

U. S. Department of Agriculture,
WEATHER BUREAU,
Charles P. Marvin, Chief.

ANNUAL
**Meteorological
Summary**
WITH COMPARATIVE DATA

1923

Kansas City, Mo.

Compiled Under the Direction of
P. CONNOR, Meteorologist.

U. S. WEATHER BUREAU.

Summary for Year 1923. Kansas City, Mo.

Month.	Temperature.						Relative humidity (per cent).	Precipitation.				Sunshine.		Wind.			Number of days.															
	Means.			Extremes.				Total.	Greatest in 24 hours.	Date.	Snowfall.	Number of hours.	Per cent of possible.	Average hourly velocity.	Prevailing direction.	Highest.			Winds, 40 miles or more per hour.	Clear.	Partly cloudy.	Cloudy.	With precipitation (.01 inch or more.)	Snow.	Thunderstorms.	Dense fog.	Max. temp.		Min. temp.			
	Maximum.	Minimum.	Monthly.	Highest.	Date.	Lowest.										Date.	6 a. m.	6 p. m.									Velocity.	Direction.	Date.	32° or below.	90° or above.	32° or below.
January...	48	30	39	63	17	19	6	72	60	0.16	0.14	26	T.	189	62	12	nw.	43	nw.	7	1	12	9	10	3	0	1	0	17	0		
February...	39	21	30	62	12	0	3	70	48	0.36	0.22	25-26	1.2	201	67	12	nw.	48	nw.	13	2	14	10	7	4	1	0	0	8	0	23	1
March.....	50	28	39	78	2	0	18	72	53	3.35	1.55	11-12	2.7	244	66	15	nw.	49	nw.	15	3	13	7	11	11	7	4	0	2	0	23	1
April.....	64	45	54	79	30	26	8	69	50	1.84	0.87	20-21	T.	271	68	12	s.	39	w.	21	0	13	9	8	13	0	4	0	9	0	2	0
May.....	72	54	63	85	31	37	9	74	55	2.25	0.66	23-24	0	312	70	11	e.	43	w.	11	2	11	12	8	13	0	7	1	0	0	0	0
June.....	82	64	74	96	25	56	29	83	64	6.51	2.52	14-15	0	345	77	9	s.	52	ne.	15	2	10	16	4	12	0	10	0	0	6	0	0
July.....	88	71	79	97	11	60	2	76	57	3.40	2.40	¶	0	356	85	7	e	36	nw.	12	0	15	13	3	10	0	10	0	0	14	0	0
August....	86	68	77	99	7	52	22	77	57	2.88	1.52	3	0	325	77	8	n.	31	n.	21	0	14	10	7	13	0	13	0	0	10	0	0
September.	78	61	69	89	3	49	14	82	64	9.61	2.83	¶	0	280	75	8	se.	41	nw.	6	2	11	13	6	12	0	10	0	0	0	0	0
October....	61	46	54	78	10	28	31	80	60	4.14	1.78	15-16	T.	215	62	8	e.	39	nw.	18	0	12	9	10	10	0	3	3	0	0	2	0
November.	55	39	47	71	10	24	28	77	57	1.66	1.01	29	9.1	210	70	10	nw.	30	nw.	16	0	14	7	9	4	1	0	2	0	0	4	0
December..	46	32	39	60	17	0	31	77	65	1.22	0.70	11-12	0.6	147	50	11	sw.	35	nw.	31	0	11	6	14	8	2	0	2	1	0	13	1
Year..	64	47	55	99	Aug. 7	0	Mar. 18	76	58	37.28	2.83	Aug. 31-Sept. 1.	13.6	3,125	69	10	nw.	52	ne.	15	12	147	121	97	113	11	62	8	12	30	84	3

¶ June 30 - July 1.

¶ August 31 - September 1.

Mean Maximum Temperatures.

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	An'l.
1889.....	38.8	36.6	54.4	65.0	72.5	80.1	85.7	83.5	73.4	63.0	47.9	54.7	63.0
1890.....	39.4	41.6	47.9	66.5	73.8	86.7	91.2	83.7	72.6	63.9	55.9	45.7	64.2
1891.....	41.0	40.1	41.6	62.2	70.4	79.5	81.0	81.0	81.9	67.3	47.3	48.6	62.3
1892.....	34.6	43.5	44.8	60.5	67.7	83.4	85.1	86.9	80.7	68.7	74.7	92.3	61.5
1893.....	30.6	35.7	49.8	63.0	70.8	81.9	87.1	83.2	82.4	70.3	50.7	44.6	62.5
1894.....	35.1	34.4	45.8	63.7	74.8	85.5	86.8	89.5	79.1	69.3	51.3	45.3	65.0
1895.....	32.4	32.8	52.2	69.9	75.9	81.7	82.1	83.5	82.8	63.5	48.8	39.6	62.1
1896.....	38.3	44.8	43.2	71.3	78.8	81.4	88.5	87.5	73.9	66.0	49.8	49.0	64.6
1897.....	34.6	38.9	51.5	63.6	74.5	84.5	90.1	84.8	88.4	75.2	53.9	34.8	64.6
1898.....	39.0	44.6	54.5	62.3	73.1	84.3	86.1	86.1	80.6	61.5	49.0	34.9	63.0
1899.....	40.0	28.5	44.2	62.8	76.7	82.7	84.5	89.0	78.9	75.0	68.5	53.4	63.2
1900.....	43.1	33.8	50.9	67.2	75.9	82.9	85.5	89.4	79.0	73.2	50.5	43.4	64.6
1901.....	43.5	34.2	51.8	62.9	72.5	80.7	88.3	89.5	78.3	71.6	54.6	35.2	65.3
1902.....	39.1	39.8	53.5	61.3	78.4	78.9	86.2	85.1	73.0	70.9	56.7	33.6	62.6
1903.....	39.0	36.8	55.1	65.4	72.5	77.3	87.0	83.4	76.8	67.4	48.4	41.3	62.5
1904.....	35.1	37.9	53.4	67.5	71.8	79.2	83.1	83.6	80.2	69.6	59.5	40.7	62.6
1905.....	28.6	29.7	60.3	64.9	74.4	85.6	82.3	87.6	79.1	63.9	56.1	41.7	62.6
1906.....	42.1	43.1	38.3	70.4	76.5	83.2	84.6	85.6	81.2	66.7	48.9	43.4	63.7
1907.....	38.8	42.4	46.1	95.0	68.1	81.4	86.6	81.9	78.2	66.4	52.8	43.3	63.5
1908.....	43.8	43.2	59.0	65.2	72.8	79.3	85.1	84.7	81.6	64.6	54.9	45.3	65.0
1909.....	37.5	47.7	51.3	63.7	71.9	81.7	86.0	89.6	78.0	67.3	60.9	29.1	62.7
1910.....	35.1	38.4	69.0	65.7	67.5	79.8	88.2	83.6	77.5	71.6	53.0	39.5	64.4
1911.....	41.9	44.5	57.7	86.3	78.5	90.9	88.5	87.3	82.2	62.9	48.8	43.1	66.8
1912.....	24.6	35.1	39.5	64.2	77.9	97.9	88.7	86.0	76.2	70.6	66.9	45.5	62.0
1913.....	39.3	36.2	49.3	66.8	74.7	85.3	91.5	96.5	77.0	63.5	58.2	43.3	65.1
1914.....	44.3	33.5	75.2	264.1	175.9	87.5	89.3	87.4	79.2	67.8	59.6	30.9	64.5
1915.....	36.3	44.6	40.3	71.2	71.2	78.2	82.7	77.7	77.1	85.9	141.8		62.7
1916.....	37.1	38.4	56.5	60.7	74.7	79.3	192.8	88.4	77.7	46.7	155.2	38.8	63.9
1917.....	41.2	41.1	54.8	60.7	66.9	82.9	90.1	82.4	77.7	76.0	3.6	431.4	62.2
1918.....	25.4	44.5	62.4	58.0	78.6	90.2	89.0	94.7	77.3	269.8	82.2	46.2	65.4
1919.....	42.5	42.8	54.5	53.3	71.0	84.1	191.4	85.6	88.1	86.5	50.0	33.2	63.8
1920.....	37.6	42.1	55.5	56.5	71.1	82.5	86.1	82.3	79.1	170.5	54.8	84.3	63.0
1921.....	44.5	49.9	61.2	65.2	76.0	85.0	89.7	85.2	82.3	70.1	54.3	44.3	67.3
1922.....	38.6	43.4	53.4	64.7	75.0	86.3	85.5	88.1	81.3	70.8	55.7	44.6	65.6
1923.....	47.7	39.1	50.4	63.5	71.8	81.8	87.5	86.8	77.9	61.6	64.8	46.3	64.0
Means.....	38.2	39.4	52.6	64.1	73.6	83.0	87.2	86.4	78.9	67.7	53.3	41.1	63.8

Extremes of Precipitation and Wind.

Month.	Precipitation. 1888-1923.			Wind. 1888-1923.			
	Great- est in 24 hours.	Year.	Day.	High- est ve- locity.	Di- rec- tion.	Year.	Day.
January.....	2.24	1916	20-21	74	nw.	1909	29
February.....	2.08	1911	16-17	53*	nw.	1908	5
March.....	2.69	1922	13-14	60	w.	1916	21
April.....	3.19	1904	24-25	60	sw.	1922	8
May.....	4.33	1904	5-6	52*	nw.	1908	28
June.....	4.37	1897	26-27	67	n.	1912	5
July.....	5.62	1896	18-19	57	nw.	1913	11
August.....	5.93	1905	22	63	nw.	1917	8
September.....	7.03	1914	6-7	48	sw.	1912	2
October.....	4.90	1908	21-22	46	nw.	1917	8
November.....	3.37	1918	6-7	66	n.	1917	21
December.....	1.83	1896	24-25	49	nw.	1917	9

* Also February 28, 1914, February 4, 1917, and February 25, 1918. b Also May 9, 1918.

Mean Minimum Temperatures.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	An'l.
1889	23.7	20.4	36.5	46.0	54.1	61.4	68.3	65.1	55.9	46.6	32.0	38.2	45.7
1890	20.9	26.4	28.7	47.6	53.3	67.4	69.8	64.1	53.9	46.5	37.0	29.1	45.4
1891	26.9	20.2	26.2	47.6	51.2	63.4	63.7	64.0	61.2	46.1	30.8	30.7	44.3
1892	16.5	30.1	30.3	44.5	51.8	64.7	66.7	66.2	59.5	49.2	32.9	20.5	44.4
1893	18.5	18.1	30.5	44.5	52.3	63.7	68.0	63.2	60.8	47.4	31.3	26.2	43.2
1894	21.2	19.9	37.4	47.2	55.0	64.3	66.9	67.1	59.1	48.9	33.2	20.3	45.9
1895	15.7	17.0	32.3	49.2	54.9	64.2	66.3	67.1	63.6	43.0	33.4	25.7	44.4
1896	24.6	26.9	28.6	47.4	50.5	63.1	63.4	67.4	55.7	43.9	31.2	21.7	46.1
1897	20.1	26.9	32.8	45.8	54.5	65.7	70.8	65.1	65.1	52.5	33.9	21.2	46.2
1898	25.9	26.2	35.4	44.3	56.1	67.8	68.5	68.4	62.1	45.4	31.6	20.0	46.0
1899	21.8	10.2	25.9	45.0	58.6	66.1	67.8	69.8	57.5	53.4	42.4	23.0	45.1
1900	25.2	16.6	30.6	46.7	57.5	64.8	69.0	71.0	62.3	54.0	33.8	28.2	46.9
1901	25.9	19.2	32.6	44.9	55.2	67.5	75.9	69.1	59.3	51.9	35.0	21.7	46.5
1902	22.4	16.1	36.1	43.7	50.4	62.6	69.0	67.3	54.7	51.1	41.4	22.5	45.6
1903	24.1	20.7	35.8	45.9	56.5	60.6	70.0	66.5	57.1	49.1	34.0	22.5	45.2
1904	18.6	20.1	33.8	40.4	45.4	62.7	67.0	65.0	61.5	49.3	38.6	24.4	44.7
1905	13.4	12.7	41.3	45.1	55.6	66.3	66.4	69.1	62.6	46.9	37.6	26.4	45.3
1906	26.3	24.4	25.6	49.4	57.3	63.8	66.4	69.7	63.4	46.6	34.6	28.0	46.3
1907	23.4	24.5	42.3	48.3	49.2	62.7	70.4	63.4	59.2	47.4	35.9	29.1	45.9
1908	24.7	25.7	36.3	46.6	55.8	63.3	67.5	66.5	62.2	46.8	37.2	29.4	46.8
1909	21.6	26.4	33.6	41.6	53.9	65.1	69.5	71.5	59.6	47.3	43.0	15.3	45.7
1910	23.1	13.1	46.9	46.3	52.0	63.1	69.6	66.9	59.8	50.9	34.5	24.4	46.3
1911	23.8	27.6	35.9	43.8	55.8	70.6	70.1	68.8	64.6	47.9	29.2	28.5	47.5
1912	8.8	20.6	24.5	46.6	59.6	61.8	70.9	68.5	58.7	49.2	37.6	27.9	44.5
1913	20.9	20.1	29.5	47.6	57.2	65.2	71.8	74.4	61.2	45.8	44.8	32.4	47.7
1914	28.4	18.0	34.1	46.4	57.7	69.4	72.2	68.7	61.6	52.1	40.8	17.5	47.2
1915	21.0	31.8	29.1	53.2	53.6	61.7	66.4	62.6	62.3	32.2	40.8	27.7	46.9
1916	17.6	22.1	35.0	44.6	56.1	61.9	73.8	69.1	58.1	47.6	38.6	21.0	45.5
1917	20.8	17.6	33.6	43.4	50.8	62.5	69.7	64.9	59.8	40.4	39.0	15.5	43.2
1918	9.3	22.3	39.1	40.6	59.6	69.7	68.6	72.8	54.4	53.0	35.9	32.5	46.7
1919	26.2	25.6	35.5	45.5	54.7	66.2	72.3	67.6	63.0	47.6	32.6	18.6	46.3
1920	20.9	15.1	35.1	39.9	45.5	64.0	67.6	65.1	62.2	54.2	34.0	27.7	46.4
1921	30.1	31.5	40.6	46.6	59.1	69.1	72.5	68.7	64.2	50.1	35.4	27.5	49.5
1922	20.9	23.2	36.5	47.0	53.6	63.0	68.3	69.3	62.7	50.5	39.9	24.8	47.5
1923	30.3	21.4	28.5	44.7	54.2	66.4	71.1	68.3	60.6	46.1	39.2	31.8	46.9
Means	21.7	22.1	38.6	45.5	55.6	64.9	69.2	67.6	60.3	48.6	36.2	25.8	45.9

Extremes of Temperature, 1888-1923.

Month.	High- est.	Year.	Day.	Low- est.	Year.	Day.
January	70	1907	7	-20	1912	12
February	75	1896	26	-22	1899	12
March	91	1907	21	0	1923	18
April	95	1910	29	17	1920	5
May	96	1913	29	27	1907	4
June	103	1918	20	48	1913	8
July	106	1901	22	54*	1891	9
August	105	1918	3	46	1891	24
September	101	1893	13	35	1899	29
October	91	1899	13	21	1917	30
November	83	1915	6	4	1896	28
December	70	1859	12	-13	1892	26

* Also July 11, 1895.

Station Barometric Pressure.

BASE NUMBER 29.00 INCHES.

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
1889.....	.999	1.105	.991	.975	.906	.938	.931	1.029	.982	1.066	1.078	1.002	1.000
1890.....	1.103	1.017	1.021	.991	.882	.916	.963	1.008	1.052	.956	1.090	1.085	1.008
1891.....	1.049	.975	.961	.962	1.046	.871	1.095	.991	1.072	1.099	1.038	.964	1.002
1892.....	1.138	1.043	1.011	.929	.859	.896	1.011	.989	1.036	1.035	1.041	1.064	1.004
1893.....	1.022	1.073	.968	.837	.873	.928	.976	.937	.934	.970	1.024	1.077	.973
1894.....	1.029	1.085	.959	.918	.932	.963	1.024	1.016	.984	.922	1.097	1.108	1.003
1895.....	1.019	1.166	.986	.904	.943	.999	.980	.947	.971	1.092	1.045	.982	1.003
1896.....	1.092	.977	1.010	.906	.871	.970	1.000	1.000	1.001	.998	1.069	1.117	1.001
1897.....	1.096	.973	.907	.971	1.068	.892	.919	.989	1.082	1.005	1.052	1.066	.997
1898.....	1.002	1.062	1.003	1.027	.885	.932	.975	.947	.941	.955	1.007	1.100	.989
1899.....	1.043	1.054	.917	.941	.858	.973	.973	.905	1.047	1.007	.999	1.092	.987
1900.....	1.067	1.001	1.035	.927	.921	.895	.937	.963	1.031	.989	1.089	1.053	.905
1901.....	1.050	1.088	.831	1.022	.880	.874	.918	.967	.974	1.081	1.128	1.028	.937
1902.....	1.147	1.095	.910	.956	.908	.883	.959	.933	.951	.941	.970	1.061	.972
1903.....	.978	1.083	1.082	.881	.894	.858	.948	.955	1.010	1.053	1.080	1.073	.909
1904.....	1.023	1.080	.909	.984	.909	.942	.972	1.022	1.030	1.050	1.077	1.021	1.002
1905.....	1.259	1.214	.959	.884	.867	.895	.923	.936	.969	1.058	1.013	1.101	1.007
1906.....	1.020	1.157	1.079	.962	.915	.867	.971	.951	.988	1.001	1.106	1.110	1.011
1907.....	1.105	1.000	.972	.973	.911	.874	.933	.970	.982	1.082	1.101	.974	.997
1908.....	1.042	1.029	.985	.917	.808	.928	1.015	.966	1.014	1.019	1.016	1.050	.882
1909.....	1.053	.877	.913	.888	.821	.922	.919	.973	1.022	1.005	1.018	1.022	.955
1910.....	1.034	1.100	1.010	.861	.953	.934	.887	.947	.992	.993	1.002	1.092	.987
1911.....	1.082	1.095	1.004	.953	.938	.882	.945	.942	.938	1.019	1.008	1.027	.988
1912.....	1.087	1.025	1.058	.901	.830	.894	.957	.907	.982	1.013	1.066	1.006	.886
1913.....	1.016	1.049	.883	.969	.940	.976	.845	.946	.938	.991	1.038	1.112	.996
1914.....	.938	1.101	1.045	.977	1.048	.920	.967	.948	1.024	1.011	1.079	1.145	1.016
1915.....	.978	.965	1.076	.967	.810	.923	.932	.975	.958	1.015	.957	.988	.961
1916.....	1.088	1.149	.901	.949	.832	.856	.951	.955	.980	1.006	1.042	.943	.971
1917.....	1.006	1.067	.957	.905	.904	.932	.909	.987	1.045	.999	1.148	1.178	1.003
1918.....	.948	1.002	.959	.833	.898	.902	.991	.931	1.046	.981	1.020	.984	.966
1919.....	1.068	.901	1.077	.918	.880	.964	.965	.959	.971	.971	1.046	1.130	.998
1920.....	1.182	1.078	.843	.762	.952	.964	.991	.991	.965	1.003	1.110	.916	.979
1921.....	1.090	1.005	.968	.911	.924	.911	.978	.974	.921	.923	1.009	1.066	.978
1922.....	1.120	1.063	.963	.923	.878	.950	.979	.955	1.033	.977	1.053	1.086	.994
1923.....	1.005	1.194	.885	.915	.868	.895	.964	.944	.980	1.129	1.058	1.026	.997
Means.....	1.053	1.035	.978	.931	.903	.924	.960	.960	.997	1.014	1.050	1.051	.990

MISCELLANEOUS DATA FOR YEAR 1923.

Station Established July 1, 1888.

Latitude 39° 5'. Longitude 94° 37'.

Barometric Pressure.

(Station elevation 963 feet.)

Mean for the year, 29.00 inches.

Highest, 29.85 inches, February 15.

Lowest, 28.05 inches, March 11.

Temperature.

Mean of the year, 55.4°, 2.2° above normal.

Maximum, 99°, August 7.

Minimum, 0°, March 18.

Number of days with 90° or higher, 30.

Number of days with 32° or lower, 84; zero or lower, 3.

Precipitation.

Total precipitation (all kinds), 37.28 inches, 0.09 inch below normal.

Greatest monthly, 9.61 inches in September.

Greatest in 24 consecutive hours, 2.83 inches, August 31 and September 1

Greatest in one hour, 2.27 inches, September 1.

Number of days with .01 inch or more, 113; with hail, 4; with thunderstorms, 62.

Total depth of snowfall, 13.6 inches.

The greatest depth of accumulated snow on the ground was 9.1 inches November 29.

Wind.

Maximum velocity for five minutes, 52 miles from northeast, June 15.

Average hourly velocity, 10.4 miles.

The prevailing wind was from the northwest.

Sky.

Number of clear days, 147; fair, 121; cloudy, 97.

Dense fog occurred on 9 days.

Frost.

Last killing frost of spring, April 5.

Last frost of spring May 13.

First light frost of autumn, October 19; first heavy, and first killing frost, October 21.