Form No. 1030-Met'l

W.B.O., San Francisco, 3-1-39-275

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

MONTHLY METEOROLOGICAL SUMMARY

Station, SAN FRANCISCO, CALIF. *120th meridian time* *Month,* **February, 1939**

Date	Temperature (°F.) Thermometers over roof, 112 feet above ground: Extremes: Max.	Min.	Mean	Departure from normal	Dry bulb: 4:30 a. m.	Local noon	4:30 p. m.	Moisture: Relative humidity per cent: 4:30 a. m.	Local noon	4:30 p. m.	Vapor pressure, local noon	Precipitation, inches.*: Total: 4:30 a. m. to 4:30 p. m.	Mid. to Mid.	Snowfall, un-melted: 4:30 p. m. to 4:30 p. m.	Depth on ground 4:30 p. m.	Wind: Max. velocity, miles per hour	Direction of max. velocity	Per cent of sunshine.†	Degree Days
1	52	41	46	− 5	41.0	46.6	52.0	74	44	33	.143	0	0	0	0	14	n.	100	9
2	53	43	48	− 3	43.0	45.0	52.0	86	93	75	.277	.07	.51	0	0	19	s.	6	17
3	52	45	48	− 3	46.2	47.4	51.0	84	83	76	.277	.35	.46	0	0	15	w.	28	17
4	56	44	50	− 1	45.0	52.2	55.1	80	65	58	.256	0	0	0	0	12	n.	99	15
5	54	43	48	− 3	44.6	52.3	51.6	94	73	77	.287	T.	T.	0	0	11	sw	17	17
6	53	44	48	− 3	51.8	52.2	50.6	89	74	57	.287	.16	.18	0	0	21	sw.	69	17
7	51	40	56	+ 5	45.2	48.8	51.0	86	82	71	.287	.13	.44	0	0	24	w.	29	9
8	48	39	44	− 8	40.1	47.3	46.7	75	51	56	.164	T.	.03	0	0	20	nw.	88	21
9	46	42	44	− 8	43.0	43.5	43.1	64	71	91	.203	T.	.30	0	0	17	se.	0	21
10	52	43	48	− 4	44.4	52.0	50.0	94	79	77	.298	.01	.02	0	0	11	n.	25	17
11	54	41	48	− 4	42.1	48.0	53.9	81	74	64	.247	0	0	0	0	11	nw.	92	17
12	54	44	49	− 3	46.3	52.2	51.3	86	76	80	.298	T.	T.	0	0	17	w.	21	16
13	59	44	52	0	46.0	55.4	53.2	62	38	63	.172	0	0	0	0	16	w.	95	13
14	58	45	52	0	45.6	56.2	52.8	94	66	88	.298	0	0	0	0	22	w.	69	13
15	60	49	54	+ 2	50.4	57.8	60.1	97	65	58	.310	0	0	0	0	17	w.	85	11
16	64	53	58	+ 6	55.4	60.3	63.9	42	23	22	.118	0	0	0	0	19	n.	100	7
17	75	51	63	+11	56.8	70.6	75.0	28	17	24	.130	0	0	0	0	10	nw.	100	2
18	64	50	57	+ 4	55.9	59.6	58.1	39	46	56	.228	0	0	0	0	17	sw.	90	8
19	58	47	52	− 1	49.8	55.3	55.5	88	56	57	.247	0	0	0	0	19	w.	76	13
20	62	44	53	0	44.6	57.8	60.3	92	37	28	.180	0	0	0	0	11	w.	79	12
21	63	45	54	+ 1	46.4	57.1	63.2	77	38	42	.180	0	0	0	0	11	n.	100	11
22	65	46	56	+ 3	47.6	60.7	60.0	80	44	52	.237	0	0	0	0	18	w.	100	9
23	56	46	51	− 2	47.4	54.2	55.9	91	69	65	.287	0	0	0	0	20	w.	100	14
24	64	48	56	+ 3	53.4	61.0	56.8	50	48	66	.256	0	0	0	0	22	w.	100	9
25	59	46	52	− 1	46.7	57.8	56.1	84	37	55	.180	0	0	0	0	18	w.	100	13
26	60	48	54	+ 1	48.8	54.5	58.8	41	28	29	.118	0	0	0	0	19	nw.	100	11
27	59	45	52	− 1	46.4	55.3	54.0	79	43	71	.187	0	0	0	0	20	w.	77	13
28	60	45	52	− 1	46.2	55.0	60.0	54	29	26	.124	0	0	0	0	18	ne.	100	13
..	..	..	..	....	....	....	....	..	..	..	....	.....	.....	.	.	..	.....	...	..
..	..	..	..	....	....	....	....	..	..	..	....	.....	.....	.	.	..	.....	...	..
..	..	..	..	....	....	....	....	..	..	..	....	.....	.....	.	.	..	.....	...	..
Mean	58.5	45.0	51.8		47.1	54.1	55.4	75	55	58	.224	§0.72	§1.94	§0	§0			74	§365
Normal	57.6	46.8	52.2					84	65	68			3.85					56	

Atmospheric Pressure, (in inches)
(Reduced to sea-level)

Mean.....30.17
Highest.....30.48; date, 14
Lowest.....29.67; date, 3

Temperature

Highest.....75; date, 17
Lowest.....39; date, 8
Greatest daily range.....24; date, 17
Total degree days.....365
Accumulated excess (+) or deficiency (−) since January 1, +43.
Average daily excess (+) or deficiency (−) since January 1, +0.7

Precipitation*

Greatest this month in 5 minutes, .03, date, 7; in 10 minutes, .05, date, 2; in 15 minutes, .06, date, 2; in 30 minutes, .12, date, 2; in 1 hour, .18, date, 2; in 2 hours, .22, date, 2; in 24 hours, 0.93, date, 2-3.

Precipitation—Continued

Excess (+) or deficiency (−) this month as compared with normal, −1.91.
Seasonal precipitation, since July 1, 8.86
Accumulated excess (+) or deficiency (−) since July 1, −7.43.
Annual precipitation, since January 1, 5.01.
Accumulated excess (+) or deficiency (−) since January 1, −3.38.
Greatest snowfall in 24 hours, 0

Weather
(Number of days)

Clear (scale 0 to 3).....11
Partly cloudy (scale 4 to 7).....9
Cloudy (scale 8 to 10).....8
With 0.01 inch or more precipitation.....7
With 0.25 inch or more precipitation.....4
Total sunshine, hours.....222.7

Wind‡

Total movement (miles).....5,526
Average hourly velocity (miles).....8.2
Maximum velocity (miles).....24 on 7th
Prevailing direction.....West

Miscellaneous Phenomena
(Dates of)

Frosts: Light.....11, 20
Heavy.....1
Killing.....0
Auroras.....0
Halos: Solar.....0 Lunar.....0
Hail.....0 Sleet.....0
Dense Fog.....0
Thunderstorms.....0

*"T", trace, amount too small to measure. ‡All wind data are true values. §Sum.
†Number hours possible sunshine: 1st, 10.3; 15th, 10.8; 28th, 11.3; for this month, 302.2.

T. R. REED, Temporarily in Charge (OVER)

Precipitation, February, 1939

Date	Hourly Amounts A. M. 1	2	3	4	5	6	7	8	9	10	11	12	P. M. 1	2	3	4	5	6	7	8	9	10	11	12	Total
1																									0
2									T.	.01	.02	.01	T.	.02	T.	.01		.01	.01	.11	.08	.06	.16	.01	0.51
3	.02	T.	.04	.05	.05	.05	.01	.03	T.	.10	.06	.05	T.	T.	T.										0.46
4																									0
5															T.	T.									T.
6			T.	T.	.01	.05	.05	.04	T.	.01										T			T.	.02	0.18
7	.01	.01	T.	.03	T.		.01	.01	T.	.02	.06	T.	.01	.01	.01		.06	.06	.03	.01	.04	.01	T.	.05	0.44
8	.03		T.		T.																				0.03
9									T.	T.	T.	T.				T.	.01	.04	.05	.09	.04	.03	.03	.01	0.30
10	.01						T.	T.	.01																0.02
11																									0
12											T.		T.	T.	T.	T.									T.
13																									0
14																									0
15																									0
16																									0
17																									0
18																									0
19																									0
20																									0
21																									0
22																									0
23																									0
24																									0
25																									0
26																									0
27																									0
28																									0
..																									
..																									
..																									
Total	0.07	0.01	0.04	0.08	0.06	0.10	0.07	0.08	0.01	0.14	0.14	0.06	0.01	0.03	0.01	0.01	0.07	0.11	0.09	0.21	0.16	0.10	0.19	0.09	1.94

COMPARATIVE DATA FOR THIS MONTH FROM THE RECORDS OF PREVIOUS YEARS

Station, San Francisco, Calif. *Month,* February

	Temperature Mean	Highest	Lowest	Precipitation Total	Greatest in 24 Hours		Temperature Mean	Highest	Lowest	Precipitation Total	Greatest in 24 Hours		Temperature Mean	Highest	Lowest	Precipitation Total	Greatest in 24 Hours		Temperature Mean	Highest	Lowest	Precipitation Total	Greatest in 24 Hours
1871				3.76	....	1890	49.1	64	36	5.16	1.63	1909	51.3	62	42	7.53	1.87	1928	55.1	67	44	1.97	1.14
1872	54.2	64	47	6.90	1.28	1891	51.2	63	40	7.26	3.38	1910	50.4	64	38	2.09	0.64	1929	51.8	72	35	2.14	1.14
1873	50.9	64	40	3.94	0.82	1892	52.4	66	42	2.90	1.03	1911	49.3	67	38	3.02	0.68	1930	56.5	78	43	2.94	1.13
1874	51.2	62	43	2.21	0.81	1893	50.3	69	39	2.75	1.06	1912	54.6	68	44	0.41	0.19	1931	56.7	69	48	1.10	0.41
1875	52.0	63	43	0.32	0.27	1894	48.4	62	33	2.69	1.05	1913	52.4	70	41	0.43	0.29	1932	51.4	75	35	3.00	1.23
1876	52.8	67	41	4.92	1.80	1895	53.8	69	41	2.31	1.44	1914	54.0	67	43	5.04	2.24	1933	51.2	66	40	1.13	0.64
1877	55.8	67	46	1.18	0.52	1896	55.3	72	44	0.28	0.18	1915	52.8	62	44	7.36	1.70	1934	55.6	67	44	4.68	1.37
1878	53.3	65	45	12.52	1.92	1897	50.7	66	38	4.41	1.23	1916	55.8	72	41	3.77	1.60	1935	54.1	70	44	2.38	1.78
1879	54.6	70	44	4.90	1.66	1898	52.6	70	43	2.13	0.78	1917	52.0	73	37	3.81	1.36	1936	53.4	71	40	10.06	3.07
1880	48.8	62	38	1.87	0.64	1899	51.6	80	34	0.10	0.08	1918	51.8	67	40	5.79	1.43	1937	49.9	65	40	4.88	1.12
1881	55.3	69	45	4.65	1.37	1900	53.6	68	44	0.64	0.60	1919	51.6	61	40	9.31	3.36	1938	53.0	71	42	8.49	1.57
1882	48.8	61	38	2.96	0.82	1901	52.2	75	38	5.03	1.95	1920	52.8	70	42	1.23	0.41	1939	51.8	75	39	1.94	0.93
1883	48.8	70	35	1.04	0.71	1902	52.9	65	40	7.27	1.36	1921	52.9	69	40	1.38	0.62						
1884	50.8	71	35	6.65	1.52	1903	48.9	66	37	1.76	0.74	1922	50.2	63	38	5.15	1.58						
1885	55.3	69	46	0.30	0.15	1904	50.8	60	40	5.89	2.73	1923	52.2	73	38	0.77	0.65						
1886	56.8	71	41	0.24	0.18	1905	54.0	71	42	2.70	1.23	1924	57.0	73	46	3.30	1.62						
1887	47.8	67	33	9.24	3.60	1906	55.2	71	46	4.30	1.32	1925	55.2	72	46	7.90	1.60						
1888	53.9	76	42	0.94	0.38	1907	54.9	68	43	3.02	1.52	1926	56.0	75	45	5.40	1.26						
1889	54.0	75	39	0.72	0.59	1908	50.9	65	40	5.39	2.04	1927	54.0	63	44	6.85	1.71						

Temperature (1871-1939)

Highest this month.....80; date, 18, 1899
Lowest this month.....33; date, 5, 1887

Precipitation (1906-1939)

Greatest fall this month in—

5 minutes.....0.23; date, 16, 1915
10 minutes.....0.36; date, 16, 1915
15 minutes.....0.47; date, 16, 1915
30 minutes.....0.54; date, 16, 1915
1 hour.....0.62; date, 2, 1926
2 hours.....0.91; date, 3, 1927
24 hours (1871-1939).....3.60; date, 4-5, 1887

Precipitation—Continued

Greatest snowfall in 24 hours this month since 1871: amount, 3.7; 1887

Greatest total snowfall this month since 1871, 3.7; 1887

Wind* (1890-1938)

Average hourly velocity (miles).....7.8
Prevailing direction.....west

*Wind velocities have been corrected to true values.

Weather (1885-1938)

Average number days this month—

Clear.....10
Partly cloudy.....8
Cloudy.....10

Weather (1871-1938)

Average number days this month—

With 0.01 inch or more of precipitation.....11
With 0.25 inch or more of precipitation.....5
Greatest number of days this month with 0.01 inch or more of precipitation, 20; year, 1909, 1915

Frost (1897-1938)

Average date last killing frost in spring...Jan. 13
Latest date last killing frost in spring.....Mar. 27
Average date first killing frost in autumn. Dec. 29
Earliest date first killing frost in autumn..Dec. 4