WB Form 1030

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

W.B.O., San Francisco, 8-1-45—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

July 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
s1	63	55	59	0	6	74	54	64	+ 5	1
2	62	57	60	+ 1	5	71	54	62	+ 3	3
3	63	55	59	0	6	72	55	64	+ 5	1
4	64	56	60	+ 1	5	72	54	63	+ 4	2
5	62	55	58	− 1	7	66	55	60	+ 1	5
6	62	54	58	− 1	7	65	54	60	+ 1	5
7	61	55	58	− 1	7	68	54	61	+ 2	4
s8	64	56	60	+ 1	5	69	53	61	+ 2	4
9	63	57	60	+ 1	5	66	56	61	+ 2	4
10	64	56	60	+ 1	5	69	54	62	+ 3	3
11	63	55	59	+ 1	6	65	55	60	+ 1	5
12	61	55	58	0	7	65	56	60	0	5
13	62	54	58	0	7	64	55	60	0	5
14	60	54	57	− 1	8	66	54	60	0	5
s15	68	55	62	+ 4	3	70	53	62	+ 2	3
16	66	55	60	+ 2	5	74	52	63	+ 3	2
17	65	56	60	+ 2	5	77	51	64	+ 4	1
18	59	55	57	− 1	8	64	54	64	+ 4	1
19	65	54	60	+ 2	5	64	54	59	0	6
20	70	56	63	+ 5	2	76	49	62	+ 3	3
21	65	55	60	+ 2	5	67	53	60	+ 1	5
s22	69	58	64	+ 6	1	70	58	64	+ 5	1
23	67	56	62	+ 4	3	69	56	62	+ 3	3
24	68	55	62	+ 4	3	68	56	62	+ 3	3
25	75	56	66	+ 8	0	77	49	63	+ 4	2
26	65	53	59	+ 1	6	66	52	59	0	6
27	60	52	56	− 2	9	66	52	59	0	6
28	64	54	59	+ 1	6	75	50	62	+ 3	3
s29	63	55	59	+ 1	6	73	54	64	+ 5	1
30	64	53	58	0	7	68	53	60	+ 1	5
31	61	52	56	− 2	9	69	49	59	0	6
Mean	64.1	55.0	59.6	+1.1	§169	69.2	53.5	61.4	+2.1	§109
Normal	64.5	52.5	58.5	.....	§198	.....	.....	59.3	.....	.....

Psychrometric data (thermometers over roofs, 112 above ground at city office and 37 feet at airport)

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
s1	62.0	58.0	55	79	55.4	54.1	53	92	68.4	62.0	58	70	65.3	60.0	57	74	57.2	56.2	56	94
2	61.7	57.5	55	77	58.2	57.2	56	94	66.7	60.6	57	70	65.1	59.2	55	71	56.1	55.2	55	95
3	61.1	57.1	54	78	56.0	54.5	53	91	63.4	59.0	56	78	70.2	62.0	57	63	57.0	55.8	55	93
4	63.5	58.0	54	72	57.5	55.1	53	86	67.1	60.4	56	68	67.8	61.0	57	68	56.7	55.6	55	94
5	60.2	56.4	54	78	57.5	56.0	55	91	62.1	57.8	55	77	62.1	57.8	55	77	55.6	54.2	53	92
6	59.2	54.9	52	76	55.3	54.1	53	93	58.0	54.9	53	83	61.0	56.8	54	78	56.1	54.1	53	88
7	60.0	55.8	53	77	55.4	53.7	52	90	63.9	58.0	54	70	62.0	58.0	55	79	56.7	55.2	54	92
s8	61.8	57.2	54	76	55.0	54.0	53	94	63.2	58.8	56	77	67.0	60.3	56	68	60.0	57.1	55	84
9	60.7	57.9	56	85	58.8	57.0	56	89	63.1	59.2	57	79	65.2	60.0	57	74	58.0	56.4	55	91
10	63.5	58.4	55	74	54.5	54.2	54	98	65.9	60.0	56	71	62.2	58.6	56	81	56.8	55.3	54	91
11	60.0	56.9	55	83	55.6	54.7	54	95	62.3	57.4	54	74	61.2	57.2	54	78	57.1	55.9	55	93
12	59.8	56.2	54	80	56.0	54.3	53	91	62.3	57.2	54	73	63.0	58.1	55	74	57.0	55.1	54	89
13	59.7	56.2	54	81	56.0	54.4	53	91	61.1	57.1	54	78	61.8	57.6	55	78	55.0	54.1	53	94
14	59.0	55.0	52	78	55.0	54.0	53	94	58.7	55.3	53	81	61.2	56.7	54	76	57.8	55.2	53	85
s15	64.1	58.0	54	69	53.6	52.2	51	91	64.1	59.0	56	74	66.5	59.9	56	68	55.1	54.8	55	98
16	62.6	58.1	55	77	52.7	52.0	52	96	64.2	60.0	57	79	68.0	61.0	57	67	57.9	56.1	55	89
17	62.3	57.7	55	75	53.0	52.0	51	93	65.0	59.5	56	73	65.0	59.1	55	71	55.1	53.1	52	88
18	58.0	53.9	51	77	54.9	52.6	51	86	57.7	54.2	52	80	60.2	55.9	53	76	56.4	53.9	52	86
19	61.1	55.3	51	70	55.0	52.8	51	87	58.2	54.2	51	77	61.6	56.6	53	74	56.6	54.2	52	86
20	69.4	58.9	52	53	50.8	49.5	48	91	69.2	60.3	55	60	67.1	60.0	56	66	56.0	54.5	53	91
21	64.1	59.3	56	76	54.3	53.6	53	96	62.1	58.8	57	82	66.1	60.5	57	73	59.8	58.5	58	93
s22	67.3	61.4	58	72	58.4	58.0	58	97	64.1	60.8	59	83	68.0	63.0	60	76	63.9	60.0	58	80
23	63.0	58.6	56	77	56.7	55.5	55	93	60.1	56.6	54	81	66.0	58.1	53	62	59.5	55.5	53	78
24	66.8	59.0	54	62	56.7	54.8	54	89	62.0	57.2	54	74	65.1	59.0	55	70	58.9	55.9	54	83
25	70.8	60.5	54	55	52.3	51.7	51	96	74.0	63.0	56	54	73.8	63.2	57	55	60.0	56.0	53	78
26	62.4	56.9	53	72	54.0	53.0	52	94	64.4	59.0	56	73	62.3	58.0	55	78	54.0	53.2	52	94
27	59.1	55.0	52	77	54.4	53.2	52	92	62.9	57.9	55	74	62.0	57.9	55	78	54.5	53.2	52	92
28	63.9	58.2	54	72	51.5	50.6	50	94	63.2	59.5	57	80	70.9	62.2	57	61	57.5	55.5	54	89
s29	62.4	58.1	55	78	56.5	54.9	54	91	64.9	59.5	56	73	63.6	59.3	56	78	56.7	55.3	54	92
30	61.7	56.8	53	74	56.8	55.6	55	93	63.8	60.0	58	80	60.2	56.4	54	79	54.4	52.6	51	89
31	61.0	56.2	53	74	51.3	50.5	50	95	63.9	59.5	57	77	61.0	56.9	54	78	52.3	51.4	51	94
Mean	62.3	57.3	54	74	55.1	53.9	53	92	63.5	58.6	55	75	64.6	59.0	55	73	57.0	55.1	54	90
Normal	63.0	57.0	53	70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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)
s1	0	0	23	w.	62	5
2	0	0	24	w.	47	9
3	0	0	22	w.	49	7
4	0	0	19	w.	57	5
5	T.	0	25	w.	50	6
6	0	0	23	w.	47	6
7	0	0	19	w.	52	7
s8	0	0	17	w.	41	9
9	T.	.01	19	w.	17	9
10	0	T.	22	w.	48	9
11	T.	T.	19	w.	34	9
12	0	0	20	w.	49	8
13	T.	T.	21	w.	38	9
14	T.	T.	18	w.	31	8
s15	0	0	22	w.	73	4
16	0	0	27	w.	53	5
17	0	0	20	w.	74	4
18	T.	0	18	w.	5	9
19	0	0	23	w.	71	4
20	T.	0	23	w	95	1
21	T.	0	26	w.	75	4
s22	0	T.	25	w.	100	2
23	0	T.	27	w.	79	4
24	0	0	21	w.	100	1
25	0	0	20	w.	98	1
26	0	0	20	w.	81	1
27	0	0	23	w.	41	8
28	0	0	22	w.	59	5
s29	0	0	18	w.	50	7
30	0	0	23	w.	60	5
31	0	0	23	w.	69	5
Mean	§ T.	§0.01	.....	.....	58	5.7
Normal	§0.02	§0.02	.....	.....	69	4.5

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 29.93
Highest ..... 30.10; date, 21
Lowest ..... 29.76; date, 28

Temperature

Highest ..... 75; date, 25
Lowest ..... 52; date, 27
Greatest daily range..... 19; date, 25
Accumulated excess (+) or deficiency (−) since January 1, +92
Average daily excess (+) or deficiency (−) since January 1, +0.4

Precipitation (inches)

Greatest this month in—
5 minutes ..... T. date..... †5
10 minutes ..... T. date..... †5
15 minutes ..... T. date..... †5
30 minutes ..... T. date..... †5
1 hour..... T. date..... †5
2 hours..... T. date..... †5
24 hours..... T. date..... †5

Excess (+) or deficiency (−) this month as compared with normal, −0.02
Seasonal precipitation, since July 1, ... T.

Precipitation (Continued)

Accumulated excess (+) or deficiency (−) since July 1, ... −0.02
Seasonal precipitation, since September 1, ... 21.79
Accumulated excess (+) or deficiency (−) since Sept. 1, ... −0.22
Annual precipitation, since January 1, ... 9.88
Accumulated excess (+) or deficiency (−) since January 1, .. −4.26
Greatest snowfall in 24 hours 0

***Wind**

Prevailing direction for the month..... west
Total movement for the month (miles)..... 8387

Direction....	n.	ne.	e.	se.	s.	sw.	w.	nw.	M'th
Aver.hrly.vel.	0	0	3.3	5.0	3.1	9.1	12.0	3.0	11.3
% of hours...	0	0	0	0	1	20	79	0	.....

Weather (Number of days)

Clear (scale, 0 to 3)..... 5
Partly cloudy (scale, 4 to 7)..... 16
Cloudy (scale, 8 to 10)..... 10
With 0.01 inch or more precipitation .. 0
With 0.25 inch or more precipitation .. 0
Total sunshine, hours..... 261.2

Flying Weather (hours)

Contact..633h 9m Instrument..110h 51m
Ceiling below 500 ft. and/or visibility less than 1 mile..9h 40m

Miscellaneous Phenomena
(Dates of)

Frosts: Light 0
Heavy..... 0
Killing 0
Auroras 0
Halos: Solar 0
Lunar 0
Hail 0
Sleet..... 0
Heavy fog..... 0
Thunderstorms..... 0

s Opposite date indicates Sunday.
‡ Number hours possible sunshine: 1st, 14.8; 16th, 14.5; 31st, 14.2; for this month, 449.8.
§ Sum.
"T" Trace, .005 inch or less.
City office—Lat. 37° 47′ N., Long. 122° 25′ W. Airport—Lat. 37° 37′ N., Long. 122° 23′ W.
* All wind velocities are true values.
† Also other dates.

(OVER)

Precipitation

San Francisco, California (*city office*) **July 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.																			T.
6																									0
7																									0
8																									0
9											T.	T.	T.	T.	T.										T.
10																									0
11						T.	T.																		T.
12																									0
13								T.	T.	T.													T.	T.	T.
14	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.															T.
15																									0
16																									0
17																									0
18									T.	T.	T.	T.	T.												T.
19																									0
20																							T.	T.	T.
21	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.															T.
22																									0
23																									0
24																									0
25																									0
26																									0
27																									0
28																									0
29																									0
30																									0
31																									0
Total	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	T.	T.

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	56.6	66	50	0.00	0.00	1890	59.8	80	49	0.02	0.02	1909	57.8	77	49	T.	T.	1928	58.6	75	50	T.	T.
1872	57.9	70	52	0.01	0.01	1891	59.4	81	50	0.10	0.09	1910	56.4	76	48	T.	T.	1929	61.5	85	52	T.	T.
1873	58.1	74	52	0.01	0.01	1892	58.1	90	50	0.00	0.00	1911	56.4	84	49	T.	T.	1930	58.6	84	50	0.00	0.00
1874	57.8	73	49	0.00	0.00	1893	56.6	74	47	0.02	0.02	1912	57.9	71	49	T.	T.	1931	62.3	99	51	T.	T.
1875	58.8	71	52	0.00	0.00	1894	56.4	76	48	T.	T.	1913	60.6	90	50	0.07	0.06	1932	59.7	74	50	T.	T.
1876	59.1	76	51	0.01	0.01	1895	58.4	83	50	0.01	0.01	1914	57.0	73	49	0.02	0.02	1933	59.5	82	49	0.00	0.00
1877	60.8	76	53	0.02	0.02	1896	59.4	72	50	0.04	0.04	1915	60.2	79	51	0.01	0.01	1934	60.0	77	51	0.01	0.01
1878	58.6	73	51	0.01	0.01	1897	58.2	82	47	T.	T.	1916	60.0	84	49	0.03	0.03	1935	60.2	82	51	T.	T.
1879	58.7	76	51	0.01	0.01	1898	56.2	88	47	0.00	0.00	1917	59.8	88	49	T.	T.	1936	59.4	73	50	0.03	0.03
1880	58.8	78	52	0.00	0.00	1899	55.9	73	48	0.00	0.00	1918	58.8	75	49	T.	T.	1937	59.3	77	51	T.	T.
1881	59.7	83	49	0.00	0.00	1900	58.2	73	48	T.	T.	1919	57.0	78	47	0.01	0.01	1938	58.8	74	51	0.01	0.01
1882	59.5	73	52	0.00	0.00	1901	55.6	75	47	T.	T.	1920	57.8	72	48	T.	T.	1939	59.0	80	50	T.	T.
1883	59.8	80	50	0.00	0.00	1902	59.2	77	47	T.	T.	1921	59.8	94	50	0.00	0.00	1940	60.2	79	52	T.	T.
1884	61.4	83	52	T.	T.	1903	57.2	91	48	0.00	0.00	1922	60.2	74	50	T.	T.	1941	60.2	71	53	0.01	0.01
1885	61.6	78	54	0.06	0.05	1904	57.1	73	50	0.02	0.02	1923	60.8	82	51	0.00	0.00	1942	59.7	70	51	0.01	0.01
1886	60.3	78	50	**0.23**	**0.23**	1905	59.5	93	49	0.00	0.00	1924	59.0	70	50	0.00	0.00	1943	59.0	74	50	T.	T.
1887	56.6	70	49	T.	T.	1906	57.6	82	49	0.08	0.05	1925	61.2	79	51	0.06	0.06	1944	57.3	67	50	0.01	0.01
1888	61.4	93	51	0.01	0.01	1907	58.0	78	50	T.	T.	1926	61.1	86	51	0.00	0.00	1945	59.6	75	52	T.	T.
1889	58.8	83	50	0.01	0.01	1908	57.3	77	48	0.02	0.02	1927	58.6	72	50	T.	T.						

Temperature (1871-1945)

Highest this month ..... 99; date, 8, 1931
Lowest this month ..... 47; date, 31, 1893

Precipitation (1906-1945)

Greatest fall this month in—

5 minutes.....0.01; date, 4, 1925
10 minutes.....†0.01; date, 4, 1925
15 minutes.....0.02; date, 4, 1925
30 minutes..... 0.03; date, 4, 1925
1 hour, ...†0.03; date, 4, 1925
2 hours.....†0.04; date, 4, 1925
24 hours (1871-1945).....0.23; date, 16, 1886

†Also other years

Precipitation—Continued

Greatest snowfall in 24 hours this month since 1871: amount, 0.0.

Greatest total snowfall this month since 1871, 0.0.

Wind* (1890-1944)

Average hourly velocity (miles)..... 11.5
Prevailing direction..... west

*Wind velocities have been corrected to true values.

Weather (1885-1944)

Average number days this month—
Clear 14
Partly cloudy..... 12
Cloudy 5

Weather (1871-1944)

Average number days this month—
With 0.01 inch or more of precipitation..... ‡
With 0.25 inch or more of precipitation..... 0
Greatest number of days this month with 0.01 inch or more of precipitation..... 4; year, 1906

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.

Ceiling and Visibility Frequencies for July 1945

(Based on Hourly Record Observations)

Weather Bureau Airport Stations

SAN FRANCISCO AIRPORT

Visibility (miles)	CEILING (feet)									
	0	100–200	300–400	500–900	1000–1900	2000–2900	3000–4900	5000–9500	Over 9500	Total
0 to 1/8	0	0	0	0	0	0	0	0	0	0
3/16 to 3/8	1	0	0	0	0	0	0	0	0	1
1/2 to 3/4	3	0	0	0	0	0	0	0	0	3
1 to 2 1/2	0	0	2	0	0	0	0	0	0	2
3 to 6	0	1	1	2	9	0	0	1	28	42
7 to 15	0	0	2	88	83	0	0	0	477	650
20 to 30	0	0	0	6	0	0	0	0	40	46
35 or more	0	0	0	0	0	0	0	0	0	0
Total	4	1	5	96	92	0	0	1	545	744

OAKLAND AIRPORT

Visibility (miles)	CEILING (feet)									
	0	100–200	300–400	500–900	1000–1900	2000–2900	3000–4900	5000–9500	Over 9500	Total
0 to 1/8	0	0	0	0	0	0	0	0	0	0
3/16 to 3/8	0	0	0	0	0	0	0	0	0	0
1/2 to 3/4	0	0	0	0	0	0	0	0	0	0
1 to 2 1/2	0	0	0	1	0	0	0	0	1	2
3 to 6	0	1	2	54	26	1	0	1	135	220
7 to 15	0	0	11	145	88	4	0	1	200	449
20 to 30	0	0	0	12	3	0	0	0	58	73
35 or more	0	0	0	0	0	0	0	0	0	0
Total	0	1	13	212	117	5	0	2	394	744