Form No. 1030—Met'l

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

W.B.O., San Francisco, 4-3-45—400

City Office: **557 Federal Office Bldg.**
50 Fulton Street

SAN FRANCISCO, CALIFORNIA

MONTHLY METEOROLOGICAL SUMMARY

120th Meridian Time

Airport Station: **San Francisco Airport**
One mile east of San Bruno

March 1945

Date	Temperature (°F.) City office Extremes Max.	Min.	Mean	Departure from normal	Degree days	Airport Extremes Max.	Min.	Mean	Departure from normal	Degree days
1	53	47	50	− 4	15	55	39	47	− 3	18
2	61	48	54	0	11	62	45	54	+ 4	11
3	50	45	48	− 6	17	50	44	47	− 4	18
s4	51	43	47	− 7	18	54	36	46	− 6	20
5	54	44	49	− 5	16	54	43	48	− 3	17
6	53	45	49	− 5	16	53	42	48	− 3	17
7	55	44	50	− 4	15	54	36	45	− 6	20
8	60	46	52	− 2	13	60	39	50	− 1	15
9	60	47	54	0	11	59	47	53	+ 2	12
10	56	48	52	− 2	13	56	48	52	+ 1	13
s11	60	47	54	0	11	60	43	52	+ 1	13
12	60	49	54	0	11	60	46	53	+ 2	12
13	56	49	52	− 2	13	55	47	51	0	14
14	54	46	50	− 4	15	54	47	50	− 1	15
15	52	45	48	− 6	17	53	45	49	− 3	16
16	53	46	50	− 4	15	55	44	50	− 2	15
17	56	45	50	− 4	15	56	43	50	− 2	16
s18	56	44	50	− 4	15	57	37	47	− 5	18
19	62	46	54	0	11	60	39	50	− 2	15
20	55	47	51	− 3	14	56	46	51	− 1	14
21	57	47	52	− 2	13	54	42	48	− 4	17
22	52	46	49	− 5	16	51	45	48	− 4	17
23	54	46	50	− 4	15	52	45	48	− 4	17
24	54	44	49	− 5	16	54	40	47	− 5	18
s25	55	45	50	− 4	15	55	45	50	− 2	15
26	54	45	50	− 4	15	54	44	49	− 3	16
27	57	47	52	− 3	13	58	43	50	− 2	15
28	61	48	54	− 1	11	58	48	53	+ 1	12
29	69	51	60	+ 5	5	68	48	58	+ 6	7
30	72	53	62	+ 7	3	74	48	61	+ 9	4
31	69	50	60	+ 5	5	66	43	54	+ 2	11
Mean	57.1	46.5	51.8	−2.4	§409	57.0	43.5	50.2	−1.2	§457
Normal	60.1	48.2	54.2	.....	§314	.....	.....	51.4	.....	.....

Date	Psychrometric data (thermometers over roofs, 112 above ground at city office and 37 feet at airport) City office Local noon Dry bulb	Wet bulb	Dew point	Relative humidity	Airport 4:30 a. m. Dry bulb	Wet bulb	Dew point	Relative humidity	10:30 a. m. Dry bulb	Wet bulb	Dew point	Relative humidity	4:30 p. m. Dry bulb	Wet bulb	Dew point	Relative humidity	10:30 p. m. Dry bulb	Wet bulb	Dew point	Relative humidity
1	52.9	48.0	43	69	44.2	39.9	34	68	54.0	49.3	45	72	49.5	45.0	40	71	49.0	45.4	42	76
2	59.0	47.3	35	40	49.7	44.9	40	69	53.0	47.0	41	64	54.6	48.0	42	62	48.4	46.0	44	84
3	46.9	45.1	43	87	47.6	44.9	42	82	47.1	46.2	45	94	46.6	43.1	40	82	45.1	42.8	40	82
s4	48.2	42.7	36	63	39.0	38.0	37	92	46.1	42.4	38	74	52.1	45.3	38	58	46.1	44.5	43	88
5	50.9	45.3	39	64	45.0	43.0	41	85	50.0	45.2	40	69	52.3	46.8	41	66	47.2	46.5	46	95
6	50.9	45.0	39	63	46.2	42.6	38	74	51.1	45.7	40	66	51.2	45.8	40	66	45.2	42.9	40	83
7	53.0	45.9	38	57	38.8	38.1	37	94	50.0	45.7	41	72	51.4	46.1	41	66	46.7	44.9	43	88
8	56.4	49.0	42	58	39.3	38.7	38	95	50.0	46.8	44	79	57.9	51.4	46	64	48.9	47.9	47	93
9	58.3	51.5	46	63	48.1	46.5	45	89	51.1	48.4	46	82	54.2	49.6	45	73	49.9	47.9	46	87
10	55.1	51.7	49	79	50.1	48.8	48	92	53.2	51.3	50	88	53.1	51.6	50	90	49.8	48.8	48	94
s11	55.0	51.6	49	80	45.2	44.9	45	98	53.4	50.3	48	81	53.0	51.7	51	92	49.6	47.9	46	89
12	59.2	53.3	49	69	49.4	47.6	46	88	53.1	50.0	47	81	58.4	54.9	52	80	54.3	52.2	51	87
13	54.9	48.6	43	63	50.2	49.4	49	94	52.3	48.7	45	77	51.9	47.7	44	74	47.2	46.1	45	92
14	53.0	49.8	47	80	49.9	47.8	46	87	52.7	50.1	48	83	49.0	48.0	47	94	48.7	48.1	48	96
15	51.9	46.8	42	69	46.7	43.8	41	80	47.4	45.8	44	89	51.0	46.5	42	71	46.1	43.6	41	81
16	46.3	44.0	42	83	45.7	43.2	41	82	46.7	45.0	43	88	51.6	49.4	48	87	51.2	49.8	49	91
17	55.7	48.8	42	61	49.9	47.2	45	82	53.0	46.5	40	61	54.1	48.8	44	68	44.0	42.6	41	90
s18	51.7	45.8	40	64	38.1	38.0	38	99	48.1	44.9	42	78	52.0	45.6	39	60	47.0	43.6	40	76
19	58.7	49.5	41	52	41.6	40.4	39	91	52.7	47.1	42	66	54.4	47.6	41	60	49.4	45.7	42	76
20	50.3	48.9	48	90	50.7	47.0	43	76	54.4	47.4	40	59	48.0	46.5	45	90	46.7	45.4	44	91
21	53.7	48.2	43	67	48.0	46.1	44	87	51.8	48.6	46	80	51.5	47.3	43	73	49.3	45.8	42	77
22	48.4	47.6	48	97	46.8	45.8	45	93	47.1	46.1	45	93	49.0	45.9	43	80	48.1	44.9	42	79
23	52.0	47.0	42	69	46.6	43.2	40	77	50.2	44.8	39	65	52.0	45.9	40	62	47.5	43.6	39	73
24	52.1	46.4	41	64	42.7	41.0	39	88	54.1	47.1	40	59	53.5	46.4	39	58	46.8	43.5	40	77
s25	55.2	50.6	47	72	47.0	45.9	45	92	51.4	49.9	49	90	46.1	45.3	44	94	47.7	44.2	40	76
26	52.8	46.3	40	61	44.2	41.9	39	82	47.8	45.9	44	87	51.1	47.2	43	75	47.5	45.4	43	86
27	56.2	50.1	45	65	44.1	42.3	40	87	50.2	47.8	46	84	54.4	49.9	46	73	48.4	46.7	45	89
28	58.0	51.1	45	62	48.2	47.0	46	92	53.0	49.2	46	76	55.1	50.9	47	75	50.4	48.8	47	89
29	66.5	48.8	28	23	49.0	47.1	45	87	63.1	49.4	35	36	67.5	51.2	35	30	64.1	50.0	35	34
30	71.0	52.1	32	24	56.8	48.1	59	62	64.0	50.4	37	37	64.6	52.4	41	43	52.5	47.7	43	70
31	62.7	54.2	47	57	46.0	43.5	41	82	57.1	51.8	47	70	58.4	54.8	50	74	51.7	48.3	45	78
Mean	54.7	48.4	42	65	46.3	44.1	42	85	51.9	47.6	43	74	53.2	48.2	43	71	48.9	46.2	43	82
Normal	59.2	51.3	44	60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Date	Precipitation City office Total inches, mid. to mid.	Airport Total inches, mid. to mid.	*Wind City office Max. velocity, miles per hour	Direction of max. velocity	Weather City office †Percentage of sunshine	Average cloudiness (scale 0 to 10)
1	0	0	27	w.	70	7
2	0	0	21	w.	100	1
3	.19	.17	23	w.	26	9
s4	0	0	13	w.	75	5
5	.22	.17	20	w.	86	4
6	T.	0	16	w.	95	4
7	0	0	16	w.	71	5
8	0	0	14	w.	86	7
9	0	0	18	w.	82	3
10	0	T.	17	w.	53	8
s11	T.	T.	15	w.	33	9
12	T.	T.	13	sw.	29	9
13	.01	T.	22	w.	65	6
14	.93	.59	14	n.	11	10
15	.02	.07	24	w.	66	5
16	.52	.30	26	se.	0	10
17	.16	.04	20	w.	74	10
s18	0	0	14	w.	77	3
19	0	0	13	w.	60	9
20	.49	.46	17	w.	2	10
21	0	T.	29	w.	95	1
22	.61	.68	20	se.	16	9
23	0	0	24	w.	100	2
24	0	0	12	sw.	83	9
s25	.89	.88	21	se.	14	9
26	.11	.22	16	w.	70	8
27	T.	T.	13	w.	45	6
28	0	0	14	w.	62	9
29	0	0	20	n.	100	8
30	0	0	13	w.	100	4
31	0	0	17	w.	100	0
Mean	§4.15	§3.58	.....	.....	63	6.4
Normal	§3.14	§3.14	.....	.....	64	5.3

ALL DATA BELOW ARE FOR CITY OFFICE EXCEPT ATMOSPHERIC PRESSURE AND FLYING WEATHER WHICH ARE FOR SAN FRANCISCO AIRPORT

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

Mean 30.04
Highest ..... 30.38; date, 18
Lowest ..... 29.62; date, 14

Temperature

Highest ..... 72; date, 30
Lowest ..... 43; date, 4
Greatest daily range ..... 19; date, 31

Accumulated excess (+) or deficiency (−) since January 1, −11

Average daily excess (+) or deficiency (−) since January 1, −0.1

Precipitation (inches)

Greatest this month in—
5 minutes ..... .05, date 5
10 minutes ..... .07, date 5
15 minutes ..... .09, date 5
30 minutes ..... .16, date 14
1 hour ..... .31, date 14
2 hours ..... .45, date 14
24 hours ..... .93, date 14

Excess (+) or deficiency (−) this month as compared with normal, +1.01

Seasonal precipitation, since July 1, 20.85

Precipitation (Continued)

Accumulated excess (+) or deficiency (−) since July 1, +1.42
Seasonal precipitation, since September 1, 20.82
Accumulated excess (+) or deficiency (−) since Sept. 1, +1.42
Annual precipitation, since January 1, 8.91
Accumulated excess (+) or deficiency (−) since January 1, −2.62
Greatest snowfall in 24 hours, 0

***Wind**

Prevailing direction for the month ..... west
Total movement for the month (miles) 6553

Direction	n.	ne.	e.	se.	s.	sw.	w.	nw.	M'th
Aver. hrly. vel.	7.7	6.6	4.8	10.3	5.9	8.7	9.7	8.3	8.8
% of hours	10	1	6	7	4	12	52	8	.....

Weather (Number of days)

Clear (scale, 0 to 3) 6
Partly cloudy (scale, 4 to 7) 10
Cloudy (scale, 8 to 10) 15
With 0.01 inch or more precipitation ... 11
With 0.25 inch or more precipitation ... 5
Total sunshine, hours 233.1

Flying Weather (hours)

Contact..707h 1m Instrument..36h 59m
Ceilin below 500 ft. and/or visibility less than 1 mile 10h 20m

Miscellaneous Phenomena
(Dates of)

Frosts: Light 7
Heavy 4
Killing 0
Auroras 0
Halos: Solar 19, 24, 28
Lunar 24
Hail 0
Sleet 0
Heavy fog 0
Thunderstorms 0

s Opposite date indicates Sunday. § Sum. "T" Trace, amount too small to measure. * All wind velocities are true values. † Also other dates.
‡ Number hours possible sunshine: 1st, 11.4; 16th, 12.0; 31st, 12.6; for this month, 371.0. City office—Lat. 37° 47′ N., Long. 122° 25′ W. Airport—Lat. 37° 37′ N., Long. 122° 23′ W.

(OVER)

Precipitation

San Francisco, California (*city office*) **March 1945**

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																									0
3									T.	.03	.08	.04	.01		.01	.02									0.19
4																									0
5																					T.	.17	.05		0.22
6					T.								T.												T.
7																									0
8																									0
9																									0
10																									0
11																					T.	T.	T.		T.
12															T.	T.	T.	T.	T.	T.	T.				T.
13				T.	.01																	T.	T.		0.01
14						.01	.05	T.					T.	.03	.04	.05	.06	.07	.08	.11	.31	.11	.01		0.93
15						T.	T.	T.	T.	.02															0.02
16							.04	.03	.02	.03	.04	.06	.07	.03	.08	.01		.03	.08	T.					0.52
17		T.	.03				.01										.06	.06							0.16
18																									0
19																									0
20											T.	.01	.07	.02	T.	.12	.12	.09	.03	.01			.02	T.	0.49
21																									0
22		T.	.04	.05	.03	.05	.04	.04	.01	.02	.04	.06	.16	.03	.02										0.61
23																									0
24																									0
25	T.	.03	.11	.07	.09	.05	.06	T.	.02	.01	.04			.03	.11	.19	.07	T.	.01		T.	T.	T.	T.	0.89
26	.01	.01	.01	.04	.01	.01		T.		.02				T.			T.		T.						0.11
27							T.																		T.
28																									0
29																									0
30																									0
31																									0
Total	0.01	0.04	0.19	0.16	0.14	0.12	0.20	0.07	0.05	0.13	0.20	0.19	0.31	0.14	0.26	0.39	0.31	0.25	0.20	0.12	0.31	0.28	0.08	T.	4.15

COMPARATIVE DATA FOR THIS MONTH FROM THE RECORDS OF PREVIOUS YEARS

	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	51.3	74	45	1.31	0.57	1890	53.8	70	41	4.73	1.86	1909	51.8	67	41	3.27	1.16	1928	58.2	77	47	4.65	2.01
1872	54.3	64	48	1.59	0.73	1891	55.0	76	43	1.96	0.68	1910	54.9	77	44	3.78	1.17	1929	54.2	81	43	1.56	0.82
1873	54.5	73	45	0.79	0.54	1892	54.2	80	42	2.85	0.90	1911	49.2	79	42	4.57	1.98	1930	57.4	82	44	3.53	1.68
1874	50.9	62	42	3.36	0.65	1893	51.2	78	40	4.08	0.98	1912	52.4	67	43	4.10	2.09	1931	59.0	76	48	1.68	0.96
1875	51.8	67	42	1.30	0.45	1894	50.6	66	37	0.60	0.34	1913	52.6	77	40	1.47	0.67	1932	57.1	77	45	0.86	0.62
1876	53.2	70	41	5.49	1.59	1895	52.2	70	40	1.89	0.67	1914	58.4	86	43	1.09	0.98	1933	55.4	73	44	2.93	0.90
1877	57.2	73	47	1.08	0.56	1896	54.3	72	33	2.85	0.84	1915	57.9	81	46	3.02	1.91	1934	60.6	81	49	0.07	0.07
1878	55.9	66	46	4.56	1.01	1897	48.9	63	39	4.56	1.42	1916	56.6	77	44	1.33	0.65	1935	52.6	76	41	2.31	0.86
1879	57.2	77	47	8.76	3.31	1898	51.2	74	40	0.24	0.13	1917	51.7	72	41	1.42	0.68	1936	57.4	77	42	1.01	0.74
1880	49.4	66	39	2.68	0.57	1899	52.2	74	42	7.61	2.15	1918	54.9	78	40	2.73	0.75	1937	54.8	76	44	7.05	1.92
1881	54.4	76	40	0.90	0.69	1900	55.2	71	43	1.91	0.90	1919	52.6	67	40	2.74	1.12	1938	52.8	70	43	5.73	0.96
1882	53.4	73	41	3.45	0.86	1901	55.8	78	44	0.80	0.67	1920	52.6	69	41	3.25	0.95	1939	52.8	79	44	2.62	1.86
1883	54.0	74	44	3.01	1.63	1902	51.6	68	41	2.65	0.80	1921	54.6	73	45	2.28	0.74	1940	57.4	72	47	5.32	3.65
1884	54.5	68	45	8.24	2.21	1903	52.2	64	41	6.23	1.30	1922	52.4	69	35	2.38	0.88	1941	58.4	75	48	4.75	2.22
1885	57.7	76	50	1.01	0.55	1904	51.8	66	40	6.01	1.32	1923	56.8	84	44	0.03	0.02	1942	55.2	73	38	2.62	1.21
1886	53.6	73	41	2.07	0.65	1905	57.0	79	43	3.15	1.21	1924	54.5	72	43	1.96	1.19	1943	55.6	70	45	3.18	0.68
1887	55.8	78	45	0.84	0.52	1906	54.0	74	41	5.02	1.37	1925	55.4	79	43	2.63	1.77	1944	55.8	73	44	0.83	0.46
1888	53.4	74	38	3.60	1.34	1907	51.0	69	38	8.42	1.32	1926	60.6	83	49	0.25	0.23	1945	51.8	72	43	4.15	0.93
1889	57.2	79	47	7.78	3.08	1908	54.8	76	40	0.90	0.41	1927	54.2	76	44	2.19	0.58						

Temperature (1871-1945)

Highest this month..... 86; date, 18, 1914
Lowest this month..... 33; date, 3, 1896

Precipitation (1906-1945)

Greatest fall this month in—

5 minutes.....0.25; date, 5, 1912
10 minutes.....0.28; date, 5, 1912
15 minutes.....0.59; date, 5, 1912
30 minutes.....0.83; date, 5, 1912
1 hour.....1.07; date, 5, 1912
2 hours.....1.24; date, 5, 1912
24 hours (1871-1944).....3.65; date, 29-30, 1940
†Also other years

Precipitation—Continued

Greatest snowfall in 24 hours this month since 1871: amount, 1.0; 3d, 1896

Greatest total snowfall this month since 1871, 1.0; 1896

Wind* (1890-1944)

Average hourly velocity (miles).....8.6
Prevailing direction..... west

*Wind velocities have been corrected to true values.

Weather (1885-1944)

Average number days this month—
Clear.....12
Partly cloudy.....10
Cloudy.....9

Weather (1871-1944)

Average number days this month—
With 0.01 inch or more of precipitation.....10
With 0.25 inch or more of precipitation..... 4
Greatest number of days this month with 0.01 inch or more of precipitation..... 23; year, 1904

Frost (1897-1944)

Average date last killing frost in spring...Jan. 10
Latest date last killing frost in spring.....Mar. 27
Average date first killing frost in autumn. Dec. 28
Earliest date first killing frost in autumn..Dec. 4
‡Less than one-half

Extremes in comparative table in **bold face** type.

C. E. NORQUEST.