WBO.,S.F.—1-28-30-1800

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

ANNUAL METEOROLOGICAL SUMMARY

WITH COMPARATIVE DATA

1929

San Francisco, California

Compiled by
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Temporarily in charge

SAN FRANCISCO, CALIF.
1929

MISCELLANEOUS DATA FOR 1929

Location of Office, 1500 Merchants Exchange Building, 465 California Street
Latitude 37° 48′ North. Longitude 122° 26′ West
Standard of time in local use is 120th M.; local mean time is 10 minutes slower

Barometric Pressure (Sea Level)

[*Elevation of barometers above sea level, 206 feet; above ground, 189 feet*]

Mean, 30.024 inches; highest, 30.43 inches on November 13
lowest, 29.66 inches on January 16

Temperature

[*Elevation of thermometers above ground, 208 feet*]

Greatest daily range, 33°; from 61° to 94°, on June 22
Least daily range, 3°; from 52° to 55°, on December 3
Greatest monthly range, 45°, in June
Least monthly range, 23°, in January

Precipitation

[*Elevation of rain gage above ground, 202 feet*]

Longest period without .01 or more precipitation, 123 days, June 16 to October 16, inclusive
Longest period with .01 or more precipitation, 5 days, December 9–13, inclusive

Greatest fall in 5 minutes, .17; 10 minutes, .22; 15 minutes, .31;
30 minutes, .31; one hour, .38
Hail on January 19

Wind

[*Elevation of anemometer above ground, 243 feet*]

West wind prevailed for total of 3,525 hours during the year,
or 40 per cent of the time

EXTREMES OF PRECIPITATION AND WINDS

Jan. 1, 1871 to Dec. 31, 1929

MONTH	Precipitation			§Wind			
	24-hr. max.	Year	Day	Max. vel.	Direction	Year	Day
January	4.67	1881	28–29	47	se.	1901	3
February	3.60	1887	4–5	43	s.	1917	24
March	3.31	1879	4–5	49	s.	1902	1
April	2.43	1896	23–24	39	nw.	1871	23
May	†1.42	1906	27–28	37	w.	1897	11
June	1.23	1884	12–13	40	sw.	1873	.....
July	0.23	1886	16	34	w.	1898	15
August	0.22	1916	13–14	35	sw.	1893	2
September	3.58	1904	23–24	38	n.	1923	17
October	2.03	1889	17–18	36	ne.	1906	20
November	3.98	1874	22–23	52	ne.	1906	30
December	3.44	1924	20–21	52	ne.	1923	1

§Wind velocities adjusted to basis of 3-cup anemometer, which was put into use January 1, 1928. †Also 1925, 11–12.

TEMPERATURE EXTREMES

Mar. 1, 1871 to Dec. 31, 1929

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	98	1905	7	47	1893	31
August	92	1891	22	46	1903	8
September	*101	1913	16	47	1900	30
October	96	1917	3	45	1881	14
November	83	1895	16	38	1919	27
December	†72	1893	8	34	1879	24

* 101.0° in 1904; 101.2° in 1913. †72.5° in 1929.

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 20
1898	89	June 4	36	January 25
1899	94	October 8	34	February 4
1900	92	September 22	40	December 31
1901	91	October 12	37	January 1
1902	83	September 29	38	January 14
1903	96	June 6	37	January 15 †
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

† Also on other dates

AVERAGES AND OTHER COMPARATIVE DATA

BASED ON RECORDS OF PREVIOUS YEARS, INCLUDING 1929

MONTH	TEMPERATURE							PRECIPITATION				Relative Humidity (per cent)			SUNSHINE				WIND†		Number of Days														
	Mean					Highest on Record	Lowest on Record	Monthly	Greatest Monthly	Least Monthly	Snowfall Greatest Monthly	5:00 A. M.	12:00 Noon	5:00 P. M.	Number of Hours	Possible	Per cent of Possible	Cloudiness* (Scale 1 to 10)	Hourly Velocity†	Prevailing Direction	Wind, ‡ 33 or more miles per hour	Clear* (Scale 0 to 3)			Partly Cloudy* (Scale 4 to 7)	Cloudy* (Scale 8 to 10)			Precipitation .01 or more			Thunderstorms	Dense Fog	Temp.	
	Maximum	Minimum	Monthly	Daily Range	Daily Change																	Average	Greatest	Least		Average	Greatest	Least	Average	Greatest	Least			80° and above	40° and below
Length of record, years	55	55	59	39	24	59	59	59	59	59	59	39	12	39	39	—	36	23	39	39	24	45	45	45	45	45	45	45	59	59	59	39	39	19	19
January	54.9	44.6	49.9	10.4	2.2	78	29	4.73	24.36	0.26	0.3	86	68	72	161	306	58	5.4	7.0	n.	1	10	21	2	8	12	25	5	11	26	3	‡	3	0	5
February	58.3	46.9	52.5	11.6	2.0	80	33	3.69	12.52	0.00	3.7	84	66	69	171	302	61	5.2	7.3	w.	1	11	21	2	8	9	19	1	10	20	2	‡	2	0	2
March	60.3	47.9	54.0	12.4	2.5	86	33	3.09	8.75	0.03	1.0	83	60	66	228	371	67	4.4	8.3	w.	‡	13	24	4	9	9	18	1	10	23	2	‡	1	1	‡
April	61.9	49.1	55.5	13.0	2.7	89	40	1.57	10.06	0.00	0.0	86	61	67	172	396	76	3.8	9.3	w.	‡	15	26	3	10	6	15	0	6	17	0	‡	1	1	0
May	63.8	50.4	56.8	12.7	2.5	97	42	0.70	4.02	0.00	0.0	85	62	69	301	441	74	3.8	10.5	w.	‡	15	24	4	10	6	13	0	4	11	0	‡	1	1	0
June	65.4	52.0	58.7	13.7	2.6	100	46	0.15	2.57	0.00	0.0	88	64	70	326	443	77	3.3	11.1	w.	‡	17	29	3	9	4	10	0	2	9	0	‡	1	2	0
July	65.0	52.8	58.7	12.4	2.2	98	47	0.01	0.23	0.00	0.0	91	69	75	309	450	74	3.9	11.6	sw.	‡	15	26	5	12	4	10	0	1	4	0	‡	1	1	0
August	65.0	47.8	59.2	12.0	2.2	92	46	0.02	0.29	0.00	0.0	92	70	77	263	422	68	4.2	10.8	sw.	‡	13	22	5	13	5	10	0	‡	3	0	‡	2	1	0
September	68.1	54.5	61.3	13.8	2.9	101	47	0.32	5.07	0.00	0.0	88	63	70	262	373	76	3.5	9.1	w.	‡	16	25	6	10	4	13	0	2	5	0	‡	2	4	0
October	67.5	53.5	60.5	14.4	3.1	96	45	0.97	7.28	0.00	0.0	85	58	67	268	347	76	3.7	7.4	w.	‡	17	27	7	9	5	13	0	4	13	0	‡	2	4	0
November	62.4	50.6	56.6	12.2	2.1	83	38	2.53	11.78	0.00	0.0	84	60	67	180	304	64	4.1	6.5	w.	‡	14	26	2	9	8	17	0	7	17	0	‡	3	‡	‡
December	56.1	46.3	51.2	10.0	2.0	74	34	4.47	15.16	0.00	3.5	83	69	71	165	296	60	5.0	6.8	n.	1	12	21	0	8	10	19	5	10	24	0	‡	2	2	2
Year	62.4	49.7	56.2	12.4	2.4	101	29	22.25	38.82	9.00	3.7	86	64	70	2,907	4451	69	4.2	8.9	w.	3	168	221	100	115	82	112	60	67	92	42	2	21	9	9

(T.) indicates amount too small to measure. *Daylight hours only. †Wind velocities adjusted to basis of 3-cup anemometer, which was put into use January 1, 1928. ‡Less than one-half.

Annual Meteorological Summary

SAN FRANCISCO, CAL., YEAR 1929

MONTH	TEMPERATURE (Degrees Fahrenheit)							Relative humidity (per-cent)	PRECIPITATION (In. and hundredths)				Percentage of sunshine	WIND					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 (33 miles per hour or over)	Clear	Partly cloudy	Cloudy	Precipitation (0.01 inch or over)	Thunderstorms	Fog, dense	Snow (0.1 in. or over)	50° or below	80° or above	45° or below	40° or below
January	52.7	42.2	47.4	59	30	36	12	79	1.32	0.71	15-16	0	49	5.6	nw.	19	w.	19	0	11	7	13	6	0	5	0	8	0	26	14
February	58.7	44.9	51.8	72	28	35	7	66	2.14	1.14	1-2	0	76	7.2	w.	34	w.	25	2	14	8	6	5	0	2	0	26	0	13	5
March	60.8	47.6	51.2	81	3	43	24	71	1.56	0.82	9-10	0	66	7.6	w.	34	w.	22	1	12	10	9	7	0	0	0	0	1	8	0
April	59.3	47.4	53.4	71	1	40	6	77	1.01	0.62	3-4	0	72	8.4	w.	36	nw.	4	1	9	15	6	8	0	0	0	1	0	6	1
May	63.2	50.0	56.6	81	11	47	6	79	0.01	0.01	31	0	66	8.2	w.	30	w.	4	0	12	10	9	1	0	0	0	0	1	0	0
June	71.0	54.9	63.0	95	21	50	1	75	0.86	0.52	15	0	75	7.1	w.	30	w.	14	0	16	9	5	6	0	0	0	0	6	0	0
July	68.2	54.8	61.5	85	2	52	20	80	T.	T.	13+31	0	66	7.8	w.	29	w.	23	0	11	13	7	0	0	0	0	0	2	0	0
August	67.2	55.0	61.1	77	19	52	7	84	0	0	0	0	71	7.9	w.	32	w.	22	0	13	18	0	0	0	2	0	0	0	0	0
September	68.2	54.6	61.4	79	14	51	29	79	T.	T.	6	0	72	5.8	w.	24	w.	9	0	17	8	5	0	0	0	0	0	0	0	0
October	71.8	55.2	63.5	90	22	50	26	70	0.01	0.01	17	0	79	5.9	w.	38	n.	29	3	17	11	3	1	0	1	0	0	6	0	0
November	68.8	50.6	59.7	82	3	46	14	57	0	0	0	0	92	3.9	n.	23	w.	10	0	26	3	1	0	0	0	0	0	3	0	0
December	58.7	49.8	54.2	74	5	39	30	85	3.09	1.29	9-10	0	42	5.5	n.	32	s.	10	0	6	11	14	7	1	3	0	2	0	9	2
Year	64.0	51.0	57.3	95	June 21	35	Feb. 7	75	10.00	1.29	Dec. 9-10	0	69	6.7	w.	38	n.	Oct. 29	7	164	123	78	41	1	13	0	37	19	62	22

PRECIPITATION

Monthly, Seasonal and Annual, 1849-1929

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
1838-69..	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	2.60	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	**10.06**	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.	**7.28**	2.90	13.81	9.61	5.16	4.73	1.18	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	1.65	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	0.64	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	0.66	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	7.53	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	1.01	5.48	5.40	0.25	5.26	0.15	T.	20.69	1926	26.73
1926-27..	0	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	0.13	3.35	4.89	1.32	2.14	1.56	1.01	0.01	0.86	15.30	1929	10.00

Continued on next page

PRECIPITATION—Continued

Monthly, Seasonal and Annual, 1849–1929

Season	July	Aug.	Sept.	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	Seasonal	Year	Annual
1929-30..	T.	0	T.	0.01	0.00	3.09	.....	.....	.....	.....	.....	.....	.....	....	.....
Means..	0.01	0.02	0.32	0.97	2.53	4.47	4.73	3.69	3.09	1.57	0.70	0.15	22.25	....	22.25

MEAN TEMPERATURE

Monthly and Annual, 1871–1929

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	56.8	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	57.6	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	54.6	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	54.7
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	61.6	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	58.6	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	51.2	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	56.6	63.0	61.5	61.1	61.4	63.5	59.7	54.2	57.3
Means.....	49.9	52.5	54.0	55.5	56.8	58.7	58.7	59.2	61.3	60.5	56.6	51.2	56.2

NORMAL DAILY PRECIPITATION

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	.16
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	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.

NORMAL DAILY MEAN TEMPERATURE

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.