Form No. 1030–Met'l

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

W.B.O., San Francisco, 1-2-45—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

December 1944

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	57	50	54	+ 3	11	57	46	52	+ 3	13
2	57	48	52	− 1	13	56	42	49	0	16
3	61	46	54	+ 1	11	58	38	48	− 1	17
4	59	48	54	+ 1	11	62	41	52	+ 3	13
5	60	49	54	+ 1	11	62	41	52	+ 3	13
6	64	49	56	+ 3	9	62	41	52	+ 3	13
7	63	50	56	+ 4	9	60	42	51	+ 2	14
8	65	49	57	+ 5	8	64	44	54	+ 5	11
9	64	49	56	+ 4	9	63	44	54	+ 6	11
s10	55	49	52	0	13	60	43	52	+ 4	13
11	65	50	58	+ 6	7	65	42	54	+ 6	11
12	68	50	59	+ 7	6	67	43	55	+ 7	10
13	62	50	56	+ 4	9	62	41	52	+ 4	13
14	59	50	54	+ 3	11	58	42	50	+ 2	15
15	65	52	58	+ 7	7	62	46	54	+ 6	11
16	62	50	56	+ 5	9	64	42	53	+ 5	12
s17	59	50	54	+ 3	11	58	44	51	+ 3	14
18	57	52	54	+ 3	11	58	47	52	+ 4	13
19	60	53	56	+ 5	9	60	52	56	+ 8	9
20	65	54	60	+ 9	5	64	49	56	+ 9	9
21	60	55	58	+ 8	7	63	53	58	+11	7
22	60	54	57	+ 7	8	62	52	57	+10	8
23	62	52	57	+ 7	8	60	46	53	+ 6	12
s24	56	48	52	+ 2	13	54	42	48	+ 1	17
25	53	48	50	0	15	54	43	48	+ 1	17
26	50	45	48	− 2	17	50	46	48	+ 1	17
27	53	47	50	0	15	53	40	46	− 1	19
28	53	45	49	− 1	16	54	41	48	+ 1	17
29	53	45	49	− 1	16	56	37	46	− 1	19
30	52	45	48	− 2	17	51	38	44	− 3	21
s31	54	45	50	0	15	53	38	46	− 1	19
Mean	59.1	49.3	54.2	+2.9	§337	59.1	43.4	51.2	+3.3	§424
Normal	56.1	46.5	51.3	.....	§426	.....	.....	47.9	.....	.....

Date	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	52.2	50.4	49	88	53.0	52.0	51	94	54.5	50.4	47	76	52.9	50.0	48	82	48.1	46.6	45	89
2	55.8	50.0	45	67	44.5	44.1	44	97	53.7	49.7	46	76	53.2	48.9	45	74	49.3	46.5	44	81
3	56.3	50.2	45	65	41.5	41.1	41	97	53.6	49.5	46	75	55.8	51.4	48	74	48.6	46.4	44	85
4	56.8	48.8	41	55	42.3	42.0	42	98	53.1	47.1	41	64	53.0	50.5	44	69	49.3	45.4	41	74
5	56.2	51.1	47	70	43.9	43.4	43	96	52.2	47.8	42	69	59.6	51.0	43	55	46.6	44.6	43	86
6	62.0	54.6	49	62	44.6	44.0	43	96	52.1	49.6	47	83	61.8	54.1	48	61	47.8	46.4	45	91
7	59.0	53.2	49	68	48.3	47.6	47	95	51.2	49.8	49	91	57.3	51.4	46	67	48.5	46.1	44	84
8	64.7	52.6	42	43	47.7	47.1	46	96	54.9	51.8	49	81	60.0	52.1	45	58	49.1	47.0	45	86
9	59.8	51.9	45	58	48.0	47.4	47	96	54.1	50.2	47	76	60.2	52.9	47	62	49.9	47.6	45	84
s10	54.4	48.6	43	65	45.0	44.1	43	93	51.1	49.9	46	75	57.7	50.3	44	59	49.4	45.3	41	73
11	61.0	51.1	42	50	44.7	41.9	39	79	54.4	47.3	40	59	60.2	51.8	44	56	48.5	44.8	41	75
12	62.7	48.8	34	34	46.2	41.8	37	69	57.3	48.8	40	53	64.2	49.2	33	31	54.5	44.9	34	45
13	57.8	49.0	40	52	40.6	39.1	37	88	52.3	47.4	43	70	58.7	48.8	39	47	46.3	42.5	38	73
14	56.5	45.8	34	42	44.1	39.9	35	69	52.1	45.8	39	61	57.2	46.5	35	43	50.3	45.2	40	67
15	61.1	49.9	39	44	46.8	44.9	43	86	55.3	48.5	42	61	61.2	50.9	41	48	47.8	45.6	43	85
16	59.0	50.3	42	54	44.0	42.8	42	91	54.1	49.2	45	70	62.3	51.8	42	48	52.9	50.0	48	82
s17	58.4	50.1	42	55	48.9	47.0	45	87	51.2	48.9	47	85	55.8	51.5	48	75	51.8	47.8	44	75
18	56.7	51.0	46	68	51.3	48.4	46	82	54.0	50.1	47	76	51.8	50.8	50	93	52.3	51.7	51	96
19	56.1	54.8	54	93	52.1	51.5	51	96	54.1	53.4	53	95	55.9	54.8	54	94	57.6	54.3	52	81
20	59.4	55.1	52	76	51.1	52.7	52	91	57.4	54.2	52	82	62.1	56.0	52	69	56.0	53.2	51	84
21	59.0	54.0	50	72	55.1	52.8	51	86	57.2	54.3	52	84	57.9	55.0	53	83	58.9	55.8	54	83
22	60.0	55.8	53	78	55.0	54.4	54	97	59.5	56.9	55	86	54.9	54.0	53	95	53.2	52.6	52	96
23	59.1	53.9	50	71	48.3	48.2	48	99	52.0	51.5	51	96	58.9	54.8	52	78	50.9	50.0	49	94
s24	52.0	50.3	49	89	46.3	45.9	46	98	48.3	48.2	48	100	50.0	50.0	50	100	48.0	47.7	47	97
25	58.1	49.8	47	80	47.1	46.2	45	93	49.8	48.5	47	91	53.0	50.0	47	81	50.0	48.2	47	88
26	46.9	44.5	42	83	47.6	45.8	44	88	47.4	45.5	44	87	49.1	46.8	45	85	48.1	46.8	46	92
27	48.4	47.4	46	93	48.1	46.6	45	90	52.8	49.6	47	80	46.9	46.5	46	97	41.8	41.8	42	100
28	47.8	45.2	42	82	44.9	44.7	44	98	51.8	49.9	48	87	50.9	46.9	43	74	46.9	44.0	41	80
29	50.0	47.7	46	84	41.7	41.5	41	99	50.2	47.3	45	81	51.9	47.9	44	75	46.6	45.1	44	90
30	50.0	46.3	43	76	42.3	41.8	41	96	46.9	45.2	44	89	49.2	45.9	43	78	45.3	43.4	41	86
s31	52.2	46.0	40	64	40.0	39.6	39	97	45.2	42.2	39	78	51.4	47.1	43	72	47.8	44.8	42	80
Mean	56.3	50.3	45	67	46.7	45.5	44	92	42.8	49.3	46	79	56.1	50.6	46	70	50.7	47.3	45	83
Normal	54.5	48.9	43	68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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	.54	.22	17	s.	34	9
2	0	0	14	w.	91	5
3	0	0	9	w.	100	3
4	0	0	11	n.	89	0
5	0	0	12	n.	100	0
6	0	0	9	nw.	89	1
7	0	0	12	nw.	63	10
8	0	0	9	ne.	72	9
9	0	0	8	n.	87	3
s10	T.	0	14	n.	35	8
11	0	0	10	n.	79	3
12	0	0	9	e.	94	4
13	0	0	8	e.	35	8
14	0	T.	11	n.	8	9
15	0	0	7	w.	44	7
16	0	0	6	n.	58	4
s17	0	0	9	n.	31	8
18	.29	.20	9	n.	0	9
19	.23	.13	10	se	0	10
20	.01	.01	7	n.	19	7
21	.02	.02	16	se.	0	10
22	1.31	1.10	12	se.	17	9
23	0	.02	9	se.	83	4
s24	0	0	10	w.	46	6
25	0	0	10	n.	48	6
26	0	0	13	e.	3	9
27	.46	.49	17	se.	0	9
28	.71	.55	19	sw.	13	8
29	.49	.08	10	s.	19	9
30	0	0	10	n.	69	6
s31	0	0	9	n.	57	9
Mean	§3.97	§2.82	.....	.....	48	6.5
Normal	§3.95	§3.95	.....	.....	56	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.....30.11
Highest.....30.48; date, 31
Lowest.....29.85; date, 22

Temperature

Highest.....68; date, 12
Lowest.....45; date, 30
Greatest daily range.....18; date, 12

Accumulated excess (+) or deficiency (−) since January 1, +64

Average *daily excess* (+) *or deficiency* (−) since January 1, +0.2

Precipitation (inches)

Greatest this month in—
5 minutes.....0.09, date.....28
10 minutes.....0.17, date.....28
15 minutes.....0.21, date.....28
30 minutes.....0.28, date.....28
1 hour.....0.40, date.....22
2 *hours*.....0.64, date.....22
24 hours.....1.31, date.....22

Excess (+) or deficiency (−) this month as compared with normal, +0.02

Seasonal precipitation, since July 1, 11.94

Precipitation (Continued)

Accumulated excess (+) or deficiency (−) since July 1, +4.04
Seasonal precipitation, since September 1, 11.91
Accumulated excess (+) or deficiency (−) since Sept. 1, +4.04
Annual precipitation, since January 1, 25.55
Accumulated excess (+) or deficiency (−) since January 1, +3.51
Greatest snowfall in 24 hours, 0

***Wind**

Prevailing direction for the month.....north
Total movement for the month (miles).....3812

Direction	n.	ne.	e.	se.	s.	sw.	w.	nw.	M'th
Aver.hrly.vel.	5.5	4.5	4.4	5.2	4.8	6.2	5.9	5.0	5.1
% of hours	30	2	27	14	7	4	10	6	.....

Weather (Number of days)

Clear (scale, 0 to 3).....6
Partly cloudy (scale, 4 to 7).....9
Cloudy (scale, 8 to 10).....16
With 0.01 inch or more precipitation....9
With 0.25 inch or more precipitation....6
Total sunshine, hours.....142.2

Flying Weather (hours)

Contact.....645h 42m
Instrument...70h 30m Closed...27h 48m

Miscellaneous Phenomena
(Dates of)

Frosts: Light.....0
Heavy.....0
Killing.....0
Auroras.....0
Halos: Solar.....7, 8, 31
Lunar.....8, 9
Hail.....0
Sleet.....0
Heavy fog.....24
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, 9.7; 16th, 9.5; 30th, 9.6; for this month, 296.6. 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*) **December 1944**

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	.03	.01	.01	.03	.28	.04				T.	.02	.07	.03	T.						T.	T.	T.	.02		0.54
2																									0
3																									0
4																									0
5																									0
6																									0
7																									0
8																									0
9																									0
10														T.	T.										T.
11																									0
12																									0
13																									0
14																									0
15																									0
16																									0
17																									0
18													.02	.16	.05	T.	.02	.02	T.		.02	T.			0.29
19			.02	.01			.02	.04	.05	.01	.02	.03	.01	.01	T.	T.	T.						T.	.01	0.23
20	.01	T.																							0.01
21				T.		T.	T.		.01	.01	T.	T.	T.		T.										0.02
22					.13	.05	T.	.01	.03	.01				.07	.24	.41	.07	.06	T.	.10	.01	.10	T.	.02	1.31
23																									0
24																									0
25																									0
26																									0
27										T.	.16	.07	.09	.06	.05	.02								.01	0.46
28			T.	.01	.02	.01	.02	.05	.01	.08	.32	.12	.01	.01	.01					.01	T.	.01		.02	0.71
29	.03							.01	.06	.11		.01	.01	.04	.01							T.	.12		0.40
30																									0
31																									0
Total	.07	0.01	0.03	0.05	0.43	0.10	0.04	0.11	0.16	0.22	0.52	0.30	0.17	0.35	0.36	0.43	0.09	0.08	T.	0.11	0.03	0.11	0.14	0.06	3.97

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	52.9	62	42	**14.36**	3.14	1890	49.8	60	39	3.25	1.90	1909	49.2	63	38	5.59	1.41	1928	49.6	63	36	4.89	1.40
1872	52.1	62	41	5.95	2.33	1891	49.6	64	37	5.62	2.21	1910	53.0	68	43	1.73	0.99	1929	54.2	**74**	39	3.09	1.29
1873	50.7	59	44	9.72	2.33	1892	51.1	64	38	5.08	2.34	1911	51.7	71	39	2.54	0.66	1930	52.1	63	39	0.98	1.32
1874	50.3	62	40	0.33	0.15	1893	52.4	72	37	2.25	0.97	1912	51.6	67	41	1.30	0.59	1931	49.4	60	39	9.24	2.69
1875	51.4	65	39	4.15	1.50	1894	49.7	61	40	9.01	1.64	1913	50.6	66	41	5.41	1.14	1932	47.4	65	**27**	2.75	1.07
1876	53.0	64	42	**0.00**	**0.00**	1895	48.6	60	39	1.43	0.51	1914	48.7	67	41	5.49	1.59	1933	50.5	64	39	4.19	1.43
1877	52.7	61	42	2.66	1.11	1896	52.8	64	42	4.34	1.65	1915	52.2	66	36	6.42	3.40	1934	52.9	69	42	4.06	1.51
1878	51.6	68	40	0.58	0.33	1897	50.7	63	39	1.22	1.02	1916	48.9	62	37	4.79	1.30	1935	52.8	63	43	3.25	1.33
1879	50.0	64	34	4.46	1.55	1898	49.7	66	38	1.62	0.70	1917	54.6	68	43	0.72	0.67	1936	51.6	67	40	2.91	1.06
1880	53.2	61	42	12.33	2.36	1899	49.6	63	37	2.65	1.17	1918	50.2	64	38	2.62	1.49	1937	51.8	69	42	3.73	1.93
1881	51.0	63	43	3.85	1.35	1900	50.2	63	46	1.37	0.74	1919	48.8	62	37	3.21	1.09	1938	53.6	67	43	1.48	0.70
1882	52.8	65	34	2.01	0.76	1901	52.9	72	41	0.90	0.34	1920	51.0	61	42	7.48	2.02	1939	55.3	69	44	1.05	0.24
1883	50.8	62	40	0.92	0.28	1902	50.6	62	39	2.32	0.85	1921	52.9	66	44	6.39	2.04	1940	55.4	71	42	6.25	1.20
1884	52.8	64	40	7.68	2.07	1903	52.4	66	42	1.63	1.06	1922	50.6	61	41	7.77	1.81	1941	53.4	68	41	7.29	1.96
1885	54.0	67	44	4.99	2.78	1904	50.6	61	38	1.59	0.57	1923	51.0	65	42	1.91	1.18	1942	52.1	68	43	2.87	1.21
1886	53.6	66	43	2.07	1.10	1905	50.7	67	39	2.05	0.65	1924	47.8	62	36	7.37	**3.44**	1943	53.6	68	45	2.69	1.17
1887	52.2	69	40	3.34	1.14	1906	49.6	61	40	6.90	2.47	1925	52.7	70	40	1.01	0.50	1944	54.2	68	45	3.97	1.31
1888	53.2	65	43	5.80	1.51	1907	52.4	68	41	3.66	0.96	1926	51.5	68	39	1.04	0.35						
1889	51.3	63	40	13.81	1.46	1908	47.6	61	35	2.16	0.99	1927	51.8	72	43	3.94	0.91						

Temperature (1871-1944)

Highest this month ..... 74; date, 5, 1929
Lowest this month ..... 27; date, 11, 1932

Precipitation (1906-1944)

Greatest fall this month in—

5 minutes ..... 0.21; date, 22, 1913
10 minutes ..... 0.28; date, 24, 1940
15 minutes ..... 0.36; date, 10, 1906
30 minutes ..... 0.50; date, 10, 1906
1 hour ..... 0.70; date, 21, 1924
2 hours ..... 1.09; date, 21, 1924
24 hours (1871-1944) ..... 3.44; date, 20-21, 1924

Precipitation—Continued

Greatest snowfall in 24 hours this month since 1871: amount, 3.5.

Greatest total snowfall this month since 1871, 3.5;

Wind* (1890-1943)

Average hourly velocity (miles) 7.2
Prevailing direction ..... north

*Wind velocities have been corrected to true values.

Weather (1885-1943)

Average number days this month—
Clear 11
Partly cloudy 8
Cloudy 12

Weather (1871-1943)

Average number days this month—
With 0.01 inch or more of precipitation 10
With 0.25 inch or more of precipitation 5
Greatest number of days this month with 0.01 inch or more of precipitation, ...24; year, 1889.

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.

C. E. NORQUEST.