WBO.,S.F.—1-29-48—1,250

U. S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ANNUAL METEOROLOGICAL SUMMARY

WITH COMPARATIVE DATA

1947

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Parkersburg
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San Francisco, California

E. E. EKLUND
Acting Official in Charge

SAN FRANCISCO, CALIF.
1948

Annual Meteorological Summary

SAN FRANCISCO, CAL., YEAR 1947

MONTH	TEMPERATURE (Degrees Fahrenheit)							*Relative humidity (per-cent)	PRECIPITATION (In. and hundredths)				Percentage of sunshine	WIND (True Values)					NUMBER OF DAYS WITH—											
	MEAN			EXTREMES												MAXIMUM (For 5 Minutes)											MAX. TEMP.		MIN. TEMP.	
	Maximum	Minimum	Monthly	Maximum	Date	Minimum	Date		Total	Maximum in 24 hrs.	Date	Snowfall		Average hourly velocity	Prevailing direction	Velocity	Direction	Date	Gales (32 miles per hour or over)	Clear	Partly cloudy	Cloudy	Precipitation (0.01 inch or over)	Thunderstorms	Fog, heavy	Snow (0.1 in. or over)	32° or below	90° or above	32° or below	0° or below
January	53.2	41.2	47.2	62	22	35	5	78	1.35	0.71	27-28	0	64	6.7	w.	24	w	28	0	15	10	6	6	1	2	0	0	0	0	0
February	59.2	48.0	53.6	75	24	44	1	84	2.65	1.91	11-12	0	38	6.5	w.	25	se.	11	0	7	6	15	6	1	4	0	0	0	0	0
March	61.4	50.6	56.0	76	14	46	5	79	3.64	1.61	27-28	0	47	8.5	w.	25	w.	17	0	7	5	19	10	0	0	0	0	0	0	0
April	65.3	51.6	58.4	86	12	48	4	74	0.17	0.11	2-3	0	71	9.5	w.	27	w.	16	0	13	9	8	4	0	0	0	0	0	0	0
May	63.4	52.2	57.8	86	1	48	20	76	0.67	0.35	26-27	0	72	10.5	w.	27	w.	8	0	14	8	9	3	0	0	0	0	0	0	0
June	68.7	54.9	61.8	87	22	50	30	73	0.64	0.29	6-7	0	74	10.7	w.	26	w.	26	0	16	7	7	6	0	0	0	0	0	0	0
July	65.9	54.4	60.2	73	19	50	1	80	T.	T.	†5	0	80	13.1	w.	29	w.	30	0	17	14	0	0	0	0	0	0	0	0	0
August	67.5	56.1	61.8	83	31	52	11	78	T.	T.	†20	0	67	10.5	w.	31	w.	21	0	12	15	4	0	0	0	0	0	0	0	0
September	68.4	54.4	61.4	92	20	51	14	76	T.	T.	†7	0	75	9.8	w.	30	w.	17	0	18	9	3	0	0	0	0	0	2	0	0
October	68.4	55.6	62.0	83	12	52	23	78	2.09	0.82	9	0	60	7.9	w.	21	w.	1	0	9	12	10	8	0	1	0	0	0	0	0
November	61.3	49.3	55.3	69	26	43	23	73	1.39	1.00	15	0	67	6.7	w.	29	w.	1	0	13	9	8	3	0	2	0	0	0	0	0
December	56.2	45.8	51.0	69	2	41	27	82	1.84	1.06	19-20	0	41	6.5	w.	21	w.	3	0	11	8	12	4	0	0	0	0	0	0	0
Year	63.2	51.2	57.2	92	Sept. 20	35	Jan. 5	78	14.44	1.91	Feb. 11-12	0	64	8.9	w.	31	w.	Aug. 21	0	152	112	101	50	2	9	0	0	2	0	0

†Also on other dates. *Airport data.

COMPARATIVE DATA AND EXTREMES

Month	Temperature							Precipitation						Relative humidity, percent			Sunshine		Wind (True Values)					Average number of days									
	Average daily maximum	Average daily minimum	Average	Absolute highest	Year	Absolute lowest	Year	Average total	Greatest in 24 hours	Year	Average snowfall	Greatest snowfall in 24 hours	Year	5 a. m.	Noon—local time	5 p. m.	Total hours	Percent	Average hourly velocity	Prevailing direction	Highest velocity	Direction highest velocity	Year	Clear	Partly cloudy	Cloudy	Rain, .01 or more	Snow (trace or more)	Thunderstorms	Dense fog	Max. temp. 90° or above	Minimum temp. 32° or below	Minimum temp. 0° or below
L'gth of record, years.	73	73	77	77	77	77	77	98	77	77	77	77	77	52	30	52	57	57	58	58	77	77	77	63	63	63	77	77	57	57	77	77	77
Jan.....	55.1	44.9	50.1	78	1899	29	1888	4.69	4.67	1881	T.	0.1	1888	85	68	71	163	53	7.4	n.	45	se.	1901	10	8	13	11	‡	‡	2	0	‡	0
Feb.....	58.5	47.1	52.8	80	1899	33	1887	3.78	3.60	1887	0.1	3.7	1887	84	65	68	174	57	7.7	w.	41	s.	1917	10	8	10	11	‡	‡	2	0	0	0
March...	60.7	48.4	54.4	86	1914	33	1896	3.08	3.65	1940	T.	1.0	1896	83	60	66	236	64	8.6	w.	47	s.	1902	12	9	10	10	‡	‡	1	0	0	0
April....	62.2	49.4	55.7	89	1926	40	*1891	1.52	2.43	1896	0.0	0.0	....	83	61	67	281	71	9.7	w.	38	nw.	1871	13	10	7	6	0	‡	‡	0	0	0
May.....	63.3	50.8	57.0	97	1887	42	1906	0.68	1.42	*1906	0.0	0.0	....	85	63	69	310	70	10.5	w.	36	w.	1897	14	10	7	4	0	‡	‡	‡	0	0
June.....	65.6	52.3	58.9	100	1891	46	1908	0.15	1.23	1884	0.0	0.0	....	88	64	70	335	76	11.2	w.	38	sw.	1873	17	9	4	2	0	‡	1	‡	0	0
July.....	65.0	53.0	58.9	99	1931	47	1893	0.01	0.23	1886	0.0	0.0	....	91	70	75	309	69	11.5	w.	34	w.	1939	14	12	5	‡	0	‡	1	‡	0	0
August..	65.2	53.5	59.4	92	1891	46	1903	0.02	0.25	1935	0.0	0.0	....	92	71	77	267	63	10.9	w.	34	sw.	1893	12	13	6	‡	0	‡	1	‡	0	0
Sept.....	68.5	54.8	61.6	101	*1913	47	1900	0.28	3.58	1904	0.0	0.0	....	88	64	70	263	71	9.4	w.	37	n.	1923	15	10	5	2	0	‡	1	1	0	0
October..	67.8	53.8	60.8	96	1917	43	1935	0.98	2.03	1889	0.0	0.0	....	85	59	67	243	70	7.8	w.	35	ne.	1906	16	9	6	4	0	‡	2	‡	0	0
Nov.....	62.8	50.7	56.7	88	1895	38	1919	2.45	3.98	1874	0.0	0.0	....	83	59	65	190	62	7.0	w.	50	ne.	1906	13	9	8	7	0	‡	2	0	‡	0
Dec.....	56.5	46.6	51.5	74	1929	27	1932	4.38	3.44	1924	0.1	3.5	1882	83	68	70	162	54	7.2	n.	50	ne.	1923	11	8	12	10	‡	‡	2	0	‡	0
Year....	62.6	50.4	56.5	101	Sept. 1913	27	Dec. 1932	22.02	4.67	Jan. 1881	0.2	3.7	Feb. 1887	86	64	70	2,934	66	9.1	w.	50	ne.	1906 1923	157	115	93	67	‡	2	15	1	‡	0

‡Less than one-half. *And other years.

MISCELLANEOUS DATA FOR 1947

Location of Office, Federal Office Building, 50 Fulton Street
Latitude 37° 47′ North. Longitude 122° 25′ West
Standard of time in local use is 120th M.; local mean time is 10 minutes slower

Temperature

[*Elevation of thermometers above ground, 112 feet*]

Greatest daily range, 36°; from 92° to 56°, on September 20.
Least daily range, 4°; from 53° to 49°, on February 19.
Greatest monthly range, 38°, in April.
Least monthly range, 0°, in March.

Precipitation

[*Elevation of rain gage above ground, 104 feet*]

Longest period with less than .01 inch precipitation, 120 days, June 9 to Oct. 6, inclusive.

Longest period with .01 inch or more precipitation daily, 5 days, June 4-8, and March 28-April 1.

Greatest fall in 5 minutes, .22, date, March 27; 10 minutes, .40, date, March 27; 15 minutes, .51, date, March 27; 30 minutes, .76, date, March 27; one hour, 1.01, date, March 27.

Wind

[*Elevation of anemometer above ground, 132 feet*]

West wind prevailed for total of 4,451 hours during the year, or 51 percent of the time.

EXTREMES OF PRECIPITATION AND WINDS

Jan. 1, 1871 to Dec. 31, 1947

MONTH	Precipitation			§Wind			
	24-hr. max.	Year	Day	Max. vel.	Direction	Year	Day
January	4.67	1881	29	45	se.	1901	3
February	3.60	1887	4-5	41	s.	1917	24
March	3.65	1940	29-30	47	s.	1902	1
April	2.43	1896	23-24	38	nw.	1871	23
May	1.42	†1906	27-28	36	w.	1897	11
June	1.23	1884	11-12	38	sw.	1873	30
July	0.23	1886	16	34	w.	1939	15
August	0.25	1935	26	34	sw.	1893	2
September	3.58	1904	23-24	37	n.	1923	17
October	2.03	1889	17-18	35	ne.	1906	20
November	3.98	1874	23	50	ne.	1906	30
December	3.44	1924	20-21	50	ne.	1923	1

§ True values. † Also 1925, 11-12.

TEMPERATURE EXTREMES

Mar. 1, 1871 to Dec. 31, 1947

MONTH	Maximum	Year	Day	Minimum	Year	Day
January	78	1899	26	29	1888	15
February	80	1899	18	33	1887	5
March	86	1914	18	33	1896	3
April	89	1926	25	40	1891	7
May	97	1887	28	42	1906	16
June	100	1891	29	46	1908	4
July	99	1931	3	47	1893	31
August	92	1891	22	46	1903	8
September	*101	1913	16	47	1900	30
October	96	1917	3	43	1935	31
November	83	1895	16	38	1919	27
December	74	1929	5	27	1932	11

* 101.0° in 1904; 101.2° in 1913.

EXTREME TEMPERATURES BY YEARS

Year	Absolute Maximum	Date	Absolute Minimum	Date
1871	84	October	..	.....
1872	92	June	41	December
1873	79	October	40	February
1874	89	September 14	39	January
1875	82	September 20	39	January 16†
1876	93	June 12	36	January 21
1877	92	June 11†	42	January 13†
1878	78	May 24†	39	January 4
1879	89	August 30	34	December 24
1880	84	May 27	37	January 28
1881	83	July 4	40	March 13†
1882	83	September 21	34	December 31
1883	95	June 5†	35	February 3†
1884	83	July 10	35	February 7
1885	87	September 21	43	January 3
1886	94	September 8	41	January 2†
1887	97	May 28	33	February 5
1888	93	July 15	29	January 15
1889	89	September 24	39	February 15†
1890	86	October 27†	36	January 5†
1891	100	June 29	37	December 25
1892	92	August 17	38	December 10
1893	90	June 3	36	January 24
1894	94	September 22	36	January 6
1895	89	May 11†	38	January 27
1896	91	May 26	33	March 3
1897	92	September 16	38	February 19†
1898	89	June 4	36	January 11†
1899	94	October 8	34	February 4
1900	92	September 21	40	December 31
1901	91	October 12	37	January 1
1902	83	September 29	38	January 9†
1903	96	June 6	37	January 14†
1904	101	September 8	38	December 20
1905	98	July 7	39	December 31
1906	86	October 5	40	November 29†
1907	90	October 4	36	January 13
1908	89	September 29	35	December 20
1909	94	June 23	38	January 12†
1910	90	May 30	36	January 12
1911	87	October 16	38	February 27
1912	94	September 18	40	January 3
1913	101	September 16	33	January 6
1914	92	September 10	41	December 15
1915	86	August 28	36	December 30
1916	87	September 27	37	January 27
1917	96	October 3	34	January 16
1918	85	October 12	38	December 31
1919	93	September 19	37	January 1
1920	92	June 19	38	January 14
1921	94	July 6	39	January 8
1922	91	September 8	32	January 19
1923	87	September 5	36	January 30
1924	88	September 11†	36	December 18†
1925	95	June 24	40	January 9†
1926	89	April 25	36	January 11
1927	93	June 30	40	April 10
1928	99	September 21	36	December 23†
1929	95	June 21	35	February 7
1930	92	October 6	37	January 11
1931	99	July 3	39	November 23
1932	100	September 9	27	December 11
1933	92	October 5	36	January 10
1934	95	June 29	40	January 10
1935	89	September 17	39	January 20
1936	91	September 7	40	February 3†
1937	89	September 25	30	January 21
1938	89	September 9	40	January 7
1939	97	September 21	39	February 8
1940	84	October 11	38	January 18
1941	89	May 10	41	December 31
1942	93	September 14	38	March 14
1943	96	September 21	39	January 18
1944	91	September 9	41	January 4
1945	87	June 16	39	January 4
1946	91	September 22	39	February 3
1947	92	September 20	35	January 5

†Also on other dates

MEAN TEMPERATURES

Monthly and Annual, 1871-1947

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l
1871	....	....	51.3	53.3	54.3	56.9	56.6	57.9	60.4	61.8	55.1	52.9	.....
1872	52.2	54.2	54.3	53.4	56.0	59.8	57.9	59.8	59.3	58.8	56.0	52.1	56.2
1873	54.8	50.9	54.5	54.6	55.4	57.1	58.1	59.5	58.3	59.7	57.7	50.7	55.9
1874	49.3	51.2	50.9	54.9	57.6	59.1	57.8	59.0	61.4	59.8	56.1	50.3	55.6
1875	49.0	52.0	51.8	55.4	57.2	59.4	58.8	58.8	59.2	62.0	57.4	51.4	56.0
1876	48.8	52.8	53.2	55.4	55.8	61.4	59.1	59.6	61.5	59.9	58.0	53.0	56.6
1877	54.3	55.8	57.2	54.4	56.2	62.0	60.8	59.8	62.5	59.2	57.2	52.7	57.7
1878	52.8	53.3	55.9	56.0	58.0	58.8	58.6	59.1	60.2	61.6	57.1	51.6	56.9
1879	48.8	54.6	57.2	56.5	56.4	60.2	58.7	60.5	61.0	61.0	55.0	50.0	56.7
1880	48.0	48.8	49.4	53.3	57.7	57.2	58.8	59.1	58.9	59.8	54.2	53.2	54.9
1881	54.0	55.3	54.4	57.9	58.0	58.6	59.7	58.8	59.7	56.6	55.1	51.0	56.6
1882	49.4	48.8	53.4	53.0	57.0	57.9	59.5	58.6	59.8	58.8	53.2	52.8	55.2
1883	47.0	48.8	54.0	53.2	58.0	61.4	59.8	59.2	63.1	57.9	54.1	50.8	55.6
1884	50.6	50.8	54.5	56.0	59.4	60.2	61.4	60.0	59.6	58.2	57.4	52.8	56.7
1885	51.1	55.3	57.7	58.2	58.1	57.8	61.6	59.6	61.8	60.7	57.8	54.0	57.8
1886	51.2	56.8	53.6	55.4	59.1	59.4	60.3	60.6	62.4	58.6	56.8	53.6	57.3
1887	52.6	47.8	55.8	55.8	57.0	59.4	56.6	57.8	62.0	64.2	56.4	52.2	56.5
1888	46.7	53.9	53.4	57.8	56.9	62.4	61.4	60.8	62.6	61.6	57.0	53.2	57.3
1889	50.4	54.0	57.2	58.8	58.8	60.2	58.8	60.4	64.6	61.8	58.6	51.3	57.9
1890	46.2	49.1	53.8	54.8	59.8	59.2	59.8	61.4	60.4	62.4	59.0	49.8	56.3
1891	52.2	51.2	55.0	53.4	55.7	60.2	59.4	61.8	61.8	59.7	58.6	49.6	56.6
1892	51.7	52.4	54.2	53.1	58.0	56.8	58.1	59.4	60.2	59.6	56.9	51.1	56.0
1893	47.4	50.3	51.2	52.4	55.8	56.5	56.6	56.6	59.3	57.6	55.6	52.4	54.3
1894	47.7	48.4	50.6	55.2	55.4	55.9	56.4	59.2	63.4	59.6	59.4	49.7	55.1
1895	48.6	53.8	52.2	54.8	57.0	58.7	58.4	58.4	60.7	58.8	56.2	48.6	55.6
1896	52.2	55.3	54.3	51.6	56.3	57.2	59.4	59.5	59.6	58.8	53.4	52.8	55.9
1897	48.6	50.7	48.9	57.4	57.4	58.9	58.2	57.4	60.8	58.4	53.1	50.7	55.0
1898	46.7	52.6	51.2	54.4	52.6	59.0	56.2	57.0	59.0	61.2	55.4	49.7	54.6
1899	53.0	51.6	52.2	54.6	52.6	56.9	55.9	58.3	58.2	59.3	56.8	49.6	55.0
1900	50.7	53.6	55.2	54.0	57.0	57.6	58.2	59.7	63.3	58.8	56.3	50.2	56.2
1901	49.8	52.2	55.8	51.8	53.9	56.7	55.6	56.4	58.5	61.8	57.2	52.9	55.2
1902	46.7	52.9	51.6	54.4	55.5	56.9	59.2	60.6	61.9	59.3	54.8	50.6	55.4
1903	47.9	48.9	52.2	54.0	55.2	58.5	57.2	57.6	61.0	62.0	56.6	52.4	55.3
1904	50.6	50.8	51.8	56.8	59.0	59.2	57.1	57.1	64.0	62.0	58.0	50.6	56.4
1905	51.3	54.0	57.0	56.4	55.5	56.0	59.5	58.4	60.4	60.4	56.2	50.7	56.3
1906	51.6	55.2	54.0	56.4	56.2	59.4	57.6	57.9	60.0	61.7	55.4	49.6	56.2
1907	47.1	54.9	51.0	56.8	56.4	57.1	58.0	59.3	60.6	60.6	57.8	52.4	56.0
1908	50.8	50.9	54.8	56.4	55.4	55.4	57.3	57.4	60.5	58.8	55.4	47.0	55.0
1909	51.5	51.3	51.8	56.6	54.5	56.1	57.8	57.4	61.6	59.4	54.8	49.2	55.2
1910	46.4	50.4	54.9	57.1	58.7	55.9	56.4	56.5	57.6	61.2	54.8	53.0	55.2
1911	51.0	49.3	49.2	53.6	55.6	55.0	56.4	56.5	60.0	60.9	57.3	51.7	55.2
1912	51.8	54.6	52.4	52.8	57.2	60.4	57.9	59.9	63.4	60.0	56.6	51.6	56.6
1913	47.4	52.4	52.6	55.4	56.6	58.2	60.6	62.1	64.6	61.5	55.2	50.6	56.4
1914	51.5	54.0	58.4	58.2	56.2	56.6	57.0	58.2	60.8	62.0	59.0	48.7	56.7
1915	50.8	52.8	57.9	57.1	57.6	58.9	60.2	61.3	62.4	61.3	56.1	52.2	57.4
1916	47.0	55.8	56.6	57.6	55.8	57.4	60.0	58.5	62.2	56.9	54.4	48.9	55.9
1917	47.6	52.0	51.7	55.1	54.0	58.6	59.8	57.6	64.0	62.3	58.7	54.6	56.3
1918	52.7	51.8	54.9	57.2	54.6	59.2	58.8	60.9	62.2	64.0	55.6	50.2	56.8
1919	51.2	51.6	52.6	56.0	57.2	57.8	57.0	58.4	62.0	60.7	56.0	48.8	55.8
1920	52.2	52.8	52.6	54.9	55.8	60.2	57.8	60.1	60.4	60.2	55.4	51.0	56.1
1921	49.5	52.9	54.6	55.0	54.4	61.4	59.8	59.6	63.3	61.5	57.8	52.9	56.9
1922	46.8	50.2	52.4	53.5	58.0	60.0	60.2	60.4	63.4	60.6	54.3	50.6	55.9
1923	48.1	52.2	56.8	56.1	57.2	57.2	60.8	61.7	64.0	62.4	60.8	51.0	57.4
1924	50.2	57.0	54.5	57.4	59.1	59.8	59.0	59.1	62.4	59.4	56.7	47.8	56.9
1925	51.4	55.2	55.4	57.0	59.0	60.7	61.2	61.2	62.7	62.2	56.6	52.7	57.9
1926	48.0	56.0	60.6	61.6	61.0	59.2	61.1	60.8	61.2	63.4	60.9	51.5	58.8
1927	51.3	54.0	54.2	55.6	58.2	59.8	58.6	59.8	62.4	62.5	58.1	51.8	57.2
1928	50.4	55.1	58.2	57.8	58.9	60.6	58.6	58.4	61.4	59.6	56.4	49.6	57.1
1929	47.4	51.8	54.2	53.4	56.5	63.0	61.5	61.1	61.4	63.5	59.7	54.2	57.3
1930	49.6	56.5	57.4	59.2	56.1	59.9	58.6	61.5	62.4	63.2	58.0	52.1	57.9
1931	52.3	56.7	59.0	59.0	61.8	62.0	62.3	60.4	62.8	59.8	54.4	49.4	58.3
1932	49.3	51.4	57.1	56.0	58.4	59.2	59.7	61.0	63.0	62.2	60.6	47.4	57.1
1933	47.0	51.2	55.4	55.5	55.2	57.6	59.5	59.8	61.2	62.4	60.0	50.5	56.3
1934	51.8	55.6	60.6	59.0	60.6	61.0	60.0	60.9	63.6	61.8	58.5	52.9	58.9
1935	50.8	54.1	52.6	58.7	53.7	61.3	60.2	60.0	60.6	61.0	54.8	52.8	57.1
1936	53.8	53.4	57.4	58.9	61.5	61.7	59.4	59.3	63.0	62.2	58.0	51.6	58.4
1937	43.6	49.9	54.8	54.5	57.2	61.4	59.3	58.9	61.4	63.4	58.2	54.8	56.4
1938	51.4	53.0	52.8	54.9	56.6	57.5	58.8	60.1	61.2	61.6	56.8	53.6	56.5
1939	52.0	51.2	52.8	55.8	57.0	57.8	59.0	60.6	66.2	63.0	59.2	55.3	57.5
1940	52.6	55.4	57.4	57.8	58.0	59.0	60.2	60.0	65.0	62.3	57.0	55.4	58.3
1941	54.0	55.4	58.4	55.8	61.2	60.0	60.2	61.2	63.5	60.8	58.4	53.4	58.5
1942	51.2	53.4	55.2	55.6	56.8	58.6	59.7	58.5	60.2	60.9	56.0	52.1	56.5
1943	51.9	54.8	55.6	55.6	58.6	57.4	59.0	59.8	63.4	61.2	59.0	53.6	57.5
1944	51.8	51.6	55.8	53.2	56.8	57.8	57.3	58.9	60.6	61.4	55.7	54.2	56.3
1945	50.2	54.4	51.8	55.9	55.4	61.3	59.6	58.6	62.6	61.6	56.4	52.8	56.7
1946	51.4	50.6	53.2	55.2	55.6	58.8	60.4	58.1	62.8	60.4	54.6	51.4	56.0
1947	47.2	53.6	56.0	58.4	57.8	61.8	60.2	61.8	61.4	62.0	55.3	51.0	57.2
Means	50.1	52.8	54.4	55.7	57.0	58.9	58.9	59.4	61.6	60.8	56.7	51.5	56.5

DAILY MAXIMUM AND MINIMUM TEMPERATURES OF RECORD, 1875-1947

Date	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	63	37	69	36	77	39	76	43	86	43	88	47	88	48	88	48	88	48	90	50	79	42	68	44
2	62	37	67	35	76	36	82	44	83	44	93	47	91	48	83	49	88	49	83	49	80	45	69	40
3	63	36	71	35	81	33	75	44	79	45	90	47	99	47	73	48	80	50	96	50	82	42	72	41
4	67	36	68	34	76	37	76	41	84	46	90	46	95	48	83	48	85	50	90	48	80	42	68	34
5	70	35	71	33	77	40	80	41	77	47	95	47	82	46	75	48	87	49	92	48	78	43	74	40
6	73	33	69	38	78	40	86	40	79	46	96	47	94	48	86	48	92	50	92	48	80	45	69	40
7	68	34	72	35	80	40	81	40	81	45	79	47	98	48	78	48	100	50	89	48	79	46	70	41
8	66	30	67	33	78	41	80	40	88	46	87	46	79	48	78	46	101	50	94	48	78	46	72	36
9	64	32	67	38	80	40	83	44	88	44	88	47	78	48	78	48	100	50	87	48	77	47	71	34
10	68	36	70	38	77	40	84	40	89	46	86	47	83	47	81	48	92	50	87	48	78	45	67	33
11	66	36	70	36	81	35	84	44	89	46	92	47	90	48	85	48	88	50	90	48	79	42	67	27
12	63	38	75	36	76	40	87	42	82	45	93	48	82	48	76	48	89	50	91	48	79	43	70	31
13	65	36	74	36	78	40	84	43	87	45	82	47	76	48	76	49	90	50	84	46	80	44	71	36
14	66	29	78	38	78	38	88	44	87	44	80	46	77	48	81	50	93	50	89	45	76	44	68	37
15	65	29	76	37	74	41	79	43	87	44	87	47	93	47	77	49	94	49	84	47	78	44	65	37
16	70	31	75	38	85	40	77	43	77	42	90	48	82	48	82	49	101	50	89	47	83	44	65	40
17	70	32	75	38	85	42	77	42	80	46	86	47	79	49	92	49	92	50	89	47	82	45	65	39
18	70	34	80	39	86	41	83	42	88	46	86	47	84	48	88	48	94	49	88	48	81	45	68	36
19	70	32	73	38	80	40	82	41	90	45	92	47	77	49	80	49	93	49	90	48	77	44	66	36
20	68	34	72	38	78	40	84	43	88	43	90	47	84	48	84	49	97	49	87	49	72	43	69	35
21	66	30	76	36	81	41	80	44	86	45	95	48	88	48	88	47	99	50	89	47	72	44	63	35
22	66	34	76	38	83	42	86	44	85	44	94	48	81	48	92	50	97	48	90	49	73	42	67	37
23	66	36	73	38	82	41	87	43	91	47	94	48	78	49	89	50	96	48	84	47	75	39	65	36
24	69	36	75	40	82	40	85	43	88	46	95	47	73	49	88	50	89	50	82	48	71	41	72	34
25	74	36	76	38	80	38	89	44	87	47	84	48	78	49	86	50	89	50	86	48	74	42	64	37
26	78	38	75	39	82	40	83	44	91	47	87	48	77	49	91	50	89	49	86	47	76	41	62	36
27	75	37	75	38	84	42	86	42	86	47	84	48	82	49	87	50	92	48	86	47	72	38	66	36
28	69	37	75	40	78	42	85	43	97	47	92	48	77	48	86	50	93	50	86	47	72	40	64	37
29	71	36	71	42	78	39	77	46	88	46	100	48	82	48	79	50	90	49	84	46	69	40	64	38
30	72	36	...	..	79	42	83	45	90	47	93	47	84	48	89	49	86	47	81	46	69	42	68	36
31	68	37	...	..	79	42	...	..	87	48	...	..	77	47	87	48	...	..	79	43	...	..	64	34
Extreme	*78*	*29*	*80*	*33*	*86*	*33*	*89*	*40*	*97*	*42*	*100*	*46*	*99*	*47*	*92*	*46*	*101*	*47*	*96*	*43*	*83*	*38*	*74*	*27*

DEGREE DAYS, 1930-1947

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l
1930	476	243	254	173	275	153	202	110	80	96	219	402	2683
1931	397	231	188	183	141	103	124	158	98	176	320	484	2603
1932	487	393	245	275	215	177	164	134	102	103	147	544	2986
1933	558	385	298	298	311	222	173	170	122	137	155	450	3279
1934	407	261	144	190	148	142	158	138	90	113	197	375	2353
1935	442	305	385	197	224	137	157	164	161	132	304	374	2982
1936	345	337	237	190	134	104	171	175	101	111	210	415	2533
1937	666	421	315	314	244	124	180	193	134	90	203	319	3203
1938	419	335	381	302	263	224	189	155	126	118	248	356	3116
1939	404	385	382	284	246	213	191	138	81	119	173	300	2916
1940	383	280	236	221	213	178	154	162	96	116	239	292	2510
1941	340	269	207	277	151	154	150	122	79	150	200	360	2459
1942	431	327	305	284	267	206	165	201	155	134	271	399	3145
1943	405	286	290	282	224	239	182	167	101	131	178	356	2841
1944	413	387	286	354	265	218	238	191	149	127	273	337	3228
1945	458	302	409	275	297	147	169	194	112	121	268	380	3132
1946	424	398	366	293	293	192	144	219	117	169	312	424	3351
1947	556	321	278	224	231	117	154	114	136	110	291	436	2968
Mean	445	326	289	256	230	169	170	161	110	125	234	389	2904

PRECIPITATION

Monthly, Seasonal and Annual, 1849-1947

Season	July	Aug.	Sept.	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	Seasonal	Year	Annual
1849-50..	0.00	0.00	0.00	3.14	8.66	6.20	8.34	1.77	4.53	0.46	0.00	0.00	33.10	1850	17.40
1850-51..	0.00	0.00	0.33	0.00	0.92	1.05	0.72	0.54	1.94	1.23	0.67	0.02	**7.42**	1851	15.60
1851-52..	0.00	0.02	1.03	0.21	2.12	7.10	0.58	0.14	6.68	0.26	0.32	0.00	18.46	1852	27.29
1852-53..	0.00	0.00	0.00	0.80	5.31	13.20	3.92	1.42	4.86	5.37	0.38	0.00	35.26	1853	21.17
1853-54..	0.00	0.04	0.46	0.12	2.28	2.32	3.88	8.04	3.51	3.12	0.02	0.08	23.87	1854	22.45
1854-55..	0.00	0.01	0.15	2.43	0.34	0.87	3.67	4.77	4.64	4.99	1.88	0.00	23.75	1855	26.38
1855-56..	0.00	0.00	0.00	0.00	0.67	5.76	9.40	0.50	1.60	2.94	0.76	0.03	21.66	1856	22.31
1856-57..	0.02	0.00	0.07	0.45	2.79	3.75	2.45	8.59	1.62	**0.00**	0.05	0.12	19.91	1857	20.96
1857-58..	0.00	0.05	0.00	0.93	3.01	4.14	4.36	1.83	5.55	1.55	0.34	0.05	21.81	1858	23.46
1858-59..	0.05	0.16	0.00	2.74	0.69	6.14	1.28	6.32	3.02	0.27	1.55	0.00	22.22	1859	21.39
1859-60..	0.00	0.02	0.03	0.05	7.28	1.57	1.64	1.60	3.99	3.14	2.86	0.09	22.27	1860	21.18
1860-61..	0.21	0.00	0.00	0.91	0.58	6.16	2.47	3.72	4.08	0.51	1.00	0.08	19.72	1861	25.52
1861-62..	0.00	0.00	0.02	0.00	4.10	9.54	**24.36**	7.53	2.20	0.73	0.74	0.05	**49.27**	1862	38.63
1862-63..	0.00	0.00	0.00	0.52	0.15	2.35	3.63	3.19	2.06	1.61	0.23	0.00	13.74	1863	15.10
1863-64..	0.00	0.00	0.03	0.00	2.55	1.80	1.83	**0.00**	1.52	1.57	0.78	0.00	10.08	1864	21.64
1864-65..	0.00	0.21	0.01	0.13	6.68	8.91	5.14	1.34	0.74	0.94	0.63	0.00	24.73	1865	14.06
1865-66..	0.00	0.00	0.24	0.26	4.19	0.58	10.88	2.12	3.04	0.12	1.46	0.04	22.93	1866	36.28
1866-67..	0.00	0.00	0.11	0.00	3.35	**15.16**	5.16	7.20	1.58	2.36	0.00	0.00	34.92	1867	30.64
1867-68..	0.00	0.00	0.04	0.20	3.41	10.69	9.50	6.13	6.30	2.31	0.03	0.23	38.84	1868	30.17
1868-69..	0.00	0.00	0.00	0.15	1.18	4.34	6.35	3.90	3.14	2.19	0.08	0.02	21.35	1869	22.59
1869-70..	0.00	0.00	0.12	1.29	1.19	4.31	3.89	4.78	2.00	1.53	0.20	0.00	19.31	1870	16.24
1870-71..	0.00	0.00	0.03	0.00	0.43	3.38	3.07	3.76	1.31	1.89	0.23	0.01	14.11	1871	27.53
1871-72..	0.00	0.02	0.00	0.07	2.81	14.36	4.00	6.90	1.59	0.81	0.18	0.04	30.78	1872	22.42
1872-73..	0.01	0.00	0.04	0.11	2.79	5.95	1.58	3.94	0.79	0.43	0.00	0.02	15.66	1873	18.56
1873-74..	0.01	0.08	0.00	0.83	1.16	9.72	5.66	2.21	3.36	0.90	0.66	0.14	24.73	1874	22.52
1874-75..	0.00	0.00	0.02	2.89	6.55	0.33	8.01	0.32	1.30	0.10	0.22	1.02	20.56	1875	22.63
1875-76..	0.00	0.00	0.00	0.24	7.27	4.15	7.55	4.92	5.49	1.29	0.24	0.04	31.19	1876	23.54
1876-77..	0.01	0.01	0.38	3.36	0.25	**0.00**	4.32	1.18	1.08	0.26	0.18	0.01	11.04	1877	11.93
1877-78..	0.02	0.00	0.00	0.65	1.57	2.66	11.97	**12.52**	4.56	1.06	0.16	0.01	35.18	1878	33.26
1878-79..	0.01	T.	0.55	1.27	0.57	0.58	3.52	4.90	**8.75**	1.89	2.35	0.05	24.44	1879	30.76
1879-80..	0.01	0.02	T.	0.78	4.03	4.46	2.23	1.87	2.08	**10.05**	1.12	0.00	26.66	1880	30.07
1880-81..	0.00	0.00	0.00	0.05	0.33	12.33	8.69	4.65	0.90	2.00	0.22	0.69	29.86	1881	23.73
1881-82..	0.00	0.00	0.25	0.54	1.94	3.85	1.68	2.96	3.45	1.22	0.21	0.04	16.14	1882	18.67
1882-83..	0.00	0.00	0.26	2.66	4.18	2.01	1.92	1.04	3.01	1.51	3.52	0.01	20.12	1883	15.43
1883-84..	0.00	0.00	0.42	1.48	1.60	0.92	3.94	6.65	8.24	6.33	0.23	**2.57**	32.38	1884	**38.82**
1884-85..	T.	0.04	0.33	2.55	0.26	7.68	2.53	0.30	1.01	3.17	0.04	0.19	18.10	1885	24.90
1885-86..	0.06	T.	0.11	0.72	**11.78**	4.99	7.42	0.24	2.07	5.28	0.37	0.01	33.05	1886	20.02
1886-87..	**0.23**	T.	0.01	1.48	0.84	2.07	1.90	9.24	0.84	2.30	0.06	0.07	19.04	1887	19.04
1887-88..	T.	0.01	0.29	T.	0.99	3.34	6.81	0.94	3.60	0.11	0.38	0.27	16.74	1888	23.03
1888-89..	0.01	0.01	0.98	0.13	3.99	5.80	1.28	0.72	7.78	0.96	2.17	0.03	23.86	1889	36.94
1889-90..	0.01	T.	T.	**7.23**	2.90	13.81	9.61	5.16	4.73	1.13	1.07	0.10	45.85	1890	25.43
1890-91..	0.02	0.00	0.31	0.00	**0.00**	3.25	0.98	7.26	1.96	2.44	1.25	0.11	17.58	1891	21.11
1891-92..	0.10	0.02	0.77	0.04	0.56	5.62	2.42	2.90	2.85	1.39	1.86	T.	18.53	1892	22.08
1892-93..	0.00	0.00	0.02	1.65	3.91	5.08	3.05	2.75	4.08	1.03	0.15	0.03	21.75	1893	17.91
1893-94..	0.02	0.00	0.21	0.16	4.18	2.25	5.99	2.69	0.60	0.50	1.31	0.56	18.47	1894	24.32
1894-95..	T.	0.00	1.05	1.73	0.88	9.01	6.99	2.31	1.89	1.24	0.60	0.00	25.70	1895	17.13
1895-96..	0.01	0.00	0.77	0.11	1.78	1.43	8.14	0.28	2.85	5.16	0.72	0.00	21.25	1896	28.25
1896-97..	0.04	0.09	0.52	1.55	4.56	4.34	2.26	4.41	4.56	0.27	0.61	0.22	23.43	1897	16.40
1897-98..	T.	T.	0.10	1.70	1.05	1.22	1.12	2.13	0.24	0.19	1.44	0.19	9.38	1898	9.31
1898-99..	0.00	T.	1.06	0.86	0.46	1.62	3.67	0.10	7.61	0.62	0.86	0.01	16.87	1899	23.23
1899-1900	0.00	T.	0.00	3.92	3.79	2.65	4.11	0.61	1.91	1.08	0.32	0.05	18.47	1900	15.33
1900-01..	T.	T.	0.46	1.48	3.91	1.37	5.79	5.03	0.80	1.64	0.69	T.	21.17	1901	19.75
1901-02..	T.	T.	0.78	0.64	3.48	0.90	1.23	7.27	2.65	0.98	1.05	T.	18.98	1902	19.18
1902-03..	T.	T.	T.	1.70	1.98	2.32	3.73	1.76	6.23	0.56	T.	T.	18.28	1903	18.33
1903-04..	0.00	T.	T.	0.17	4.25	1.63	1.05	5.89	6.01	1.29	0.30	T.	20.59	1904	24.72
1904-05..	0.02	0.06	**5.07**	2.37	1.07	1.59	4.04	2.70	3.15	1.33	2.05	0.00	23.45	1905	16.24
1905-06..	0.00	T.	T.	T.	0.92	2.05	3.90	4.30	5.02	0.92	2.75	0.56	20.42	1906	26.34
1906-07..	0.08	0.11	0.18	0.03	1.59	6.90	4.41	3.02	8.42	0.11	0.04	1.28	26.17	1907	22.47
1907-08..	T.	0.02	0.11	1.36	0.04	3.66	4.88	5.39	0.90	0.22	0.76	0.01	17.35	1908	16.42
1908-09..	0.02	0.01	0.13	0.61	1.34	2.15	10.51	7.55	3.27	T.	T.	T.	25.57	1909	31.36
1909-10..	T.	0.00	0.80	1.23	2.43	5.59	3.24	2.09	3.78	0.31	0.03	0.02	19.52	1910	12.38
1910-11..	T.	0.00	0.05	0.65	0.48	1.73	13.79	3.02	4.57	0.89	0.28	0.03	25.49	1911	26.00
1911-12..	T.	0.00	T.	0.28	0.60	2.54	2.47	0.41	4.10	1.38	1.47	0.81	14.06	1912	15.62
1912-13..	T.	0.00	1.25	0.49	1.94	1.30	3.84	0.43	1.47	0.60	0.63	0.02	11.97	1913	19.05
1913-14..	0.07	0.01	0.00	0.35	6.22	5.41	9.76	5.04	1.09	0.99	0.37	0.29	29.60	1914	24.04
1914-15..	0.02	0.00	T.	0.29	0.70	5.49	6.74	7.36	3.02	0.62	3.17	0.00	27.41	1915	28.27
1915-16..	0.01	0.00	0.00	0.01	0.92	6.42	14.59	3.77	1.33	0.00	0.07	T.	27.12	1916	28.09
1916-17..	0.03	**0.29**	1.20	0.52	1.50	4.79	1.83	3.81	1.42	0.33	0.06	T.	15.78	1917	**9.00**
1917-18..	T.	T.	0.02	0.00	0.81	0.72	0.81	5.79	2.73	0.60	T.	T.	11.48	1918	20.85
1918-19..	T.	0.00	2.53	0.17	5.60	2.62	2.57	9.31	2.74	0.10	T.	T.	25.64	1919	19.04
1919-20..	0.01	T.	0.39	0.27	0.44	3.21	**0.26**	1.23	3.25	1.36	T.	0.04	10.46	1920	18.28
1920-21..	T.	0.00	0.13	1.83	2.70	7.48	6.30	1.38	2.28	0.54	0.52	T.	23.16	1921	19.71
1921-22..	0.00	0.00	0.35	0.52	1.43	6.39	2.41	5.15	2.38	0.47	0.55	0.26	19.91	1922	25.71
1922-23..	T.	T.	T.	2.95	3.77	7.77	2.84	0.77	**0.03**	3.92	0.06	0.06	22.17	1923	10.99
1923-24..	0.00	0.01	0.44	0.46	0.49	1.91	2.75	3.30	1.96	0.30	T.	0.00	11.62	1924	20.17
1924-25..	0.00	0.01	T.	2.98	1.50	7.37	1.62	7.90	2.63	2.73	**4.02**	0.05	30.81	1925	23.10
1925-26..	0.06	T.	0.45	0.31	2.32	1.02	5.48	5.40	0.25	5.26	0.15	T.	20.69	1926	26.73
1926-27..	0.00	0.04	T.	1.90	7.21	1.04	3.77	6.85	2.19	1.95	0.10	0.38	25.43	1927	24.29
1927-28..	T.	T.	T.	1.93	3.18	3.94	2.40	1.97	4.65	1.31	0.26	T.	19.64	1928	18.99
1928-29..	T.	T.	0.03	0.33	3.35	4.89	1.32	2.14	1.56	1.01	0.01	0.86	15.30	1929	10.00
1929-30..	T.	0.00	T.	0.01	0.00	3.09	4.99	2.94	3.53	1.56	0.16	T.	16.28	1930	16.71

Continued on next page

PRECIPITATION—Continued

Monthly, Seasonal and Annual, 1849–1947

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	Seasonal	Year	Annual
1930-31..	0.00	0.00	0.10	0.89	1.56	0.98	5.50	1.10	1.68	0.31	1.10	0.32	13.54	1931	22.86
1931-32..	T.	0.00	T.	0.68	2.93	9.24	3.23	3.00	0.86	0.47	0.65	0.03	21.09	1932	12.00
1932-33..	T.	0.00	0.00	0.01	1.00	2.75	5.68	1.13	2.93	0.06	1.36	0.01	14.93	1933	16.99
1933-34..	0.00	T.	0.14	1.49	0.00	4.19	1.03	4.68	0.07	0.51	0.12	0.68	12.91	1934	15.93
1934-35..	0.01	T.	0.13	0.88	3.76	4.06	6.23	2.38	2.31	3.45	0.01	T.	23.22	1935	20.64
1935-36..	T.	0.25	0.08	1.44	1.24	3.25	5.77	10.06	1.01	1.09	0.49	0.28	24.96	1936	22.39
1936-37..	0.03	0.02	T.	0.69	0.01	2.94	5.26	4.88	7.05	0.86	0.06	0.59	22.39	1937	25.79
1937-38..	T.	T.	T.	0.90	2.46	3.73	2.65	8.49	5.73	1.52	T.	0.00	25.48	1938	22.24
1938-39..	0.01	0.00	0.15	1.33	0.88	1.48	3.07	1.94	2.62	0.42	0.63	T.	12.53	1939	11.16
1939-40..	T.	T.	1.06	0.17	0.20	1.05	9.98	7.81	5.32	0.94	0.63	0.01	27.17	1940	34.80
1940-41..	T.	T.	0.59	1.05	2.22	6.25	8.24	6.71	4.75	4.05	1.18	0.01	35.05	1941	35.19
1941-42..	0.01	0.03	T.	0.93	1.99	7.29	4.76	4.27	2.62	3.65	1.11	T.	26.66	1942	24.87
1942-43..	0.01	T.	0.18	0.95	4.45	2.87	6.15	1.95	3.18	1.88	0.13	0.13	21.88	1943	17.67
1943-44..	T.	0.00	0.02	0.74	0.80	2.69	4.31	5.34	0.83	2.07	0.94	0.12	17.86	1944	25.55
1944-45..	0.01	0.02	0.00	1.70	6.24	3.97	1.33	3.43	4.15	0.32	0.64	0.01	21.82	1945	24.95
1945-46..	T.	T.	0.04	1.95	3.24	9.84	1.76	2.03	2.34	0.05	0.37	0.02	21.64	1946	12.34
1946-47..	0.06	T.	0.06	0.15	2.78	2.77	1.35	2.65	3.64	0.17	0.67	0.64	14.89	1947	14.44
1947.....	T.	T.	T.	2.09	1.39	1.84	.....	.....	.....	.....	.....	.....	.....	....	.....
Means..	0.01	0.02	0.28	0.98	2.45	4.38	4.69	3.78	3.08	1.52	0.68	0.15	22.02	....	22.02

GREATEST INTENSITY OF PRECIPITATION (1906-1947)

Month	5 Minutes		10 Minutes		15 Minutes		30 Minutes		1 Hour		2 Hours	
	Amt.	Year	Amt.	Year	Amt.	Year	Amt.	Year	Amt.	Year	Amt.	Year
January....	0.28	1931	0.38	1941	0.46	1941	0.67	1941	0.72	1941	0.93	1914
February...	0.23	§1940	0.37	1940	0.47	1915	0.54	§1940	0.63	1940	0.91	1927
March.....	0.25	1912	0.40	1947	0.59	1912	0.83	1912	1.07	1912	1.24	1912
April.....	0.26	1941	0.40	1941	0.47	1941	0.63	1941	0.72	1941	0.92	1941
May.....	0.12	1912	0.17	1912	0.19	1925	0.26	1925	0.50	1906	0.60	1906
June.....	0.07	§1936	0.10	1922	0.12	1907	0.20	1907	0.35	1907	0.51	1907
July.....	0.01	1925	0.01	§1913	0.02	1925	0.03	1925	0.03	§1913	0.04	§1913
August.....	0.02	§1935	0.03	1916	0.04	1916	0.06	1916	0.12	1916	0.18	1916
September..	0.14	§1940	0.26	1940	0.32	1940	0.36	1940	0.41	1940	0.51	1912
October.....	0.13	§1947	0.18	1926	0.22	§1938	0.35	1938	0.53	1922	0.84	1922
November..	0.33	1926	0.51	1918	0.65	1918	0.81	1918	0.92	1918	0.95	1918
December...	0.21	1913	0.28	1940	0.36	1906	0.50	1906	0.70	1924	1.09	1924

§ Also other years

DAILY PRECIPITATION, 1947

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.41	.....	.....	.02	.....	.....	.....	T.	.35	T.
2	.....	.....	.....	.10	.....	T.	.....	.....	.....	T.	.....	.....
3	.....	.....	.63	.01	.....	.....	.....	.....	.....	.....	.....	.....
4	.....	.....	.....	.....	.....	.19	.....	.....	.....	.....	T.	T.
5	.....	.....	.....	.01	T.	.05	T.	.....	.....	.....	.....	.....
6	.....	.....	.....	.....	.....	.28	T.	.....	.....	.....	.....	.....
7	.....	.....	.02	.....	T.	.06	T.	.....	T.	.09	.....	.02
8	.....	.08	.03	.05	.....	.04	.....	.....	.....	.....	.....	.....
9	.....	.37	.28	.....	.....	.....	.....	.....	.....	.82	.....	.....
10	.....	.....	.35	.....	.....	.....	.....	.....	.....	.16	.....	.....
11	.....	.69	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
12	.08	1.22	.....	.....	.....	.....	T.	.....	.....	.....	.....	.....
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.	.....
15	.....	T.	.....	.....	.....	.....	.....	.....	T.	.01	1.00	.....
16	.....	.28	.....	.....	.....	.....	.....	.....	T.	.44	.....	.....
17	.....	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	.76
18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
19	.....	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.20
20	.....	.....	.....	.....	.....	.....	.....	T.	.....	.03	.....	.86
21	.....	.....	T.	.....	.....	.....	.....	.....	.....	.....	.....	T.
22	.....	.....	.04	.....	.....	.....	.....	.....	.....	T.	.....	T.
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24	T.	.....	.....	.....	.....	.....	.....	.....	T.	.....	.....	.....
25	.01	.....	.....	.....	.....	T.	.....	.....	.....	.....	.....	.....
26	.01	.01	.....	.....	.32	T.	.....	T.	.....	.....	.....	.....
27	.08	.....	1.52	.....	.03	.....	.....	.....	.....	T.	.....	.....
28	.63	.....	.12	T.	.....	.....	.....	T.	.....	.37	.....	.....
29	.....	.....	.24	.....	.....	.....	.....	.....	.....	.17	.....	.....
30	.54	.....	.....	.....	T.	.....	.....	.....	T.	.....	.04	.....
31	.....	.....	.....	.....	.32	.....	.....	.....	.....	.....	.....	.....
Sums	1.35	2.65	3.64	0.17	0.67	0.64	T.	T.	T.	2.09	1.39	1.84

PREVAILING WIND DIRECTION, 1947

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	nw.	n.	e.	w.	s.	s.	w.	w.	w.	w.	w.	w.
2	n/ne.	w.	sw.	(1)	w.	w.	w.	w.	w.	w.	w.	n.
3	n.	n.	sw.	w.	w.	w.	w.	w.	w.	w.	w.	w.
4	e.	nw.	w	w.	w.	sw.	w.	w	w.	w.	w.	n.
5	n.	w.	w.	w.	w.	sw.	w.	w.	w.	w.	n.	w.
6	nw.	w.	w.	w.	sw.	se.	w.	w.	w.	sw.	n.	se.
7	nw.	nw.	w.	w.	w.	se.	w.	w.	w.	s.	w.	w.
8	nw.	e.	sw.	w.	w.	w.	w.	w.	w.	e.	w.	w.
9	n/nw.	sw.	sw.	w.	w.	w.	w.	w.	w.	s.	n.	w/e.
10	n.	se.	w.	w.	w.	w.	w.	w.	w.	w.	n.	w.
11	nw.	se.	w.	n.	w/sw.	w.	w.	w.	w.	nw.	w.	n.
12	w.	s.	sw.	n.	w.	w.	w.	sw.	w.	n.	n.	n.
13	w.	e.	n.	w.	w.	w.	w.	w.	w.	sw.	w.	nw.
14	e.	n.	w.	w.	w/s.	w.	w.	w.	w.	sw.	w.	e.
15	n.	w/sw.	w.	w.	sw.	w.	w.	sw.	w.	sw.	se.	w.
16	n.	w.	w.	w.	w.	w.	sw.	sw.	sw.	w.	w.	n/se.
17	n.	w.	w.	w.	w.	w.	w.	w.	w.	w.	nw.	w.
18	w.	w.	w.	w.	w.	w.	w.	w.	w.	w.	w.	n/nw.
19	e.	w.	w.	w.	w.	w.	w.	sw.	w.	w.	n.	e.
20	n.	w.	w.	w.	w.	w.	sw.	s.	w.	w.	sw.	se.
21	w.	se.	sw.	w.	sw.	n.	w/sw.	w.	w.	w.	w.	e.
22	w.	w.	sw.	w.	sw.	w.	w.	w.	w.	w.	w.	e.
23	se.	nw.	w.	w.	sw.	w.	w.	w.	w.	w.	w.	e.
24	se.	n.	e.	w.	w.	w.	w.	sw.	w.	w.	nw.	e.
25	se.	w.	n.	w.	sw.	sw.	w.	w.	w.	w.	n.	n.
26	w.	s.	w.	sw.	sw.	w.	w.	w.	w.	w.	nw.	n.
27	w.	sw.	e.	w.	w.	w.	w.	w.	w.	w.	n.	n.
28	w.	se.	s.	w.	w.	w.	w.	sw.	w.	se.	n.	w.
29	w.	.....	s.	w.	w.	w.	w.	w.	w/sw.	sw.	sw.	nw.
30	w.	.....	sw.	w.	sw.	w.	w.	w.	w.	w.	w.	n.
31	n.	.....	w.	.....	sw.	.....	w.	w.	.....	ne.	.....	e/se.
Prevailing	w.	w.	w.	w.	w.	w.	w.	w.	w.	w.	w.	w.

[1] w/sw/s.

WIND: PERCENT OF TIME FROM EACH DIRECTION, 1947

Wind	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l.
North	23	12	10	4	0	3	0	0	0	5	23	23	9
Northeast	3	2	2	2	0	0	0	1	1	1	3	1	1
East	11	10	6	2	1	1	0	0	1	4	6	19	5
Southeast	11	10	5	1	2	5	0	1	1	7	6	12	5
South	4	12	11	6	8	7	2	5	8	15	8	6	8
Southwest	3	15	20	11	32	18	16	29	14	15	5	4	15
West	26	29	42	69	55	63	81	64	74	48	35	23	51
Northwest	19	10	4	5	2	3	1	0	0	3	13	12	6
Calm	0	0	0	0	0	0	0	0	1	2	1	0	0

COMPARATIVE TEMPERATURE AND PRECIPITATION DATA, 1947

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l
Monthly and Annual Mean Temperatures													
* San Francisco	47.2	53.6	56.0	58.4	57.8	61.8	60.2	61.8	61.4	62.0	55.3	51.0	57.2
† S. F. Airport	44.7	52.0	54.6	57.0	58.0	62.4	61.0	62.9	61.6	60.4	51.8	48.0	56.2
‡ Oakland Airport	44.1	51.6	55.4	58.8	60.6	64.2	63.0	64.0	63.6	61.2	51.5	48.0	57.2
Monthly and Annual Mean Maximum Temperatures													
San Francisco	53.2	59.2	61.4	65.3	63.4	68.7	65.9	67.5	68.4	68.4	61.3	56.2	63.2
S. F. Airport	52.8	59.5	61.6	65.8	66.2	71.5	67.3	70.8	71.3	68.6	60.3	55.2	64.2
Oakland Airport	52.7	60.0	63.3	68.5	69.2	73.4	70.4	71.8	74.1	70.1	61.4	56.7	66.0
Monthly and Annual Mean Minimum Temperatures													
San Francisco	41.2	48.0	50.6	51.6	52.2	54.9	54.4	56.1	54.4	55.6	49.3	45.8	51.2
S. F. Airport	36.6	44.4	47.5	48.1	49.7	53.2	54.8	55.0	51.7	52.2	43.3	40.7	48.1
Oakland Airport	35.5	43.2	47.5	49.1	52.1	55.0	55.7	56.2	53.2	52.2	41.6	39.4	48.4
Highest Temperatures for Each Month													
San Francisco	62	75	76	86	86	87	73	83	92	83	69	69	92
S. F. Airport	58	74	79	88	89	91	75	86	94	82	66	68	94
Oakland Airport	59	75	76	88	90	91	78	89	92	85	68	68	92
Lowest Temperatures for Each Month													
San Francisco	35	44	46	48	48	50	50	52	51	52	43	41	35
S. F. Airport	30	39	37	43	44	48	50	49	46	46	33	35	30
Oakland Airport	29	36	37	42	46	49	50	52	47	44	32	33	29
Monthly and Annual Precipitation													
San Francisco	1.35	2.65	3.64	0.17	0.67	0.64	T.	T.	T.	2.09	1.39	1.84	14.44
S. F. Airport	0.73	1.77	2.98	0.13	0.26	0.48	T.	T.	T.	1.93	0.96	1.67	10.91
Oakland Airport	0.65	1.57	3.31	0.16	0.82	0.43	T.	0.01	T.	3.08	1.07	1.22	12.32

* Weather Bureau Office, located in Federal Office Building, Civic Center, San Francisco, California.

† Weather Bureau Airport Station, San Francisco Municipal Airport, approximately 11 miles south of San Francisco Weather Bureau Office.

‡ Weather Bureau Airport Station, Oakland Municipal Airport, approximately 12 miles east-southeast of San Francisco Weather Bureau Office.

NORMAL DAILY PRECIPITATION

Period 1878–1927, inclusive

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	.13	.15	.09	.07	.02	.01	0	0	0	.04	.04	.13
2.....	.13	.16	.10	.07	.02	.01	0	0	0	.04	.05	.14
3.....	.13	.17	.12	.07	.03	.01	0	0	0	.03	.06	.14
4.....	.12	.16	.14	.08	.03	0	0	0	0	.03	.07	.15
5.....	.10	.15	.13	.08	.04	.01	0	0	.01	.03	.07	.14
6.....	.10	.16	.13	.09	.04	.01	0	0	.01	.03	.07	.13
7.....	.09	.14	.13	.09	.03	.01	0	0	.01	.03	.08	.13
8.....	.09	.13	.12	.10	.03	.01	0	0	.01	.04	.08	.13
9.....	.09	.15	.10	.09	.03	.01	.01	0	.01	.03	.08	.12
10.....	.10	.16	.10	.08	.03	.02	0	0	.01	.03	.07	.11
11.....	.11	.15	.11	.07	.03	.02	0	0	.02	.04	.06	.11
12.....	.12	.16	.10	.05	.03	.02	0	0	.02	.04	.05	.10
13.....	.14	.16	.09	.05	.03	.02	0	0	.02	.04	.05	.09
14.....	.17	.16	.10	.04	.03	.01	0	.01	.02	.04	.06	.10
15.....	.18	.14	.10	.05	.03	.01	0	0	.01	.04	.07	.11
16.....	.17	.15	.10	.05	.03	0	.01	0	.01	.04	.08	.11
17.....	.17	.15	.10	.05	.04	0	0	0	0	.03	.09	.12
18.....	.18	.16	.10	.05	.03	0	0	0	0	.03	.10	.13
19.....	.16	.15	.10	.05	.03	0	0	0	.01	.04	.11	.14
20.....	.15	.14	.10	.04	.02	0	0	0	.01	.04	.12	.15
21.....	.16	.14	.10	.04	.02	0	0	0	.02	.04	.11	.15
22.....	.17	.13	.09	.04	.02	0	0	0	.03	.04	.10	.16
23.....	.17	.10	.08	.04	.02	0	0	0	.04	.04	.09	.15
24.....	.18	.10	.08	.03	.01	0	0	0	.04	.04	.09	.14
25.....	.19	.09	.09	.03	.02	0	0	0	.03	.04	.08	.13
26.....	.18	.08	.09	.03	.03	0	0	0	.02	.04	.08	.12
27.....	.18	.08	.09	.02	.02	0	0	0	.02	.04	.07	.12
28.....	.17	.08	.10	.02	.02	0	0	0	.02	.04	.08	.12
29.....	.17	*	.09	.02	.02	0	0	0	.02	.03	.09	.12
30.....	.17	.....	.09	.02	.01	0	0	0	.03	.03	.10	.12
31.....	.17	.....	.08	.....	.01	.....	0	0	.....	.03	.....	.13
Totals ..	4.54	3.85	3.14	1.61	0.80	0.18	0.02	0.01	0.45	1.12	2.35	3.95

Annual 22.02. * Leap years, February 29, .08, total 3.93.
Leap year 22.10

NORMAL DAILY MEAN TEMPERATURE

Period 1875–1921, inclusive

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	50	51	54	55	56	58	59	58	60	61	59	53
2.....	50	51	54	55	56	58	59	58	60	61	59	53
3.....	50	51	54	55	56	58	59	59	60	61	58	53
4.....	50	51	54	55	56	58	59	59	60	61	58	53
5.....	50	51	54	55	56	58	59	59	60	61	58	53
6.....	50	51	54	55	56	58	59	59	60	61	58	53
7.....	50	51	54	55	56	58	59	59	60	61	58	52
8.....	50	52	54	55	56	58	59	59	61	61	58	52
9.....	50	52	54	55	56	58	59	59	61	61	58	52
10.....	50	52	54	55	56	58	59	59	61	61	57	52
11.....	50	52	54	55	56	58	58	59	61	61	57	52
12.....	50	52	54	55	56	58	58	59	61	61	57	52
13.....	50	52	54	55	56	58	58	59	61	61	57	52
14.....	50	52	54	55	57	59	58	59	61	61	57	51
15.....	50	52	54	55	57	59	58	59	61	61	56	51
16.....	50	52	54	55	57	59	58	59	61	61	56	51
17.....	50	52	54	55	57	59	58	59	61	61	56	51
18.....	50	53	54	55	57	59	58	59	61	60	56	51
19.....	50	53	54	55	57	59	58	59	61	60	56	51
20.....	50	53	54	55	57	59	58	59	61	60	55	51
21.....	50	53	54	55	57	59	58	59	61	60	55	50
22.....	50	53	54	55	57	59	58	59	61	60	55	50
23.....	50	53	54	55	57	59	58	60	61	60	55	50
24.....	50	53	54	55	57	59	58	60	61	60	55	50
25.....	50	53	54	55	58	59	58	60	61	60	55	50
26.....	50	53	54	55	58	59	58	60	61	60	54	50
27.....	50	53	55	55	58	59	58	60	61	60	54	50
28.....	50	53	55	55	58	59	58	60	61	59	54	50
29.....	51	*	55	56	58	59	58	60	61	59	54	50
30.....	51	.....	55	56	58	59	58	60	61	59	54	50
31.....	51	.....	55	.....	58	.....	58	60	.....	59	.....	50
Means ..	50	52	54	55	57	58	58	59	61	60	56	51

Annual 56.1. * Leap years, February 29, 53.