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W.B.O., San Francisco—5-45—300

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

MONTHLY METEOROLOGICAL SUMMARY

120th Meridian Time

SAN FRANCISCO, CALIFORNIA

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

Prepared Under Direction of
C. E. NORQUEST, Senior Meteorologist

August 1945

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

Temperatures have been near normal all month, with the monthly mean only a half degree lower than the monthly normal. Maximum temperatures remained in the middle sixties most of the time, but on the 18th, the mercury rose to 77°, the maximum for this month. This was the lowest maximum recorded in August since 1942 (67°).

Partly cloudy weather prevailed most of the time with a general pattern of high fog in the morning breaking at about 10 a. m. The precipitation, in the form of drizzle, resulted from the low coastal clouds and yielded only a trace for the monthly total. The percentage of sunshine 64%, was very close to the 54-year average of 63%. On about half the day sof the month, visibility was reduced for some part of the day by haze and—or smoke.

Date	TEMPERATURE (°F.) City Office Maximum	Minimum	Mean	Departure from normal	Degree days	Airport Maximum	Minimum	Mean	Departure from normal	Degree days	PRECIPITATION City Office Total inches, mid. to mid.	Airport Total inches, mid. to mid.	*WIND City Office Max. velocity and direction, miles per hour	Average hourly velocity, mph	WEATHER City Office Percentage of sunshine	Standard times of Sunrise	Sunset	Average cloudiness (scale 0 to 10)	Date
1	60	51	56	− 2	9	64	50	57	− 2	8	0	0	19 w.	10.8	48	5:13	7:20	8	1
2	58	52	55	− 3	10	65	49	57	− 2	8	0	0	21 w.	10.5	47	5:13	7:19	9	2
3	59	53	56	− 3	9	63	47	55	− 4	10	0	0	21 w.	11.3	40	5:14	7:18	8	3
4	61	53	57	− 2	8	68	50	59	0	6	0	0	19 w.	11.2	60	5:15	7:17	8	4
s5	61	54	58	− 1	7	69	53	61	+ 2	4	0	0	18 w.	11.2	71	5:16	7:15	6	5
6	62	54	58	− 1	7	68	50	59	0	6	0	0	16 w.	10.9	62	5:17	7:14	8	6
7	60	52	56	− 3	9	61	52	56	− 4	9	T.	T.	24 w.	11.8	34	5:18	7:13	9	7
8	60	53	56	− 3	9	64	50	57	− 3	8	T.	T.	17 w.	10.0	37	5:19	7:12	9	8
9	66	53	60	+ 1	5	68	49	58	− 2	7	0	0	19 w.	10.0	54	5:20	7:11	5	9
10	62	53	58	− 1	7	65	54	60	0	5	0	0	20 w.	10.9	58	5:20	7:10	7	10
11	61	54	58	− 1	7	64	53	58	− 2	7	0	0	24 w.	13.2	80	5:21	7:09	4	11
s12	61	53	57	− 2	8	59	53	56	− 4	9	0	T.	22 w.	13.2	51	5:22	7:08	8	12
13	62	52	57	− 2	8	69	53	61	+ 1	4	0	T.	23 w.	10.3	63	5:23	7:06	6	13
14	60	51	56	− 3	9	62	53	58	− 2	7	T.	T.	20 w.	10.9	34	5:24	7:05	9	14
15	61	52	56	− 3	9	66	51	58	− 2	7	T.	T.	18 w.	9.6	39	5:25	7:04	8	15
16	61	51	56	− 3	9	67	52	60	0	5	0	0	18 w.	9.7	48	5:26	7:03	5	16
17	67	51	59	0	6	70	48	59	− 1	6	0	T.	24 w.	9.2	50	5:26	7:01	8	17
18	77	55	66	+ 7	0	82	54	68	+ 8	0	T.	0	24 w.	9.2	59	5:27	7:00	7	18
s19	64	55	60	+ 1	5	71	54	62	+ 2	3	0	0	18 w.	12.0	100	5:28	6:58	1	19
20	74	53	64	+ 5	1	76	51	64	+ 4	1	0	0	24 w.	10.0	88	5:29	6:57	3	20
21	73	53	63	+ 4	2	82	50	66	+ 6	0	0	0	23 w.	11.9	100	5:30	6:56	1	21
22	61	52	56	− 3	9	65	53	59	− 1	6	T.	0	25 w.	13.0	59	5:31	6:54	5	22
23	61	52	56	− 4	9	61	51	56	− 4	9	0	0	23 w.	11.4	60	5:32	6:53	5	23
24	64	55	60	0	5	65	54	60	0	5	0	0	26 w.	14.4	92	5:33	6:52	1	24
25	68	55	62	+ 2	3	68	52	60	0	5	0	0	21 w.	8.8	100	5:33	6:50	1	25
s26	68	55	62	+ 2	3	69	48	58	− 2	7	0	0	25 w.	8.7	100	5:34	6:49	1	26
27	65	54	60	0	5	67	47	57	− 3	8	0	0	20 sw.	9.5	64	5:35	6:47	4	27
28	68	56	62	+ 2	3	71	49	60	0	5	0	0	16 sw.	6.7	68	5:36	6:46	6	28
29	68	56	62	+ 2	3	70	50	60	0	5	0	0	15 w.	8.2	84	5:37	6:45	3	29
30	70	53	62	+ 2	3	72	51	62	+ 2	3	0	0	24 w.	9.4	77	5:38	6:43	3	30
31	65	52	58	− 2	7	68	51	60	0	5	0	T.	23 w.	10.2	64	5:39	6:42	4	31
Mean	64.1	53.2	58.6	−0.5	§194	67.7	51.0	59.4	−0.4	§178	§ T.	§ T.	.....	10.6	64	.....	.....	5.5	Mean
Normal	64.9	53.3	59.1	.....	§180	.....	.....	59.8	.....	.....	§0.01	§0.01	.....	.....	63	.....	.....	4.7	Normal

DATA BELOW are for CITY OFFICE EXCEPT PRESSURE AND FLYING WEATHER which are for SAN FRANCISCO AIRPORT

Atmospheric Pressure (Airport)
(Reduced to sea-level: inches)

Mean 29.94
Highest ..... 30.10; date, 7
Lowest ..... 29.79; date, 26

Temperature

Highest ..... 77; date, 18
Lowest ..... 51; date, 14
Greatest daily range ..... 22; date, 18
Accumulated excess (+) or deficiency (−) since January 1 ..... +78
Average daily excess (+) or deficiency (−) since January 1 ..... +0.3
Highest this month since 1871.. 92; date, 22, †1891
Lowest this month since 1871.... 46; date, 8, 1903

Notes

§ Sum.
T Trace, .005 inch or less.
* All wind velocities are true values.
† Also other dates.
s Opposite date indicates Sunday.
‡ Less than one-half

*Wind

Direction	n.	ne.	e.	se.
Aver. hrly. vel.	3.5	0	4.3	3.0
% of hours	1	0	1	0

Direction	s.	sw.	w.	nw.
Aver. hrly. vel.	4.9	8.4	11.8	8.2
% of hours	1	27	69	1

Average hourly velocity (mph) 10.6
Prevailing direction ..... west
Total movement for the month (miles) 7877
Aver. hrly. vel. (mph) (1890-1944) 10.9
Prevailing direction (1890-1944) ..... west

Weather (Number of days)

	This month	(1885-1944)
Clear (scale, 0 to 3)	8	13
Pt. cloudy (scale, 4 to 7)	12	13
Cloudy (scale, 8 to 10)	11	5

	This month	(1871-1944)
0.01 in. or more precip.	0	‡
0.25 in. or more precip.	0	‡

Greatest number of days this month with 0.01 in. or more of precipitation ..... 3; year, 1896, 1916
Sunshine, hours: this month 269.5; possible 421.7

Flying Weather (Airport)

Hours ceiling below 500 ft. and/or visibility less than 1 mile (from record observations) ..... 14 hrs.

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

Miscellaneous Phenomena
(Dates of)

Frosts: Light 0
Heavy 0
Killing 0
Auroras 0
Halos: Solar 0
Lunar 0
Hail 0
Sleet 0
Heavy fog 30, 31
Thunderstorms 0

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

PRECIPITATION

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																									0
6																									0
7						T.	T.	T.	T.																T.
8					T.	T.	T.																		T.
9																									0
10																									0
11																									0
12																									0
13																									0
14						T.	T.	T.																	T.
15					T.	T.	T.	T.																	T.
16																									0
17																									0
18										T.															T.
19																									0
20																									0
21																									0
22				T.																					T.
23																									0
24																									0
25																									0
26																									0
27																									0
28																									0
29																									0
30																									0
31																									0
Total	0.00	0.00	0.00	T.	T.	T.	T.	T.	T.	T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.

Greatest in—	This month	Years 1906-1945
5 minutes	T. date †7	0.02; date, 14, †1916
10 minutes	T. date †7	0.03; date, 14, 1916
15 minutes	T. date †7	0.04; date, 14, 1916
30 minutes	T. date †7	0.06; date, 14, 1916
1 hour	T. date †7	0.12; date, 14, 1916
2 hours	T. date †7	0.18; date, 14, 1916
		Years 1871-1945
24 hours	T. date †7	0.25; date, 26, 1935

† Also other dates.

Excess (+) or deficiency (−) this month as compared with normal	−0.01
Seasonal precipitation, since July 1	T.
Accumulated excess (+) or deficiency (−) since July 1	−0.03
Seasonal precipitation, since September 1	21.79
Accumulated excess (+) or deficiency (−) since Sept. 1	−0.23
Annual precipitation, since January 1	9.88
Accumulated excess (+) or deficiency (−) since January 1	−4.27
Greatest snowfall in 24 hours	0.0
Greatest snowfall in 24 hours this month since 1871	0.0
Greatest total snowfall this month since 1871	0.0

PSYCHROMETRIC DATA

Date	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	Date
1	59.2	54.5	51	74	52.0	51.0	50	93	59.2	55.0	52	77	57.3	54.3	52	83	53.0	52.0	51	94	1
2	56.9	53.8	52	82	52.0	51.0	50	93	59.0	54.9	52	77	59.5	54.4	50	72	54.0	52.0	50	87	2
3	56.1	52.8	50	81	52.7	51.0	50	89	58.9	53.9	50	72	58.9	54.0	50	73	52.9	51.1	50	89	3
4	59.4	55.0	52	75	53.0	51.3	50	90	61.9	56.0	52	69	66.1	59.9	56	70	56.0	53.5	52	85	4
5	59.6	54.4	50	72	55.0	52.8	51	87	62.1	56.2	52	69	63.9	57.8	54	69	54.0	51.8	50	87	5
6	60.2	55.3	52	74	52.8	50.7	49	87	62.7	55.9	51	65	60.7	56.6	54	78	55.3	53.1	51	87	6
7	56.6	52.7	50	77	54.1	53.0	52	93	57.0	53.7	51	81	58.2	54.6	52	80	55.8	54.1	53	90	7
8	58.1	54.8	52	81	53.7	52.5	52	93	57.0	54.2	52	84	59.4	56.0	54	81	53.0	52.8	52	95	8
9	62.1	57.0	53	73	53.9	52.4	51	91	61.2	57.4	55	80	58.6	55.5	53	82	54.0	53.3	53	96	9
10	59.2	55.6	53	81	54.8	53.1	52	90	62.1	56.9	53	73	62.0	57.1	54	74	55.4	54.0	53	92	10
11	59.2	54.8	52	75	54.0	52.3	51	90	63.0	57.0	53	69	59.8	55.4	52	76	55.2	53.1	52	87	11
12	59.4	54.7	51	75	53.9	52.0	50	88	57.1	53.7	51	81	56.9	54.0	52	83	55.6	53.3	51	86	12
13	60.4	55.0	51	71	54.0	52.2	51	89	62.2	56.8	53	72	57.9	54.0	51	78	53.9	53.0	52	94	13
14	56.8	53.0	50	78	53.0	51.9	51	93	58.3	55.0	52	81	58.1	55.0	53	83	54.1	52.4	51	90	14
15	61.0	55.7	52	71	54.0	52.3	51	90	59.8	55.2	52	78	62.2	57.0	53	73	53.7	52.7	52	94	15
16	59.8	55.1	52	74	52.0	50.9	50	93	58.6	55.0	52	80	58.6	54.8	52	79	52.6	52.0	51	96	16
17	66.1	58.0	52	62	51.9	51.6	51	97	62.0	57.4	54	76	63.1	58.0	55	73	56.0	54.1	53	89	17
18	71.0	59.7	52	52	55.8	54.6	54	93	61.0	57.8	56	83	77.8	63.9	56	46	60.9	56.0	52	74	18
19	61.0	57.0	54	79	54.9	53.8	53	94	65.2	58.9	55	69	65.3	58.9	55	68	55.6	54.1	53	91	19
20	70.8	60.0	53	53	52.6	52.0	52	96	63.5	59.0	56	77	67.0	58.5	53	60	56.2	53.6	52	85	20
21	69.1	59.8	54	57	52.3	51.2	50	93	63.7	58.0	54	71	76.1	60.9	51	41	60.0	56.2	54	79	21
22	60.0	55.5	52	76	54.3	53.9	54	97	60.0	56.0	53	78	60.0	56.6	54	81	53.8	53.1	52	95	22
23	56.8	53.7	51	82	52.3	51.8	51	97	57.2	54.0	52	81	60.7	56.0	53	75	57.0	55.0	54	88	23
24	62.2	56.3	52	69	56.0	53.7	52	87	61.2	55.9	52	73	61.2	56.5	53	75	56.3	54.7	53	90	24
25	66.3	57.8	52	69	54.0	53.1	52	94	63.1	57.1	53	69	62.9	57.0	53	70	56.5	53.4	51	82	25
26	62.2	55.9	51	68	51.0	49.6	48	91	66.1	58.9	54	66	61.1	56.7	54	77	54.5	53.0	52	81	26
27	64.4	57.2	52	65	49.0	48.2	48	95	61.8	57.0	54	75	64.7	58.6	55	70	58.7	55.0	52	79	27
28	65.9	55.4	47	51	55.3	52.9	51	86	63.9	57.0	52	66	64.3	55.6	49	58	58.6	52.3	47	66	28
29	65.3	58.2	53	65	54.9	51.2	48	78	66.3	58.0	52	60	69.0	60.0	54	59	54.9	53.1	52	89	29
30	70.2	60.0	53	55	54.8	53.0	52	89	63.0	57.8	54	73	61.3	56.6	53	75	53.2	52.5	52	96	30
31	62.7	56.2	51	67	52.0	51.6	51	97	59.4	55.9	53	81	60.0	56.5	54	81	53.0	52.1	51	94	31
Mean	61.8	56.0	52	70	53.4	52.0	51	91	61.2	56.3	53	74	62.3	56.8	53	72	55.3	53.3	52	88	Mean
Normal	63.5	57.5	53	71																	Normal

Ceiling and Visibility Frequencies for August 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	0	0	0	0	0	0	0	0	0	0
1/2 to 3/4	0	2	0	0	0	0	0	0	0	2
1 to 2 1/2	0	1	3	2	0	0	0	0	0	6
3 to 6	0	0	2	5	2	0	0	0	23	32
7 to 15	0	0	6	90	56	0	0	4	458	624
20 to 30	0	0	0	8	14	0	0	0	58	80
35 or more	0	0	0	0	0	0	0	0	0	0
Total	0	3	11	105	82	0	0	4	539	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	2	0	0	0	0	0	0	0	2
1 to 2 1/2	0	1	3	3	1	0	0	0	19	27
3 to 6	0	1	5	48	13	0	0	0	108	175
7 to 15	0	0	9	125	61	0	0	1	283	479
20 to 30	0	0	0	7	24	0	0	0	30	61
35 or more	0	0	0	0	0	0	0	0	0	0
Total	0	4	17	183	99	0	0	1	440	744

COMPARATIVE DATA FOR THIS MONTH FROM THE RECORDS OF PREVIOUS YEARS

SAN FRANCISCO CITY OFFICE

	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	57.9	69	51	0.02	0.02	1890	61.4	85	50	0.00	0.00	1909	57.4	82	49	0.00	0.00	1928	58.4	72	50	T.	T.
1872	59.8	77	53	0.00	0.00	1891	61.8	**92**	50	0.02	0.02	1910	56.6	79	48	0.00	0.00	1929	61.1	77	52	0.00	0.00
1873	59.5	72	54	0.03	0.05	1892	59.4	92	50	0.00	0.00	1911	56.5	79	49	0.00	0.00	1930	61.5	77	52	0.00	0.00
1874	59.0	71	51	0.00	0.00	1893	56.6	72	47	0.00	0.00	1912	59.9	77	50	0.00	0.00	1931	60.4	89	51	0.00	0.00
1875	58.8	70	50	0.00	0.00	1894	59.2	91	49	0.00	0.00	1913	62.1	86	52	0.01	0.01	1932	61.0	86	51	0.00	0.00
1876	59.6	78	51	0.01	0.01	1895	58.4	80	50	0.00	0.00	1914	58.2	83	51	0.00	0.00	1933	59.8	82	50	T.	T.
1877	59.8	75	52	0.00	0.00	1896	59.5	72	52	0.09	0.06	1915	61.3	86	50	0.00	0.00	1934	60.9	88	51	T.	T.
1878	59.1	73	52	T.	T.	1897	57.4	70	49	T.	T.	1916	58.5	84	48	**0.29**	0.22	1935	60.0	85	50	0.25	**0.25**
1879	60.5	89	50	0.02	0.02	1898	57.0	72	47	T.	T.	1917	57.6	69	50	T.	T.	1936	59.3	78	49	0.02	0.02
1880	59.1	73	51	0.00	0.00	1899	58.3	78	50	T.	T.	1918	60.9	76	52	0.00	0.00	1937	58.9	79	50	T.	T.
1881	58.8	70	52	0.00	0.00	1900	59.7	82	50	T.	T.	1919	58.4	78	50	T.	T.	1938	60.1	78	52	0.00	0.00
1882	58.6	69	50	0.00	0.00	1901	56.4	72	49	T.	T.	1920	60.1	79	50	0.00	0.00	1939	60.6	81	52	T.	T.
1883	59.2	82	52	0.00	0.00	1902	60.6	82	52	T.	T.	1921	59.6	77	51	0.00	0.00	1940	60.0	81	53	T.	T.
1884	60.0	75	52	0.04	0.03	1903	57.6	77	**46**	T.	T.	1922	60.4	81	51	T.	T.	1941	61.2	80	53	0.03	0.02
1885	59.6	81	52	T.	T.	1904	57.1	75	49	0.06	0.06	1923	61.7	83	52	0.01	0.01	1942	58.5	67	51	T.	T.
1886	60.6	85	48	T.	T.	1905	58.4	73	50	T.	T.	1924	59.1	71	52	0.01	0.01	1943	59.8	87	52	0.00	0.00
1887	57.8	71	49	0.01	0.01	1906	57.9	76	50	0.11	0.08	1925	61.2	84	51	T.	T.	1944	58.9	83	50	0.02	0.02
1888	60.8	85	51	0.01	0.01	1907	59.8	74	51	0.02	0.02	1926	60.8	87	50	0.04	0.04	1945	58.6	77	51	T.	T.
1889	60.4	80	49	T.	T.	1908	57.4	80	50	0.01	0.01	1927	59.8	81	51	T.	T.	.....	....	....	....	.....	.....

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

LOCATION OF STATIONS AND INSTRUMENTS

	CITY OFFICE	AIRPORT
Latitude	37° 47′ N.	37° 37′ N.
Longitude	122° 25′ W.	122° 23′ W.
Elevation of ground	52 feet above sea level	1 foot above sea level
Elevation of rain gage	104 feet above ground	38 feet above ground
Elevation of wind instruments	132 feet above ground	70 feet above ground
Elevation of thermometers	112 feet above ground	37 feet above ground