

HAWAII
OCTOBER 1972

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																		
ANAOHUA 1114	A	7.16	.09	1.80	.09						1.40	.15	.07						.04	.03	*	*	.10			.08	*	*	3.29	.02	*			
8RYDES=DDO STA 985	A	10.29	.22	T	1.25	.37		*	*	.01		.58	.32	.01					.38	.02	*	*	.03					*	7.10		*			
EAST LAWA 934	A	8.56	.46	.05	1.63	.34	.01			.07	.02	.11	.21						.06	T	*	*	.02	T				*	5.75	.03	*			
ELEELE 927	A	7.49	.16		1.80	.06					.03	.20	.07						.07									*	5.10		*			
MALAUUA 1110	A	7.51	.12		2.10	.15				.19		1.10	.20	.04					.10	.04	*	*	.05				.12	*	3.27	.03	*			
HALENAHOU 1006	A	9.82	.35	.05	2.31	.38	.03	*	*	.08	.03	.48	.69	.07	*	*			.09	.18	*	*	.04	.08				*	2.22	1.39	.08	*		
MUKIPO 945	A	5.60			1.86	.03					.34	.41	.88						.11		*	*	.49	.09	*	.57	.16	.04	.04	1.09		.05	.05	
INTAKE KAUAI INTAKE 1050	A	18.35	.95	.10	1.78	.98	.03	*	*	1.65	.34	.41	.88						.07				.03									2.10	*	
INTAKE WAINIHA PC 1086	A	5.02	.25	*	2.10						.57																							
KANALOHULUHUI 1075	A	5.55	.01	.23	.62	.02		.09			.03	.44	.08			.02			.03								.08	.07	1.35	2.46				
KANEHA RESERVOIR 1092	A	13.80	.45	.05	2.80	.80	.20	*	*	1.05	.45	1.00	2.20	.11					.20	.10	*	*	.10	.03	.05		.65	*	3.45	.11	*			
KAPAA STABLES 1104	A	7.46	.09		1.35	1.16	.27				.85	.34	.15						.06	.03	*	*	.06				.65	*	3.03	.02	*			
KEKAA 1112	A	7.12	.07		2.50	.13		*	*	.04	.80	.10		.04					.04	.04	*	*	.17				.25	*	3.10	.04	*			
KEKAHA 944	A	5.75	.08		1.32	.14					.47								.03									.15	1.53	1.87				
KILAUEA 1134	A	8.33	.36	.05	.45	.35	.10	*	*	.75	.02	.23	.50										.07	.04	.25			*	2.88	.45	*			
KILAUEA FIELO 17 1135	A	8.55	.12	.04	.95	.40	.26	*	*	.30	.10	.27	1.33							.08			.03		.05	.05	.93	*	3.30	.40	*			
KILAUEA POINT 1133	A	5.18	.22	.19	.20	.06		1.48	.01		.31	.32							.13	.08		.04			.01	.04	.85	1.18	.19	.17	*			
KILOA 1033	A	9.12	.06		.18	.03	.20				.50	1.16							.03								.05	1.03	1.78					
KILOA 936	A	7.71	.42	.05	1.35	.14	.07	*	*	.05	.24	.08		.03	*	*			.09	.19	*	*	.05	.03	.02		.07	*	5.07	.06	*			
KILOA MAUKA 994	A	12.12	.73	.04	2.81	1.07	.02	*	*	.08	.05	.81	.48	.05	*	*			.09	.19	*	*	.03	.03	.02		*	5.01	.11	*				
KOLOKO RES 1137	A	8.35	.15	.08	.90	.26	.28	*	*	.95	.12	.35	2.00							.15			.04	.05	.16			*	2.57	.25	*			
KUKUIULA 935	A	6.33	.07	.02	.77	.15	T	*	*	.01	.02	.12	.24						.02	.12			.03					*	4.88		*			
LIHUE VARIETY STA	A	9.42	.04	.08	.03	3.09	.20	.06			.11	.01	.36	1.08	.01				.18	.08	.12	.06			.02	.01	.11	.85	1.82	1.76	.12	*		
LIHUE 1020	A	7.41	.03		1.04	.12	.01				.47	.72	.66							.09	.13							*	6.10	.02	*			
LIHUE WSO 1020.1 AP	R	6.07	.01		.67	.01	.10	.04	T	T	.42	.19	.19						.01	.13			T	T		.18	2.18	1.82			.01	*		
MAKAHUNA POINT 940.1	A	4.73	.02	.02	.40	.06				.03	.14	.07	.42												.15		.31	3.23	.46		*			
MAKAWALI 905	A	7.43	.01		2.85	.17		.02			.07	.42															.83	1.97	.80			*		
MANA 1026	A	6.42	.03		.66	.03					.01	.22	2.52	.01						.05								.16	1.25	1.48		*		
MOHIMI UPR CROSS 1083	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*		
MOLDOA 1145	A	5.64	.19		.21	.09				.09		.33	1.75											.04	.08			*	2.64	.22	*			
MOUNT MAHALEALE 1047	R	27.79	2.09	.24	2.36	7.09	1.16	.28	.24	.55	.08	.67	1.46						.47	.28	.24	.08	.24	.43	.87	.12	1.61	3.78	1.18	2.68	.16	.43	*	
NIU RIDGE 1035	A	5.92	.25		.50	.35					.15	.90							.10									1.80	1.87			*		
N. WAILUA DITCH 1051	A	18.61	.80	.10	3.20	1.20	.26		*	*	.60	1.10	.56	1.20	.26	*	*		.20	.10			.40	.16	.20	.15	1.80	2.00	2.39	1.41	.02	*		
PAI WAINIHA 1115	A	6.83	.02	.08	3.18	.44	.02	T			.45	.03								.05								.55	.01	.72	1.28	T	*	
PRINCETONVILLE RANCH 1117	A	6.45	.12	.05	1.20	.16	.14				.21	.73	.10							.15								.12	1.51	.01	*	1.95	*	
PUEHU RIDGE 1040	A	6.76	.14		.90	.25					.58	.50								.17									1.66	2.56		*		
PUMI 1013	A	9.97	.36	.08	1.64	.28	.03	*	*	.19	.44	1.22	.03						.02	.19	.20	*	*	.02	.03				5.15	.09	*			
RESERVOIR 6 1004	A	10.25	.64		2.35	.59		*	*	.34	.34	.63	.07						.03	.07	.10				.02				4.88	.19	*			
WAIHAMA 930	A	9.97	.06	T	1.52	.08	T				.11	.42	.04							.25				T	.02				7.49		*			
WAIHAMA MOUNTAIN 990	A	17.75																														17.75	*	
WAIHAI LOWER 1054	A	11.43	.13	.28	.20	2.78	.88	.03	.40	.07	.09	.24	.38	.64	.32					.14	.09						.03	.09	.04	.14	.86	2.34	1.17	.07
WAIHAI UPPER 1052	A	12.85	.23	.15	.05	2.75	.70	.10	.64	.28	.16	.05	.45	.03	.12					.40	.01	.35	.25	.09	.05	.05	.02	.10	2.00	2.39	1.41	.02	*	
WAIHANA 943	A	5.75	.40		2.45	.16	.02	*	*	.06		.70	.31	.19						.03	.08	*	*						*	3.11	.08	*		
WAILUA KAI 1065	A	7.72			1.66	.27					.31	.58																.24	1.39	.95		*		
WAIWEE 947	A	5.36																															*	
WEST LAWA 931	A	8.50	.06	.04	1.30	.10		*	*	.12	.04	.23	.25							.05								*	6.30	T	*			
ISLAND OF OAHU																																		
BERETANIA PUMPING STA	A	2.35	.08		.65	.01					.05	.15																.13		1.25	T	.07	*	
CAMPBELL INO PK 702.5	A	2.08									.05	.11																	2.02	.01	T	*		
CAMP 84 800	A	3.12	.10		.98																							.18		1.65	.05	.02	*	
CHURCH COLLEGE LAIE	A	2.05	.04	.21	.21	.10	.03	.04	.07					.03	.09				.02	.03							.04	.03	.07	.32	.16	.05	*	
COCODUT ISLAND 840.1	A	1.84	.10	.08	.19		.02		.20					.01														.03	.98			.22	*	
EWA PLANTATION 781	A	2.64			.62																							.04			1.96	.02	*	

DAILY TEMPERATURES

Continued

HAWAII
OCTOBER 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	74	72	74	77	75	74	73	74	75	74	75	76	78	78	75	78	76	78	75	74	76	76	76	75	78	75	74	72	75	70	74	
	MIN	58	58	59	63	59	59	60	61	62	60	58	58	59	63	62	62	59	59	57	56	57	58	59	57	58	58	59	61	62	63	64	
LAHAINA 361	MAX	89	89	89	89	89	90	88	89	90	89	88	89	87	87	89	90	89	88	87	90	89	89	89	89	89	88	89	72	87	90		
	MIN	67	65	68	69	67	66	65	66	68	68	68	66	68	66	68	66	68	66	65	65	65	66	66	66	65	65	67	67	64	69		
KAILUKE 386	MAX	83	82	79	82	82		85	84	85	84	85	85			89	86	85	84	82			83	83	83	82	82		85	85			
	MIN	71	72	72	72	68		68	71	68	68	73			70	70	71	72	72			71	72	70	70	70		65	71				
ISLAND OF HAWAII																																	
HAINA 214	MAX	82	82	83	83	82	83	82	82	82	83	84	83	82	85	85	85	81	83	82	83	82	81	81	80	81	81	82	84	79	85		
	MIN	69	69	71	71	69	66	66	68	68	67	68	65	68	69	70	69	67	65	66	69	67	68	68	66	68	69	69	67	70	69		
HAWAII VOLCANO NP HO 54	MAX	72	70	74	72	71	70	70	73	72	68	68	70	71	75	77	72	72	73	71	71	72	72	69	66	79	70	65	70	69	72	77	
	MIN	54	56	64	57	56	54	51	52	58	55	52	48	60	57	55	59	55	54	53	55	54	57	58	55	52	53	55	53	52	56	59	
HILD 450 87 AP	MAX	84	83	80	80	83	86	86	87	80	82	85	85	91	87	87	84	85	84	83	83	81	83	83	83	82	81	85	83	87	85		
	MIN	69	66	70	71	70	67	67	69	69	67	65	65	71	70	69	70	69	65	65	68	67	69	70	70	65	66	67	68	64	72		
KAINALIU 73.2	MAX	81	78	80	81	79	79	77	79	80	79	78	80	80	85	86	82	82	78	75	78	79	80	81	79	79	78	78	79	80	81		
	MIN	64	63	64	66	67	62	63	62	64	64	62	62	65	65	66	65	66	64	63	63	63	63	64	64	64	62	63	63	64	66		
KAMUELA 192.2	MAX	75	75	74	78	74	75	78	79	75	76	78	79	80	85	80	82	76	78	75	75	73	74	74	73	74	74	80	78	75	83		
	MIN	60	61	60	61	60	54	53	55	58	60	57	53	54	57	58	62	60	60	59	60	57	60	61	60	60	58	53	56	58	62		
KEAAU 92	MAX	81	82	83	78	79	81	83	83	83	78	81	82	84	88	86	85	81	83	82	82	82	80	82	79	81	81	78	80	84	85	87	
	MIN	66	67	66	69	68	66	66	66	69	68	66	66	67	67	68	69	68	65	65	66	66	66	69	68	66	65	65	66	63	64	68	
KEALAHEKUA 26.2	MAX	81	78	80	83	82	80	79	82	82	82	78	80	81	86	84	83	82	80	76	81	79	81	82	81	81	81	80	80	75	80		
	MIN	65	64	64	66	67	64	63	63	65	65	64	62	66	66	68	67	65	65	64	62	64	63	64	64	64	62	63	63	64	66	65	
KOHALA MISSION 175.1	MAX	81	82	82	81	81	80	81	82	82	81	82	82	82	85	83	83	81	82	81	82	82	82	79	81	79	80	80	80	77	83		
	MIN	68	69	71	71	70	66	66	67	70	67	70	64	65	70	69	68	70	68	68	69	69	68	68	68	69	69	67	68	69	67		
KONA (KAILUA) 68.3	MAX	87	87	89	88	86		87	87	86	88	86			89	87	87	86	87			87	88	87	87	86	86	88	86	88			
	MIN	70	69	73	74	72		72	70	71	69	72			72	73	73	70	70			71	73	72	71	70	72	71	70				
KULANI CAMP 79	MAX	65	63	65	72	65		67	62	68	62	64	64	65	75	71	72	68	68	69	65	66	67	70	62	64	64	63	59	74			
	MIN	52	53	56	50	49	49	48	49	54	42	40	40	42	53	57	54	56	54	54	57	55	60	56	54	51	54	51	56	50	51		
MAUNA LOA SLOPE OBS	MAX	33	34	36	36	35	33	33	38	39	42	40	40	42	38	37	36	36	37	37	35	37	40	38	37	34	37	37	39	40	42	40	
	MIN	79	79	80	73	74	76	80	80	80	75	75	78	76	85	85	85	76	79	78	79	77	77	77	76	77	74	72	79	79	79		
MOUNTAIN VIEW 91	MAX	61	61	63	63	64	60	60	60	60	62	61	60	63	64	64	64	63	60	60	60	61	61	61	63	60	60	62	62	62	62	64	
	MIN	82	83	83	80	82		82	80	80	81	82			85	77	82	82			82	82		82	80	81	81	81	85	81	85		
NAALEHU 14	MAX	65	68	67	68	67		69	66	68	68			70	69	68	68			70	67	68		68	68				66	70			
	MIN	82	83	83	80	82		82	80	80	81	82			85	77	82	82			82	82		82	80	81	81	81	85	81	85		
ODKALA 223	MAX	82	81	81	84	81	82	80	82	82	82	82	81	83	85	82	83	81	81	81	82	80	82	79	78	80	80	81	79	81	78	82	
	MIN	67	70	69	72	70	67	68	68	73	69	69	70	69	70	70	70	71	70	70	69	60	68	69	67	67	68	67	67	67	68	70	
OPIHIHALE 2 24.1	MAX	77	79	83	82	78	76	79	81	79	78	78	79	89	81	81	79	78	74	78	77	79	80	80	78	77	79	78	81	76	78	80	
	MIN	62	61	60	66	62	62	61	63	64	63	60	60	63	64	65	68	67	65	61	61	61	60	60	60	60	60	60	62	64	63	64	
PAHALA 21	MAX	82	84	81	81	82		83	80	79	80	82			86	76	81	80	84			85	78	82	82	81			81	87	81		
	MIN	62	64	66	66	64		64	65	63	62	63			67	65	64	62	63			63	68	64	62	65			61	67	64		
PUAKO 95.1	MAX	86	87	86	87	87	86	85	85	87	87	87	87	86	88	86	89	85	88	86	86	87	88	84	87	88	86	86	84	80	86		
	MIN	70	68	67	72	72	68	68	68	71	69	70	67	66	69	71	69	71	69	71	72	72	72	75	75	74	70	71	74	70	71	72	
UPOLU POINT USCG 159.2	MAX	85	86	83	81	85	85	86	85	85	84	83	86	86	85	86	86	86	86	85	84	83	85	86	83	84	84	84	84	81	86		
	MIN	70	72	71	73	73	70	70	71	72	71	70	70	72	74	73	73	72	71	71	73	71	70	71	71	71	71	73	75	70	73		

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
LIMUE WSO 1020.1 AP	EVAP	.37	.31	.36	.21	.25	.26	.27	.16	.15	.21	.14	.23	.23	.22	.23	.21	.23	.24	.29	.26	.31	.31	.39	.34	.32	.29	.31	.22	-	.15	.14	
	WIND	160	141	180	204	199	104	82	59	64	91	73	89	55	75	58	54	74	86	91	133	160	196	227	199	168	170	179	82	31	47	59	
	MAX	90	88	90	87	90	90	89	89	89	89	86	90	91	91	93	93	93	92	90	89	89	87	88	86	88	88	87	85	72	72	86	
	MIN	71	70	70	70	71	67	68	68	71	73	72	72	68	68	68	71	70	71	70	69	71	69	70	70	70	70	71	70	69	65	64	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.22	.29	.31	.23	.21	.19	.24	.23	.22	.21	.19	.25	.27	.22	.33	.24	.30	.27	.25	.30	.25	.30	.30	.30	.30	.30	.19	.21	.25	.07	.15	.15
	WIND	21	22	26	27	23	19	22	33	35	20	24	32	26	31	23	24	25	20	25	25	26	34	39	33	25	26	25	26	31	17	18	
	MAX	84	87	90	85	89	85	92	91	91	93	89	90	92	90	94	94	92	93	91	88	85	88	88	88	87	85	86	86	83	78	80	
	MIN	66	65	65	67	66																											

STATION INDEX

HAWAII
OCTOBER 1972

STATION	INDEX NO.	DIVISION	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
							TEMP	PRECIP	ET/PA									TEMP	PRECIP	ET/PA	
ISLAND OF KAUAI																					
ALEXANDER RESV. 993	0140	KO2		21 57	159 32	1610															
ARHOLOA 1116	0145	KO2		21 58	159 18	180	7A														
BROOKSWOOD STA 985	0240	KO2		21 56	159 32	720	7A														
EAST LAKE 924	0240	KO2		21 56	159 32	720	7A														
EW 3 RESERVOIR 1094.1	0465	KO2		22 00	159 22	273	6A														
ELEA 1312	0367	KO2		22 00	159 19	129	7A														
KALALA 1110	0493	KO2		22 07	159 19	235	7A														
HALEMANA 1005	1038	LIHUE		22 59	159 26	490	8A														
HANA TUNNEL 1053	1170	KO2		22 05	159 28	1218	8A														
HUKIPO 945	2161	KO2		21 59	159 41	800	8A														
LIILUAKE INTAKE 1050	2222	LIHUE		22 02	159 28	1055	VAR														
INTAKE MAININA PK 1096	2227	LIHUE		22 09	159 34	690	VAR														
KANALOHU/LUKULU 1075	3099	LIHUE		22 05	159 40	3600	8A														
KANEA RESERVOIR 1092	3104	KO2		22 08	159 23	190	7A														
KAPPA STARLES 1104	3159	KO2		22 05	159 20	175	7A														
KAWAII 938	3160	KO2		22 05	159 20	100	7A														
KEKAHA 944	4272	LIHUE		21 58	159 43	9	6A														
KILAUEA 1134	4561	LIHUE		22 13	159 25	117	6A														
KILAUEA FIELD 17 1135	4561	LIHUE		22 05	159 24	419	6A														
KILAUEA POINT 1133	4568	LIHUE		22 14	159 24	180	8A														
KITANO 1037.1	4650	LIHUE		22 02	159 41	2150	8A														
KOLA 1033	4735	LIHUE		22 04	159 46	36	7A														
KOLA 942	4736	LIHUE		22 05	159 46	36	7A														
KOLA MAUKA 994	4750	LIHUE		22 08	159 29	640	7A														
KOLOKO RES 1137	4758	LIHUE		22 11	159 23	850	8A														
KUKULUA 938	4950	LIHUE		22 04	159 30	100	7A														
LIHUE VARIETY STA	4960	LIHUE		22 01	159 23	275	7A														
LIHUE 1020	4970	LIHUE		22 01	159 22	207	7A														
LIHUE 1020.1	4970	LIHUE		22 01	159 22	207	7A														
MAKAIHUNA INTAKE 940.1	5785	LIHUE		22 12	159 27	52	MID														
MAKALEI 965	5804	LIHUE		22 11	159 38	140	7A														
MAKA 1026	6082	LIHUE		22 02	159 46	11	9A														
MAKA 1026.1	6082	LIHUE		22 02	159 46	11	9A														
MOMIHI UPR CROSS 1083	6433	LIHUE		22 07	159 36	3500	MID														
MOKOIA 114	6529	LIHUE		22 11	159 20	330	7A														
MOKOIA 114.1	6529	LIHUE		22 11	159 20	330	7A														
MUHI RIDGE 1035	6850	LIHUE		22 02	159 44	1250	6A														
MUHI RIDGE 1035.1	6850	LIHUE		22 02	159 44	1250	6A														
MUHI RIVER 1051	6893	LIHUE		22 04	159 26	650	6A														
PR WAINIWA 1115	8159	LIHUE		22 12	159 34	101	6A														
PRINCEVILLE RANCH 1117	8165	LIHUE		22 13	159 29	295	9A														
PUHU RIDGE 1040	8205	LIHUE		22 01	159 42	1600	7A														
REVEREND P 1004	8574	LIHUE		22 07	159 27	420	7A														
STARBUCK 1095.1	8749	LIHUE		22 08	159 09	35	9A														
WAIHANA 930	8941	LIHUE		22 04	159 34	215	7A														
WAIHANA MOUNTAIN 994	8949	LIHUE		22 08	159 31	2100	MO														
WAIHANA MOUNTAIN 1054	8949	LIHUE		22 08	159 31	2100	MO														
WAIHANA POINT 1092	8968	LIHUE		22 02	159 28	780	8A														
WAIHANA 943	9253	LIHUE		22 11	159 43	10	8A														
WAILUA KAI 1065	9467	LIHUE		22 02	159 21	50	7A														
WAILUA 947	9629	LIHUE		22 08	159 41	20	8A														
WEST LAKE 931	9752	LIHUE		22 05	159 21	610	6A														
ISLAND OF OAHU																					
AHIHUNA DDP 839.12	0055	KO2		21 26	157 31	320	9A														
BERTANHA PUMPING STA	0211	KO2		21 19	157 51	20	9A														
CAMP & 807	0300	LIHUE		21 26	158 04	760	6A														
CHURCH COLLEGE LAKE	0340	KO2		21 39	157 56	20	9A														
DONKEY HIGHS 780.1	0398	KO2		21 21	157 50	565	7A														
HANA PLANTATION 741	0507	LIHUE		21 21	158 02	55	9A														
HANA SMART 771.2	0966	KO2		21 23	157 10	170	7A														
HELEMANA INTAKE 81.1	1384	LIHUE		21 33	159 00	1274	WI														
HOKULUA 735.2	1540	LIHUE		21 24	158 06	2220	VAR														
HOKULUA OBSERV 702.2	1918	LIHUE		21 29	158 00	20	9A														
HOKULUA 702.2.1	1918	LIHUE		21 29	158 00	20	9A														
HONOLULU SUBSTA 704	1924	KO2		21 19	157 52	12	MID														
HONOLULU 704.1	2142	KO2		21 18	157 52	12	MID														
KALAEVA 724.6	2269	KO2		21 18	157 43	10	8A														
KAPPA POINT 841.3	2410	LIHUE		21 34	158 15	1240	9A														
KAWAIIA 912	2570	KO2		21 41	157 57	25	8A														
KAWAIIA FIRE STA 791.3	2683	KO2		21 24	157 45	10	8A														
KALINI RES SITE 777	2960	KO2		21 23	157 50	910	MID														
KANEHANA 724.7	3056	LIHUE		21 19	157 41	1200	7A														
KANEHANA MAUKA 781	3113	KO2		21 25	157 49	220	7A														
KAPALANA 734	3268	KO2		21 21	157 52	614	8A														
KAWAIIA 841	3741	LIHUE		21 25	157 49	220	7A														
KAWAI IKI INTAKE 880.21	3743	LIHUE		21 34	157 59	1180	7A														
KEMO CAP 8 855	4314	LIHUE		21 33	158 05</																

STATION INDEX

HAWAII
OCTOBER 1972

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP.	PRECIP.	EVAP.										TEMP.	PRECIP.	EVAP.	
(LAND OF HAWAII)																							
MAUNA 18	A 6407	03	KAU	3 19 11	155 30	800		NO			HAWAIIAN RANCH CO	PUU LEHUA 73	A 6400	04	N KOHA	4 19 34	155 49	4880		NO		W.M. GREENWELL RANCH	
"MOUNTAIN VIEW 91	A 6352	02	PUNA	2 19 33	155 07	1230	6A	6A			PUNA SUGAR CO	PUU HALL 113	A 6518	01	HAMAKUA	2 19 59	155 26	6960		NO		KUKAIAU RANCH CO	
MALEHU 14	A 6588	03	KAU	3 19 04	155 35	673	8A	8A			HUTCHINSON SUGAR CO	PUU DD 82	A 6550	02	S HILO	2 19 44	155 23	6340		6A		MISS JACKIE BENEHR	
MARPOPOD 28	A 6697	04	S KOHA	4 19 28	155 55	395	7A	7A			KONA EXPERIMENT STA	PUU MAHAA 94.1	A 6555	05	N KOHA	5 19 47	155 31	2520		7A		CAPT COOK CATTLE CO	
NIHUKI 178	A 6804	01	N KOHALA	1 20 19	155 45	75	6A	6A			KOHALA CORPORATION	SADDLE ROAD 1 84	A 6590	02	S HILO	2 19 42	155 12	2340		WM		BOARD OF WTR SUPPLY	
ODAKA 223	7131	02	N HILO	2 20 01	155 17	+30	7A	7A			LAUPAHOE SUGAR CO	SOUTH POINT CORRAL 3	A 6675	03	KAU	3 18 57	155 41	500		W1		HAWAIIAN RANCH COMPANY	
OPIMIHAE 2 26-1	7168	04	S KOHA	4 19 16	155 53	1270	7A	7A			WAIKAMU 118	UMUKA 118	A 6780	01	HAMAKUA	1 19 59	155 23	3420		7A		KUKAIAU RANCH CO	
OKMO LAND EST 91.5	A 7185	02	PUNA	2 19 28	155 00	445	VAR	VAR			MISS C. LEONARD	UPOLU POINT USCG 159-2	A 6830	01	N KOHALA	1 20 15	155 33	41		6A		U S COAST GUARD	
PAAIHUA 217	7204	01	HAMAKUA	1 20 05	155 26	1215	7A	7A			BOARD OF WATER SUPPLY	WAIKAEA SCD 88-2	A 9025	02	S HILO	2 19 40	155 08	1030		7A		SHINICHI KANESHIRO	
PAALUU 221	7312	01	HAMAKUA	1 20 03	155 22	800	7A	7A			PAIHAU SUGAR CO	WAIKANDOLU 178.6	A 9350	01	N KOHALA	1 20 08	155 47	3630		7A		KAMUA RANCH	
PAHALA 21	A 7421	03	KAU	3 19 12	155 29	870	6A	6A			HAWAIIAN AGR CO												
PANOA 63	7437	02	PUNA	2 19 30	154 97	670	6A	6A			PUNA SUGAR COMPANY												
PAKO 37	A 7643	03	KAU	3 19 22	155 28	5000	NO	NO			HAWAIIAN RANCH CO INC												
PAPAIKOU 144.1	7711	02	S HILO	2 19 47	155 08	200	7A	7A			MAUNA KEA SUGAR CO												
PAPAIKOU MAUNA 140.1	7721	02	S HILO	2 19 47	155 08	1270	7A	7A			MAUNA KEA SUGAR CO												
PITIKOHA 89	A 8051	02	S HILO	2 19 44	155 10	1730	NO	NO			STATE DIV OF FORESTRY												
POMARUOA 107	A 8063	02	HAMAKUA	2 19 19	155 32	551	VAR	VAR			STATE DIVISION OF PARKS												
PUKA 95.1	A 8180	05	KOHALA	5 19 59	155 50	5	6A	6A			ERWIN H. RAPP												
PUU KIME 120	A 8393	01	HAMAKUA	1 19 54	155 24	7750	NO	NO			KUKAIAU RANCH CO												
PUU LAU 102.1	A 8452	05	HAMAKUA	5 19 50	155 36	7440	NO	NO			STATE DIV OF FISH-GAME												

DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LAHAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3850, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tenths of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. **WIND** and **WIND VELOCITY** in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
 - No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
 - + And also on an earlier date or dates.
 - Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
 - * Amount included in following measurement, time distribution unknown.
 - A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month.
 - B Adjusted to a full month.
 - M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 - R Amounts from recording gage.
 - T Trace, an amount too small to measure.
 - V Includes total for previous month.
- IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- AR Observation made after rain.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation amounts are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin; if daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - MO Gage read once monthly; usually on the last day.
 - OC Gage readings at periods varying from a few weeks to several months.
 - S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
 - J "Supplemental Data" table.
 - SS Observation time is near sunset.
 - VAR Observation time is variable.
 - W1 Gage read weekly or irregularly only.
 - WM Gage read weekly and last day of month.
 - # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for the State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: \$2.50 a year for each section including annual summary, \$1.00 additional for foreign mailing; 20¢ single copy; 20¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N. C. 1/31/73-890

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FIRST CLASS

SPECIAL WEATHER SUMMARY

Other weather events of the month were overshadowed by the rough seas and high surf that claimed six lives in five separate incidents during the last third of November. Also noteworthy, however, were the formation of a hurricane far to the south, record low temperatures brought by the first cold front to transit the entire State this winter, snow on Hawaii's high mountains, and the continuation of widespread dry weather.

On the 3d, as a preview of things to come, waves up to 15 feet high (the winter's first) pounded Oahu's north shore from Waimea to Sunset Beach, but did no damage.

On about the 7th, the vortex which later became Typhoon RUBY, developed near 3° N 159° W in the Intertropical Convergence Zone. It then moved northwestward, reaching typhoon strength by the 13th just before crossing the International Date Line at 12° N. After passing westward about 200 miles south of Wake on the 17th, RUBY ended its career a few days later about midway between Wake and Guam. Wake's peak gust was 49 m.p.h. from the east on the 18th.

On the 10th, the winter's first major snowfall blanketed Mauna Kea to a depth of about 1-1/2 inches down to the 11,000-foot level. And from the 19th on the month's weather was dominated by high waves generated by storms north of the State and by a fast-moving cold front.

On the 19th, off Oahu's north shore, two men drowned and a number of others barely escaped from rough seas and surf up to 13 feet high. While the latter is not at all uncommon for the place and season, the first high waves of winter almost invariably lead to a number of drownings and close calls, particularly among young servicemen and other inexperienced or foolhardy venturers into these dangerous waters. The 19th was no exception. In one incident, two of four servicemen caught in high surf at Sunset Beach were dragged by receding waves into the rough sea, where one was lost and the other rescued nearly unconscious. Earlier, a surfer who lost his board had managed to reach shore before help arrived, while another had to be hauled out by a fire rescue squad. The day's second drowning occurred at nearby Waimea Bay, when a young man rock-climbing with two companions was knocked down by a large wave and swept out to sea. And in rough waters at Alii Beach and Lanikakes, two young men were rescued by helicopter.

On the morning of the 25th, after waves capsized their 8-foot skiff, a 79-year-old fisherman was lost off Niu, Oahu, when he was left standing on the reef 300 yards offshore, while

his friend walked ashore in chest-deep water for help.

That night a 20-foot outboard motorboat returning to Pokai Bay, Oahu, was swamped by high waves off Makaha when brought too close to shore in seeking the rain-obscured lights of the Bay. Three of the five fishermen aboard were swept safely to shore, but one man was drowned and another lost. The boat was later found washed ashore.

Early on the morning of the 26th, a 26-foot boat off northwest Molokai between Ilio and Mokio Points was flipped over by breaking waves when it lost or dragged its anchor and drifted too close to shore. Two of the three men aboard reached shore safely, but the third was lost. According to the survivors, who were asleep until minutes before the accident occurred, the seas had been calm when they turned in. Pieces of the wrecked boat were later found on the shore. On the 30th, 15- to 20-foot waves generated by a storm 800 miles to the north struck the northern shores of Kauai and Oahu, but did no damage.

The first cold front to make its way completely through the islands this winter did so in just 18 hours, passing Lihue between 1 and 2 p.m. on the 25th, Honolulu between 7 and 8 p.m., Kahului on the 26th between 1 and 2 a.m., and Hilo between 7 and 8 p.m. Fans at the San Jose-University of Hawaii football game in Honolulu Stadium were drenched and windblown by the pre-frontal showers and southwesterly winds.

The most noticeable effect of the front, however, and a popular topic of conversation, was the cold air that blanketed the islands in its wake. As compared to the 25th, the day preceding the frontal passage, the daily maximum and minimum temperatures dropped sharply throughout the State: 5° and 7°, respectively, at Lihue; 3° and 6° at Honolulu; 11° and 8° at Wheeler Air Force Base, Oahu; 9° and 5° at Kahului; and 6° and 3° at Hilo. Honolulu and Kahului Airports registered their lowest November temperatures in 26 and 8 years of record, respectively: 58° at Honolulu on the 27th, compared with the previous minimum of 59°, and 55° at Kahului on the 28th, compared with its previous 58°.

Small craft warnings (to be called small craft advisories beginning January 1, 1973) for Hawaiian waters were in effect on 18 days because of gusty trade and frontal winds.

Despite the showers that accompanied the frontal passage, it was a dry November. On Oahu, Kauai,

SPECIAL WEATHER SUMMARY - Continued

and Maui, only a small scattering of gages reached or exceeded their average rainfall for the month. Much of eastern and southwestern Kauai and of coastal Oahu, all of Lanai, and most of Molokai had less than half and in places less than one-fourth their November means. Maui was dry nearly everywhere. Especially along the southwestern coast and in the central valley and Kula, most gages had less than one-fourth their aver-

age rainfall for November and many none at all. On Hawaii Island, however, most stations in the drought-plagued Kohala-Hamakua coast reached or exceeded their monthly means. But that island's southeastern and western sections were very dry, with almost all gages registering well below one-third of their average November rainfall.

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DAILY TEMPERATURES

HAWAII
NOVEMBER 1972

Station	Day of Month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	76 56	70 55	72 52	68 58	68 58	72 60	64 57	63 57	65 56	68 56	68 55	66 55	68 57	64 56	65 54	67 54	69 56	69 52	69 52	69 52	68 46	68 48	69 54	68 49	65 47	63 47	55 47	58 46	62 50	58 52	57 49	66.1 52.8	
KILAUEA POINT 1133	MAX MIN	78 78	79 79	80 80	82 82	80 80	80 80	80 80	79 78	78 78	80 80	79 78	80 80	77 77	78 78	77 77	78 78	79 79	78 78	80 80	80 80	79 79	81 81	81 81	80 80	81 81	81 81	81 81	80 80	77 77	78 78	79.7		
LIHUE WSD 1020.1 AP	MAX MIN	83 77	83 74	83 75	81 74	83 75	82 74	82 75	81 73	81 74	82 73	82 76	81 73	81 72	81 74	81 74	81 73	81 73	81 72	81 74	81 73	81 72	81 72	82 75	82 71	82 70	81 65	82 61	79 60	78 59	77 61	78 59	80.9 71.3	
MAKAHUENA POINT 940.1	MAX MIN	85 74	84 72	83 77	82 73	82 72	82 71	80 70	80 71	80 71	77 69	81 71	79 69	81 69	80 71	81 69	81 69	81 69	81 69	81 69	81 69	81 69	82 71	82 70	81 70	83 70	83 70	85 72	79 59	79 63	81 64	77 60	81.2 69.6	
HANA 1026	MAX MIN	76 70	68 68	68 68	65 65	68 68	69 69	66 66	68 68	65 65	66 66	64 64	65 65	86 64	82 65	85 64	84 61	84 63	84 61	84 66	84 66	84 66	82 65	86 62	84 65	82 65	82 65	85 68	80 63	75 62	78 63	80 63	79 63	82.3 65.1
NIU RIOGE 1035	MAX MIN	85 65	82 63	83 63	82 62	81 61	83 62	80 62	82 63	80 62	80 62	82 62	80 61	82 62	83 60	83 61	81 59	82 60	82 60	81 60	82 60	81 59	82 60	82 60	84 60	83 59	84 60	82 60	81 61	82 60	76 62	76 60	81.6 60.9	
WAIAMI LOWER 1054	MAX MIN	82 67	80 68	79 67	76 67	78 66	76 66	75 67	78 65	77 65	79 66	78 66	78 64	77 65	78 65	78 63	79 65	78 65	79 65	79 65	79 65	80 63	79 61	81 62	79 63	81 62	81 62	85 58	75 53	78 51	76 52	78 53	77 51	78.1 62.4
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	88 73	83 71	84 72		83 70	79 71	83 71	81 70	81 71			82 67	79 70	79 68	81 68	82 68					84 64	81 66	82 67					83 57	78 59	80 58	81 60	83.5 69.8	
HONOLULU WSD 703 AP	MAX MIN	86 73	86 73	85 75	86 75	86 72	84 74	83 73	83 72	85 73	84 73	84 73	83 73	83 73	82 71	83 71	85 71	85 71	85 71	85 71	85 71	86 66	84 71	84 70	84 65	84 65	82 64	79 64	81 58	81 61	79 61	82 61	83.5 69.8	
HONOLULU SUBSTA 704	MAX MIN	82 72	81 72	81 75	80 74	81 75	78 72	79 72	79 71	79 71	80 73	80 73	79 73	78 73	78 73	78 73	79 72	79 72	80 72	80 72	80 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	81 72	79.0 70.7	
KAHUKU 912	MAX MIN	84 75	84 77	84 74	85 76	86 75	82 72	84 73	82 73	85 75	85 73	84 76	84 74	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	82.7 73.2	
KANEHE MAUKA 781	MAX MIN	84 74	83 74	82 74	78 73	80 74	81 71	76 72	80 72	78 73	80 72	81 73	80 72	79 72	78 72	78 72	79 72	79 72	79 72	79 72	79 72	79 72	79 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	80 72	79.7 70.2	
LUALUALEI 804	MAX MIN	88 65	94 69	90 66	89 68	84 72	87 71	83 71	81 69	89 72	89 72	86 68	80 68	81 67	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	86.2 66.0	
MAKAPUU POINT 724	MAX MIN	78 76	80 70	77 68	77 66	77 68	74 71	79 66	75 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76 66	76.5 67.7	
OPAEOULA 870	MAX MIN	85 65	80 64	75 65	77 70	78 64	75 64	70 63	71 62	70 61	78 66	75 64	71 64	70 65	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	70 64	77.1 63.5	
PRI WAIHANA 820.2	MAX MIN	88 67	82 68	81 62	78 69	82 70	77 67	78 66	78 66	78 66	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	80 68	79.6 63.3	
WAIALĒE 896.3	MAX MIN	84 74	83 71	82 74	82 71	81 70	80 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	81 70	80.4 69.7	
WAIALUA 847	MAX MIN	90 68	83 66	83 66	84 66	84 66	80 72	81 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	80 74	82.4 65.2	
WAIKIKI 717.2	MAX MIN	88 73	85 71	84 72	84 72	84 71	83 69	83 67	83 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82.9 69.1	
WAIMANALO EXP FARM	MAX MIN	84 74	79 71	80 73	79 71	82 71	82 71	80 71	81 71	80 71	81 71	81 71	81 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80 71	80.3 69.2	
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	86 76	84 71	80 72	81 72	80 70	80 71	82 72	78 70	79 70	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	79.4 68.8	
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	82 68	79 64	75 65		76 62	76 64	74 61	74 61	76 64			76 59	74 60	72 58	72 64	75 61					76 60	74 58	74 59					81 56	73 55	76 62	76 59	80.7 66.4	
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	73 55	71 50	70 55	71 50	64 45	70 45	59 45	59 45	56 45	61 45	64 45	62 48	65 48	66 48	58 44	59 44	59 44	61 44	61 44	61 44	61 44	61 44	61 44	61 44	61 44	61 44	61 44	61 44	61 44	61 44	61 44	63.7 45.7	
HALEAKALA SUMMIT 338.4	MAX MIN	61 46	59 44	54 43	58 46	58 46	57 42	55 40	56 40	46 38	52 38	52 38	52 38	53 41	52 40	54 38	50 38	53 40	50 40	53 40	50 40	53 40	50 40	53 40	50 40	53 40	50 40	53 40	50 40	53 40	50 40	53 40	54.2 41.1	
HANA AIRPORT 355	MAX MIN	85 68	85 68	81 69	82 68	84 68	81 68	82 68	81 66	82 66	82 66	81 66	80 66	81 66	80 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	81 66	80.8 65.9	
KANAPALI AIRPORT	MAX MIN	85 67	83 67	81 70	83 72	82 68	82 72	82 66	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	80.7 66.4	
KAHULUI WSD 398 AP	MAX MIN	86 72	84 72	87 74	85 73	85 70	85 71	85 71	85 71	85 71	84 71	83 71	84 70	84 70	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	82 69	83.5 66.8	
KAILUA 446	MAX MIN	80 70	78 68	75 69	84 68	84 68	76 66	76 66	73 65	75 65	75 65	75 65	76 65	74 65	74 65	73 65	75 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	74 65	76.1 65.2	
KEAWAKAPU BEACH 260.2	MAX MIN	70 67	89 65	89 67	89 65	90 66	91 66	89 66	90 66	88 64	88 64	89 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	88 64	86.9 63.3	

See Reference Notes Following Station Index

DAILY TEMPERATURES

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX	78	75	73	72	73	72	75	74	72	74	74	75	73	72	70	73	74	72	71	72	73	71	71	71	72	75	68	72	70	71	72.6 56.5	
	MIN	59	60	61	57	58	58	59	59	57	57	58	55	55	56	55	56	57	58	57	54	54	54	55	55	54	55	54	55	57	57		
LAHAINA 361	MAX	88	89	89	88	90	85	89	87	87	88	87	86	87	85	87	84	84	85	85	86	87	85	85	77	82	82	83	83	85.8 63.5			
	MIN	68	65	67	65	65	66	67	65	65	67	67	66	67	64	64	64	64	65	64	65	61	60	60	60	59	57	58	59		60		
WAILUKU 386	MAX	86	81	80			81	80	78	79	81			80	80	79	79	80			81	80									72.6 56.5		
	MIN	72	70	71			69	70	71	69	69			69	71	68	70	70			69	69											
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX	83	81	80	79	78	78	79	74	79	78	78	71	77	77	79	76	74	78	78	78	77	78	78	78	79	80	69	74	78	79	77.5 66.4	
	MIN	70	70	70	68	68	68	68	68	68	67	67	67	66	69	66	67	67	68	64	65	64	67	64	64	65	64	63	64	62	64		
HAWAII VOLCNS NP HO 54	MAX	69	68	70	65	63	68	67	69	65	65	76	63	66	66	73	60	62	69	62	67	70	67	67	65	68	69	67	61	66	68	66.7 53.3	
	MIN	54	54	60	55	55	59	56	59	52	53	54	49	53	51	56	55	56	58	54	56	50	52	51	49	48	47	56	49	52	46		
HILO WSD 87 AP	MAX	83	78	80	80	81	82	79	81	81	81	79	80	80	80	77	81	81	79	81	80	80	80	81	83	82	76	80	79	80	80	80.2 66.3	
	MIN	67	68	70	68	69	69	70	69	68	68	68	63	66	65	65	68	68	69	66	65	65	65	66	65	64	62	61	64	65	64		
KAINALIU 73.2	MAX	81	79	80	80	82	77	78	80	80	78	80	78	77	78	78	75	77	79	78	79	78	77	76	77	78	78	72	75	77	76	77.9 61.9	
	MIN	70	64	64	69	64	64	63	66	64	62	62	59	60	64	60	61	62	61	60	60	60	60	60	60	60	62	60	59	59	57		
KAMUELA 192.2	MAX	80	71	70	69	68	69	70	71	70	68	70	69	69	69	70	69	68	70	69	72	69	71	72	73	70	74	66	70	73	73	70.4 56.3	
	MIN	60	58	61	60	61	57	60	58	59	59	59	59	59	59	57	58	58	58	57	59	57	58	50	53	48	51	54	53	44	48		
KEAAU 92	MAX	82	82	77	79	79	79	79	75	80	79	79	76	79	79	79	75	79	79	79	79	78	78	79	80	80	80	75	76	79	83	78.7 64.9	
	MIN	67	66	66	67	67	68	67	67	66	66	66	64	65	64	65	65	68	67	66	61	64	60	65	64	64	62	62	62	64	63		
KEALAKEKUA 26.2	MAX	82	80	80	80	79	76	80	82	80	77	78	79	77	79	80	73	79	81	79	79	79	78	77	78	78	78	73	77	78	77	78.4 62.2	
	MIN	70	64	64	69	63	63	63	64	65	63	62	61	61	64	60	62	61	62	60	61	63	60	61	61	62	60	60	60	58	58		
KOHALA MISSION 175.1	MAX	82	80	75	77	78	77	79	74	78	78	75	71	77	76	77	73	76	76	78	79	76	77	77	80	82	70	75	76	80	76.9 66.4		
	MIN	71	70	70	67	68	68	68	68	67	68	67	66	67	68	66	67	67	67	66	66	69	68	64	65	63	63	63	62	61		63	
KONA (KAILUA) 68.3	MAX	88	85	86			86	87	86	85	87			85	84	85	79	82			82	85	85	80							84.3 70.2		
	MIN	71	72	72			72	73	74	72	71			70	72	71	70	71			68	70	71										
KULANI CAMP 79	MAX	63	65	72	63	61	65	64	60	61	62	61	62	62	62	61	57	58	60	61	62	65	62	63	62	65	65	65	60	68	68	62.8 46.6	
	MIN	44	55	46	50	54	53	53	52	51	50	50	50	41	47	47	51	51	42	44	43	44	46	45	42	39	44	45	42	39	39		
MAUNA LDA SLOPE OBS	MAX	57	52	53	59	60	58	52	52	54	52	48	52	53	52	49	52	48	49	51	58	56	58	57	57	54	54	55	53	55	56	53.9 37.2	
	MIN	39	40	40	41	46	37	37	34	37	34	34	32	36	36	34	36	34	31	31	41	39	37	41	41	36	37	38	40	36	42		
MOUNTAIN VIEW 91	MAX	74	77	72	73	73	73	73	68	75	73	73	73	73	74	74	71	69	75	75	75	78	73	77	77	77	77	77	72	75	77	74.1 59.5	
	MIN	62	61	62	63	63	63	64	62	63	61	59	59	59	59	59	60	61	64	59	59	59	59	60	55	55	55	55	55	56	57		55
NAALEHU 14	MAX	78	81	80			80	80	80	80	79			79	79	79	78	78			79	78										77.3 66.7	
	MIN	70	68	70			67	69	70	69	68			66	70	68	66	68			65	67											
ODKALA 223	MAX	82	81	79	77	77	78	78	73	78	78	78	74	78	78	79	74	74	74	78	79	77	79	78	79	79	80	70	75	77	77	77.3 66.7	
	MIN	71	68	70	68	68	68	68	67	66	67	66	66	67	65	66	66	68	68	67	67	67	68	68	66	67	65	65	63	62	65		65
OPIHIHALE 2 24.1	MAX	75	79	78	76	75	78	78	79	77	78	76	76	77	77	73	75	76	75	76	76	74	76									76.4 59.4	
	MIN	61	60	61	61	61	60	61	62	60	60	59	58	58	59	58	58	60	59	60	60	60	57										
PAHALA 21	MAX	80	82	83			82	81	81	82	83			79	81	82	80	79			78	79										83.8 70.1	
	MIN	66	64	68			63	65	66	66	68			60	64	63	67	66			61	62											
PUAKO 95.1	MAX	83	87	87	85	86	84	86	86	88	85	83	84	83	82	84	82	85	85	84	83	84	83	83	84	82	85	79	81	82	80	83.8 70.1	
	MIN	71	72	76	74	74	74	75	74	74	72	69	71	72	74	72	72	71	70	67	72	69	67	67	66	65	65	67	65	64	63		
UPOLU POINT USCG 159.2	MAX	85	85	80	83	81	82	82	79	82	81	80	78	79	80	81	79	80	78	81	81	79	82	80	81	82	84	75	77	79	80	80.5 69.4	
	MIN	74	71	71	69	72	69	70	70	69	70	69	70	72	68	69	69	70	69	68	70	71	70	68	69	69	68	65	69	67	67		

EVAPORATION AND WIND

Station		Day of Month																															Total of Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP	.16	.28	.29	.13	.22	.28	.10	.29	.26	.22	.24	.28	.10	.28	.26	.28	.26	.20	.22	.22	.18	.19	.25	.23	.22	.12	.18	.07	.18	.18	6.37 5084 82.3 66.3	
	WIND	115	215	221	213	261	215	285	237	240	249	235	210	181	210	242	224	222	178	128	102	147	161	152	97	53	79	64	46	53	49		
	MAX	83	87	82	83	81	82	82	84	83	81	85	83	81	82	82	82	82	81	83	85	86	84	82	83	85	87	78	76	78	83		76
	MIN	73	70	69	70	69	69	69	68	68	68	68	69	68	68	68	67	67	67	67	68	67	67	67	67	66	59	57	57	58	56		
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.06	.30	.27	.19	.24	.22	.17	.15	.24	.19	.22	.26	.22	.19	.22	.23	.26	.30	.21	.20	.27	.18	.20	.27	.15	.22	.19	.15	.20	6.32 509 82.8 62.3		
	WIND	5	15	18	23	32	23	11	16	22	23	22	19	17	21	24	24	23	13	8	12	19	14	16	12	6	22	18	13	10		8	
	MAX	90	88	86	88	85	85	86	82	84	82	85	83	76	76	83	83	84	82	82	85	82	80	79	83</								

STATION INDEX

HAWAII NOVEMBER 1972

Main table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER. Includes sub-sections for ISLAND OF MOLOKAI and ISLAND OF MAUI.

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER		
								TEMP	PRECIP	EVAP	SPECIAL										TEMP	PRECIP	EVAP	SPECIAL			
ISLAND OF HAWAII																											
MIDDLE MOULUA 88.1	A 6268	04	N KONA	4	19 37	155 58	475	8A					CAPT COOK CATTLE CO	A 8393	01	HAWAII	1	19 54	155 24	7750	HO				KUKAIUA RANCH CO		
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380	VAR					HAWAIIAN RANCH CO	A 8452	05	HAWAII	8	19 50	155 36	7440	HO				STATE DIV OF FISH-GAME		
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600	MO					HAWAIIAN RANCH CO	A 8460	04	N KONA	7	19 34	155 49	4880	HO				W.H. GREENWELL RANCH		
MOUNTAIN VIEW 91	A 6592	02	PUNA	2	19 33	155 07	1500	6A					PUNA SUGAR CO	A 8515	01	HAWAII	3	19 55	155 26	6960	HO				KUKAIUA RANCH CO		
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A					HUTCHINSON SUGAR CO	A 8550	02	S HILO	1	19 44	155 23	6340	6A				MISS JACKIE BUNLEHR		
NAPOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395	7A					KONA EXPERIMENT STA	A 8555	03	N KONA	1	19 47	155 51	2520	7A				PUU WAAMAA RANCH CO		
NIHILI 179	A 6806	01	N KOHALA	1	20 14	155 45	75	6A					KOHA CORPORATION	A 8590	02	S HILO	3	19 42	155 12	2340	WM				BOARD OF WTR SUPPLY		
OKALA 223	7131	02	S HILO	2	20 01	155 17	430	7A					KOHALA CORPORATION	A 8675	03	KAU	3	18 37	155 41	500	MI				HAWAIIAN RANCH COMPANY		
OPINIALE 2 24.1	7186	04	S KONA	4	19 45	155 32	6511	VAR					LAUPAHEHUE SUGAR CO	8780	01	HAWAII	1	19 59	155 23	3420	7A				KUKAIUA RANCH CO		
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	443	VAR					NISS C LEDNAR	8830	01	N KOHALA	1	20 15	155 53	801	8A				U S COAST GUARD		
PAALUHA 217	7204	01	HAWAII	1	20 05	155 26	415	7A					BOARD OF WATER SUPPLY	9025	02	S HILO	2	19 40	155 08	1050	7A				SHINICHI KANESHIRO		
PAALUHA 221	7312	01	HAWAII	1	20 03	155 22	800	7A					PAALUHA SUGAR CO	9350	01	N KOHALA	1	20 08	155 47	3830	7A				KAMUA RANCH		
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A					HAWAIIAN AGR CO														
PANDA 65	7437	02	PUNA	2	19 30	154 57	670	6A					HAWAIIAN RANCH CO INC														
PAHAO 37	A 7643	03	KAU	3	19 22	155 28	5000	MO					HAWAIIAN RANCH CO INC														
PAPAIAKU 144.1	7711	02	S HILO	2	19 47	155 06	200	7A					MAUNA KEA SUGAR CO														
PAPAIAKU MAUKA 140.1	7721	02	S HILO	2	19 47	155 06	200	7A					MAUNA KEA SUGAR CO														
PIIHNUNA 89	A 8051	02	S HILO	2	19 44	155 10	1730	MO					STATE DIV OF FORESTRY														
PONAKULUA 107	A 8063	02	HAWAII	2	19 45	155 32	6511	VAR					STATE DIVISION OF PARKS														
PUNAO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5	8A					ERWIN H. RAPP														

↓ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAUA 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
 5-NORTH-CENTRAL MOLOKAI: 1-INO INTRA-ISLAND DIVISIONS LARAI: 1-INO INTRA-ISLAND DIVISIONS MAUI: 1-NORTHEASTERN
 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

- Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".
- DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.
- OBSERVATION TIME:** Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.
- EVAPORATION:** Is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation; wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.
- NORMALS:** for all stations are climatological standard normals based on the period 1931-1960.
- STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.
- LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.
- INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.
- IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index
 - No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
 - + And also on an earlier date or dates.
 - ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
 - * Amount included in following measurement, time distribution unknown.
 - A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index" indicates amount carried in the "Total" column is for the period from the last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
 - B Adjusted to a full month.
 - M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 - R Amounts from recording gage.
 - T Trace, an amount too small to measure.
 - V Includes total for previous month.
- IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**
- AR Observation made after rain.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - MO Gage read once monthly; usually on the last day.
 - OC Gage readings at periods varying from a few weeks to several months.
 - S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
 - J "Supplemental Data" table.
 - SS Observation time is near sunset.
 - VAR Observation time is variable.
 - W1 Gage read weekly or irregularly only.
 - WM Gage read weekly and last day of month.
 - # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- Stations appearing in the tables with no data were either missing or received too late to be included in this issue.
- General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.
- Information concerning the history of changes in locations, elevations, exposure, etc., of stations through 1957 may be found in the publication "Sub-Station History" for the State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
 Director, National Climatic Center

U.S. DEPARTMENT OF COMMERCE
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FIRST CLASS

CLIMATOLOGICAL DATA

HAWAII

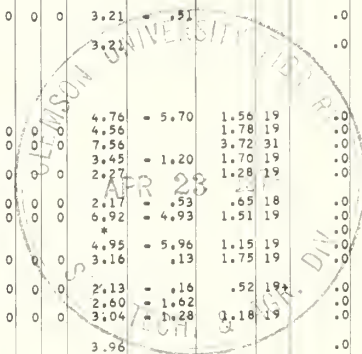
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

DECEMBER 1972

Volume 68 No. 12

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days		Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days					
										30° or Below	31° or Below					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More			
										31° or Below	32° or Below					33° or Below	34° or Below	35° or Below						
* * * ISLAND OF KAUAI																								
ANAOHA 1114	A	61.5	46.5	54.0		68	25+	37	30+	0	0	0	1.71	- 3.69	2.55	17	.0	0				9	6	4
KANALOHULUHULU 1075	A									0	0	0	8.59				.0	0						
KAPAA STABLES 1104	A									0	0	0	1.76				.0	0						
KILAUEA FIELD 17 1135	A									0	0	0					.0	0						
KILAUEA POINT 1133	A	78.5		M		83	15			0	0	0	2.09		.55	7	.0	0				6	1	0
KOLOA 936	A									0	0	0	1.93	- 5.69			.0	0						
LIHUE WSO 1020.1 AP	//R	77.8	63.2	70.5	- 1.7	81	30	55	11	0	0	0	1.27	- 3.91	.58	16	.0	0				3	1	0
MANA 1026	A	79.3	64.1	71.7	- .4	89	27	53	31	0	0	0	2.21	- 1.09	.66	18	.0	0				4	2	0
N WAILUA OITCH 1051	A									0	0	0	7.26				.0	0						
PH WAINIHA 1115	A									0	0	0	3.38	-10.21	.97	3	.0	0						
PUEHU RIDGE 1040	A									0	0	0	3.79		1.42	17	.0	0				5	4	1
WAHIAWA 930	A									0	0	0	1.84	- 2.65			.0	0						
WAIHI LOWER 1054	A	76.0	56.8	66.4		79	19	47	11	0	0	0	3.94		.88	17	.0	0				7	4	0
WAIIMEA 947	A									0	0	0	2.27	- 1.08	1.11	17	.0	0				3	2	1
ISLAND																								
* * * ISLAND OF OAHU																								
HONOLULU OBSERV 702.2	R	80.0	63.1	71.6	- 2.0	84	30+	55	11	0	0	0	3.16		1.92	19	.0	0				3	2	1
HONOLULU WSO 703 AP	A									0	0	0	3.59	.60	2.50	18	.0	0				4	1	1
KAHUKU 912	A	79.6	67.5	73.6	.9	88	18	55	11	0	0	0	2.04	- 2.24	.89	19	.0	0				4	2	0
KANEHOE MAUKA 781	A	77.2	65.4	71.3	- .8	81	31	61	10	0	0	0	5.35	- 1.50	2.00	18	.0	0				5	3	2
KOOLAU OAM 833	A									0	0	0	5.70	- 4.30	1.75	18	.0	0				9	3	2
LUALUALEI 804	A	79.7	60.1	69.9		86	23+	53	11	0	0	0	3.30		1.64	18	.0	0				4	2	1
MAKAPUU POINT 724	A	74.3	65.1	69.7		79	18	59	21	0	0	0	2.35	- .96	1.87	19	.0	0				3	1	1
NUUANU RES 4 783	A									0	0	0	6.24	- 4.82	2.04	25	.0	0				11	2	2
OPAULA 870	A	76.6	57.7	67.2	- .3	82	5	51	12+	0	0	0	3.07	- 3.90	1.50	19	.0	0						
PALOLO VALLEY 718	R									0	0	0	5.34	- 7.97	2.32	18	.0	0				8	4	2
PRI WAHIANA 820.2	A	76.6	57.2	66.9		82	18+	49	12+	0	0	0	3.90		1.72	19	.0	0						
WAHIAWA OAM 863	A									0	0	0	3.62				.0	0						
WAIHOLE 837	A									0	0	0	7.23	- 7.06			.0	0						
WAIALEE 896.3	A	78.0	65.9	72.0		84	6	62	30	0	0	0	3.03		1.15	19	.0	0				4	3	1
WAIALUA 847	A	78.7	60.7	69.7	- 1.5	84	17+	54	11	0	0	0	3.20	- .74			.0	0						
WAIKIKI 717.2	A	80.3M	62.2M	71.3M		84	7	53	11	0	0	0	2.43		1.67	19	.0	0				2	2	1
WAIMANALO EXP FARM	A	78.6	63.5	71.1		82	3	56	14+	0	0	0	3.09		1.90	19	.0	0				6	1	1
WAIPAHU 750	A									0	0	0	2.97	- .57	1.65	19	.0	0						
ISLAND																								
* * * ISLAND OF MOLOKAI																								
KUALAPUU 534	A												3.36	- .90	1.69	19	.0	0						
MAPULEHU 542	A												2.62	- .88	1.25	19	.0	0						
MAUNALOA 511	A												2.77		1.30	19	.0	0				5	1	1
MOLOKAI AP 524	A	76.3	63.8	70.1		80	13	56	11	0	0	0					.0	0						
ISLAND																								
* * * ISLAND OF LANAI																								
LANAI CITY 672	A	M	M	M		79	18	54	14+	0	0	0	3.21	- .51			.0	0						
ISLAND																								
* * * ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A	60.1	41.4	50.8		68	30+	33	9	0	0	0	4.76	- 5.70	1.56	19	.0	0				6	4	2
HALEAKALA RS 338	A	78.2M	63.9M	71.1M		84	18+	57	20	0	0	0	4.56		1.78	19	.0	0				7	2	2
HANA AIRPORT 355	A									0	0	0	7.56		3.72	31	.0	0				8	2	2
HONOKOHUA 493	A	77.7M	64.5M	71.1M		82	18	59	13	0	0	0	3.45	- 1.20	1.70	19	.0	0						
KANAPALI AIRPORT	A									0	0	0	2.27		1.28	19	.0	0				5	1	1
KAHULUI WSO 398 AP	R	79.9	62.4	71.2	- 1.5	84	25+	55	13	0	0	0	2.17	- .53	.65	18	.0	0				7	1	0
KAILUA 446	A	77.4	61.0	69.2	.3	83	18	56	21+	0	0	0	6.92	- 4.93	1.51	19	.0	0				10	7	1
KEANAE 346	A									0	0	0	*				.0	0						
KIPAHULU 258	A									0	0	0	4.95	- 5.96	1.15	19	.0	0						
KULA SANATORIUM 267	A	70.2M	54.6M	62.4M	.1	77	18	50	13	0	0	0	3.16	.13	1.75	19	.0	0				11	4	2
LAHAINA 361	A	82.0	60.0	71.0		86	30	57	13+	0	0	0	2.13	- .16	.52	19+	.0	0				6	2	0
PAIA 406	A									0	0	0	2.60	- 1.62			.0	0						
WAILUKU 386	A	M	M	M		87	18	57	11	0	0	0	3.04	- 1.28	1.18	19	.0	0						
ISLAND																								
* * * ISLAND OF HAWAII																								
HAINA 214	A	76.1	63.2	69.7	- .5	83	19	57	20	0	0	0	6.94	- .76	1.50	20	.0	0				8	5	3
HAWAII VOLCNS NP HQ 54	R	65.5	51.5	58.5	- .2	74	18	44	20	0	0	0	4.80	- 5.34	.47	20+	.0	0				17	0	0
HILO WSO 87 AP	R	79.2	63.6	71.4	.1	86	18	58	20	0	0	0	4.01	-11.17	.83	28	.0	0				10	3	0
HUEHUE 92.1	A									0	0	0	6.85	- 4.49			.0	0						
KAINALIU 73.2	A	76.1	58.9	67.5		83	17	54	21+	0	0	0	3.91	.90	1.94	19	.0	0				6	2	1



See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 141

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation																	
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.							Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										41° or Above	31° or Below	32° or Below	0° or Below	0° or Below														
KEAAU 92	77.9	62.6	70.3	- .7	89	19	57	21		0	0	0	0	2.90	-13.27	.58	16	.0	0		9	1	0					
KEALAKEKUA 26.2	76.7	59.5	68.1		83	19	53	21		0	0	0	0	4.53		1.75	10	.0	0		5	3	2					
KONA (KAILUA) 68.3					85	18	60	20		0	0	0	0	3.89		1.89	19	.0	0		2	1						
KUKUIHAELE HIC 199														6.51	= 2.71	2.10	20	.0	0		9	4	2					
KULANI CAMP 79	63.2	44.4	53.8		77	21	38	6+		0	0	0	0	3.23		.50	16	.0	0		1	0						
PAHALA 21					83	26+	54	21		0	0	0	0	1.23		.35	15	.0	0			0	0					
POHAKULOA 107														2.64				.0	0									
PUAKO 95.1														3.54		1.83	19	.0	0		4	2	2					
PUU WAAWAA 94.1														4.61	= 2.91	1.91	19	.0	0				2					
UMIKOA 118	80.2	63.5	71.9		85	19	52	20		0	0	0	0	5.39	= 6.10	1.54	9	.0	0		3	2						
WAIKOA SCO 88.2														4.06		.70	28	.0	0		12	3	0					
ISLAND			66.4											4.32				.0										

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE:
89° ON THE 27+ AT 3 STATIONS

LOWEST TEMPERATURE:
29° ON THE 20TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION:
8.59 INCHES AT KANALOHULUHULU 1075, KAUAI

LEAST TOTAL PRECIPITATION:
.57 INCH AT KAALA IKI 12, HAWAII

GREATEST ONE-DAY PRECIPITATION:
3.72 INCHES ON THE 31ST AT HANA AIRPORT 355, MAUI

SPECIAL WEATHER SUMMARY

The month was mild and relatively uneventful for December -- a brief period of moderately high surf, a few funnel cloud sightings, seasonal snows on Hawaii's high mountains, a spell of cool weather, and unusually high atmospheric pressures. But perhaps more important than any of these was the continued absence of widespread winter rains, with persistent dry weather prevailing over much of the State.

On November 30, swell from a storm 800 miles to the north generated surf that reached heights of 15 to 20 feet on northern Kauai, 12 feet at Sunset Beach, Oahu, and 10 feet on Kahului, Maui. Although the waves did no damage and quickly subsided, seas remained rough for a few days, and on the 3d five persons had to be rescued at Waimea Bay, Oahu, including a young

soldier pulled unconscious from the water.

While cold fronts frequently reach the islands during the winter, four of them -- a greater number than usual -- completely traversed the island chain in December, moving through on the 2d to 3d, 7th to 9th, 16th to 19th, and 30th to January 1. Although these fronts brought relatively little rain, they were accompanied by gusty winds, which required the frequent hoisting of small craft warnings, as well as by unusually high atmospheric pressure, cool weather, and funnel clouds.

On the 20th, a high pressure area that followed a frontal passage gave all four Airport weather stations their highest sea-level pressures of record for December.

TABLE I

DECEMBER SEA-LEVEL PRESSURE MAXIMUMS (INCHES)

Airport Locations	December 1972	Previous December Maximum and Year	Years of Record
Honolulu	30.27	30.24 1970	24
Lihue	30.33	30.26 1960, 1965	23
Kahului	30.28	30.22 1969, 1970	11
Hilo	30.29	30.27 1952	22

Cold air in the wake of the fronts, aided by clear nighttime skies and light winds, sent the

month's average minimum temperatures well below December's long-term means.

TABLE II

DECEMBER AVERAGE MINIMUM TEMPERATURES

Airport Locations	December 1972	December Long-Term Mean	Years of Record
Lihue	63.2°	65.7°	23
Honolulu	63.1°	67.9°	26
Kahului	62.4°	64.8°	19

Daily minimum temperatures rose above long-term December average minimums on only 8 days at Honolulu, on 10 days at Lihue and on 7 days at Kahului. The month's lowest temperature, 55° F. at Honolulu, Lihue, and Kahului, approached within only a degree or two the lowest ever recorded there in December: 54°, 53°, and 52°, respectively.

Funnel clouds, most of them also associated with the cold fronts, were sighted on the afternoon of

the 3d over the Halemaumau fire pit at Kilauea Crater, Hawaii Volcano National Park; on the afternoon of the 17th over Kalihi Valley, Oahu; and on the afternoon of the 28th over the eastern slopes of the Waianae Mountains near Kunia, Oahu. None of these reached the ground.

On the morning of the 13th, however, at least five waterspouts in advance of an approaching cold front churned up the sea surface for about an hour and a half, as they formed and dissipated about

SPECIAL WEATHER SUMMARY - Continued

8 miles northwest of Barking Sands, Kauai.

From the night of the 14th and into the 15th, a heavy fall of snow blanketed Mauna Kea to about the 11,000-foot level, with drifts up to 2 feet deep in places. Although snow presumably fell on Mauna Loa as well, no reports were received to confirm this.

On the afternoon of the 17th, a 29-year-old man picking opihi, a shellfish, at Kawaihoa Point, Koko Head, Oahu, was drowned when swept off a ledge by a large wave and carried out to sea. Despite repeated drownings under similar circumstances, many of them well publicized and all preventable, they continue to occur.

The frequent frontal passages, each with its showers, still left the State drier than usual for the season. Since much of the rain was associated with the southwesterly winds that preceded the fronts, the islands tended to be relatively wetter in their western than eastern portions, a reversal of the usual pattern.

On Kauai, not a single gage reached its average December rainfall, with virtually all the eastern two-thirds of the island having less than half and in places less than one-fourth its monthly average. Oahu was similarly dry even in normally wet windward and mountain areas, with only a scattering of gages on the ordinarily dry western and southern coastal plains reporting their normal for the month

or a bit above.

Conditions on the central and southern islands were much the same. Maui's normally wet windward slopes had less than half their mean December rainfall, as did much of Molokai and Lanai. Hawaii Island was dry from the Kohala Mountains to Puna and southwestward to South Point, with most gages in those areas reporting well under half, and many less than one-fourth, their mean rainfall for December. In contrast, in most of the Kona District, rainfall was at or above its December average.

During the past two years (24 months) rainfall has been below its monthly mean for from 18 to 19 months along the northeastern coast of Hawaii Island from Kohala to Hilo and from sea level to elevations of 2,000 feet or more. In terms of the number of rainfall-deficient months, dry weather appears to have been more prolonged in 1971 than in 1972 in Kohala and the northern Hamakua coast, and in 1972 than in 1971 in the Hilo and southern Hamakua areas.

Long dry spells have also marked much of Maui. Thus, Kailua and Paakea in East Maui's rainy watershed have recorded rainfall deficiencies in 17 and 18 months, respectively, of the past 24, Haleakala Summit in 19, and Paia in 20. A number of other localities have been equally dry.

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DAILY PRECIPITATION

HAWAII
DECEMBER 1972

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
ANAOHA 1114	A	1.71	*	*	.15	.04			.14	*	*	.04				*	*	.75	.04		*	*					.12	.06					.37
ORYOESWOOD STA 985	A	3.78	*	*	.05		.01		.03							*	*	2.90	.07	T		*	*				.72						
EAST LAWAI 934	A	2.37							.15							*	*	1.78	.09		*	*					.35						
ELEELE 927	A	2.37			T				.10							*	*	2.14	.06		*	*					.07						
HALAULA 1110	A	1.45	*	*	.10	.05			.09	*	*	.10				*	*	.75	.07		*	*					.20	.03				.06	
HALENAHAO 1006	A	2.96	*	*	.04	.05	.10		.09	*	*	.01				*	*	1.76	.08		*	*					.72	.11					
HUKIPO 945	A	2.71	*	*					.52	*	*	.01	.02	.01	.01	*	*	1.30	.92	.09	*	*										.40	
ILILIIULA INTAKE 1050	A	5.20	*	*					.13	*	*	.01	.02	.01	.01	*	*	2.74	.05		*	*					.76	.35				.73	
INTAKE WAINIHA PC 1086	A	4.28	*	*					.12	*	*	.01	.02	.01	.01	*	*	1.30	.05		*	*					.02						
KANALOMULOMULU 1075	A	8.59		.03	1.18	.03	.01	.02	.01	1.30	.55	.04	.19	.50	.20		.02	2.55	1.29	.45		.01			.01	.02	.05	.02			.05		
KANEHA RESERVOIR 1092	A	2.37	*	*	.18	.02		.10	.18	*	*	.15				*	*	.60	.10		*	*					.50	.15				.39	
KAPAA STABLES 1104	A	1.76	*	*	.04				.13	*	*	.08				*	*	.88	.06		*	*					.40	.05				.16	
KEALIA 1112	A	1.17	*	*					.12	*	*	.08				*	*	.69	.05		*	*					.12					.15	
KEKAHA 944	A	2.39		.05	.20				.03				.06	.10			.75	.79	.05							.01				.05	.30		
KILAUEA 1134	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
KILAUEA FIELD 17 1135	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
KILAUEA POINT 1133	A	2.09		.48		.03			.55			.02	.05	.02		.04	.07	.06							.07	.02	.15	.03		.04	.17	.13	
KOLO 1033	A	2.42			.76				.17				.02				.30	.58	.07												.52		
KOLOA 936	A	1.93	*	*					.11							*	*	1.44	.08		*	*					.30						
KOLOA MAUKA 994	A	4.07	*	*		.06	.04	.13	.20							*	*	2.67	.08		*	*					.79	.10					
KOLOKO RES 1137	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
KUKUIULA 935	A	1.92	*	*					.14							*	*	1.91	.13	T		*	*								.14		
LIHUE VARIETY STA	A	2.15	*	*	.03				.13	*	*	.03				*	*	1.10	.09		*	*			.08		.05	.31	.09		.18	.15	
LIHUE 1020	A	1.78	*	*	.03	.01	.01		.04	*	*					*	*	1.07	.04		*	*					.49	.01		.01		.08	
LIHUE WSD 1020.1 AP	//R	1.27		.03		T	T	T	T	.01						.58	.26	.15							T	.04	.02	.08	.01	T	.01	.07	
HAKAHUENA POINT 940.1	A	1.71			.12	.01			.02								.27	.74	.13							.03	.20		.06		.01	.29	
HAKANELI 965	A	2.48	.02	.02					.02							.94	1.10	.03								.06	.02		.01	.29	.01	.31	
HANA 1026	A	2.21	*	*	.04				.02				.02				.36	.66	.06							.02					.05	.01	
HOMIHI UPR CROSS 1083	A	14.83	*	*					.58	*	*		10.10	.09		2.05	.98	.30	.09							.18		.09			.89		
HOLOAA 1145	A	2.06	*	*	.58				.58	*	*			.01			.45	.10								.16	.04				.14		
HOUNT MAIALEALE 1047	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NTU RIDGE 1035	A	3.44	*	*	.75				.14				.17				3.11	.05	.01							.05					.48		
N WAIUUA DITCH 1051	A	7.24	*	*	.17	.01	.15		.01	1.22	.02		.04				.06	.58	.04							.15				.91			
PH WAINIHA 1115	A	3.38	*	*	.97	T	T	.01	.36	.02	.01	.24	.11	.15		.05	.14	.37						.02	.02	.41	.02		.01	T	.48		
PRINCEVILLE RANCH 1117	A	*	.01	*	*	.79	.02		.04				.11				.09								.12		.32	.06		.03	*		
PUEHU RIDGE 1040	A	3.79	*	*	.53				.05				.08			1.42	.81	.14								.07				.72			
PUHI 1013	A	2.80	*	*	.07		.04		.32							*	*	1.51	.07		*	*				.72	.07						
RESERVOIR 6 1004	A	3.26	*	*	.05	.03	.10		.01	.05						*	*	2.25	.07		*	*				.61	.09						
WAHIAHA 930	A	1.84	*	*					.02							*	*	1.68	.10		*	*				.04							
WAIHANA MOUNTAIN 990	A	6.50	*	*												*	*				*	*									6.50		
WAIAMI LOWER 1054	A	3.94	*	*		.01	.01		.29							.40	.88	.70						.10	.05		.82	.07			.61		
WAIAMI UPPER 1052	A	4.33	*	.03			.03		.02	.02			.21			.10	1.55	.77	.05					.05	.05	.05	.69	.30		.15	.30		
WAIANA 943	A	2.53	*	*	.43				.08								.46	.58	.04							.06				.02	.45		
WAILUA KAI 1065	A	1.69	*	*	.03	.02							.06				.71	.08								.51	.06				.22		
WAIWEEA 947	A	2.27	*	*					.02							1.11	.80	.08													.26		
WEST LAWAI 931	A	1.79	*	*					.08							*	*	1.46	.11		*	*											
* * * ISLAND OF OAHU																																	
BERETANIA PUMPING STA	A	2.48	.02	.06		.01			T							.05		.87	1.35	T						.05			.12				
CAMPBELL IND PK 702.5	A	2.86	T	.02													.30	.73	1.70							.05			.01	T			
CAMP 84 8017	A	4.39	*	.05	.47							.03				.03		2.10	1.62							.06							
CHURCH COLLEGE LAIE	A	2.58	*	*	.31		.01		.29			.09	.03				.70	.61							.04		.04	.03	.03		.04		
CDCONUT ISLAND 840.1	A	3.01	.01	.01					.07	.18						.01		1.14	1.54						.01		.04				.01		
EWA PLANTATION 741	A	*	*		.05							.31	*	*		.02	*	1.09	1.66		*	*				.10							
HELEMANU INTAKE 881	A	3.70	*	*	.02							.31	*	*		.02	*	1.32	1.70		1.49	*	*			.53							
HOKULOA 725.2	A	5.83	*	*								.31	*	*		.02	*	2.85	*		*	*			1.76						.84		
HONOLULU OBSERV 702.2	A	3.16	*	.06	.01				T	.01						.02	.30	.71	1.92							.06			.01	.01			
HONOLULU WSD 703 AP	R	3.59		.03	.31											T	.02	.46	2.50	.04	T	T		T	T	.07	T			.15			
HONOLULU SUBSTA 704	R	2.21		.04					T							.02	.06	1.82	.05									.02		.10			
H S P A EXP STA 707	R	2.70		.02	.02				T							.02	.05	.82	1.47											.20			
KAENA POINT 841.3	A	12.27	*	*					.46	*	*					.81	*	*															
KAHANA 883	A	2.04	*	*	.12				.12								.83	.89									.08						
KAHUKU 912	A	2.04	*	*	.12				.12								.83	.89									.08						
KAILUA FIRE STA 791.3	R	2.20	T	.02	.02	.04	.01	.02	.02	.16						.01	.10	.10	1.83							.02	.42	.72	.06	.02	.22		
KALIMOI RES SITE 777	R	5.94	*	*	.05				.02	.16						.92	.88	2.34	.04						.02	.42	.72	.06	.02	.22	.10		
KANEHE MAUKA 781	A	5.35	*	.09	.06				.03	.12						.01	.63	2.00	1.97	.01					.06	.04	.20	.02	.06	.03	.02		
KAPALAHUA 773	A	3.43	*	*	.05				.03							.03		.83	1.83								.40						
KAWAIHAPAI 841	A	3.45	*	*	.30				.13	*	*		.06			.01		2.93	*		*	*				.02							

DAILY PRECIPITATION

HAWAII
DECEMBER 1972

Continued

Station	Total	Day of Month																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF HONOLULU																																			
ISLAND OF HONOLULU																																			
KALAUAPAPA 563	A	6.29	.67	2.70						.03						.13			.78	1.64			.02	.02	.05	.18			.01	.06					
KAUNAKAKAI 536	A	2.61														.09			.93	1.03															
KEONELELE PEAKS 551	A	3.38			1.20														.46	1.69															
KALAPALAPA 536	A	3.38			.62					.01				.40					.46	1.69							.04					.07			
MAPULEHU 542	A	-																																	
MAUNALOA 511	A	2.62								.04					.14					.49	1.25							.02	.02						
HONOLULU AIR 524	T	2.77			.38					.01	.28	T	T			.38			.40	1.30	T					.02	T								
PUUOHOKU RANCH 542.1	A	1.51			.61					.08	.52															.20	.01			.05	.04				
WAIKOLU 540	A	9.20												4.45																					
ISLAND OF LANAI																																			
LANAI 690	A	3.09								.23																						.16			
KAUHALAPAU HARBOUR 658	A	2.02			.05										.06																				
LANAI CITY 572	A	3.21			.16									.13					1.61	1.86									.15						
LANAI MALE 664	A	1.90								.35																						.15			
MAHANI 694	A	3.83								.20									.30													.15			
MAHAUEA 676	A	2.00								.10																						.08			
WAIKAEKUA 685	A	3.45																																	
ISLAND OF MAUI																																			
MAUI 252	A	5.10																	.58																
HALEAKALA 8 E S 434	A	4.76			.32	.02		.02		.03	1.28	.02						.61	.02							.05	.01	.01	.11	.05	.02	.03			
HALEAKALA RANCH 432	A	3.51			.21	.01								1.02				.48																	
HALEAKALA RS 338	A	4.56			.24	.01												.40																	
HALEAKALA SUMMIT 338.4	A	3.63			.05									.04				.04																	
HALEAKALA RANCH 432																																			
HALEAKALA RANCH 432	A	4.52			.55									1.05				.31																	
HAMA KAPOKO 485	A	3.84			.20	.01		.04		.02	.67	T						.31	.05							.05	.27	.10	.22	.01	.23				
HANA 356	A	5.30			.24	.07		.04		.04	.32	.04	T					1.75																	
HANA AIRPORT 355	A	7.56	.04	.02	.14	.03	.02	.02		.04	.32	.04	T	.07	T			.41										.23	.12	.11	T	.07			
HANAHULI 281	A	4.59			.34	.02												.83	.49	.05	.12	.77	.68	.02			.03	.04	.50	.05	T	.27	.02		
HONOLULU CABIN 259.5																																			
HONOLULU CABIN 259.5	A	3.81								.08																									
HONOKOHU 480	A	7.80																																	
HONOKOHU 493	A	3.45			.25									.45				.11																	
HONOHU GULCH 341	A	3.80																																	
KAANAPALI AIRPORT	A	2.27			.32						T	.21																							
KAHOHOLA INTAKE 374																																			
KAHOHOLA INTAKE 374	A	2.00																																	
KAHULUI HSI 198 AP	R	2.17	T	T	.11					.05	.14	.02						.25	.08	.10	.65	.49						.02							
KAILIHI 430	A	6.62			.05													.25	.07																
KAILUA 446	A	6.92			.51						.73	.02						.66	.04								.01	.02	.35	.76	.04	.01	.65	.41	.02
KAUAUUA INTAKE 375	A	4.54			.55	.02	.01							.17																					
KEANAE 410																																			
KEANAE 410	A	3.20	T		.21						.43	.01						.34	.08	T															
KEANAE 346	A																																		
KEANAE BEACH 260.2	A	1.47			.34						.03							.35	.01																
KIHEI 311	A	1.82			.05						.14							.25	.07																
KIPAHULU 258	A	4.95			.18									.17				1.02	.09									.20	.16	.22	.12	.21	.93		
KULA HEIGHTS 323.2																																			
KULA HEIGHTS 323.2	A	3.71			.47						.80							.56	.05																
KULA SAMATORIUM 267	A	3.15			.57	.01	T				.04							.47	.05	.01	.06	1.75	.20												
LANAI 361	A	2.13			.21						.16							.14																	
LAUNIUPOKO INTAKE 376	A	5.60																																	
LAUNIUPOKO VILLAGE 372	A	2.19			.22						.02							.12																	
LUPUI UPPER 442																																			
LUPUI UPPER 442	A	7.80																																	
MAHINAHINA 466	A	2.55			.60						.22							.14																	
NAKALELE - FLO 60-497	A	3.44			.05		T				.55																								
OLIHOU 332	A	5.46	.01	T	.47	T		T	T	1.20	.07	T	T	T	T	1.29	.03	1.65		.70	.01	T													
OLOHU 296	A	1.53			.26													.19		.03	.31	.66	.08												
PAALAA 350																																			
PAALAA 350	A	6.65	.04		.24	.05			.03		1.35							.42	.10		.05	1.04	.33				.10	.26	.89	.03	.30	.50	.92		
PANILEI 406	A	2.60			.14		T	.03			.41							.28	.04	.01	1.14	.37					.01	.26	.09	.03	T	.02			
PANILEIHU 259.2	A	12.47			.05																														
POHAKA BRIDGE 307.2	A	1.93			.05									.15				.25																	
POLIPOLI SPRINGS 267.2	A	4.88																																	
PUUOHOKA 2 343																																			
PUUOHOKA 2 343	A	9.00																																	
PUUENE 396	A	2.31			.12						.04	.24						.22	.07		.31	.97	.30												
SPRECKELSVILLE 400.2	A	1.97			.11		T				.17							.20	.05	.02	.98	.34													
TWIN GATES 201.3	A	2.95			.50																														
UKULELE 333	A	5.61																																	
UKUMEHAME 301																																			
UKUMEHAME 301	A	1.00			.17																														

DAILY TEMPERATURES

HAWAII
DECEMBER 1972

Station	Day of Month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																
KAHALOHULUHU 1075	MAX	61	58	59	60	63	61	64	55	58	55	59	58	57	58	63	62	58	55	63	66	64	68	67	68	65	65	63	66	63	60	
	MIN	43	46	48	46	48	46	43	45	48	49	41	46	45	49	50	52	57	54	46	48	45	44	53	46	52	52	44	39	37	44	
KILAUEA POINT 1133	MAX	80	74	78	78	79	79	79	78	75	75	78	80	79	81	83	79	78	80	80	80	79	78	78	78	78	79	78	80	79	81	
	MIN																															
LIHUE WSO 1020.1 AP	MAX	78	80	78	78	78	78	77	76	76	76	76	77	78	77	80	76	77	77	75	78	77	78	78	80	79	79	79	78	80	81	
	MIN	58	65	61	61	66	65	61	64	61	56	55	58	59	58	61	70	70	62	59	58	70	72	69	67	70	71	66	64	63	56	
MAKAHUEA POINT 940.1	MAX	81	83	83	83	77	79	81	74	82	77	79	80	80	82	78	83	76	81	77	79	80	77	76	78	83	81	78	81	77	80	
	MIN	59	68	62	61	63	66	64	62	67	60	58	59	61	64	64	66	71	67	60	59	59	69	65	68	69	63	65	69	66		
MANA 1020	MAX	76	80	75	84	80	81	80	88	79	78	78	78	77	77	78	80	78	76	75	76	76	80	82	75	78	80	89	80	79		
	MIN	61	67	62	67	65	62	64	63	62	64	65	66	66	66	68	69	62	59	62	61	62	69	68	69	64	69	67	56	61		
NIU RIIOE 1035	MAX	74	76	77	78	78	78	80	78	76	77	77	74	74	75	75	77	75	78	78	78	78	78	78	78	77	78	80	80	77	80	
	MIN	56	57	58	57	56	55	58	59	54	55	55	57	58	58	59	60	58	59	60	57	53	53	57	57	58	60	57	55	54		
WAI'AI LOWER 1054	MAX	76	78	77	76	76	77	76	76	69	74	74	75	75	76	78	75	75	78	79	76	78	76	76	78	72	76	78	74	76		
	MIN	51	52	52	53	55	58	55	55	50	53	47	49	50	51	54	65	64	63	64	48	64	63	63	64	63	65	61	63	64		
ISLAND OF OAHU																																
EWA PLANTATION 741	MAX	81			80	79	82	81	83			79	79	81	80	78			82	73	75	77	78				83	80	79			
	MIN	58			59	60	61	60	61			53	55	56	57	58			60	61	58	59	63				63	62	60			
HONOLULU WSO 703 AP	MAX	78	81	82	80	80	80	81	79	79	78	79	81	82	78	79	81	80	74	78	78	79	81	82	84	82	82	81	80	81		
	MIN	58	68	62	61	61	63	61	61	61	57	55	57	58	64	64	63	71	66	58	56	68	70	71	68	65	70	68	64	65		
HONOLULU SUBSTA 704	MAX	76	79	77	75	75	78	76	76	75	76	78	80	79	76	76	79	78	71	73	74	74	77	78	79	77	78	78	77	78		
	MIN	64	68	64	65	66	67	65	65	66	62	63	63	62	65	65	68	71	64	63	62	69	70	70	70	70	71	70	68	70		
KAHUKU 912	MAX	78	80	82	83	78	78	78	78	77	76	82	78	78	80	79	80	88	76	79	79	81	80	80	81	79	80	82	79	82		
	MIN	58	62	72	75	68	66	66	66	66	65	55	68	58	60	65	68	68	68	67	68	69	71	72	71	81	72	72	75	73		
KANEOHE MAUKA 781	MAX	78	78	77	76	78	78	77	78	79	75	76	78	78	78	76	80	78	78	73	74	76	77	77	78	76	73	78	78	79		
	MIN	63	65	64	65	63	65	63	64	66	61	64	63	64	63	67	65	73	68	66	62	64	68	69	70	70	67	66	67	68		
LUALUALEI 804	MAX	78	75	80	80	84	83	80	74	79	80	79	86	86	80	79	77	78	71	77	79	80	80	86	80	83	77	80	78	82		
	MIN	56	57	58	61	61	61	59	61	59	58	53	56	56	55	60	62	60	59	59	59	64	64	70	62	60	70	64	62	60		
MAKAPUU POINT 724	MAX	74	77	75	73	75	74	73	74	73	73	74	76	65	75	75	77	76	79	72	72	73	73	74	74	76	73	75	75	75		
	MIN	65	68	63	64	66	66	65	63	64	63	63	63	61	61	65	67	72	68	63	65	59	67	61	69	69	63	65	70	65		
UPAEULA 870	MAX	80	77	79	81	82	80	70	80	79	81	75	80	79	79	71	79	70	69	65	70	80	70	75	77	79	79	76	79	80		
	MIN	53	55	59	64	51	55	54	56	59	62	52	51	52	54	54	57	55	60	55	54	55	56	60	66	63	63	66	62	62		
PRI WAHIAWA 820.2	MAX	75	78	74	79	75	78	78	78	71	72	75	77	75	75	76	82	75	82	70	70	75	77	77	77	79	80	78	80	81		
	MIN	52	53	58	53	60	58	56	57	60	53	49	49	52	54	55	58	68	67	56	54	53	62	66	64	60	59	58	58	56		
WAI'ALEE 896.3	MAX	76	79	80	78	78	84	78	78	78	77	76	77	78	80	77	79	83	79	72	75	77	77	71	79	79	78	77	79	80		
	MIN	63	66	65	66	67	67	64	65	64	63	65	66	63	66	65	67	70	69	66	63	65	69	67	69	69	68	67	65	67		
WAI'ALUA 847	MAX	76	80	80	84	78	78	77	77	72	75	75	77	76	77	79	81	84	79	81	81	75	77	80	81	81	79	80	80	78		
	MIN	57	60	63	62	60	59	60	61	63	60	54	55	57	60	61	60	72	66	64	55	56	60	66	64	60	70	59	59	60		
WAIKIKI 717.2	MAX	81	80	81	81	80		84	82	78		79	78	79	79	79	82	82	74	76	79	79	81	82	83	83	81	81	81	83		
	MIN	56	65	59	60	62		60	60	63		53	56	57	55	62	62	72	68	64	55	59	70	70	68	63	65	67	65	67		
WAIMANALO EXP FARM	MAX	78	78	82	77	77	78	78	78	79	78	77	78	78	78	78	79	78	80	80	80	80	80	78	79	79	75	78	79	80		
	MIN	59	62	62	61	65	64	61	61	61	62	56	56	56	56	62	64	73	69	64	61	62	70	69	71	70	69	70	66	67		
ISLAND OF MOLOKAI																																
MOLOKAI AP 524	MAX	76	77	77	76	76	71	75	76	75	74	76	80	76	76	74	78	78	73	75	75	75	75	77	79	78	77	77	79	78		
	MIN	58	61	67	67	61	62	65	64	65	67	56	59	59	57	57	62	70	70	63	65	67	69	69	66	66	68	66	63	64		
ISLAND OF LANAI																																
LANAI CITY 672	MAX	75			78	77	78	76	76			76	76	75	74	74			79	70	68	67	70			76	72	75	76			
	MIN	56			58	58	58	55	54			54	57	55	54	55			57	57	55	55	59			58	58	58	59			
ISLAND OF MAUI																																
HALEAKALA RS 338	MAX	58	61	57	53	65	65	62	54	57	57	52	50	54	62	64	57	62	64	62	51	62	67	61	68	65	61	60	65	63		
	MIN	41	42	42	42	42	41	38	38	33	34	41	43	44	44	42	43	51	52	43	35	45	50	46	46	40	36	37	39	37		
HALEAKALA SUMMIT 338.4	MAX	56	48	44	47	54	56	58	49	44	50	42	42	45	50	52	45	48	48		42	52	51	54								
	MIN	43	38	36	35	43	46	40	36	35	32	32	32	36	33	34	33	38	42	34	37	42	40	40								
HANA AIRPORT 355	MAX	77	80	81	76	77	77	79	80	79	74	74	75	77	75	77	78	84	84	81	75	77	77	78	81	80	79	78	78			
	MIN	64	64	66	62	63	62	60	62	62	60	59	62	62	62	64	61	62	68	63	57	62	65	69	65	68	71	68	69	68		
KAANAPALI AIRPORT	MAX	77	79	80	77	77	77	78	77	77	75	76	76	77	76	76	76	79	82	77	73	75	77	78	80	80	81	79	79	80		
	MIN	63	70	66	61	60	63	61	63	66	63	62	62	59	61	64	68	74	72	64	63	60	69	71	65	65	67	61	64			
KAHULUI WSO 398 AP	MAX	84	84	79	80	79	79	79	78	78	76	77	78	79	80	78	80	84	82	74	78	80	80	80	83	84	81	82				

Continued

DAILY TEMPERATURES

HAWAII
DECEMBER 1972

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KULA SANATORIUM 267	MAX	72	76	73	72	68	63	68	69	68	67	70	69	71	75	74	67	75	77	69	64	69	70				72	69	70	72	68	71	68	69
	MIN	57	57	56	52	53	53	53	54	54	53	52	53	50	54	56	57	64	64	56	52	52	53				55	56	55	51	52	54	55	56
LAHAINA 361	MAX	83	82	83	83	84	83	83	82	82	83	80	82	82	79	79	81	83	78	74	80	83	84	85	84	84	84	81	84	85	86	75		
	MIN	61	62	59	57	59	59	59	60	62	57	59	59	57	58	60	62	63	63	61	60	59	59	59	60	61	61	61	60	61	60	61		
WAILUKU 386	MAX	78			84	77	76	77	77				77	76			77	79	80				87	78	73	75	77			79	79			
	MIN	63			62	62	62	62	62				57	61			58	59	60				62	63	62	66	67			65	62			
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX	79	78	78	70	74	77	77	78	79	72	75	74	73	75	75	76	78	81	83	67	76	75	74	76	79	77	72	77	77	77	79		
	MIN	61	62	63	64	63	65	63	62	63	63	63	65	64	62	62	62	64	66	65	57	58	65	65	64	65	66	64	62	65	61	64		
HAWAII VOLCNS NP HO 54	MAX	69	70	62	64	60	66	65	67	65	67	60	62	70	64	65	61	68	74	67	60	66	72	70	61	69	67	64	66	63	62			
	MIN	49	54	55	53	55	56	45	53	50	50	53	56	52	49	50	51	50	60	59	44	46	51	52	50	50	50	52	52	53	51	47		
HILO WSO 87 AP	MAX	80	79	78	78	78	79	81	80	78	77	78	78	79	79	72	79	81	86	75	77	79	80	79	81	82	79	81	79	81	80	83		
	MIN	59	59	61	63	64	66	60	61	66	67	67	66	64	63	67	62	61	65	66	58	59	61	67	65	66	65	65	66	66	65	61		
KAINALIU 73.2	MAX	76	78	77	77	77	76	74	77	78	78	73	75	74	77	77	69	83	82	82	66	75	73	75	76	77	77	77	77	76	75			
	MIN	58	61	61	60	60	60	58	58	58	60	58	62	60	58	60	54	63	68	60	54	54	55	57	59	59	58	59	59	58	59	58		
KAMUELA 192.2	MAX	75	73	70	68	68	70	72	74	73	64	70	73	68	73	73	67	68	75	78	62	63	65	65	68	76	74	67	70	74	72	75		
	MIN	45	48	56	54	53	52	50	48	51	56	54	55	49	54	58	57	54	55	58	49	53	54	55	49	47	50	55	45	48	45	47		
KEAAU 92	MAX	80	79	79	75	75	77	78	80	80	75	77	76	76	78	78	69	80	83	89	70	75	78	79	77	79	80	78	79	77	80			
	MIN	59	59	63	63	63	64	61	61	60	63	64	65	63	62	62	60	60	65	69	58	57	62	64	66	65	63	63	64	65	63			
KEALAKEKUA 26.2	MAX	78	80	77	79	79	78	72	77	78	78	72	77	75	78	77	70	80	82	83	66	75	75	76	77	77	78	77	76	77	77			
	MIN	59	61	62	60	61	60	58	59	60	62	58	63	60	59	62	58	64	68	62	55	53	56	57	60	60	59	59	56	58	59	58		
KOHALA MISSION 175.1	MAX	79	78	82	74	77	74	77	77	78	73	74	86	72	76	79	75	82	84	84	66	73	74	75	75	79	78	74	77	76	76	79		
	MIN	61	61	63	65	63	61	62	62	62	64	61	64	63	61	62	62	66	70	62	67	66	65	65	65	65	65	65	60	61	60	60		
KONA (KAILUA) 68.3	MAX	82			83	84	84	81	82				84	80	81	82	81			85	83	72	79											
	MIN	67			64	65	68	67	66				66	68	67	67	65			65	66	60	63	64										
KULANI CAMP 79	MAX	63	56	65	61	55	60	64	60	61	57	59	65	65	59	69	67	60	72	70	61	77	63	66	66	65	62	63	62	61	62	60		
	MIN	38	43	44	45	43	38	39	42	42	42	45	49	42	42	40	43	46	55	53	42	44	45	49	44	50	42	45	45	48	47	43		
HAUNA LOA SLOPE 085	MAX	56	56	55	54	56	54	60	54	57	51	51	53	58	54	39	45	49	50	46	45	49	51	54	53	53	55	53	56	51	53	48		
	MIN	41	40	37	35	35	35	35	41	40	35	40	36	38	37	34	35	34	38	33	29	33	35	36	33	34	33	36	36	34	31	35.6		
MOUNTAIN VIEW 91	MAX	77	76	76	76	70	73	74	75	76	76	76	69	71	73	74	80	80	80	83	67	69	73	87	87	87	87	70	74	71	76	76		
	MIN	53	54	54	59	58	58	54	54	56	56	56	60	58	56	56	56	56	56	66	48	49	57	59	59	59	59	58	60	61	58	58		
NAALEHU 14	MAX	80			83	75	78	77	77				80	79	75	76	77			85	84	76	78	78										
	MIN	61			62	61	63	65	62				62	66	66	64	66			62	71	59	59	64										
OKALA 223	MAX	79	78	78	69	71	75	76	77	76	71	73	74	76	75	76	73	78	82	85	68	76	76	76	76	78	79	73	78	78	79			
	MIN	63	63	64	64	63	64	62	63	63	63	63	63	64	63	63	63	64	68	67	59	59	60	64	64	68	61	65	65	65	63			
OPIHIHALE 2 24.1	MAX	75	77	76	75	75	72	75	73	75	71	73	74	75	76	68	81	80	85	67	70	77	74	75	77	75	75	73	74	73	75	81		
	MIN	55	61	57	58	58	57	55	56	57	58	58	59	58	58	55	56	60	62	54	52	52	54	56	57	57	58	56	55	56	57			
PAHALA 21	MAX	79			81	74	79	78	76				80	80	73	72	76			83	82	75	78											
	MIN	59			59	59	59	62	60				60	63	67	62	63			60	68	56	54	58										
PUAKO 95.1	MAX	81	80	79	79	84	83	80	80	82	84	78	80	76	79	79	75	83	84	85	68	80	81	80	78	81	80	83	82	80	81	80		
	MIN	62	62	65	62	67	64	65	62	65	68	65	67	63	65	65	61	63	68	67	52	54	62	70	65	63	65	65	61	64	60	63		
UPOLU POINT USCG 159.2	MAX	81	80	80	77	79	78	79	80	79	77	78	79	79	78	80	80	81	84	83	71	77	78	78	87	89	80	78	78	80	78	84		
	MIN	66	65	67	68	67	68	69	67	67	67	67	70	67	68	65	66	76	77	66	64	71	72	64	67	70	68	68	67	66	65	67		

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.09	.14	.10	.14	.22	.19	.16	.07	.30	.32		.10	.12	.18	.20	.12	.14	.03	.07	.23	.15	.29	.23	.26	.19	.13	.29	.17	.11	.10	.18	
	WIND	54	71	47	42	96	89	56	43	81	79	69	64	56	65	57	97	129	47	40	67	126	174	189	122	105	152	186	91	51	63	60	
	MIN	55	55	59	60	59	63	60	60	58	56	56	52	52	55	56	59	67	66	58	55	54	62	64	66	66	67	66	62	62	62	62	
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.26	.16	.18	.19	.15	.16	.17	.13	.19	.19	.22	.21	.21	.17	.21	.22	.07	.09	.15	.15	.15	.24	.15	.15	.06	.21	.19	.11	.09	.21	
	WIND	18	28	28	16	4	0	4	11	17	10	9	16	15	12	5	16	58	3	13	19	9	14	22	10	8	2	11	3	4	2	16	
	MIN	56	64	59	58	58	57	57	58	54	53	53	53	53	55	57	59	61	65	59	52	51	56	58	62	60	60	59	59	59	57	57	

See Reference Notes Following Station Index

PRECIPITATION MEASURED IN STORAGE GAGES

HAWAII
DECEMBER 1972

Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground	
494	1972			LAWAHA MAUI	1972			ISLAND OF MAUI (CONTINUED)	1972			
	JAN 29	14.00			JAN 29	4.00			KUKUI 380	JAN 29	24.75	
	FEB 9	1.00			FEB 26	1.50				FEB 26	40.40	
	MAR 31	10.00			MAR 30	6.50				MAR 30	13.00	
	APR 29	1.00			APR 29	11.00				APR 29	36.00	
	MAY 31	9.00			MAY 28	4.00				MAY 28	19.60	
	JUN 30	10.00			JUL 3	4.00				MAY 28	19.60	
	JUL 31	1.20			JUL 31	4.20				JUL 3	20.40	
	AUG 30	8.00			AUG 30	10.00				JUL 31	19.00	
	SEP 30	11.00			SEP 30	2.00				AUG 30	26.00	
	OCT 31	1.00			NOV 4	9.00				SEP 30	11.00	
	NOV 30	1.40			DEC 3	6.50				NOV 4	30.00	
DEC 31	1.00		DEC 28	7.00			DEC 3	20.00				
TOTAL		107.10		TOTAL		85.70		TOTAL		272.15		
494	1972			HONOLUA FLD 49 494	1972			MOKUPEA 475	1972			
	JAN 31	10.00			JAN 31	2.32				JAN 31	3.70	
	FEB 29	17.60			FEB 29	6.13				FEB 29	11.93	
	MAR 31	1.00			APR 3	5.41				APR 3	5.72	
	APR 29	17.60			MAY 1	2.55				MAY 1	13.80	
	MAY 31	7.20			MAY 31	.64				MAY 31	2.45	
	JUN 30	7.80			JUN 30	1.04				JUN 30	2.53	
	JUL 31	7.80			JUL 31	1.34				JUL 31	3.32	
	AUG 31	7.00			AUG 31	3.39				AUG 31	7.30	
	SEP 30	1.0			OCT 2	1.79				OCT 2	1.60	
	OCT 31	1.00			OCT 30	2.79				OCT 30	5.00	
	NOV 30	1.00			NOV 30	1.86				NOV 30	2.20	
DEC 31	2.40		DEC 29	4.11			DEC 29	5.58				
TOTAL		111.40		TOTAL		33.37		TOTAL		65.13		
352	1972			PUU PAKI 352	1972			WAILUA IKI 348	1972			
	MAR 30	49.00			MAR 30	49.00				MAR 30	35.00	
	JUN 30	41.00			JUN 30	41.00				JUN 30	49.00	
	SEP 30	40.00			SEP 30	40.00				SEP 30	29.00	
DEC 29	36.00		DEC 29	36.00			DEC 29	37.00				
TOTAL		166.00		TOTAL		166.00		TOTAL		150.00		

See reference notes following Station Index.

LATE REPORTS DAILY PRECIPITATION

HAWAII

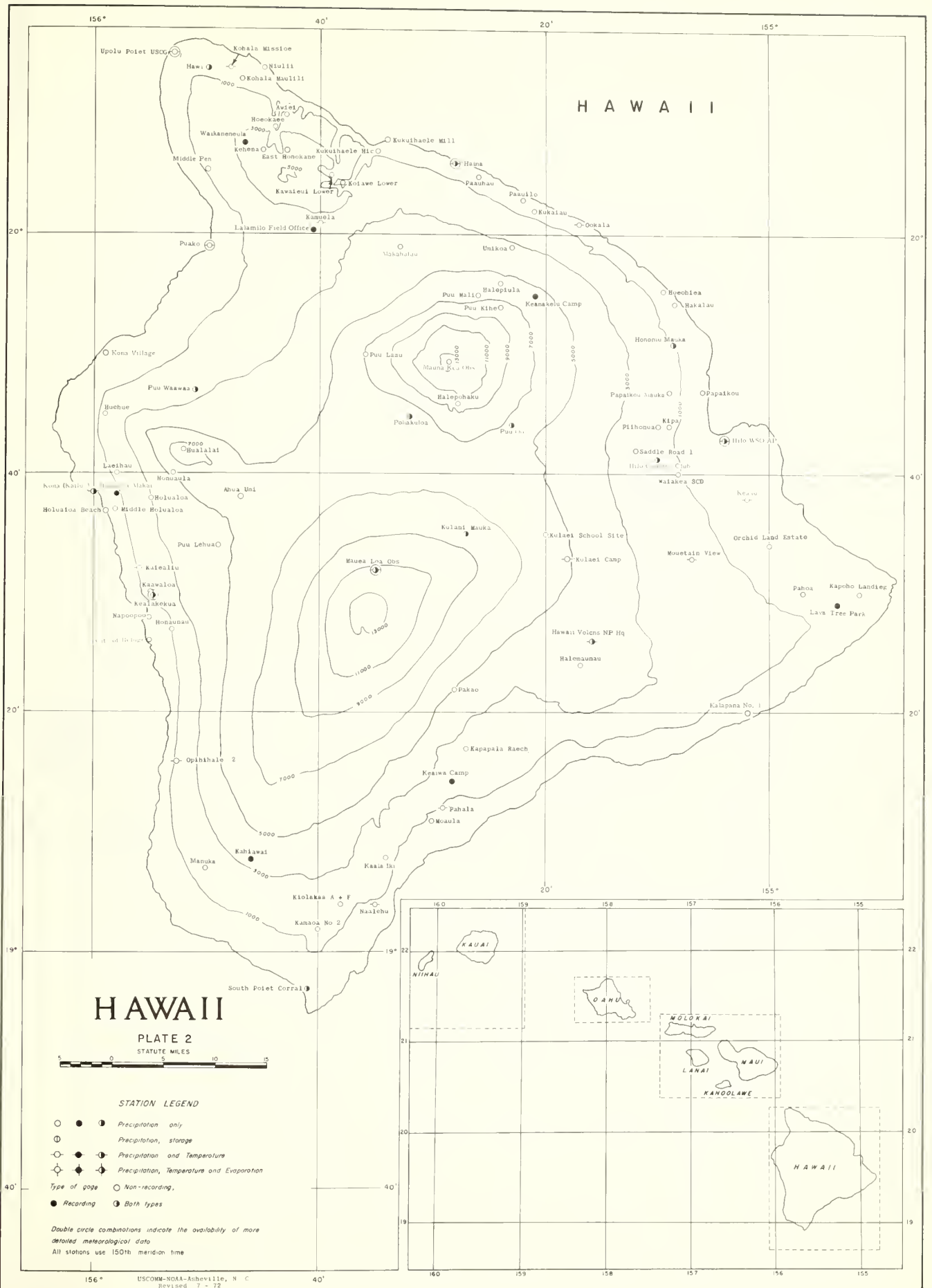
Continued

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
• • • MARCH 1972																																		
MOUNT WAIALEALE 1047 R	8.66	3.27	3.50	.31	.28	.04	.04													.24	.04	.94												
• • • APRIL 1972																																		
MOUNT WAIALEALE 1047 R	57.75		.35	1.85		.79	3.70	.16	.71	4.21	.51	.43	.47	1.30	9.02	8.94	1.61	4.25	7.80	3.31	2.20	.55	1.18	.28	.31	.20	.39	.35	.91	1.85	.12			
• • • MAY 1972																																		
MOUNT WAIALEALE 1047 R	24.02	.71	.24	1.02	.04			1.06	.08	1.22	.20	.39	1.77	1.54	3.78	1.57	.16	.20	.08		1.06	3.43	.31	1.02	.51	.04		.87	1.57	.91	.24			

STATION INDEX

HAWAII DECEMBER 1972

Main data table with columns: STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER, STATION, INDEX NO., DIVISION, DISTRICT, DRAINAGE, LATITUDE, LONGITUDE, ELEVATION, OBSERVATION TIME AND TABLES, OBSERVER.



156°

140°

120°

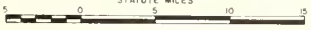
155°

HAWAII

HAWAII

PLATE 2

STATUTE MILES



STATION LEGEND

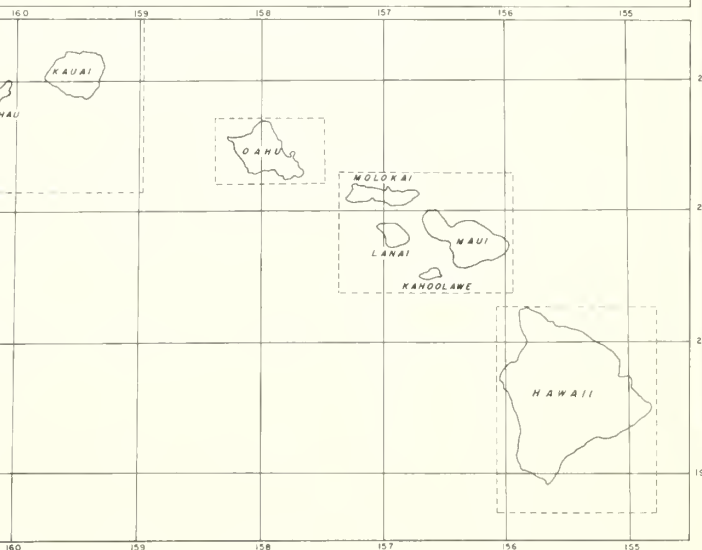
- ● ● Precipitation only
- ⊙ Precipitation, storage
- ⊙ ● ● Precipitation and Temperature
- ⊙ ● ● Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording
- ⊙ ● Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time

156°

USCOM-NOAA-Anneville, N.C.
Revised 7-72

140°



160

159

158

157

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155

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14

HAWAII

U. S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N. C. 28801

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

210



FIRST CLASS

CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

ANNUAL SUMMARY 1972

Volume 68 No. 13

A UNITED STATES
DEPARTMENT OF
COMMERCE
PUBLICATION



Table 1

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual			
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure		
ISLAND OF KAUAI																												
KANALOHULUHU 1075	54.3	55.4	56.5	59.2	61.0	62.5	63.8	65.7	68.0	70.0	71.8	73.6	75.4	77.2	79.0	80.8	82.6	84.4	86.2	88.0	89.8	91.6	93.4	95.2	97.0	98.8	100.6	102.4
KILAUEA POINT 1133	70.4	71.8M	73.1	72.4	74.0	76.4M	77.6	78.8	79.9	80.4	81.1	81.8	82.4	83.0	83.6	84.2	84.8	85.4	86.0	86.6	87.2	87.8	88.4	89.0	89.6	90.2	90.8	91.4
LIHUE WSO 1020.1 AP	71.4	70.9	74.1	74.0	75.8	77.9	78.9	79.9	80.4	81.1	81.8	82.4	83.0	83.6	84.2	84.8	85.4	86.0	86.6	87.2	87.8	88.4	89.0	89.6	90.2	90.8	91.4	92.0
MAKAUENA POINT 940.1	70.5	70.8	72.5	73.2	74.1	75.3	76.4	77.4	78.4	79.4	80.4	81.4	82.4	83.4	84.4	85.4	86.4	87.4	88.4	89.4	90.4	91.4	92.4	93.4	94.4	95.4	96.4	97.4
MANA 1020																												
ISLAND OF MAUI																												
NIU RIDGE 1035	66.4	67.2	68.9	68.9	70.6	72.2	73.6	74.2	75.3	76.3	77.3	78.3	79.3	80.3	81.3	82.3	83.3	84.3	85.3	86.3	87.3	88.3	89.3	90.3	91.3	92.3	93.3	94.3
WAIAMI LOWER 1054	65.7	65.1	69.1	69.1	71.3	72.2	73.6	74.2	75.3	76.3	77.3	78.3	79.3	80.3	81.3	82.3	83.3	84.3	85.3	86.3	87.3	88.3	89.3	90.3	91.3	92.3	93.3	94.3
ISLAND OF OAHU																												
EWA PLANTATION 741	70.4	70.6	72.8	72.8	74.3M	77.0M	78.4	79.6M	81.1	82.4	83.6	84.8	86.0	87.2	88.4	89.6	90.8	92.0	93.2	94.4	95.6	96.8	98.0	99.2	100.4	101.6	102.8	104.0
HONOLULU WSO 703 AP	71.3	71.2	72.6	73.0	75.7	77.7	78.6	79.5	80.4	81.3	82.2	83.1	84.0	84.9	85.8	86.7	87.6	88.5	89.4	90.3	91.2	92.1	93.0	93.9	94.8	95.7	96.6	97.5
HONOLULU SUBSTA 704	71.3	71.2	72.6	73.0	75.7	77.7	78.6	79.5	80.4	81.3	82.2	83.1	84.0	84.9	85.8	86.7	87.6	88.5	89.4	90.3	91.2	92.1	93.0	93.9	94.8	95.7	96.6	97.5
KAHUKU 912	70.1	69.9	72.2	72.2	74.5	77.9	78.9	79.9	80.9	81.9	82.9	83.9	84.9	85.9	86.9	87.9	88.9	89.9	90.9	91.9	92.9	93.9	94.9	95.9	96.9	97.9	98.9	99.9
KANEHE MAUKA 781																												
LUALUALEI 804	71.2M	71.1	72.2	74.2	76.5	77.9	79.2	80.2M	81.3	82.3	83.3	84.3	85.3	86.3	87.3	88.3	89.3	90.3	91.3	92.3	93.3	94.3	95.3	96.3	97.3	98.3	99.3	100.3
MAKAPUU POINT 724	69.6	68.4	71.2	70.7	72.9	75.9	77.9	79.9	81.9	83.9	85.9	87.9	89.9	91.9	93.9	95.9	97.9	99.9	101.9	103.9	105.9	107.9	109.9	111.9	113.9	115.9	117.9	119.9
OPAEULA 870	66.8	65.5	69.0M	68.4	70.4	73.4	75.4	77.4	79.4	81.4	83.4	85.4	87.4	89.4	91.4	93.4	95.4	97.4	99.4	101.4	103.4	105.4	107.4	109.4	111.4	113.4	115.4	117.4
PRI WAIHAWA 820.2	67.4	67.2M	69.6	70.3	72.3M	74.1	75.2	76.3	77.4	78.5	79.6	80.7	81.8	82.9	84.0	85.1	86.2	87.3	88.4	89.5	90.6	91.7	92.8	93.9	95.0	96.1	97.2	98.3
WAIALEE 890.3	69.7M	70.0	72.9	72.3	75.3	76.7	78.3	79.3M	81.3	82.3	83.3	84.3	85.3	86.3	87.3	88.3	89.3	90.3	91.3	92.3	93.3	94.3	95.3	96.3	97.3	98.3	99.3	100.3
WAIHALA 847	67.0	67.7	70.3	70.2	71.7	74.3	75.4	76.9	78.4	79.9	81.4	82.9	84.4	85.9	87.4	88.9	90.4	91.9	93.4	94.9	96.4	97.9	99.4	100.9	102.4	103.9	105.4	106.9
WAIKIKI 717.2	71.4	71.0M	73.2M	74.2	76.1	77.6	78.8M	79.7M	80.6	81.5	82.4	83.3	84.2	85.1	86.0	86.9	87.8	88.7	89.6	90.5	91.4	92.3	93.2	94.1	95.0	95.9	96.8	97.7
WAIMANALO EXP FARM	70.5	70.6	71.7	73.0	75.7	76.6	78.4	79.6	81.4	83.2	85.0	86.8	88.6	90.4	92.2	94.0	95.8	97.6	99.4	101.2	103.0	104.8	106.6	108.4	110.2	112.0	113.8	115.6
ISLAND OF MOLOKAI																												
HONOLULU WSO 703 AP	69.6	69.2M	71.6	72.0	74.2	75.0	77.0M	77.4	79.1	80.8	82.5	84.2	85.9	87.6	89.3	91.0	92.7	94.4	96.1	97.8	99.5	101.2	102.9	104.6	106.3	108.0	109.7	111.4
ISLAND OF LANAI																												
LANAI CITY 672	69.6	69.2	71.6	72.0	74.2	75.0	77.0	77.4	79.1	80.8	82.5	84.2	85.9	87.6	89.3	91.0	92.7	94.4	96.1	97.8	99.5	101.2	102.9	104.6	106.3	108.0	109.7	111.4
ISLAND OF HAWAII																												
HALEAKALA RS 338	47.5	47.5	52.0	50.1	51.9	55.7	56.5	58.0	61.2	64.4	67.6	70.8	74.0	77.2	80.4	83.6	86.8	90.0	93.2	96.4	99.6	102.8	106.0	109.2	112.4	115.6	118.8	122.0
HALEAKALA SUMMIT 338.4	47.5	47.5	52.0	50.1	51.9	55.7	56.5	58.0	61.2	64.4	67.6	70.8	74.0	77.2	80.4	83.6	86.8	90.0	93.2	96.4	99.6	102.8	106.0	109.2	112.4	115.6	118.8	122.0
HANA AIRPORT 355	69.0	69.5	72.1M	72.3M	74.2	75.0	77.0	77.4	79.1	80.8	82.5	84.2	85.9	87.6	89.3	91.0	92.7	94.4	96.1	97.8	99.5	101.2	102.9	104.6	106.3	108.0	109.7	111.4
KAHANAPALI AIRPORT	69.7M	70.3	72.0	72.9M	74.7	75.3	77.1	77.7	79.5	81.3	83.1	84.9	86.7	88.5	90.3	92.1	93.9	95.7	97.5	99.3	101.1	102.9	104.7	106.5	108.3	110.1	111.9	113.7
KAHULUI WSO 398 AP	69.5	70.4	72.0	72.0	74.7	75.0	77.0	77.4	79.1	80.8	82.5	84.2	85.9	87.6	89.3	91.0	92.7	94.4	96.1	97.8	99.5	101.2	102.9	104.6	106.3	108.0	109.7	111.4
KAILUA 440	66.7	66.8	69.3	69.3	70.1	71.7	72.0	73.4	74.0	75.4	76.8	78.2	79.6	81.0	82.4	83.8	85.2	86.6	88.0	89.4	90.8	92.2	93.6	95.0	96.4	97.8	99.2	100.6
KEANAKAPU BEACH 200.2	70.3	70.4	72.9	73.1	74.1M	76.7	77.0	78.4	79.7	81.0	82.3	83.6	84.9	86.2	87.5	88.8	90.1	91.4	92.7	94.0	95.3	96.6	97.9	99.2	100.5	101.8	103.1	104.4
KULA SANATORIUM 267	61.3	60.6	63.0	62.7	63.7	65.1	66.3	67.4	68.6	69.8	71.0	72.2	73.4	74.6	75.8	77.0	78.2	79.4	80.6	81.8	83.0	84.2	85.4	86.6	87.8	89.0	90.2	91.4
LAHAINA 361	71.9	71.1	73.1	73.7	75.3	76.4	77.4	78.5	79.6	80.7	81.8	82.9	84.0	85.1	86.2	87.3	88.4	89.5	90.6	91.7	92.8	93.9	95.0	96.1	97.2	98.3	99.4	100.5
WAILUKU 386	69.0M	69.6M	72.1M	72.1M	74.2M	75.5M	77.6M	78.9M	81.0M	83.1M	85.2M	87.3M	89.4M	91.5M	93.6M	95.7M	97.8M	99.9M	102.0M	104.1M	106.2M	108.3M	110.4M	112.5M	114.6M	116.7M	118.8M	120.9M
ISLAND OF MAUI																												
HALEAKALA RS 338	47.5	47.5	52.0	50.1	51.9	55.7	56.5	58.0	61.2	64.4	67.6	70.8	74.0	77.2	80.4	83.6	86.8	90.0	93.2	96.4	99.6	102.8	106.0	109.2	112.4	115.6	118.8	122.0
HALEAKALA SUMMIT 338.4	47.5	47.5	52.0	50.1	51.9	55.7	56.5	58.0	61.2	64.4	67.6	70.8	74.0	77.2	80.4	83.6	86.8	90.0	93.2	96.4	99.6	102.8	106.0	109.2	112.4	115.6	118.8	122.0
HANA AIRPORT 355	69.0	69.5	72.1M	72.3M	74.2	75.0	77.0	77.4	79.1	80.8	82.5	84.2	85.9	87.6	89.3	91.0	92.7	94.4	96.1	97.8	99.5	101.2	102.9	104.6	106.3	108.0	109.7	111.4
KAHANAPALI AIRPORT	69.7M	70.3	72.0	72.9M	74.7	75.3	77.1	77.7	79.5	81.3	83.1	84.9	86.7	88.5	90.3	92.1	93.9	95.7	97.5	99.3	101.1	102.9	104.7	106.5	108.3	110.1	111.9	113.7
KAHULUI WSO 398 AP	69.5	70.4	72.0	72.0	74.7	75.0	77.0	77.4	79.1	80.8	82.5	84.2	85.9	87.6	89.3	91.0	92.7	94.4	96.1	97.8	99.5	101.2	102.9	104.6	106.3	108.0	109.7	111.4
KAILUA 440	66.7	66.8	69.3	69.3	70.1	71.7	72.0	73.4	74.0	75.4	76.8	78.2	79.6	81.0	82.4	83.8	85.2	86.6	88.0	89.4	90.8	92.2	93.6	95.0	96.4	97.8	99.2	1

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1972

TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL				
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE			
* * *																													
ISLAND OF KAUAI																													
ANAHOLA 1114	A	8.96	2.22	9.18	3.72	3.36	-2.85	15.01	10.90	1.84	-1.11	4.17	2.52	3.35	-.96	1.92	-.97	2.93	-.70	7.16	2.24	2.21	-2.55	1.71	-3.49	51.68	12.09		
KAPPA STARLES 1104	A	8.23	1.00	5.79	-.37	3.75	-2.02	9.78	6.21	3.00	-.32	2.08	-.53	1.64	-2.40	2.54	-2.40	4.00	-.88	10.29	5.23	4.72	-.69	3.78	-3.42	60.62	1.01		
EAST LAHAI 934	A	9.44	2.62	6.84	.81	3.86	-2.14	10.27	5.91	2.22	-1.53	3.28	-.47	4.09	-.88	4.21	-1.96	4.53	-.39	8.56	3.29	4.65	-1.23	2.37	-4.67	64.32	1.06		
ELEELE 927	A	6.83	2.03	2.67	-1.07	4.05	-.72	6.02	4.33	1.90	-.42	3.02	2.02	4.08	-.78	1.46	-.84	3.86	2.42	7.49	4.78	2.21	-.74	2.37	-1.81	41.56	10.84		
HAULAULA 1110	A	8.48	1.57	10.13	4.78	3.63	-2.41	15.80	11.88	1.92	-1.68	4.12	2.21	3.76	1.50	2.93	-.03	2.82	-.53	7.51	2.92	2.27	-2.92	1.45	-4.07	64.82	14.96		
HALENAHANA 1006	A	9.17	7.94	3.42	12.70	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76
KUPIA 945	A	7.08	3.79	3.84	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59
LIILIUULA INTAKE 1050	A	14.34	23.64	6.77	25.29	12.81	12.81	12.81	12.81	12.81	12.81	12.81	12.81	13.74	9.58	8.50	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35	16.35
INTAKE WAINIMA FC 1086	A	9.55	15.91	3.24	9.40	11.41	4.52	5.58	4.87	5.58	4.87	5.58	4.87	5.58	4.87	5.58	4.87	5.58	4.87	5.58	4.87	5.58	4.87	5.58	4.87	5.58	4.87	5.58	4.87
KANALOHULU INTAKE 1075	A	8.54	12.44	11.89	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59	8.59
KANEHA RESERVOIR 1092	A	12.05	15.19	6.27	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89	16.89
KAPPA STARLES 1104	A	9.04	10.46	3.18	16.67	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	3.67	3.17	3.61	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46
KUALA 1112	A	9.39	3.51	9.83	5.14	2.98	-2.32	14.23	10.87	1.37	-.82	3.63	2.00	2.99	1.08	2.32	-.21	2.98	-.88	7.12	3.32	2.10	-2.39	1.17	-3.68	60.11	17.40		
KEHANA 944	A	6.66	2.98	2.45	-.47	3.39	-.86	6.02	4.95	-.09	-.69	.67	.33	-.28	-1.10	-.19	-.78	2.00	1.34	5.75	3.91	-.39	-1.25	2.39	-.93	30.23	10.16		
KILAUEA 1134	A	7.43	-.70	8.45	2.33	3.81	-3.58	10.16	4.65	1.98	-3.02	3.72	-.45	5.67	1.23	3.12	-1.87	2.79	-.82	6.34	1.19	3.53	-3.14	2.09	-5.11	59.08	8.34		
KILAUEA FIELD 17 1135	A	10.16	.07	8.67	.69	3.03	-6.05	14.00	6.19	3.14	-4.45	4.59	-.44	9.38	2.67	4.79	-2.90	4.69	-.59	8.55	1.48	4.29	-3.96	2.61	-6.90	79.80	13.39		
KILOUEA POINT 1133	A	10.37	8.02	5.28	7.77	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	6.33	6.37	2.11	5.18	2.07	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	
KOLO 1033	A	4.47	2.28	4.12	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	1.06	.89	1.01	5.12	1.11	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	
KOLDA 936	A	11.40	4.44	8.72	2.48	2.75	-3.88	10.47	5.74	3.90	-.45	3.50	-.19	3.83	-1.23	3.47	-3.05	3.94	-.44	7.71	2.40	5.10	-.97	1.93	-5.69	66.72	-.79		
KOLDA MAUKA 994	A	11.70	-.03	10.17	.84	4.80	-3.85	13.13	6.47	4.60	-1.56	3.73	-1.99	5.63	-1.74	5.63	-3.17	7.16	-.78	12.12	4.18	6.66	-1.61	4.07	-6.12	67.44	7.80		
KOLOKO RES 1137	A	11.00	9.08	4.46	14.55	14.55	14.55	14.55	14.55	14.55	14.55	14.55	14.55	8.26	5.28	5.28	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	
KUKUIULA 935	A	9.55	4.19	5.54	1.07	3.65	-.71	7.61	5.20	1.28	-.63	1.79	.36	1.48	-.58	2.23	-1.01	3.19	.93	3.05	2.98	4.28	-1.30	1.61	-3.69	41.24	6.79		
KUHUE VARIETY STATION	A	8.49	8.91	3.10	14.07	14.07	14.07	14.07	14.07	14.07	14.07	14.07	14.07	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	
KUHUE 1020	A	6.61	1.10	7.28	1.56	2.18	-3.34	12.34	8.48	1.20	-2.54	3.51	1.22	2.79	-.01	2.42	-1.11	2.93	-.03	7.41	2.03	2.05	-3.08	1.78	-4.40	52.50	-.58		
LIMHE WSD 1020.1 AP	///R	6.44	.93	7.27	2.45	1.99	-2.57	10.65	7.31	-.75	-1.84	1.74	1.22	2.25	-.31	1.27	-1.19	1.95	-.13	6.07	2.04	1.39	-3.14	1.70	-3.91	43.34	-.54		
MAKAHUEA POINT 940.1	A	8.51	7.41	1.87	8.23	8.23	8.23	8.23	8.23	8.23	8.23	8.23	8.23	.76	1.29	1.30	4.73	1.92	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	
MAKAHUI 965	A	4.43	.54	3.16	-.50	3.61	1.11	8.47	7.34	-.29	-.57	1.08	.71	-.44	-.17	-.35	-.88	3.48	2.60	7.43	5.18	1.08	-1.09	2.48	-.92	36.28	13.35		
MANA 1026	A	5.42	1.36	2.04	-.77	3.76	1.11	3.80	2.55	-.24	-.66	1.40	-.24	1.35	-.73	-.51	-.48	1.39	-.60	6.44	4.37	-.78	-1.27	2.21	-1.09	28.32	6.27		
MOHAI UPPER CROSS 1083	A	8.93	15.12	8.98	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	7.94	2.09	1.67	4.96	3.8	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	
MOLDA 1145	A	10.36	3.65	9.19	3.49	3.98	-2.50	12.03	7.92	1.41	-1.94	3.59	1.07	3.11	.73	3.11	-.06	1.76	-.42	5.64	1.02	2.61	-2.40	2.06	-3.15	59.05	8.34		
MOUNT WAIALEALE 1047	RE21.95	49.50	8.66	6.66	57.75	24.02	24.02	24.02	24.02	24.02	24.02	24.02	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05	
NIU RIDGE 1035	A	5.77	2.66	4.21	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	1.87	.60	2.11	5.92	1.28	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	
OHUUE DITCH 1051	A	11.50	28.05	8.95	28.89	28.89	28.89	28.89	28.89	28.89	28.89	28.89	28.89	1.87	.60	2.11	5.92	1.28	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	
PH WAINIMA 1115	F	6.42	-3.8	11.64	-.01	8.41	-6.04	8.33	-3.94	2.39	-6.77	4.67	-1.31	8.66	-1.42	7.53	-3.12	4.52	-1.55	6.83	-1.41	7.51	-2.66	3.38	-10.21	80.29	-4.05		
PRINCIVILLE RANCH 1117	F	4.99	-3.34	5.51	-1.87	4.12	-5.46	12.41	5.63	2.59	-3.75	4.53	-.49	12.93	6.74	4.73	-2.59	3.49	-1.33	6.45	1.15	5.76	-2.49	1.90	-7.30	69.01	-16.08		
PUNEHI RIDGE 1040	A	9.53	4.48	5.51	1.87	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	1.26	.44	4.78	6.76	.89	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	6.76	
PUNI 1013	A	8.52	7.15	3.04	15.12	2.27	4.82	4.82	4.82	4.82	4.82	4.82	4.82	3.67	3.57	4.09	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	
RESERVOIR 6 1004	A	11.09	3.65	7.70	.50	3.85	-3.16	13.42	8.34	3.41	-1.07	4.07	.31	4.88	-.44	4.66	-2.29	5.41	-.64	10.25	4.18	5.08	-1.67	3.26	-4.76	77.08	4.23		
WAIAHIA 930	A	7.19	2.16	3.43	-.83	3.48	-.02	6.71	4.79	1.69	-.19	1.31	-.01	7.16	-.98	4.94	-1.58	3.76	2.05	9.97	6.95	2.69	-.40	1.84	-2.65	43.75	9.70		
WAIAHIA MOUNTAIN 990	A	10.13	1.18	19.50	7.17	15.38	-7.88	21.50	10.28	8.75	-2.08	8.25	-0.33	8.68	-5.10	8.25	-7.42	11.50	1.71	17.75									

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1972

TABLE 2 - CONTINUED

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL			
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE		
HAILUUA 847	4.55	.55	4.82	.01	4.98	1.48	4.75	3.03	.21-	.89	.79	.07	.27-	.47	1.06-	.32	2.34	1.55	3.77	1.10	2.18-	.17	3.20-	.74	33.04	5.20		
HAIANA 798.2	4.80	.81	4.84	1.71	3.49	1.18	3.50	2.38	.05-	.54	.56	.21	.01-	.37	.13-	.71	.62-	.15	3.11	1.27	.33	1.48	3.12	.46	24.39	4.75		
HAIANA MAUKA 803	9.50	.72	11.13	3.48	7.47	.01	1.54	3.25	3.23	.79-	2.93	.65	3.18	3.22-	.78	*	6.84	8.53-	.51	10.23	*	6.34	9.15	58.59-	8.42	97.89	20.91	
HAIANA 836	13.37	1.73	12.17	.77	3.45-	9.89	18.40	7.00	5.72	6.12	5.43-	5.41	7.42-	5.88	7.96-	6.49	6.89	3.08	*	*	*	*	8.53-	.51	58.59-	8.42	97.89	20.91
HAIKANE 885	17.18	5.31	15.54	2.32	6.40-	8.84	29.50	15.50	5.01-	6.85	5.90-	2.08	7.26-	3.50	9.80	1.87	6.70-	3.88	15.47	3.54	4.85	5.31	7.44-	6.83	132.07-	12.42		
HAIKIKI 717.2	5.51		5.12		2.48		4.07		.16		.39		.27		.60		.39		2.11		.53		2.43		24.26			
HAIKANALOA EXP FARM	11.29		5.22		3.08		5.28		.55		1.05		.58		1.29		.46		2.96		2.17		2.43		24.26			
HAIKANE 892	4.70-	.66	4.98-	.92	3.66-	1.08	7.85	4.60	1.63-	1.03	1.41-	1.13	1.39-	1.00	2.37-	1.07	1.56-	.30	4.31	.39	3.76-	.41	2.84-	2.68	40.45-	6.57		
HAIKAPU 750	5.15	.99	4.08	.39	2.07	1.11	7.43	5.55	.11-	1.09	.84	.04	.32-	.35	.39-	.84	.87-	.21	2.71	.37	.94	1.62	2.97-	.57	27.63	1.55		
HELMELINA RISE 721	7.64	3.01	8.28	4.26	3.62-	.90	5.46	2.26	1.00-	1.44	1.94	.48	1.80-	.06	2.06-	.19	1.42-	.24	2.84-	.44	2.70-	.34	2.90-	1.38	41.66	5.02		
ISLAND	8.63		7.01		3.76		8.42		1.60		2.08		1.93		2.72		2.15		4.48		3.18		3.87		49.83			
ISLAND OF MOLOKAI																												
KALAUAPA 563	1.73		8.73		8.94		2.27		.13		1.31		.27		3.74		.25		2.30		.99		6.29		36.97			
KAUNAKAKAI 536	1.76		4.88		4.44		.83		.00		1.12		.47		.00		.40		1.26		.14		2.61		17.53			
KEONELE P PMS 551	2.76		4.60		3.63		.75		.00		1.30		.00		1.20		.12		2.65		.46		3.36		20.83			
KUALAPU 534	3.09-	1.05	7.16	3.52	7.73	.77	.89-	2.17	.06-	1.52	1.23	.56	.39-	.44	2.29	1.07	.42-	.30	2.70	.28	.87-	2.23	3.36-	.90	27.79-	2.52		
HAPULEHU 542	5.12	1.24	6.04	1.94	3.73-	.44	2.80-	.25	1.09-	1.62	1.63-	.36	1.35-	1.59	3.22	.32	1.99-	1.64	2.31-	1.10	2.52-	1.18	2.13-	2.08	32.90-	6.94		
HAUNALOA 511	4.83	.50	7.56	4.48	3.54-	.23	1.38-	.93	.07-	1.40	1.88	1.13	.02-	1.74	1.08-	.12	1.09-	.02	2.22	.16	1.13-	1.62	2.62-	.88	27.41-	.43		
HOLOKAI SP 524	3.06		6.06		3.80		.97		T		1.90		.17		1.29		.12		2.01		.94		2.77		23.05			
PUOHOKU RANCH 542.1	4.93		9.37		4.22		1.31		.17		1.34		.98		1.34		.96		2.31		1.37		1.51		33.94			
WAIKOLU 540	4.55		5.54		4.54		5.97		1.52		4.59		1.85		5.87		5.33		6.92		6.43		9.20		62.31			
ISLAND	4.03		6.71		4.10		1.49		.31		1.66		.48		1.97		.65		2.32		1.37		2.72		27.81			
ISLAND OF LANAI																												
KANEPUU 690	3.34		5.36		5.76		2.20		.00		1.26		.03		5.76		2.47		1.37		.60		3.09		26.01			
KAMALAPAU HARBOUR 658	1.71		4.85		4.03		1.32		.04		.69		.00		.00		.00		.92		.12		2.02		15.79			
LANAI CITY 672	4.93	.31	9.17	5.95	5.40	1.07	1.84	1.08	.73-	1.94	1.36-	.06	.24-	1.48	.62-	1.16	1.29	.98	2.12-	.83	.30-	2.56	3.21-	.51	31.72-	3.27		
LANAI MALE 684	2.59		9.37		3.78		3.77		1.56		1.22		1.28		1.50		1.34		1.98		.70		1.90		28.79			
MAHANA 694	4.53		5.86		5.23		1.27		.00		1.05		.08		.76		.26		3.36		.35		3.83		25.45			
MALAEUA 676	4.41		6.37		6.98		1.31		.00		1.52		.00		.13		1.12		.94		.35		2.00		24.15			
WAIKAEKUA 685	6.10		9.51		3.13		1.52		.39		.92		.00		.96		1.09		1.59		.23		3.45		28.89			
ISLAND	4.93		9.68		5.40		1.84		.73		1.36		.24		.62		1.29		2.12		.30		3.21		31.72			
ISLAND OF MAUI																												
AUWAHI-252	5.92		6.64		10.81		1.58		.25		.67		.05		1.48		1.05		1.05		.65		5.10		35.40			
HALEKALA B E S 434	1.79-	5.61	9.38	.26	1.90-	7.31	9.07	1.11	1.72-	3.68	1.75-	1.03	1.54-	2.59	4.51-	.17	1.90-	.40	4.63	.34	4.16-	2.08	4.76-	5.70	46.11-	20.86		
HALEKALA RANCH 432	1.24	4.59	6.66	.18	2.31-	3.47	3.08	1.54	.73-	1.11	.86-	.04	.32-	2.20	2.81	.64	1.52	.20	2.23-	.44	1.32-	2.12	3.51-	3.12	32.44			
HALEKALA RS 338	3.99	4.55	16.17	5.70	2.16-	10.02	11.48	.05	3.51-	6.41	4.96-	3.01	8.31-	1.84	10.45-	.89	5.48-	1.82	10.70	1.48	8.57-	1.48	8.57-	4.93	92.50-	27.79		
HALEKALA SHMITT 338.4	3.38		9.07		1.97		4.09		.54		.59		.55		2.67		.68		1.28		.29		3.63		28.74			
HALIIMAILE 423	.96		8.20		2.13		3.13		.53		.84		.76		2.72		1.74		3.42		1.70		4.52		30.65			
HAKAUAPONO 485	6.92-	3.85	9.82	5.12	2.77-	2.77	3.15-	1.74	.30-	2.98	1.57-	1.20	1.85-	1.61	3.90	.20	1.22-	.92	2.45-	1.02	3.51-	.52	3.84-	2.25	35.30-	13.54		
HANA AIRPORT 355	.25		13.61		4.18		6.45		1.63		3.09		3.21		3.71		4.92		4.39		7.56		6.71		65.71			
HANAHIHI 281	5.86		12.33		8.01		4.81		2.74		5.33		4.32		6.24		3.02		3.89		3.62		4.59		65.54			
HOLUA CABIN 259.5	.95		10.92		.57		6.10		.76		1.00		.28		3.44		1.74		2.11		.53		3.81		32.19			
HONOKOHU 480	5.32		18.72		6.64		7.35		4.00		4.84		6.12		11.50		4.30		17.70		8.50		7.80		96.81			
HONOKOHU 493	2.67	1.39	7.23	3.49	5.92	1.74	2.42-	.76	.96-	1.30	1.03-	.65	1.06-	1.32	3.05	.47	2.77	1.09	2.66-	.22	2.40-	.92	3.45-	1.20	35.32-	.97		
HONOHONO GULCH 341	1.80		11.00		4.20		12.80		2.00		2.40		3.00		8.40		1.00		5.40		3.60		3.80		59.40			
KANAPALI AIRPORT	3.34		6.38		4.62		.68		.06		1.15		.11		.84		.45		1.11		.30		2.87		20.95			
KAHOMA INTAKE 374	2.90	6.45	3.43-	6.49	2.67-	8.91	4.60-	4.53	1.25-	7.06	2.75-	4.40	1.90-	6.06	2.20-	5.47	1.60-	3.01	2.73-	3.11	2.60-	5.15	2.00-	11.18	30.63-	72.62		
KAHULUI WSO 398 AP	.35	2.79	8.31	5.77	2.00-	.22	3.00	1.14	T	.69	.29	.11	.04-	.39	.84	.49	.02-	.23	1.00	.13	.39-	1.13	2.17-	.53	15.71-	.62		
KAILIHI 436	4.96	5.88	16.54	3.20	1.93-	13.27	20.40	5.70	2.21-	8.07	1.65-	5.14	3.86-	5.45	6.55-	1.16	2.48-	2.98	9.65	2.10	22.61	11.59	8.52-	10.73	101.46-	29.76		
KAILUA 440	3.99	4.55	16.17	5.70	2.16-	10.02	11.48	.05	3.51-	6.41	4.96-	3.01	8.31-	1.84	10.45-	.89	5.48-	1.82	10.70	1.48	8.57-	1.48	8.57-</					

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL HAWAII 1972

TABLE 2 CONTINUED

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL			
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE		
ISLAND OF HAWAII																												
AHUA UMU 75	2.00	.07	4.60	2.43	3.40	.41	.75	-1.53	1.50	-.96	.07	-1.65	.60	-1.67	.70	-2.29	.20	-1.42	1.00	-.89	.25	-1.35	4.13	2.85	19.20	-5.74		
AWINI 182.1	5.48	-.14	4.20	-7.23			8.22		2.91		2.72		13.67		6.58	-6.08	4.05	-8.28	16.00	9.67	4.50	-4.18	18.70	8.49				
CITY OF REFUGE 27.4	5.71		2.08		4.16								1.43		6.14		2.49		1.49				4.07		55.74			
EAST HONOKANE 183.2	10.25	2.88	11.65	1.08	12.10	-6.83	19.00	.46					8.69		11.90	-4.26	18.12	1.73										
HAINA 214	2.65	-2.41	6.05	-.87	2.60	5.82	4.66	-3.01	1.59	3.33	1.21	-.71			6.51	3.02	7.09	2.45	2.77	-.48	3.18	-2.07	10.94	5.27	6.94	-.76	56.23	-7.83
HAKALAU 142	9.21	-1.44	15.37	1.79	2.55	-12.34	18.27	5.72	3.79	-6.06	4.90	-1.93	8.42	-1.41	12.54	-.76	5.48	-2.44	13.00	1.75	11.39	-.95	5.55	-9.07	110.47	-25.62		
HALEHAHAU 52	7.98		8.48		1.78		6.20		1.37		.88		1.00		3.90		.49		2.53		3.53		3.38		41.52			
HALEPIULA 117	3.00	-.72	3.02	-2.72	1.87	-5.09	5.21	1.14	1.10	-1.09	.52	-.51	.75	-.88	7.41	3.64	.38	-1.26	2.51	-1.00	2.30	-.95	3.41	-2.04	31.48	-11.48		
HALEPOHAKI 111	5.74		4.16		5.09		5.08		.79		.12		1.32		2.58		1.00		1.85		3.92		3.70		35.35			
HAWAII VOLCANES NP HQ 54	12.28	.06	6.75	-3.50	4.90	-7.08	16.10	7.70	4.29	-1.78	4.92	-.39	5.59	.47	5.96	-1.63	3.18	-1.91	5.92	-.94	12.92	1.74	4.80	-5.34	67.61	-10.64		
HAWI 168	3.38	-1.32	5.67	1.33	4.78	-.48	3.17	-1.87	1.77	-1.79	1.61	-1.35	2.44	-1.44	1.46	-2.73	1.91	-.36	3.38	-.23	6.04	2.02	6.75	-.84	42.32	-7.44		
HILD COUNTRY CLUB 86.6	14.82		11.89		1.79		36.58		11.85		7.28		17.53		15.11		8.62		19.30		31.12		4.26		180.35			
HILO WSO 87 AP	10.98	-.88	10.13	-2.81	8.88	-13.82	17.79	5.87	4.71	-4.63	4.58	-2.21	9.07	-.75	8.77	-2.88	5.20	-3.30	9.53	-1.28	13.23	-.14	4.01	-11.17	98.15	-37.77		
HOLIULOA 70	9.12	4.61	10.40	6.09	8.40	2.16	2.90	-4.27	2.60	-7.40	14.00	4.29	3.10	-5.28	3.05	-6.83	3.20	-4.91	14.00	4.47	1.70	-2.44	3.22	-.76	63.09	-15.66		
HOLIULOA REACH 68	3.08	.78	1.34	-.52	5.21	2.74	4.61	2.30	1.97	-.68	3.38	-.05	3.44	-.90	.40	-2.46	2.83	-.12	1.76	-1.72	.20	-1.57	3.17	1.61	30.39	1.55		
HONAUWAI 27	7.78		2.96		4.27		5.35		5.00		5.38		5.79		5.70		7.56		2.39		.87		2.44		52.46			
HONOHINA 137	8.58	-3.17	15.32	-.33	4.65	-13.29	22.37	6.98	4.59	-7.72	5.31	-2.41	9.38	-2.59	11.60	-2.14	4.86	-4.35	11.80	-1.07	13.59	-.12	5.89	-11.30	117.94	-41.61		
HONOHINA 181.1	19.45	7.90	11.00	-1.53	4.35	-17.73	12.48	-.17			8.75		6.47	-6.21	18.00	5.58	6.00	-.29			21.19		12.50	-3.90	120.91			
HONOHU MAKA 138	12.72	-3.34	20.84	2.52	2.89	-12.23	37.77	18.79	9.89	-5.36	7.37	-3.12	16.72	1.72	21.78	4.13	8.58	-3.18	18.74	3.03	28.80	11.21	5.97	-15.63	192.07	-7.43		
HONOUAULA 71	8.20	4.43	12.60	9.17	6.02	1.92	3.04	-.05			1.80	-2.30	1.14	-2.49	1.58	-1.79	2.24	-1.10	.40	-1.82	.30	-1.34	4.32	2.77	42.37	3.19		
HUALALAI 72	1.80	-.04	2.60	-.75	1.04	-1.01	1.92	-.59	-.20	-1.66	-.24	-1.17	-.60	-.91	-.70	-.72	1.04	-.71	-.02	-.92	.20	-.40	1.63	1.01	11.99	-5.17		
HUEHUE 92.1	3.20	-.93	4.20	-1.49	3.52	-.19	1.09	-1.92	3.67	-1.00	6.43	1.93	1.13	-1.37	.83	-1.89	2.58	-.65	2.34	-1.25			6.85		35.84			
KAAEA 141 12	13.67		2.71		4.42		10.61		4.20		4.05		2.63		4.09		4.15		4.51		6.52		1.44		60.07			
KAAWAHA 199	5.84	2.11	3.33	-.07	5.75	-.85	3.16	-2.59	3.83	-2.54	5.99	-1.96	6.81	-.27	6.52	-.07	6.92	-.99	5.11	-.71	1.05	-2.53	4.97	2.14	55.45	-7.41		
KAINALIUI 73.2	8.16	4.20	4.45	1.06	3.49	-.39	3.07	-2.59	4.90	-2.80	5.99	-1.96	11.27	2.72	5.79	-1.90	5.15	-2.45	6.59	-.39	1.44	-2.83	3.91	1.90	65.61	-5.65		
KALAPANA NO 1 67.8	14.83		10.23		4.02		9.91		1.09		2.64		2.20		2.48		1.44		6.14		6.09		1.61		62.68			
KAMOHOU 2 5	5.76		10.96		1.79		1.73		1.73		3.25		3.74		3.74		3.74		3.74		3.74		1.57		37.53			
KAPALEA 192.2	2.57	-1.74	5.45	-1.23	5.85	-1.58	2.90	-.99	1.30	-2.46	1.17	-.81	1.23	-1.41	3.12	-.04	2.28	-.98	2.46	-.17	2.16	-.91	4.58	-.11	34.07	-3.83		
KAPAPALA PANCH 36	12.38	3.34	3.60	-3.73	4.62	-2.72	6.88	1.78	2.04	-1.97	2.02	-.08	1.09	-1.00	5.81	1.43	1.27	-2.12	9.50	3.90	6.19	-.04	4.72	-.05	61.02	1.10		
KAPOHO LANDING 93.5	16.39		10.85		2.20		9.15		5.25		4.47		4.95		7.61		4.94		6.54		5.14		4.73		82.02			
KAWAIIUNI LORNER 193	9.78	-3.41	7.44	-7.23	11.90	-8.26	23.09	2.11	4.83	-12.73	6.16	-4.31	15.13	-.52	18.59	1.64	9.08	1.35	5.61	-5.62	18.98	7.54	11.01	-7.34	141.60	-36.80		
KEAUA 92	14.84	2.28	11.49	-1.94	1.41	-14.17	21.20	8.78	5.78	-4.10	4.89	-2.97	10.68	-.54	10.30	-1.45	6.00	-2.99	10.43	-1.95	15.88	1.95	2.90	-13.27	115.84	-29.72		
KEALAKEUA 26.2	5.44		3.65		5.48		3.97		4.46		3.83		8.20		6.71		5.64		4.93		1.57		4.53		58.41			
KEHENA 181.2	22.70	12.38	10.00	-.06	12.94	-.24	17.00	4.38	8.18		8.18		8.00	-1.55	11.50	2.31												
KIOLAKEA A E F 6	11.50	4.11	3.55	-3.73	6.10	-.05	6.80	1.63	3.00	-2.04	4.64	-.54	2.50	-2.98	1.15	-5.42	4.00	-1.92	6.55	1.30	3.36	-3.22	6.2	-3.85	53.77	-16.61		
KIPA 89.2	14.52		17.77		1.16		43.08		11.18		9.06		19.41		17.82		13.77		21.35		34.53		4.63		208.28			
KIMELA MAULILI 175.1	3.12	-3.8	6.73	-2.23	5.96	-7.82	4.51	-4.88	2.68	-4.05	1.74	-3.44	3.33	-3.29	3.46	-3.48	2.93	-.96	3.92	-2.16	10.00	3.55	6.38	-2.88	55.05	-28.45		
KOAHALA MISSION 176.1	8.00	-1.93	8.33	-3.01	5.72	-.49	5.79	-.99	3.50	-2.18	3.16	-.28	6.33	-1.87	3.50	-3.19	4.44	-.44	3.87	-.69	7.89	2.67	5.68	-1.59	52.64	-10.12		
KOIAE LOWER 195	3.72	-5.19	4.88	-5.46	5.40	-7.43	13.11	-.19	3.01	-7.29	2.86	-3.80	6.70	-3.23	10.03	-1.05	5.43	-1.10	3.43	-3.64	11.45	4.55	5.90	-5.93	75.84	-37.56		
KONA (KAIIUA) 68.3	2.71		3.11		3.14		1.43		3.61		2.08		4.82		8.84		2.67		4.3		.09		3.89		28.82			
KONA VILLAGE 93.8	1.95		1.04		3.14		.10		-.24		.43		.00		1.95		-.18		.65		.00		4.04		13.72			
KUKAIIUA 222	4.34	-3.31	7.97	-3.68	3.15	-11.46	6.84	-6.58	2.70	-5.91	2.95	-.46	9.84	-3.46	9.93	1.84	3.15	-.43	6.27	-1.58	20.94	11.47	7.21	-6.01	65.38	-22.65		
KUKUIMAEI MIC 199	3.14	-2.99	5.81	-1.50	3.40	-6.64	6.21	-3.02	1.67	-5.04	1.31	-1.73	6.88	1.34	6.40	-.33	3.21	-.42	2.67	-3.27	10.28	2.52	6.51	-2.71	57.49	-21.19		
KUKUIMAEI MILL 206	1.91	-2.68	3.46	-1.80	2.84	-.46	8.32	-1.57	1.41	-3.02	1.32	-.73	5.08	1.43	3.38	1.14	2.89	-.84	3.53	-1.23	7.36	3.39	4.62	-2.55	45.12	-12.46		
KULANI CAMP 79	8.45		4.78		2.22		20.39		5.81		4.48		6.15		7.81		3.32		5.31		15.49		3.23		87.44			
KULANI MAUKA 76	2.30		2.10		1.85		4.70		1.60		.87		1.15		1.87		4.25		.28		3.27		2.85		17.10			
KULANI SCHOOL SITE 78	4.47		7.71		.39		18.91		3.55		2.29		8.25		4.88		6.64		4.50		17.84		1.81		81.24			
KUHAULA 68.2	7.29		6.40		4.40		7.95		13.74		7.37		7.37		7.37		7.37		7.37		7.37		7.37		7.37			
MAKAHALA 103	1.77		3.89		3.12		2.43		-.33		.83		.70		2.78		3.82		.00									

TEMPERATURE EXTREMES

Table 3

HAWAII
1972

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
* * *					* * *				
ISLAND OF KAUAI					ISLAND OF MAUI				
KANALOHULUHULU 1075	80	8-29	36	3-31+	HALEAKALA RS 338	75	7-13+	31	2- 1
KILAUEA POINT 1133	90	9-16		-	HALEAKALA SUMMIT 338.4	70	8- 3	21	4-27
LIHUE WSD 1020.1 AP	88	9-14	55	12-11	HANA AIRPORT 355	88	9-14+	51	1-31
MAKAHUENA POINT 940.1	90	10-19+	50	1-21	KAANAPALI AIRPORT	89	8- 7	53	1-11
MANA 1026	92	8-19+	53	12-31+	KAHULUI WSD 398 AP	94	8- 6	50	1-31+
NIU RIDGE 1035	87	9-27	52	2-27+	KAILUA 446	86	3- 8	55	2- 1+
WAIAMI LOWER 1054	88	8-29	47	12-11+	KEAWAKAPU BEACH 260.2	95	9-28	52	1-31
* * *					KULA SANATORIUM 267	81	8-19	47	2- 2
ISLAND OF OAHU					LAHAINA 361	91	9-17+	57	12-13+
EWA PLANTATION 741	91	10-16	50	2- 2	WAILUKU 386	89	10-16	50	1-12+
HONOLULU WSD 703 AP	90	8-15+	53	1-31	* * *				
HONOLULU SUBSTA 704	88	10-14	61	2- 1+	ISLAND OF HAWAII				
KAHUKU 912	89	7-17+		-	HAINA 214	88	2- 6	57	12-20
KANEDHE MAUKA 781	89	10-14	59	2- 2+	HAWAII VOLCNS NP HQ 54	79	10-25+	44	12-20+
LUALUALEI 804	96	10- 5	53	12-11	HILO WSD 87 AP	93	3-23	57	3-10+
MAKAPUU POINT 724	87	9- 1	56	5-16	KAINALIU 73.2	86	10-15	52	1-31
OPAEULA 870	88	10-15+	49	1-31	KAMUELA 192.2	85	10-14	39	2- 1
PRI WAHIAWA 820.2	92	9-17	49	12-12+	KEAAU 92	89	12-19	55	3- 3
WAIALEE 896.3	89	10-16+	60	2- 1	KEALAKEKUA 26.2	86	10-14	53	12-21+
WAIALUA 847	94	9-15	53	2-28+	KOHALA MISSION 175.1	87	9-14	56	3-31
WAIKIKI 717.2	91	10-16+	52	2- 1+	KONA (KAILUA) 68.3	93	8-29	60	12-20+
WAIMANALO EXP FARM	95	10-14	54	1-31	KULANI CAMP 79	78	9- 4	36	3-24
* * *					MAUNA LOA SLOPE 08S	66	6-25	24	1- 8
ISLAND OF MOLOKAI					MOUNTAIN VIEW 91	87	12-26+	48	12-20
MOLOKAI AP 524	87	10-18+	56	12-11	NAALEHU 14	89	8-30	57	2- 1
* * *					OOKALA 223	87	6- 5	54	2-20
ISLAND OF LANAI					OPIHIHALE 2 24.1	89	10-13		-
LANAI CITY 672	85	9-26+	52	2-14+	PAHALA 21	89	8-18	54	12-21
					PUAKO 95.1	91	8-29+	52	12-20
					UPOLU POINT USCG 159.2	89	12-25+	55	1- 1

See Reference Notes Following Station Index

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII
1972

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
HAWAII														
* * *														
ISLAND OF KAUAI														
LIHUE WSO 1020.1 AP	EVAP	5.688	6.328	7.098	7.918	9.27	8.79	9.77	10.22	9.448	7.868	6.37	5.198	93.91
	WIND	3239	4584	3027	53308	5038	4241	-	4947	4576	3600	5084	2668	-
	MAX	-	73.8	77.9	76.0	80.8	81.6	82.9	91.2	90.1	88.0	82.3	78.7	-
	MIN	55.0	55.1	56.0	57.3	59.9	61.3	64.0	71.1	69.6	69.6	66.3	59.8	62.1
* * *														
ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	4.708	5.008	6.568	7.718	10.13	8.688	10.45	10.03	9.22	7.44	6.32	5.19	91.43
	WIND	780	926	977	1121	1021	1118	1213	997	907	803	509	403	10775
	MAX	78.9	80.7	86.3	85.4	89.0	89.6	89.5	91.4	90.9	88.2	82.8	77.3	85.8
	MIN	58.7	59.1	62.5	62.4	63.9	66.0	65.9	67.3	66.2	65.6	62.3	57.4	63.1

RELOCATION AND CHANGES OF EQUIPMENT

ISLAND OF HAWAII		
HILO COUNTRY CLUB 86.6	EQUIPMENT MOVED 1000 FEET SSE	JULY 10, 1972
ISLAND OF KAUAI		
KOLOKO RESERVOIR 1137 PRINCEVILLE RANCH	EQUIPMENT MOVED 800 FEET NNE EQUIPMENT MOVED 100 FEET SE	DECEMBER 21, 1971 SEPTEMBER 28, 1972
ISLAND OF MAUI		
KULA HEIGHTS 323.2 ULUPALAKUA RANCH 250	FISCHER & PORTER GAGE REPLACES UNIVERSAL GAGE FISCHER & PORTER GAGE REPLACES UNIVERSAL GAGE	FEBRUARY 14, 1972 FEBRUARY 8, 1972
ISLAND OF OAHU		
HALAWA SHAFT 771.2 KAMEHAME 724.7 KAWAIHAPAI 841 LUALUALEI 804	FISCHER & PORTER GAGE REPLACES UNIVERSAL GAGE EQUIPMENT MOVED 200 YARDS SE EQUIPMENT MOVED 0.9 MILE WSW EQUIPMENT MOVED 300 FEET SW	MAY 1, 1972 APRIL 4, 1972 JANUARY 11, 1972 JULY 6, 1972

See Reference Notes Following Station Index

STATION INDEX

HAWAII 1977

Station	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.	Refer to tables			
								Temp.	Precip.	Evap.					
HAWAII															
ISLAND OF KAUAI															
ALEXANDER RESV. 983	A	0145	02	KOOLA	2 21 57 159 32	1610	180		43						
BEANHOLE 114		0240	02	KOOLA	2 21 56 159 32	720	64		2						
BOYESWOOD STA 985	A	0456	02	KOOLA	2 21 55 159 30	400	62		2						
EAST LAWA 934		0456	02	KOOLA	2 21 55 159 30	400	64		2						
CRK 3 RESERVOIR 1094-1	A	0456	02	KOOLA	2 21 55 159 30	400	64		2						
ELEENE 927	A	0470	02	KOOLA	2 21 54 159 35	163	73		2						
HALAULA 110	A	0935	01	KAWAIIHOU	1 22 07 159 19	253	72		2						
HALEMANALO 1006	A	1036	02	LIHUE	1 22 05 159 28	490	42		2						
HANAIE TUNNEL 1053	A	1170	01	KAWAIIHOU	1 22 05 159 28	810	33		2						
HUKIPO 945	A	2161	03	WAIHAE	3 21 59 159 41	200	42		2						
LIILIUULA INTAKE 1050	A	2222	02	LIHUE	2 22 02 159 28	1055	39		2						
INTAKE WAINIHA PC 1088A	A	2227	01	HANAIE	1 22 09 159 34	690	39		2						
KAIHIMIKI RES 1131	A	2941	01	HANAIE	1 22 09 159 34	380	33		2						
KANALOHULULU 1075	A	3099	03	WAIHAE	3 22 08 159 40	3600	9	19							
KANEMA RESERVOIR 1092	A	3104	01	KAWAIIHOU	1 22 08 159 23	830	11		2						
KAPPA STABLES 1104	A	3159	01	KAWAIIHOU	1 22 05 159 20	175	37		2						
KEALIA 1112	A	3982	01	KAWAIIHOU	1 22 06 159 19	9	74		2						
KEHANA 944	A	4272	03	WAIHAE	3 21 58 159 43	9	79		2						
KILAUEA 1134	A	4561	01	HANAIE	1 22 13 159 25	317	88		2						
KILAUEA FIELD 17 1135	A	4566	01	HANAIE	1 22 11 159 24	415	43		2						
KILAUEA POINT 1133	A	4568	01	HANAIE	1 22 14 159 24	180	22	23							
KITANO 1037-1	A	4650	03	WAIHAE	3 22 02 159 41	2150			2						
KOLOA 1033	A	4735	03	WAIHAE	3 22 04 159 46	36	37		2						
KOOLA 936	A	4742	02	KOOLA	2 21 55 159 28	240	40		2						
KOOLA MAUKA 994	A	4750	02	KOOLA	2 21 58 159 29	640	69		2						
KOOLKO RES 1137	A	4758	01	KAWAIIHOU	1 22 11 159 23	650	40		2						
KUKUIHUA 935	A	4822	02	KOOLA	2 21 54 159 30	100	71		2						
LIHUE VARIETY STA	A	5560	02	LIHUE	2 22 01 159 23	175	11		2						
LIHUE 1020	A	5575	02	LIHUE	2 21 59 159 22	207	69		2						
LIHUE WSD 1020-1 AP	A	5580	02	LIHUE	2 21 59 159 21	103	23	29	1						
HAKAHEPUNA POINT 940-1	A	5785	02	KOOLA	2 21 52 159 27	32	16		1						
HAKAHEPUNA 965	A	5832	01	HANAIE	1 22 07 159 31	115	84		1						
HANA 1026	A	6082	03	WAIHAE	3 22 02 159 46	11	60	69	1						
HANA 1001	A	6097	02	KOOLA	2 21 55 159 28	300	30		2						
HOMIHI KORI CROSS 1083	A	6423	03	WAIHAE	3 22 07 159 40	3000	9		2						
HOLGAA 1145	A	6529	01	KAWAIIHOU	1 22 11 159 20	330	47		2						
HOUNT WAIKALELE 1047	R	6590	01	WAIHAE	2 22 04 159 30	510	26		2						
NIU RIDGE 1035	A	6610	03	WAIHAE	3 22 02 159 44	280	28		2						
N WAILUA DITCH 1051	A	6888	02	LIHUE	2 22 04 159 28	110	46		2						
N WAILUA RIVER 1055	A	6893	02	LIHUE	2 22 04 159 26	650	46		2						
PH WAINIHA 1115	A	8155	01	HANAIE	1 22 12 159 34	101	66		2						
PRINCIVILLE RANCH 1117	A	8165	01	HANAIE	1 22 13 159 29	295	64		2						
RESEVOIR RIDGE 1040	A	8217	02	LIHUE	2 21 58 159 22	1460	34		2						
PUNE 1013	A	8217	02	LIHUE	2 21 58 159 22	329	38		2						
RESEVOIR 6 1004	A	8573	02	LIHUE	2 21 57 159 27	420	60		2						
STABLE CAMP 1055-1	A	8694	02	LIHUE	2 22 04 159 34	740	69		2						
WAINIHA 930	A	8941	04	WAIHAE	4 21 58 159 34	215	61		2						
WAIHANA MOUNTAIN 990	A	8949	02	KOOLA	2 21 58 159 31	2100	73		2						
WAIHAI LOWER 1052	A	8952	02	LIHUE	2 22 04 159 27	80	19	41	1						
WAIHAI UPPER 1052	A	8956	02	LIHUE	2 22 04 159 28	780	41		1						
WAILUA 943	A	8963	03	WAIHAE	3 21 59 159 43	10	79		2						
WAILUA KAI 1065	A	9467	02	LIHUE	2 22 02 159 21	20	61		2						
WAIHAE 941	A	9629	03	WAIHAE	3 21 58 159 41	20	61		2						
WEST LAHA 931	A	9655	02	KOOLA	2 21 54 159 31	210	72		2						
ISLAND OF OAHU															
ANUHANI LODG 839-12	A	0555	01	KOOLAPOKO	1 21 26 157 51	320	63		2						
BIER FIELD 825 761	A	0111	03	WAIHAE	3 21 55 157 37	355	63		2						
BERETANIA PUMPING STA	A	0211	02	OAHU	2 21 19 157 51	20	15		2						
CAMPBELL END PK 702-5	A	0248	02	OAHU	2 21 19 157 51	20	15		2						
CAMP 84 807	A	0300	02	OAHU	2 21 26 158 04	760	18		2						
CHURCH COLLEGE LAIE	A	0340	01	KOOLAPOKO	1 21 39 157 56	20	17		2						
COCONUT ISLAND 840-1	A	0350	01	KOOLAPOKO	1 21 26 157 57	15	16		2						
OWSETT HEIGHTS 780-8	A	0387	01	KOOLAPOKO	1 21 26 157 57	15	16		2						
EWA PLANTATION 741	A	0503	03	EWA	3 21 21 158 02	50	67	82	1						
HAWAII SHART 771-2	A	0964	02	HONOLULU	2 21 23 157 54	170			2						
HAWAII KAI 724-11	A	1298	02	HONOLULU	2 21 18 157 43	30			2						
HELEMANU INTAKE 881	A	1384	05	WAIHAE	5 21 33 158 00	1274			2						
HONOLULU 729-2	A	1540	02	OAHU	2 21 14 157 49	2220	36		2						
HONOLULU OBERVY 702-2	A	1918	03	EWA	3 21 19 158 00	5	11	11	2						
HONOLULU WSD 703 AP	R	1919	02	HONOLULU	2 21 20 157 55	7	27	21	1						
HONOLULU SUBSTA 704	A	1924	02	HONOLULU	2 21 19 157 52	13	69	69	1						
H S P A EXP STA 707	A	2146	02	HONOLULU	2 21 18 157 50	50	56		2						
KAENA POINT 841-3	A	2410	04	WAIHAE	4 21 34 158 15	1240			2						
KAHANA 883	A	2482	02	KOOLAPOKO	2 21 31 157 44	800	56		2						
KAHUKU 912	A	2510	01	KOOLAPOKO	1 21 41 157 57	25	64	81	1						
KAILUA FIRE STA 791-3	A	2683	01	KOOLAPOKO	1 21 24 157 55	10	15		2						
KAILINI RES SITE 777	R	2940	02	HONOLULU	2 21 23 157 50	910	40		2						
KANEHEHE 724-7	A	3013	01	OAHU	1 21 19 157 41	1200			2						
KANEHEHE MAUKA 781	A	3156	01	KOOLAPOKO	1 21 19 157 41	1200			2						
KAPALANA 773	A	3268	02	HONOLULU	2 21 21 157 52	614	51		2						
KAWAIHAI 841	A	3734	05	WAIHAE	5 21 33 158 00	140	44		2						
KAWAI INTAKE 880-2A	A	3741	05	WAIHAE	5 21 34 157 59	1180	37		2						
KAWELA MAUKA 906-3	A	3825	01	KOOLAPOKO	1 21 40 158 00	1050			2						
KEHO CAMP 8 855	A	3918	05	WAIHAE	5 21 33 158 05	728	49		2						
KOOLA WAI 833	A	4760	05	WAIHAE	5 21 30 157 58	1160	59		2						
LUALUALEI 804	A	5647	04	WAIHAE	4 21 29 158 08	1500	19		1						
LUALUALEI TUNNEL	A	5655	01	KOOLAPOKO	1 21 24 157 49	240			2						
LULUKU	A	5786	04	WAIHAE	4 21 28 158 13	15	47		2						
HAKAHEPUNA VALLEY 800-1	A	5781	04	WAIHAE	4 21 29 158 12	100			2						
HAKAHEPUNA PUMP 800-2	A	5782	04	WAIHAE	4 21 29 158 12	400	58		2						
HAKAPOA POINT 724	A	5800	02	HONOLULU	2 21 19 157 39	538	24	61	1						
HANDA 712-1	A	6122	02	HONOLULU	2 21 19 157 49	220	55		2						
MANDA TUNNEL 2 716	R	6130	02	HONOLULU	2 21 20 157 48	650	40		2						
MAUNAWILI 787-1	A	6222	01	KOOLAPOKO	1 21 21 157 46	410	73		2						
MOANALUA 770	A	2495	02	HONOLULU	2 21 21 157 34	20			2						
MOHILANI 835-1	A	6547	03	OAHU	3 21 25 157 58	325			2						
MOUNT KAALA 844	A	6553	04	WAIHAE	4 21 31 158 09	4015	69		2						
NUUANU RES 4 783	A	6928	02	HONOLULU	2 21 21 157 49	1048	84		2						
NUUANU RESERVOIR 5 775A	A	6933	02	HONOLULU	2 21 21 157 50	410	89		2						
OPEALUA 870	A	7150	05	WAIHAE	5 21 34 158 02	1960	68	69	1						
PALI GOLF COURSE 768-1	A	7636	02	HONOLULU	2 21 30 157 47	800	57		2						
PALOLO VALLEY 718	R	7694	02	HONOLULU	2 21 20 157 46	995	40		2						
PAUOA CITY TR84	A	7813	02	HONOLULU	2 21 21 157 48	1640	46		2						
PEARL FLATS TR84	A	7930	03	EWA	3 21 23 157 38	240			2						
PORTRUCK ROAD 724-4	A														

STATION INDEX

HAWAII
1972

Station	Index No.	Division No.	DISTRICT	Drainage†	Latitude	Longitude	Elevation	Years of record		Refer to tables	Station	Index No.	Division No.	DISTRICT	Drainage†	Latitude	Longitude	Elevation	Years of record		Refer to tables	
								Temp.	Precip.										Temp.	Precip.		
ISLAND OF HAWAII																						
KOHALA MAULILI 176	A	4675 01	N KOHALA		1 20 13 155 47	960					PARAHU 217		7204 01	HAWAIIA		1 20 05 155 26	415					
KOHALA MISSION 175.1	A	4680 01	N KOHALA		1 20 14 155 48	537	86	69		1 2 3	PARULU 221		7312 01	HAWAIIA		1 20 03 155 22	800					
KOIHAE LOWER 196	A	4682 01	HAWAIIA		1 20 05 155 38	720		69		2	PALALA 21	A	7421 03	KAU		3 19 12 155 29	670	63	81		1 2 3	
KONA (KAILUA) 08.3	A	476 04	N KONA		4 19 39 156 00	30	24	26		1 2 3 C	PAHOA 65	A	7457 02	PUNA		2 19 30 154 57	670					
KONA VILLAGE 93.8	A	4785 04	N KONA		4 19 50 155 59	20		6		2	PAHOA 37	A	7643 03	KAU		3 19 22 155 28	5000					
KURAIKU 222	A	4815 01	HAWAIIA		1 20 02 155 21	840		78		2	PAPA'IKOU 144.1	A	7711 02	S HILO		2 19 47 155 08	200					
KURUIMAELE WIC 199	A	4926 01	HAWAIIA		1 20 07 155 35	980		65		2	PAPA'IKOU MAUKA 140.1	A	7721 02	S HILO		2 19 47 155 08	1270					
KURUIMAELE HILL 206	A	4938 01	HAWAIIA		1 20 08 155 34	3000		83		2	PIHONUI 89	A	8081 02	S HILO		2 19 44 155 10	1730					
KULANI CAMP 78	A	5011 02	S HILO		2 19 33 155 18	5170	14	25		1 2 3	PDKAKULOA 107	A	8063 02	HAWAIIA		2 19 45 155 32	6511					2 C
KULANI MAUKA 76	A	5018 05	N HILO		5 19 35 155 27	8300		22		2 C	PUKAO 95.1	A	8186 05	KOHALA		5 19 59 155 50	5					1 2 3
KULANI SCHOOL SITE 78	A	5021 02	S HILO		2 19 35 155 20	5735		26		2 C	PUI KIME 120	A	8393 01	HAWAIIA		1 19 54 155 24	7750					
ALAMULO FLD OFF 191.1	A	5200 01	S KOHALA		1 20 01 155 41	2615				2 C	PUI LAU 102.1	A	8452 05	HAWAIIA		5 19 50 155 36	7440					
LANIMAU 86.2	A	5330 04	N KONA		4 19 40 155 58	1930		31		2 C	PUI LEHUA 73	A	8460 04	N KONA		4 19 34 155 49	4880					
LAVA TRIE PARK 66.1	A	3400 02	PUNA		2 19 29 154 54	650				2	PUI MALL 113	A	8515 01	HAWAIIA		1 19 55 155 26	6960					
MAKAAHUALOU 103	A	3761 02	HAWAIIA		1 19 59 155 33	3820		2		2 C	PUI DD 82	A	8550 02	S HILO		2 19 44 155 23	6340					2 C
MAUNA 2	A	6134 03	KAU		3 19 07 155 50	1760		44		2	PUI MAANA 94.1	A	8555 05	N KONA		5 19 47 155 51	2520					2 C
MAUNA KEA BEACH 98	A	6180 04	S KOHALA		1 20 01 155 50	103	5	5		2	SADDLE ROAD 184	A	8590 02	S HILO		2 19 42 155 12	2340					2 C
MAUNA KEA OBS 111.2	A	6183 02	HAWAIIA		2 19 49 155 28	13770		1		2 3	SOUTH POINT CORRAL 3	A	8675 03	KAU		3 18 57 155 41	500					2 C
MAUNA OHA SLOPE 085	A	6186 05	HAWAIIA		5 19 32 155 35	11146		18		2 3	S POINT TRACKING STA	A	8679 03	KAU		3 18 57 155 41	305					2 C
MIDDLE HONULULOA 68.1	A	6268 04	N KONA		4 19 37 155 58	475		31		2	UNIKOA 116	A	8780 01	HAWAIIA		1 19 59 155 23	3420					2
MIDDLE PEN 147.1	A	6270 01	N KOHALA		1 20 08 155 50	1380		9		2	UPULU POINT USCG 159.2	A	8830 01	N KOHALA		1 20 15 155 53	61	15	17			1 2 3
MOAULA 18	A	6407 03	KAU		3 19 11 155 30	600		54		2	WAIKAEKA SCO 88.2	A	9025 02	S HILO		2 19 40 155 08	1050					2 C
MOUNTAIN VIEW 91	A	6592 02	PUNA		2 19 33 155 07	1530	36	73		1 2 3	WAIKANGONDULA 178.6	A	9350 01	N KOHALA		1 20 08 155 47	3830					
NABLEHU 14	A	6593 03	KAU		3 19 04 155 35	679	19	84		2 3												
NAPDOPOO 28	A	6697 04	S KONA		4 19 28 155 55	395		33		2												
NIULII 179	A	6806 01	N KOHALA		1 20 14 155 45	75		88		2												
OKALA 223	A	7131 02	N HILO		2 20 01 155 17	430	53	83		1 2 3												
OPHIHALE 2 24.1	A	7166 04	S KONA		4 19 16 155 53	1270	15	16		1 2 3												
ORCHID LAND EST 91.5	A	7185 02	PUNA		2 19 34 155 00	445		10		2												

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDYARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1931-1960. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (date) or months.
- * Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index). Amounts carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 day record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the December issue of Climatological Data.
- Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.
- The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

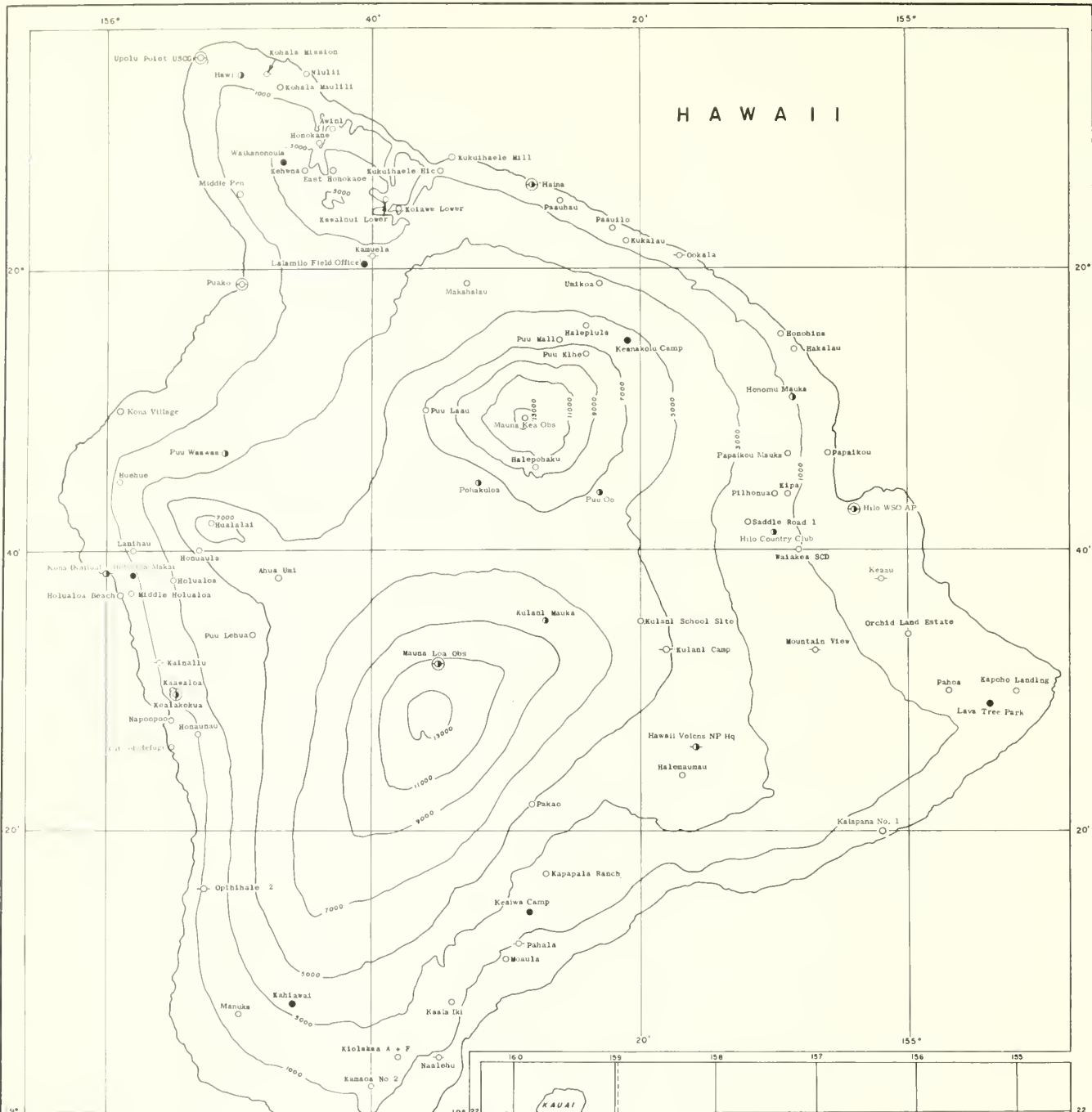
Information concerning the history of changes in location, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, for 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, obtained as indicated above, price 15 cents.

Subscription Price: \$2.50 a year for each section including annual summary; \$1.00 additional for foreign mailing; 20¢ single copy; 20¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
 Director, National Climatic Center

USCOM-NOAA-ASHEVILLE, N. C. 6/14/73-990



HAWAII

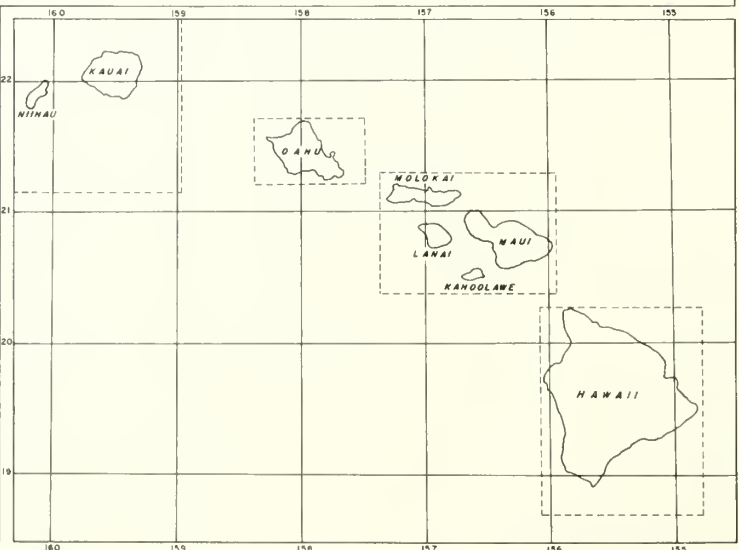
PLATE 2
STATUTE MILES



STATION LEGEND

- ● (1) Precipitation only
- ⊕ ● (1) Precipitation, storage
- ● (1) Precipitation and Temperature
- ⊕ ● (1) Precipitation, Temperature and Evaporation
- Non-recording,
- Recording (1) Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time



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