Form No. 1030-Met'l

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

W.B.O., San Francisco, 2-3-45—400

City Office: 557 Federal Office Bldg.
50 Fulton Street

MONTHLY METEOROLOGICAL SUMMARY

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

SAN FRANCISCO, CALIFORNIA

120th Meridian Time

January 1945

Date	Temperature (°F.) City office Extremes Max.	City office Extremes Min.	City office Mean	City office Departure from normal	City office Degree days	Airport Extremes Max.	Airport Extremes Min.	Airport Mean	Airport Departure from normal	Airport Degree days
1	60	46	53	+ 3	12	61	39	50	+ 3	15
2	50	41	46	− 4	19	49	38	44	− 3	21
3	50	40	45	− 5	20	50	39	44	− 3	21
4	48	39	44	− 6	21	48	35	42	− 5	23
5	51	42	46	− 4	19	50	42	46	− 1	19
6	59	45	52	+ 2	13	56	47	52	+ 5	13
s7	52	42	47	− 3	18	54	44	49	+ 2	16
8	52	44	48	− 2	17	51	44	48	+ 1	17
9	51	43	47	− 3	18	51	42	46	− 1	19
10	58	48	53	+ 3	12	56	48	52	+ 5	13
11	55	48	53	+ 2	13	56	43	50	+ 3	15
12	57	46	52	+ 2	13	58	45	52	+ 5	13
13	60	49	54	+ 4	11	62	44	53	+ 6	12
s14	58	46	52	+ 2	13	57	45	51	+ 4	14
15	56	49	52	+ 2	13	55	48	52	+ 5	13
16	57	49	53	+ 3	12	56	39	48	+ 1	17
17	55	46	50	0	15	55	40	48	+ 1	17
18	56	44	50	0	15	54	39	46	− 1	19
19	54	46	50	0	15	55	40	48	+ 1	17
20	54	45	50	0	15	53	34	44	− 3	21
s21	53	42	48	− 2	17	52	33	42	− 5	23
22	57	42	50	0	15	61	33	47	0	18
23	52	43	48	− 2	17	53	33	43	− 4	22
24	52	45	48	− 2	17	50	36	43	− 4	22
25	55	47	51	+ 1	14	58	42	50	+ 3	15
26	63	45	54	+ 4	11	59	37	48	+ 1	17
27	57	48	52	+ 2	13	59	40	50	+ 2	15
s28	58	45	52	+ 2	13	60	38	49	+ 1	16
29	61	48	54	+ 3	11	66	41	54	+ 6	11
30	53	49	51	0	14	53	45	49	+ 1	16
31	56	50	53	+ 2	12	55	51	55	+ 7	10
Mean	55.2	45.2	50.2	+0.8	§458	55.4	40.8	48.1	+1.0	§520
Normal	54.8	45.0	49.9	.....	§464	.....	.....	47.1	.....	.....

Date	Psychrometric data (thermometers over roofs, 112 above ground at city office and 37 feet at airport) City office Local noon Dry bulb	City office Local noon Wet bulb	City office Local noon Dew point	City office Local noon Relative humidity	Airport 4:30 a. m. Dry bulb	Airport 4:30 a. m. Wet bulb	Airport 4:30 a. m. Dew point	Airport 4:30 a. m. Relative humidity	Airport 10:30 a. m. Dry bulb	Airport 10:30 a. m. Wet bulb	Airport 10:30 a. m. Dew point	Airport 10:30 a. m. Relative humidity	Airport 4:30 p. m. Dry bulb	Airport 4:30 p. m. Wet bulb	Airport 4:30 p. m. Dew point	Airport 4:30 p. m. Relative humidity	Airport 10:30 p. m. Dry bulb	Airport 10:30 p. m. Wet bulb	Airport 10:30 p. m. Dew point	Airport 10:30 p. m. Relative humidity
1	54.2	46.8	39	57	43.4	43.0	43	97	50.0	44.9	39	67	57.8	48.1	38	48	42.9	40.9	39	85
2	49.5	45.0	40	70	41.0	40.8	41	98	43.1	40.9	38	83	48.8	45.1	41	75	42.8	41.4	40	89
3	46.0	43.1	40	80	40.6	39.5	38	91	41.5	40.0	38	88	49.9	45.8	41	70	41.6	40.3	39	90
4	43.9	41.7	39	84	39.0	38.1	37	93	41.1	39.5	38	88	47.0	43.4	39	76	45.0	43.0	41	85
5	49.9	45.1	40	68	44.2	42.9	42	91	46.8	44.1	41	81	49.9	46.2	42	76	48.8	46.4	44	84
6	51.9	48.8	46	80	48.9	47.1	45	88	48.1	46.9	46	92	55.0	51.8	48	78	51.3	49.0	47	85
s7	47.2	44.7	42	83	47.0	46.0	45	93	46.3	45.0	44	90	52.9	49.6	47	79	46.3	45.3	44	93
8	45.2	46.9	45	84	45.2	44.6	44	96	45.2	44.4	44	94	51.3	48.2	45	80	46.2	45.1	44	92
9	47.0	44.8	43	84	43.6	43.3	43	98	46.4	44.8	43	88	50.0	47.2	44	81	49.8	47.8	46	87
10	54.0	52.0	50	87	49.0	48.0	47	94	51.0	50.0	49	94	55.3	53.3	52	88	52.3	51.6	51	96
11	54.1	49.0	44	69	50.0	49.0	48	93	50.9	48.6	46	85	55.0	49.9	45	70	48.1	46.8	46	91
12	53.8	49.1	45	71	48.0	47.0	46	94	50.1	47.9	46	86	56.5	50.7	46	67	49.6	47.8	46	88
13	58.8	51.9	46	62	45.9	45.1	44	94	52.2	50.0	48	86	60.6	55.8	51	71	47.8	47.3	47	97
s14	51.2	48.8	46	82	48.3	48.0	48	98	51.2	49.5	48	89	56.3	51.7	48	74	54.4	54.1	54	98
15	55.3	49.7	45	67	51.2	46.7	42	71	52.8	48.4	44	72	53.9	48.6	44	68	49.6	45.0	40	70
16	54.8	45.0	34	45	45.1	41.9	38	77	49.3	44.7	40	69	54.1	48.7	44	68	49.2	46.3	43	81
17	49.5	48.6	48	94	43.0	41.9	41	92	51.3	49.0	47	85	54.9	52.0	50	82	49.9	46.9	44	81
18	52.0	46.0	40	63	43.5	41.9	40	88	50.9	47.1	43	76	53.2	48.1	43	69	48.0	43.5	38	69
19	52.0	40.8	26	35	42.1	38.6	34	73	51.2	41.1	28	39	52.2	44.9	37	56	45.0	37.9	28	50
20	50.8	41.7	30	44	39.4	35.2	29	65	47.0	41.3	34	61	53.0	42.1	28	37	39.4	36.3	32	77
s21	49.0	39.7	27	41	36.3	34.7	32	85	45.8	40.9	35	65	51.8	41.9	29	41	41.8	38.6	34	75
22	53.0	41.9	27	35	37.7	36.2	34	87	48.0	42.2	35	61	53.4	46.1	36	51	48.7	45.7	43	80
23	48.9	41.9	33	54	35.6	34.5	33	90	45.7	41.6	37	70	52.0	43.8	34	51	40.0	37.6	34	80
24	49.4	41.8	32	52	38.1	36.8	35	89	45.7	41.9	37	72	49.4	43.8	38	64	47.9	44.0	40	74
25	52.0	46.5	41	66	44.5	41.6	38	78	48.7	46.1	44	83	56.3	48.1	40	54	46.3	43.4	40	79
26	56.2	49.1	42	59	41.5	40.3	39	91	51.2	47.3	44	75	58.8	50.6	43	56	47.9	46.5	45	91
27	53.2	47.7	42	65	43.8	43.1	42	94	52.1	48.4	45	77	58.7	50.2	42	54	46.0	44.1	42	86
s28	55.0	48.4	42	61	40.8	40.3	40	96	44.9	44.9	45	100	57.7	51.2	46	64	47.2	44.9	43	84
29	58.2	52.0	47	66	44.6	43.4	42	91	49.2	47.5	46	88	59.4	52.3	46	62	49.8	45.9	42	75
30	50.3	48.6	47	88	50.3	47.5	45	82	49.9	49.2	47	88	52.1	50.2	49	88	51.8	50.0	48	88
31	55.1	51.8	49	80	54.8	51.9	50	83	55.6	52.1	49	80	57.4	54.6	53	84	55.0	53.4	52	87
Mean	51.8	46.4	41	67	44.1	42.5	41	89	48.5	45.5	42	80	54.0	48.4	43	67	47.4	45.0	42	84
Normal	52.5	47.4	42	69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Date	Precipitation City office Total inches, mid. to mid.	Precipitation Airport Total inches, mid. to mid.	*Wind City office Max. velocity, miles per hour	*Wind City office Direction of max. velocity	Weather City office ‡Percentage of sunshine	Weather City office Average cloudiness (scale 0 to 10)
1	0	0	9	n.	100	0
2	0	0	15	n.	78	3
3	0	0	13	n.	77	3
4	0	0	14	n.	46	9
5	T.	0	14	nw.	0	10
6	0	0	9	nw.	42	9
s7	0	0	17	n.	73	4
8	0	0	13	n.	33	8
9	T.	0	10	nw.	0	9
10	T.	T.	6	n.	0	9
11	0	0	9	nw.	0	8
12	0	0	13	n.	75	5
13	0	0	11	nw.	88	6
s14	.02	.02	17	w.	57	4
15	0	.02	17	w.	75	5
16	0	0	15	n.	90	4
17	.12	.06	15	sw.	16	8
18	0	0	14	nw.	95	1
19	0	0	14	nw.	100	1
20	0	0	11	n.	99	1
s21	0	0	10	n.	100	1
22	0	0	13	w.	100	0
23	0	0	13	nw.	100	3
24	0	T.	9	ne.	0	10
25	.01	T.	10	se.	23	8
26	0	0	14	w.	90	3
27	0	0	14	nw.	79	2
s28	0	0	11	n.	70	4
29	0	0	9	nw.	76	6
30	.57	.45	17	se.	0	10
31	.61	.47	18	se.	0	10
Mean	§1.33	§1.02	.....	.....	58	5.3
Normal	§4.54	§4.23	.....	.....	53	6.0

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.....30.15
Highest.....30.42; date, 12
Lowest.....29.75; date, 31

Temperature

Highest.....63; date, 26
Lowest.....39; date, 4
Greatest daily range.....18; date, 26

Accumulated excess (+) or deficiency (−) since January 1, +4

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

Precipitation (inches)

Greatest this month in—
5 minutes.....0.04, date.....31
10 minutes.....0.07, date.....31
15 minutes.....0.11, date.....31
30 minutes.....0.17, date.....31
1 hour.....0.29, date.....30
2 hours.....0.53, date.....30-31
24 hours.....0.75, date.....30-31

Excess (+) or deficiency (−) this month as compared with normal, −3.21

Seasonal precipitation, since July 1, 13.27

Precipitation (Continued)

Accumulated excess (+) or deficiency (−) since July 1, +0.83
Seasonal precipitation, since September 1, 13.24
Accumulated excess (+) or deficiency (−) since Sept. 1, +0.83
Annual precipitation, since January 1, 1.33
Accumulated excess (+) or deficiency (−) since January 1, −3.21
Greatest snowfall in 24 hours, 0

***Wind**

Prevailing direction for the month..... north
Total movement for the month (miles)..... 4751

Direction.....	n.	ne.	e.	se.	s.	sw.	w.	nw.	M'th
Aver.hrly.vel.	6.9	5.9	4.5	6.9	4.6	4.9	6.4	7.3	6.4
% of hours...	34	2	18	13	2	1	13	17	.....

Weather
(Number of days)

Clear (scale, 0 to 3).....11
Partly cloudy (scale, 4 to 7).....8
Cloudy (scale, 8 to 10).....12
With 0.01 inch or more precipitation....5
With 0.25 inch or more precipitation....2
Total sunshine, hours.....175.9

Flying Weather (hours)

Contact.....588h 52m
Instrument..126h 27m Closed...28h 41m

Miscellaneous Phenomena
(Dates of)

Frosts: Light.....4, 23, 24
Heavy.....21, 22
Killing.....0
Auroras.....0
Halos: Solar.....0
Lunar.....24, 25, 29
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, 9.6; 16th, 9.8; 31st, 10.3; for this month, 305.8.
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*) **January 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																									0
4																									0
5											T.														T.
6																									0
7																									0
8																									0
9																						T.			T.
10												T.	T.												T.
11																									0
12																									0
13																									0
14																							.02		0.02
15																									0
16																									0
17										.01	.04	.03		.01	.03	T.									0.12
18																									0
19																									0
20																									0
21																									0
22																									0
23																									0
24																									0
25	T.						T.		T.	T.	.01														0.01
26																									0
27																									0
28																									0
29																									0
30						T.	T.	T.	T.	.02	.03	.01	T.	T.	T.	.02	.01	.03	.02	.04	.03	.01	.05	.30	0.57
31	.22	.01	T.	.01									T.					T.	.04	.02	T.	.01	.12	.18	0.61
Total	0.22	0.01	T.	0.01	0.00	T.	T.	T.	T.	0.03	0.08	0.04	T.	0.01	0.03	0.02	0.01	0.03	0.06	0.06	0.03	0.02	0.19	0.48	1.33

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	....	..	..	3.07	....	1890	46.2	59	36	9.61	2.08	1909	51.5	60	38	10.51	1.61	1928	50.4	63	40	2.40	1.17
1872	52.2	61	43	4.00	2.36	1891	52.2	72	39	0.98	0.75	1910	46.4	59	36	3.24	0.83	1929	47.4	59	36	1.32	0.71
1873	54.8	66	46	1.58	1.02	1892	51.7	66	40	2.42	1.06	1911	51.0	72	41	13.79	2.48	1930	49.6	67	37	4.99	1.28
1874	49.3	61	39	5.66	1.61	1893	47.4	60	36	3.05	1.39	1912	51.8	65	40	2.47	1.05	1931	52.3	68	43	5.50	1.59
1875	49.0	62	39	8.01	2.19	1894	47.7	58	36	5.99	2.61	1913	47.4	68	33	3.84	1.13	1932	49.3	68	38	3.23	1.23
1876	48.8	58	36	7.55	1.76	1895	48.6	63	38	6.99	1.96	1914	51.5	63	42	9.76	1.86	1933	47.0	65	36	5.68	1.21
1877	54.3	69	42	4.32	1.63	1896	52.2	63	40	8.14	1.85	1915	50.8	63	42	6.74	1.10	1934	51.8	72	40	1.03	0.82
1878	52.8	62	39	11.97	1.98	1897	48.6	60	40	2.26	1.08	1916	47.0	58	37	14.59	3.52	1935	50.8	65	39	6.23	1.69
1879	48.8	62	40	3.52	1.04	1898	46.7	59	36	1.12	0.33	1917	47.6	63	34	1.83	1.02	1936	53.8	66	42	5.77	1.67
1880	48.0	60	37	2.23	1.03	1899	53.0	78	40	3.67	0.98	1918	52.7	64	41	0.81	0.45	1937	48.6	55	30	5.26	1.89
1881	54.0	63	44	8.69	4.67	1900	50.7	64	42	4.11	1.92	1919	51.2	63	37	2.57	1.79	1938	51.4	66	40	2.65	0.75
1882	49.4	60	40	1.68	0.57	1901	49.8	62	37	5.79	1.75	1920	52.2	70	38	0.26	0.22	1939	52.0	66	40	3.07	1.68
1883	47.0	60	36	1.92	1.30	1902	46.7	58	38	1.23	0.40	1921	49.5	61	39	6.30	2.65	1940	52.6	67	38	9.98	1.88
1884	50.6	58	43	3.94	1.44	1903	47.9	59	37	3.73	1.01	1922	46.8	61	32	2.41	0.91	1941	51.0	67	44	8.24	1.16
1885	51.1	62	43	2.53	0.97	1904	50.6	65	40	1.05	0.59	1923	48.1	58	36	2.84	0.82	1942	51.2	62	39	4.76	1.80
1886	51.2	68	41	7.42	2.40	1905	51.3	63	40	4.04	1.08	1924	50.2	65	37	2.75	1.09	1943	51.9	65	39	6.15	1.92
1887	52.6	73	42	1.90	0.80	1906	51.6	68	41	3.90	1.06	1925	51.4	66	40	1.62	1.22	1944	51.8	69	41	4.31	1.28
1888	46.7	63	29	6.81	1.58	1907	47.1	61	36	4.41	0.91	1926	48.0	63	36	5.48	2.38	1945	50.2	63	39	1.33	0.75
1889	50.4	64	40	1.28	0.81	1908	50.8	64	40	4.58	2.10	1927	51.3	61	41	3.77	0.80	.....	....	....	....	.....	.....

Temperature (1871-1944)

Highest this month..... 78; date, 26, 1899
Lowest this month ..... 29; date, 15, 1888

Precipitation (1906-1944)

Greatest fall this month in—

5 minutes,.....0.28; date, 1, 1931
10 minutes,.....0.38; date, 21, 1941
15 minutes,.....0.46; date, 21, 1941
30 minutes,.....0.67; date, 21, 1941
1 hour, ...0.72; date, 21, 1941
2 hours,..... ....0.93; date, 12, 1914
24 hours (1871-1944).....4.67; date, 29, 1881

Precipitation—Continued

Greatest snowfall in 24 hours this month since 1871: amount, 0.1.

Greatest total snowfall this month since 1871, 0.1;

Wind* (1890-1943)

Average hourly velocity (miles).....7.5
Prevailing direction..... north

*Wind velocities have been corrected to true values.

Weather (1885-1943)

Average number days this month—
Clear 10
Partly cloudy..... 8
Cloudy 13

Weather (1871-1943)

Average number days this month—
With 0.01 inch or more of precipitation.....12
With 0.25 inch or more of precipitation..... 6
Greatest number of days this month with 0.01 inch or more of precipitation....26; year, 1909, 1916.

Frost (1897-1943)

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.**
NOTE: Greatest precipitation in 24 consecutive hours January 31 and February 1, 1945, 2.27 inches.

C. E. NORQUEST.