Mean temperatures: Pepeekeo, Hilo district, 100 feet elevation, average maximum, 76.7°; average minimum, 65.9°; Waimea, Hawaii, 2,730 elevation, 69.9° and 60.2°; Kohala, 521 elevation, 74.6° and 64.7°; Waiakoa, Kula, Maui, 2,700 elevation, 73.7° and 53.0°; Kulaokahua, W. R. Castle, 60 feet elevation, highest, 79°; lowest, 57°; mean, 70.3°.

Mr. Fleming, United States Coast and Geodetic Survey, magnetic observatory near Sisal, Ewa, Oahu, 50 feet elevation, furnishes the following figures: Rainfall, 0.09; mean maximum, 80.9°; mean minimum, 61.3° (probable mean temperature, 70.4°); dew-point at 9 a. m., 61.8°; 9 p. m., 60.7°; mean relative humidity, 76.

Kohala, Dr. B. D. Bond reports mean dew-point, 62.1°; relative humidity, 78.

The month of January was characterized by fine weather, the only noteworthy feature being the cold wave from the 24th to 27th.

Rainfall data.

Stations.	Elevation.	Jan., 1902.
HAWAII.		
HILO, e. and ne.	*Feet.*	*Inches.*
Waiakea	50	2.63
Hilo (town)	100	.....
Kaumana	1,250	4.39
Pepeekeo	100	3.25
Hakalau	200	5.08
Honohina	300	7.47
Laupahoehoe	500	5.08
Ookala	400	.....
HAMAKUA, ne.		
Kukaiau	250	3.29
Paauilo	750	.....
Paauhau (Mill)	300	2.49
Paauhau (Greig)	1,150	.....
Honokaa (Muir)	425	3.34
Honokaa (Rickard)	1,900	.....
Kukuihaele	700	4.22
KOHALA, n.		
Awini Ranch	1,100	.....
Niulii	200	3.02
Kohala (Mission)	521	2.75
Kohala (Sugar Co.)	235	3.83
Hawi	300	.....
Hawi Mill	600	.....
Waimea, c	2,720	2.64
KONA, W.		
Kailua	950	2.23
Holualoa	1,350	2.67
Kealakekua	1,580	3.47
Napoopoo	25	1.51
KAU, se.		
Kahuku Ranch	1,680	2.29
Waiohinu	1,000	2.43
Honuapo	15	0.16
Naalehu	650	0.89
Hilea	310	1.20
Pahala	850	.....
Moaula	1,700	.....
PUNA, e.		
Volcano House	4,000	4.78
Olaa	.....	.....
Olaa (17-mile)	1,700	4.15
Kapoho	110	.....
Kalapana, se.	.....	.....
MAUI.		
Lahaina, w	.....	.....
Waiopae Ranch, s	700	0.07
Kaupo (Mokulau), s	285	2.13
Kipahulu, s	300	.....
Kahikinui	1,550	.....
Hamoa Plantation, se	60	4.29
Nahiku (Anderson), ne	60	8.46
Nahiku (Nishwitz), ne)	800	2.36
Haiku, n	700	3.07
MAUI—*Continued.*	*Feet.*	*Inches.*
Kula (Waiakoa)	2,700	0.85
Kula (Erehwon), n	4,500	.....
Puuomalei, n	1,400	2.19
Paia, n	180	1.33
Haleakala Ranch, n	2,000	2.18
Wailuku, ne	200	1.50
LANAI.		
Keomuku, e	6	.....
OAHU.		
Punahou (W. B.), sw	47	0.30
Kulaokahua, sw	50	0.15
Makiki Reservoir	150	0.11
Kewalo (King street), sw	15	.....
U. S. Naval Station, sw	6	0.34
Kapiolani Park, sw	10	0.13
Manoa (Woodlawn Dairy), c	285	1.30
School street (Bishop), sw	50	0.33
Pacific Heights, sw	700	0.60
Insane Asylum, sw	30	0.14
Kamehameha School	75	0.13
Kalihi-Uka, sw	260	1.42
Nuuanu (W. W. Hall), sw	50	0.29
Nuuanu (Wyllie street), sw	250	.....
Nuuanu (Elec. Station), sw	405	0.63
Nuuanu (Luakaha), c	850	4.20
Waimanalo, ne	25	0.74
Maunawili, ne	300	1.58
Kaneohe, ne	100	.....
Ahuimanu, ne	350	2.56
Kahuku, n	25	0.55
Waialua, n	20	0.01
Wahiawa, c	900	0.60
Ewa Plantation, s	60	.....
Waipahu, s	200	0.00
Moanalua, sw	15	0.19
KAUAI.		
Lihue (Grove Farm), e	200	1.02
Lihue (Molokoa), e	300	0.95
Lihue (Kukaua), e	1,000	1.71
Kealia, e	15	0.00
Kilauea, ne	325	1.48
Hanalei, n	10	2.19
Haena	15	1.25
Waiawa, sw	32	0.78
Eleele, s	200	0.40
Wahiawa Mountain, s	2,100	3.25
McBryde (Residence)	850	1.29
Lawai	450	1.04
Delayed December reports.		
Kailua	.....	5.17
Waiakoa	.....	4.56
Puuomalei	.....	11.43

OBSERVATIONS AT HONOLULU.

The station is at 21° 18′ N., 157° 50′ W.

Hawaiian standard time is 10h 30m slow of Greenwich time. Honolulu local mean time is 10h 31m slow of Greenwich.

Pressure is corrected for temperature and reduced to sea level, and the gravity correction, —0.06 has been applied.

The average direction and force of the wind and the average cloudiness for the whole day are given unless they have varied more than usual, in which case the extremes are given. The scale of wind force is 0 to 12, or Beaufort scale. Two directions of wind, or values of wind force, or amounts of cloudiness, connected by a dash, indicate change from one to the other.

The rainfall for twenty-four hours is measured at 9 a. m. local, or 7.31 p. m., Greenwich time, on the respective dates.

The rain gage, 8 inches in diameter, is 1 foot above ground. Thermometer, 9 feet above ground. Ground is 43 feet, and the barometer 50 feet above sea level.

Meteorological Observations at Honolulu, January, 1902.

Date.	Pressure at sea level.	Temperature.		During twenty-four hours preceding 1 p. m. Greenwich time, or 1:30 a. m. Honolulu time.									Total rainfall at 9 a. m., local time.
				Temperature.		Means.		Wind.		Average cloudiness.	Sea-level pressures.		
		Dry bulb.	Wet bulb.	Maximum.	Minimum.	Dew-point.	Relative humidity.	Prevailing direction.	Force.		Maximum.	Minimum.	
	*	†	†			‡	‡		§				
1	30.13	68	58	71	63	53.0	58	nne.	3-4	5	30.17	30.07	0.00
2	30.11	70	62	74	66	55.0	60	nne.	3	6-3	30.16	30.08	0.00
3	30.11	70	64	75	66	60.7	69	ne.	3-4	2-6	30.14	30.08	0.01
4	30.08	71	66	76	67	62.3	72	ne.	3-4	5	30.13	30.01	0.01
5	30.11	73	65	76	69	65.3	78	ne.	3-4	6-4	30.13	30.00	0.01
6	30.07	72	64.5	77	71	62.7	68	ne.	4	4	30.14	30.04	0.00
7	30.02	71	65	76	71	62.3	68	ne.	4	5	30.11	29.98	0.01
8	29.96	66	64	76	70	61.0	67	ne.	3	4-8	30.05	29.92	0.00
9	29.91	67	64	76	64	63.0	79	s-sw.	1-0	8-2	29.99	29.86	0.03
10	29.96	67	58.5	78	66	63.5	80	w.	4-0	6-2	29.96	29.85	0.00
11	30.05	68	62	74	66	54.5	59	n.	3-4	1	30.08	29.98	0.00
12	30.05	70	62	75	67	58.0	64	ne.	3	3	30.09	29.99	0.00
13	30.04	69	63.5	76	68	59.0	66	ne.	3	4	30.11	30.02	0.00
14	30.00	70	65	76	67	61.7	74	nne.	3-1	5	30.07	29.96	0.01
15	30.01	66	65	77	66	62.3	73	ne.	3-0	5-1	30.04	29.94	0.04
16	30.07	72	66	78	63	63.3	75	ne.	3-1	3	30.10	30.01	0.00
17	30.05	72	64	77	70	62.3	69	ne.	3-4	3	30.12	30.02	0.02
18	30.04	70	65	77	69	60.7	66	ne.	4-2	4-1	30.09	29.98	0.00
19	30.04	72	64	77	70	62.0	69	ne.	3	3	30.10	30.00	0.00
20	30.05	72	66	77	72	61.5	66	ene.	4	3	30.10	30.00	0.01
21	30.00	64	62.5	78	70	62.3	70	ene.	4-2	8-3	30.11	30.00	0.00
22	29.95	63	61.7	78	62	63.7	82	ene.	2	4-6	30.03	29.90	0.02
23	29.90	64	62.5	78	62	62.3	77	e-n.	2-4	3-8	29.96	29.85	0.03
24	29.85	64	62	76	63	62.3	81	n-s.	2-0	4	29.95	29.84	0.00
25	29.83	59	56.3	76	64	59.0	78	n-w.	2-0	4-0	29.88	29.79	0.06
26	29.90	56	54.3	75	56	56.3	75	sw-n.	1-0	0-3	29.92	29.81	0.00
27	29.97	58	56.7	76	55.5	55.5	69	sw-ne.	1-0	0-1	29.98	29.87	0.00
28	29.95	60	58.7	76	56	58.0	70	nne.	0-3	0-4	30.00	29.90	0.00
29	29.91	66	63	77	60	61.0	80	e-ne.	2-0	1-6	30.00	29.89	0.01
30	29.93	68	65	77	60	62.3	76	nne.	3	5-1	29.99	29.87	0.02
31	29.96	73	68	78	65	64.0	75	ne.	2-5	4	30.01	29.91	0.01
Sums	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means	30.000	67.4	62.5	76.5	65.6	60.7	72	.....	2.5	3.7	30.055	29.949	0.30
Departure	+.050	.....	.....	.....	.....	—2.1	—4.7	.....	.....	.....	.....	.....	.....

Mean temperature for January, 1902, $(6+2+9) \div 3 = 70.8$; normal is 70.1. Mean pressure for Januray, 1902, $(9+3) \div 2 = 29.995$; normal is 29.950.

*This pressure is as recorded at 1 p. m., Greenwich time. †These temperatures are observed at 6 a. m., local, or 4.31 p. m., Greenwich time. ‡These values are the means of $(6+9+2+9) \div 4$. §Beaufort scale.

MEXICAN CLIMATOLOGICAL DATA.

Through the kind cooperation of Señor Manuel E. Pastrana, Director of the Central Meteorologic-Magnetic Observatory, the monthly summaries of Mexican data are now communicated in manuscript, in advance of their publication in the Boletin Mensual. An abstract, translated into English measures, is here given in continuation of the similar tables published in the MONTHLY WEATHER REVIEW since 1896. The barometric means are now reduced to standard gravity.

Mexican data for January, 1902.

Stations.	Altitude.	Mean barometer.	Temperature.			Relative humidity.	Precipitation.	Prevailing direction.	
			Max.	Min.	Mean.			Wind.	Cloud.
	Feet.	*Inch.*	° *F.*	° *F.*	° *F.*	%	*Inch.*		
Chihuahua	4,669	25.20	77.0	32.0	54.3	38	.....	sw.	.....
Guadalajara (Obs. del. Est.)	5,186	24.94	78.3	41.0	60.3	51	.....	nw.	.....
Leon (Guanajuato)	5,906	24.28	75.7	32.7	55.9	53	.....	ne.	.....
Mazatlan	25	29.93	76.6	57.7	69.4	74	T.	nw.	.....
Merida	50	30.05	94.1	48.0	70.7	65	.....	ne.	.....
Mexico (Obs. Cent.)	7,472	23.02	73.0	32.9	53.1	48	.....	ne.	se.
Monterrey (Sem.)	1,626	28.28	89.4	34.2	56.8	72	0.67	w.	.....
Morelia (Seminario)	6,401	23.93	74.1	30.2	55.8	56	.....	ne.	.....
Puebla (Col. Cat.)	7,125	23.31	72.0	37.4	55.6	52	.....	e.	.....
Puebla (Col. d Est.)	7,118	23.33	77.0	29.5	52.9	56	.....	ene.	.....
Queretaro	6,070	24.15	77.0	33.1	56.7	50	.....	e.	.....
Saltillo (Col. S. Juan)	5,399	24.77	75.7	38.3	54.1	63	T.	ne.	.....
S. Isidro (Hac. de Gto)	.....	.....	68.0	51.4	.....	.....	.....	w.	.....
Toluca	8,812	21.93	71.6	22.3	48.2	48	.....	w.	.....
Zapotlan	5,078	25.08	80.1	38.8	61.3	60	.....	sse.	.....