

Meteorological Records.  
A fifty year summary 1885-1938

MASSACHUSETTS  
AGRICULTURAL EXPERIMENT STATION

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Meteorological Records  
A Fifty-Year Summary  
1889-1938

By C. I. GUNNESS

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OBSERVATORY

Latitude 42° 23' 48.5" N.      Longitude 72° 31' 10" W.

Height of barometer above ground, 36 ft.; above sea level, 262.3 ft.

Height of wind instruments, 67 ft. Time used, 75th Mer.

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MASSACHUSETTS STATE COLLEGE  
ASHHERST, MASS.

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# METEOROLOGICAL RECORDS

## A FIFTY-YEAR SUMMARY, 1889-1938

By C. I. GUNNESS, Professor of Engineering,

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### Location and Equipment

The meteorology observatory is located on the third floor of Stockbridge Hall. It was moved to this location from South College on June 12, 1928, where it had been located since 1889. The records up to June 12, 1928, therefore, were taken at the old location; since June 12, 1928, they have been taken at the new location.

In the old location the observatory was in the tower of South College, about 50 feet above the ground. The base of the tower is 237 feet above sea level and the top of the tower is 72 feet above the ground. The exposure is good in all directions. The anemometer, wind vane, and sunshine recorder were mounted from 3 to 5 feet above the tower, with the recording apparatus in the room below. The thermometer shelter and rain gauges were on the campus about 300 feet southwest from the tower and on slightly lower ground. The rain gauges were about 2 feet above ground and 222 feet above sea level.

In the present location the anemometer, wind vane, and sunshine recorder are located from 4 to 7 feet above the roof of Stockbridge Hall. The roof is 60 feet above the ground with good exposure. The thermometer shelter and rain gauges are about 300 feet west from Stockbridge Hall.

The same equipment is used in the new location as was used in the old, except as noted below. The standard barometer is of United States Weather Bureau pattern. A Draper mercury-column type recording barometer and a Friez electrical sunshine recorder are used. A four-cup anemometer was used until January 1, 1930, when a three-cup anemometer was installed. The records of sunshine, wind velocity, and rainfall are recorded on a triple register. A United States Weather Bureau gauge is used in determining precipitation; and a tipping-bucket electrical-recording gauge, in determining the time and rate. The latter gauge is now located on the roof of the Engineering building, and serves to measure melted snow as well as rain. The wind direction is recorded on a Draper anemoscope. A Friez hygro-thermograph was installed in April 1929, in place of the Draper recording thermometer used until that time.

On January 1, 1904, the time of making observations was changed from 7 a.m., 2 p.m. and 9 p.m. to 8 a.m. and 8 p.m., so as to conform with the practice of the United States Weather Bureau. This change should be noted in comparing the dew point and relative humidity before and after that date. Other data are probably not affected by the change.



# METEOROLOGICAL RECORDS

## RANGE OF BAROMETER (IN INCHES)

YEAR	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1898	1.02	1.01	1.05	1.10	.75	.97	.98	.88	.88	.94	1.21	1.73	1.01
1899	1.00	1.05	1.08	1.08	.81	.85	.83	1.10	.80	1.00	1.00	1.20	1.76
1900	1.03	1.05	1.21	1.42	.79	.83	.74	.81	.73	1.11	1.05	1.23	2.05
1901	1.05	1.05	1.16	1.02	.86	.84	.97	.85	.86	.88	1.00	1.01	1.63
1902	1.03	1.03	1.07	1.25	1.16	.87	.88	.83	.81	1.07	1.16	1.20	1.88
1903	1.00	1.05	1.04	.88	.93	.75	.87	.44	1.11	1.19	1.20	1.20	2.01
1904	1.05	1.05	1.04	.80	.84	.86	.87	.81	.85	1.00	1.07	1.78	2.27
1905	1.07	1.07	1.02	.96	.75	.83	.79	.80	.85	1.10	1.23	1.17	2.22
1906	1.07	1.10	1.14	1.10	.76	.83	.73	.81	.73	1.12	1.05	1.12	1.76
1907	1.03	1.03	1.17	.86	.78	.85	.81	.80	.82	1.19	1.26	1.19	1.78
1908	1.00	1.01	1.04	.80	.80	.80	.81	.85	.85	.76	1.10	1.05	1.62
1909	1.05	1.00	1.02	.90	.87	.83	.83	1.03	1.07	1.71	1.55	1.40	1.93
1910	1.05	.97	1.17	1.19	.77	.81	.80	1.01	1.22	1.14	1.13	1.08	1.68
1911	1.09	1.41	1.55	1.04	.84	1.27	.85	.87	.78	1.25	1.12	1.04	1.80
1912	1.06	1.05	1.19	1.15	.85	.87	.87	.77	1.08	1.02	1.06	1.06	1.77
1913	1.05	1.05	1.00	.75	.75	.81	.73	.73	1.20	1.20	1.04	1.05	2.00
1914	1.07	1.05	.80	1.15	.85	.83	.85	.72	.85	1.16	1.22	1.01	1.64
1915	1.03	1.05	1.04	1.05	1.08	.77	.80	.73	1.03	1.11	1.06	1.05	1.70
1916	1.04	1.07	1.20	1.42	.87	.71	.71	.71	.91	1.04	1.06	1.06	1.79
1917	1.03	1.00	1.23	1.25	1.11	.85	.86	.88	.73	1.17	1.14	1.01	1.97
1918	1.04	1.03	1.02	1.14	.80	.88	.88	.97	.80	.97	1.04	1.04	1.91
1919	1.06	1.00	1.11	.80	1.02	.83	.87	.82	.87	1.06	1.02	1.04	1.76
1920	1.00	1.00	1.17	1.14	.97	.80	.74	.76	.85	1.04	1.24	1.02	1.77
1921	1.00	1.05	1.43	1.32	.85	.84	.80	.77	.75	.87	1.17	1.06	1.86
1922	2.18	.88	1.02	1.08	.87	.80	.85	.73	.85	1.20	1.06	1.04	2.05
1923	1.05	1.00	2.10	1.06	1.01	.85	.85	.85	.84	1.00	1.00	1.00	2.21
1924	1.05	1.21	.85	.90	.83	.84	.74	.80	1.03	.83	1.20	1.07	1.73
1925	1.17	1.04	1.25	.94	1.10	.87	.84	.76	.87	1.03	1.03	1.01	1.68
1926	1.08	1.00	1.00	1.09	.80	.80	.86	.70	1.06	1.11	1.08	1.05	1.65
1927	1.70	1.03	1.01	.86	.90	.83	.83	.76	.73	1.01	1.05	1.19	1.86
1928	1.05	1.10	1.72	.72	.70	.73	.73	.84	.83	1.08	1.16	1.06	1.72
1929	1.04	1.04	1.02	.94	.73	.73	.73	.78	1.02	1.13	1.27	1.05	2.02
1930	1.00	1.00	1.01	1.05	.72	.73	.86	.74	.79	1.15	1.02	1.03	1.87
1931	1.05	1.25	1.21	1.05	.85	.81	.86	.70	.79	.80	1.00	1.02	1.79
1932	1.01	1.10	1.03	1.37	.85	.87	.73	.73	.71	.84	1.20	1.01	1.66
1933	1.04	1.12	.88	.88	.88	.78	.72	.73	1.10	.80	1.20	1.01	1.66
1934	1.07	1.22	1.22	1.00	.86	.80	.74	.82	.70	.85	1.00	1.11	1.68
1935	1.22	1.20	1.41	1.00	.88	.88	.70	.83	.85	.83	1.07	1.21	1.12
1936	1.00	1.08	1.09	1.00	.84	.80	.87	.86	.86	1.04	1.71	1.04	1.64
1937	1.71	1.00	1.20	1.00	.88	.85	.87	.86	.70	1.00	1.00	1.01	1.65
1938	1.01	.80	1.41	1.00	1.21	.87	.84	.84	.87	1.05	1.20	1.20	1.75
1939	1.00	.86	1.43	1.23	.77	.80	.85	1.00	.80	1.03	1.71	1.00	1.91
1940	1.03	.86	1.18	1.21	.86	.76	.70	1.00	.91	1.10	1.07	1.00	1.73
1941	1.04	1.06	1.09	1.22	.70	.84	.81	.80	1.00	1.00	1.00	1.00	2.23
1942	1.23	1.04	1.20	1.14	.73	.85	.76	.83	.80	1.11	1.20	1.00	1.80
1943	1.05	1.07	1.21	1.20	1.04	.82	.80	.79	.79	1.02	1.20	1.04	1.70
1944	1.00	1.20	1.23	.85	.86	.74	.73	.71	.86	1.02	1.04	1.04	1.65
1945	1.27	1.07	1.05	1.11	1.11	.86	.74	.87	.87	1.04	1.01	1.01	1.60
1946	1.20	1.14	1.08	1.04	.70	.84	.81	.87	1.02	1.01	1.23	1.02	1.60
1947	1.19	1.03	1.00	1.00	1.23	.76	.87	.87	1.00	.96	1.08	1.07	2.07
Mean	1.01	1.00	1.04	1.11	.80	.75	.80	.71	.80	1.11	1.00	1.00	1.00

MAXIMUM BAROMETER

YEAR	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1888	30.83	30.97	30.98	30.84	30.69	30.84	30.85	30.65	30.69	30.52	30.67	30.98	30.97
1889	30.84	30.72	30.56	30.57	30.52	30.78	30.77	30.28	30.42	30.41	30.53	30.81	30.94
1890	30.67	30.66	30.57	30.55	30.44	30.72	30.57	30.27	30.45	30.67	30.74	30.85	30.74
1891	30.67	30.72	30.63	30.63	30.39	30.50	30.74	30.74	30.42	30.43	30.44	30.53	30.72
1892	30.61	30.63	30.63	30.63	30.33	30.36	30.55	30.30	30.65	30.65	30.70	30.92	30.92
1893	30.77	30.89	30.87	30.52	30.59	30.33	30.21	30.24	30.63	30.42	30.73	30.83	30.88
1894	30.81	30.64	30.52	30.79	30.55	30.33	30.33	30.29	30.41	30.67	30.73	30.83	30.83
1895	30.51	30.44	30.32	30.59	30.48	30.42	30.49	30.29	30.69	30.62	30.89	30.94	30.94
1896	30.77	30.70	30.88	30.61	30.39	30.78	30.33	30.18	30.40	30.67	30.69	30.91	30.88
1897	30.81	30.64	30.76	30.84	30.33	30.35	30.64	30.26	30.41	30.46	30.63	30.82	30.76
1898	30.92	30.53	30.49	30.36	30.39	30.23	30.24	30.31	30.47	30.50	30.54	30.98	30.92
1899	30.67	30.75	30.56	30.48	30.38	30.19	30.16	30.25	30.35	30.52	30.64	30.51	30.78
1900	30.66	30.34	30.43	30.52	30.20	30.24	30.29	30.28	30.51	30.68	30.57	30.58	30.69
1901	30.66	30.27	30.54	30.29	30.43	30.46	30.29	30.28	30.38	30.52	30.48	30.75	30.78
1902	30.63	30.68	30.63	30.66	30.66	30.39	30.17	30.42	30.42	30.60	30.70	30.60	30.70
1903	30.87	30.47	30.68	30.59	30.37	30.35	30.98	30.42	30.62	30.57	30.57	30.54	30.96
1904	30.70	30.62	30.69	30.37	30.38	30.19	30.15	30.27	30.41	30.58	30.63	30.81	30.86
1905	30.78	30.55	30.52	30.63	30.49	30.35	30.66	30.28	30.59	30.63	30.42	30.77	30.95
1906	30.73	30.78	30.56	30.61	30.34	30.22	30.18	30.35	30.39	30.69	30.56	30.48	30.78
1907	30.89	30.83	30.89	30.82	30.31	30.40	30.98	30.34	30.65	30.59	30.65	30.81	30.83
1908	30.73	30.52	30.38	30.49	30.39	30.38	30.27	30.29	30.52	30.52	30.74	30.58	30.78
1909	30.87	30.34	30.59	30.40	30.24	30.18	30.37	30.34	30.47	30.40	30.78	30.87	30.87
1910	30.68	30.64	30.72	30.72	30.40	30.24	30.26	30.30	30.41	30.59	30.48	30.57	30.72
1911	30.56	30.47	30.77	30.62	30.31	30.31	30.35	30.29	30.37	30.46	30.50	30.61	30.70
1912	30.73	30.44	30.68	30.46	30.39	30.43	30.19	30.41	30.58	30.52	30.72	30.47	30.88
1913	30.83	30.68	30.57	30.43	30.59	30.39	30.21	30.28	30.53	30.60	30.78	30.60	30.78
1914	30.56	30.58	30.37	30.51	30.38	30.23	30.22	30.28	30.37	30.41	30.48	30.52	30.58
1915	30.64	30.60	30.44	30.27	30.32	30.13	30.35	30.27	30.53	30.53	30.53	30.47	30.64
1916	30.78	30.43	30.53	30.33	30.27	30.33	30.22	30.29	30.64	30.49	30.54	30.89	30.86
1917	30.54	30.70	30.66	30.53	30.50	30.24	30.22	30.48	30.42	30.57	30.60	30.70	30.70
1918	30.68	30.43	30.92	30.37	30.44	30.51	30.37	30.28	30.39	30.61	30.53	30.67	30.92
1919	30.69	31.05	30.53	30.14	30.43	30.22	30.24	30.40	30.37	30.39	30.62	30.60	31.06
1920	30.69	30.52	30.63	30.56	30.42	30.27	30.21	30.35	30.33	30.48	30.52	30.79	30.90
1921	30.70	30.94	30.63	30.43	30.48	30.21	30.23	30.33	30.46	30.49	30.39	30.69	30.70
1922	30.64	30.86	30.78	30.61	30.29	30.19	30.40	30.30	30.65	30.42	30.63	30.81	30.84
1923	30.77	30.78	30.51	30.41	30.34	30.34	30.23	30.28	30.65	30.60	30.58	30.59	30.77
1924	30.79	30.44	30.64	30.53	30.34	30.32	30.16	30.42	30.59	30.53	30.67	30.47	30.76
1925	30.83	30.60	30.69	30.34	30.36	30.29	30.23	30.40	30.41	30.47	30.55	30.62	30.62
1926	31.00	30.45	30.69	30.46	30.47	30.30	30.30	30.26	30.44	30.27	30.73	30.76	31.00
1927	30.61	30.73	30.68	30.47	30.38	30.13	30.24	30.34	30.38	30.55	30.53	30.53	30.73
1928	30.74	30.48	30.49	30.38	30.34	30.18	30.41	30.39	30.61	30.68	30.51	30.72	30.74
1929	30.77	30.80	30.63	30.39	30.34	30.23	30.18	30.26	30.33	30.40	30.78	30.64	30.78
1930	30.68	30.51	30.60	30.51	30.31	30.27	30.18	30.27	30.48	30.43	30.66	30.63	30.69
1931	30.61	30.54	30.32	30.61	30.43	30.29	30.08	30.31	30.49	30.53	30.87	30.68	30.87
1932	30.69	30.65	30.37	30.49	30.24	30.17	30.21	30.35	30.31	30.65	30.47	30.87	30.87
1933	30.69	30.63	30.61	30.43	30.57	30.39	30.40	30.36	30.63	30.53	30.75	30.56	30.83
1934	30.61	30.78	30.78	30.28	30.37	30.34	30.34	30.31	30.27	30.61	30.49	30.68	30.81
1935	30.54	30.47	30.63	30.51	30.45	30.27	30.23	30.33	30.49	30.61	30.77	30.77	30.77
1936	30.85	30.39	30.65	30.52	30.36	30.27	30.19	30.37	30.55	30.47	30.58	30.58	30.85
1937	30.60	30.86	30.41	30.30	30.43	30.41	30.17	30.19	30.40	30.69	30.64	30.67	30.88
Mean	30.70	30.63	30.57	30.48	30.39	30.30	30.27	30.27	30.45	30.53	30.60	30.68	30.61
Maximum	31.00	31.06	30.98	30.71	30.67	30.54	30.50	30.50	30.65	30.68	30.87	30.94	31.06

# METEOROLOGICAL RECORDS

## MINIMUM BAROMETER

YEAR	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1900	29.30	29.46	29.04	29.34	29.63	29.87	29.87	29.79	29.43	29.56	29.38	29.31	29.58
1901	29.44	29.37	29.44	29.49	29.51	29.73	29.64	29.14	29.71	29.57	29.37	29.31	29.54
1902	29.09	29.31	29.34	29.14	29.65	29.65	29.61	29.64	29.77	29.54	29.19	29.43	29.69
1903	29.29	29.07	29.18	29.47	29.51	29.51	29.51	29.60	29.64	29.65	29.44	29.41	29.67
1904	29.04	29.00	29.26	29.63	29.16	29.69	29.87	29.37	29.64	29.39	29.64	29.54	29.60
1905	29.34	29.34	29.53	29.49	29.87	29.54	29.74	29.67	29.83	29.31	29.51	29.34	29.68
1906	29.17	29.56	29.33	29.39	29.71	29.65	29.76	29.76	29.72	29.54	29.36	29.54	29.66
1907	29.50	29.73	29.10	29.64	29.73	29.36	29.70	29.81	29.53	29.17	29.61	29.37	29.73
1908	29.30	29.55	29.14	29.51	29.69	29.61	29.61	29.57	29.67	29.51	29.17	29.14	29.72
1909	29.18	29.01	29.49	29.48	29.87	29.61	29.63	29.66	29.59	29.27	29.28	29.14	29.61
1910	29.22	29.13	29.65	29.49	29.69	29.64	29.63	29.73	29.54	29.74	29.44	29.19	29.59
1911	29.04	29.45	29.06	29.47	29.38	29.51	29.47	29.77	29.37	29.47	29.21	29.34	29.61
1912	29.01	29.17	29.26	29.33	29.43	29.63	29.70	29.74	29.51	29.64	29.11	29.47	29.61
1913	29.17	29.45	29.65	29.34	29.49	29.34	29.61	29.50	29.69	29.77	29.34	29.44	29.66
1914	29.13	29.63	29.44	29.31	29.66	29.47	29.63	29.66	29.69	29.43	29.39	29.41	29.66
1915	29.40	29.31	29.31	29.51	29.63	29.54	29.53	29.69	29.47	29.26	29.73	29.11	29.78
1916	29.33	29.24	29.71	29.37	29.53	29.34	29.17	29.51	29.75	29.47	29.11	29.43	29.63
1917	29.25	29.67	29.28	29.63	29.41	29.54	29.54	29.66	29.47	29.37	29.17	29.47	29.63
1918	29.41	29.51	29.39	29.38	29.69	29.81	29.42	29.64	29.64	29.36	29.13	29.15	29.69
1919	29.44	29.04	29.37	29.27	29.29	29.73	29.69	29.66	29.73	29.42	29.41	29.34	29.66
1920	29.11	29.69	29.44	29.44	29.47	29.84	29.38	29.47	29.77	29.51	29.39	29.34	29.64
1921	29.11	29.69	29.44	29.44	29.47	29.84	29.38	29.47	29.77	29.51	29.39	29.34	29.64
1922	29.16	29.55	29.65	29.67	29.43	29.55	29.57	29.54	29.54	29.54	29.11	29.17	29.62
1923	29.00	29.77	29.31	29.43	29.67	29.45	29.67	29.52	29.67	29.50	29.11	29.17	29.67
1924	29.65	29.66	29.36	29.64	29.65	29.63	29.64	29.69	29.75	29.14	29.07	29.14	29.66
1925	29.04	29.14	29.47	29.37	29.69	29.64	29.64	29.71	29.69	29.67	29.64	29.17	29.67
1926	29.37	29.77	29.57	29.57	29.65	29.64	29.64	29.69	29.34	29.54	29.19	29.45	29.66
1927	29.47	29.76	29.34	29.34	29.22	29.61	29.51	29.51	29.64	29.51	29.07	29.67	29.68
1928	29.36	29.41	29.44	29.24	29.47	29.75	29.69	29.59	29.69	29.79	29.64	29.64	29.68
1929	29.54	29.68	29.43	29.50	29.81	29.41	29.69	29.77	29.69	29.44	29.63	29.61	29.64
1930	29.33	29.37	29.39	29.65	29.74	29.78	29.59	29.64	29.54	29.55	29.37	29.41	29.69
1931	29.41	29.21	29.03	29.20	29.77	29.54	29.57	29.67	29.55	29.77	29.34	29.34	29.68
1932	29.47	29.43	29.64	29.51	29.79	29.57	29.45	29.61	29.64	29.51	29.57	29.34	29.68
1933	29.92	29.55	29.37	29.34	29.43	29.67	29.67	29.63	29.67	29.54	29.44	29.47	29.69
1934	29.43	29.44	29.14	29.34	29.44	29.37	29.67	29.64	29.74	29.54	29.34	29.34	29.69
1935	29.23	29.67	29.27	29.43	29.34	29.54	29.61	29.65	29.64	29.79	29.39	29.19	29.69
1936	29.19	29.27	29.47	29.57	29.45	29.54	29.44	29.77	29.64	29.19	29.64	29.34	29.69
1937	29.31	29.31	29.19	29.15	29.34	29.54	29.54	29.71	29.79	29.67	29.34	29.34	29.69
1938	29.30	29.30	29.67	29.31	29.51	29.61	29.73	29.79	29.69	29.13	29.07	29.17	29.69
1939	29.30	29.34	29.30	29.34	29.34	29.64	29.67	29.66	29.66	29.54	29.17	29.17	29.69
1940	29.13	29.67	29.01	29.39	29.33	29.69	29.57	29.64	29.74	29.23	29.13	29.47	29.69
1941	29.74	29.47	29.01	29.07	29.57	29.43	29.51	29.47	29.64	29.64	29.07	29.34	29.67
1942	29.04	29.43	29.23	29.37	29.55	29.51	29.43	29.37	29.57	29.34	29.47	29.15	29.64
1943	29.37	29.64	29.44	29.17	29.74	29.45	29.27	29.71	29.61	29.41	29.37	29.34	29.64
1944	29.34	29.31	29.39	29.35	29.61	29.65	29.57	29.53	29.43	29.64	29.11	29.64	29.69
1945	29.04	29.11	29.67	29.31	29.64	29.57	29.71	29.71	29.76	29.51	29.67	29.64	29.64
1946	29.41	29.51	29.44	29.51	29.44	29.61	29.57	29.57	29.69	29.34	29.64	29.64	29.64
1947	29.17	29.67	29.34	29.51	29.43	29.47	29.68	29.10	29.17	29.34	29.34	29.34	29.69
1948	29.53	29.14	29.44	29.17	29.64	29.57	29.57	29.57	29.57	29.34	29.34	29.17	29.69
1949	29.21	29.25	29.35	29.54	29.64	29.64	29.70	29.67	29.61	29.54	29.27	29.34	29.61
Mean	29.50	29.34	29.34	29.34	29.61	29.64	29.59	29.61	29.67	29.47	29.39	29.27	29.66
Minimum	29.04	29.04	29.07	29.09	29.10	29.34	29.27	29.07	29.41	29.09	29.73	29.04	29.41



MEAN TEMPERATURE (IN DEGREES F.)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1890	32.9	22.2	27.9	51.1	61.2	67.8	68.5	65.9	62.1	46.4	41.4	34.5	49.5
1891	31.0	22.2	27.9	47.8	55.2	63.2	68.2	67.2	64.9	43.2	36.9	21.8	45.8
1892	27.4	21.1	21.4	45.2	54.6	62.3	68.2	68.9	64.9	43.7	34.1	30.9	43.2
1893	21.6	25.2	21.4	45.2	54.6	62.3	68.2	68.9	64.9	43.7	34.1	26.3	45.7
1894	16.1	21.1	20.6	43.0	53.8	62.9	68.1	65.5	62.6	52.6	34.2	25.5	43.2
1895	26.4	21.8	20.6	46.7	57.2	62.7	67.9	65.4	61.6	31.6	34.8	26.9	48.2
1896	21.2	19.5	21.1	45.6	56.7	62.1	67.2	64.1	61.6	45.6	41.6	31.4	47.0
1897	20.7	21.5	22.2	45.2	56.0	62.0	67.3	65.4	61.5	47.1	42.2	25.6	47.0
1898	26.7	21.1	21.1	47.0	56.7	62.0	67.3	65.4	61.5	47.1	42.2	25.6	46.8
1899	21.2	21.0	20.7	42.6	53.2	62.1	67.9	65.3	62.6	51.1	37.5	25.5	47.5
1900	22.9	21.2	21.6	45.8	57.6	62.8	68.8	67.9	64.4	51.9	37.2	31.0	47.2
1901	24.6	24.6	24.6	45.8	57.6	62.8	68.8	67.9	64.4	51.9	37.2	31.0	47.2
1902	21.6	19.2	21.4	46.4	55.8	62.7	68.3	66.4	62.7	30.7	23.6	26.7	46.8
1903	22.2	22.2	21.2	47.2	56.6	62.1	68.3	66.2	61.9	30.2	23.7	27.7	47.2
1904	24.2	27.2	42.9	47.1	56.2	62.2	68.2	62.4	61.9	51.4	25.1	22.1	47.0
1905	14.2	17.2	20.8	43.2	52.2	62.2	70.4	65.9	60.2	45.0	34.0	19.4	44.0
1906	21.6	17.6	22.8	45.1	54.2	62.2	71.8	65.2	62.8	50.0	36.2	20.1	46.1
1907	21.2	24.1	20.0	45.9	55.0	62.1	71.8	65.2	62.8	51.4	34.7	24.1	47.6
1908	22.1	16.1	22.2	41.7	51.7	62.2	70.4	65.1	62.0	45.7	34.6	31.2	45.4
1909	22.8	20.6	24.8	43.9	52.9	62.2	72.8	67.0	64.0	52.2	24.5	27.6	48.0
1910	25.4	26.2	22.2	45.1	55.7	62.1	68.9	65.8	60.7	48.7	42.0	25.5	47.2
1911	26.2	22.6	21.7	46.4	57.0	62.7	72.2	67.1	61.7	52.2	37.1	21.9	47.8
1912	27.2	22.8	21.7	45.2	52.8	62.4	74.6	68.4	61.4	40.0	37.2	23.5	48.0
1913	14.7	21.4	21.9	45.2	54.8	62.9	71.9	66.4	61.6	52.2	40.5	23.1	46.9
1914	24.2	22.7	24.2	45.0	55.2	62.0	71.6	66.9	60.0	52.2	41.5	22.0	46.6
1915	22.4	17.9	22.7	42.6	54.9	62.6	68.6	66.7	61.0	54.2	37.6	24.7	46.2
1916	21.1	22.9	22.8	41.1	51.1	62.5	68.9	67.0	66.0	52.4	40.8	27.0	45.4
1917	21.7	21.1	22.8	44.6	56.2	61.2	72.2	70.2	61.2	51.7	34.1	26.5	46.4
1918	22.5	19.9	22.4	42.1	52.8	62.2	72.2	72.2	61.2	54.4	47.4	34.6	44.8
1919	12.9	19.6	22.6	42.2	52.2	62.0	71.1	71.6	54.0	52.1	40.0	29.2	46.9
1920	24.7	22.2	24.2	45.7	57.4	62.2	71.8	65.8	61.9	51.6	40.1	22.2	48.5
1921	15.2	21.2	24.2	42.2	54.2	62.2	67.7	71.8	64.1	36.4	26.9	31.0	46.2
1922	20.9	22.2	22.0	42.0	52.0	62.4	74.7	67.2	62.6	50.9	37.9	25.8	49.8
1923	20.1	22.6	22.2	43.8	52.0	62.4	70.8	65.2	64.0	51.7	39.5	25.1	47.6
1924	19.7	22.9	22.6	43.9	52.4	62.4	68.2	67.6	62.9	51.1	39.5	24.2	46.8
1925	22.6	22.7	24.4	44.2	52.2	62.2	71.4	65.2	59.2	51.2	40.5	25.6	46.7
1926	21.8	22.1	22.1	42.5	54.0	62.2	72.2	65.0	61.0	42.5	34.0	29.0	47.6
1927	22.5	22.2	22.4	41.2	51.5	61.8	72.2	65.2	61.8	47.8	39.8	29.1	45.2
1928	22.2	22.2	22.2	42.0	52.9	61.9	72.2	64.9	61.5	54.0	42.9	29.7	47.9
1929	22.2	22.2	22.2	42.2	52.2	62.2	72.2	62.0	62.0	51.8	40.0	22.4	47.8
1930	22.8	22.2	22.2	42.2	52.2	62.2	72.2	62.2	62.2	49.0	39.6	28.1	47.6
1931	22.0	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1932	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1933	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1934	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1935	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1936	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1937	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1938	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1939	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1940	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1941	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1942	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1943	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1944	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1945	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1946	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1947	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1948	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1949	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1950	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1951	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1952	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1953	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1954	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1955	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1956	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1957	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1958	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1959	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1960	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1961	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1962	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1963	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1964	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1965	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1966	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1967	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1968	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1969	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1970	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1971	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1972	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1973	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1974	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1975	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1976	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1977	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1978	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1979	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1980	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1981	22.2	22.2	22.2	42.1	52.1	62.1	72.1	62.1	62.1	42.9	40.2	29.1	46.6
1982	22.2	22.2	22.2										

# METEOROLOGICAL RECORDS

## RANGE OF TEMPERATURE (IN DEGREES F.)

YEAR	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1890	48.0	49.0	51.0	48.0	50.0	44.0	51.0	57.0	61.0	43.0	41.0	57.5	57.0
1900	57.0	54.5	56.0	57.5	64.5	47.5	54.0	47.0	52.0	52.0	51.0	54.5	54.5
1901	52.5	50.0	57.5	61.5	62.0	50.0	44.5	47.5	53.5	50.0	50.5	51.5	51.0
1902	56.5	53.5	54.5	54.5	56.0	54.0	52.0	44.0	50.0	54.5	51.0	57.0	54.0
1903	63.0	54.5	48.0	44.5	57.0	52.5	49.5	57.0	51.0	57.0	52.0	64.0	58.0
1904	52.0	58.0	56.0	63.0	56.0	55.5	50.0	54.0	56.0	43.0	53.0	45.0	51.0
1905	50.0	55.0	44.0	56.0	62.5	51.0	54.0	52.0	54.0	51.0	57.0	58.0	54.0
1906	51.0	57.0	52.0	47.5	62.5	51.0	41.0	55.0	57.5	49.0	54.0	42.0	51.0
1907	51.0	50.0	50.5	49.0	44.0	47.5	50.0	43.0	50.5	51.5	54.0	42.5	51.5
1908	65.5	73.0	45.5	54.0	46.0	50.0	56.5	46.5	56.5	56.5	58.0	50.0	55.5
1909	70.5	61.0	42.0	41.0	55.5	51.0	47.0	51.0	51.5	41.5	40.5	50.0	54.5
1910	56.0	64.0	46.0	50.0	47.5	54.0	51.0	53.0	53.5	41.0	45.0	57.5	54.0
1911	55.0	44.5	57.0	54.5	50.5	57.5	52.0	53.5	50.0	51.0	54.0	70.5	54.0
1912	47.5	40.0	44.5	57.5	61.0	49.0	45.0	44.0	51.5	51.5	47.5	64.0	54.0
1913	57.5	68.0	57.0	62.0	64.0	48.5	52.5	62.0	49.5	55.0	46.5	61.5	58.0
1914	56.0	56.0	54.0	50.5	44.0	51.5	44.0	49.5	54.5	50.5	49.0	47.0	50.5
1915	64.0	59.5	76.0	57.0	50.5	50.5	54.0	47.0	47.5	53.0	50.0	51.5	54.0
1916	56.5	57.5	50.5	53.5	54.5	50.5	47.5	43.0	50.5	53.5	41.5	48.5	54.5
1917	74.0	61.5	74.0	49.0	65.0	57.0	46.0	55.0	49.0	52.5	50.5	50.5	55.5
1918	54.5	68.0	62.0	66.0	55.0	55.5	50.5	51.5	55.0	47.5	49.5	63.5	58.0
1919	41.0	57.5	41.0	41.0	49.0	51.5	51.0	54.0	44.0	41.0	53.5	40.0	50.5
1910	45.0	40.5	45.5	56.0	51.0	51.0	44.5	44.5	44.0	43.0	44.0	44.0	44.0
1911	49.0	54.5	56.5	44.0	47.5	45.0	55.0	50.0	51.0	44.5	44.0	52.0	50.0
1912	44.0	46.0	50.5	54.0	55.5	55.0	57.5	50.0	51.0	56.5	44.5	42.0	51.5
1913	44.5	46.0	73.0	62.0	56.5	55.0	50.0	56.0	56.5	54.5	46.0	44.0	54.5
1914	56.0	64.0	49.5	41.5	44.0	51.5	44.0	47.5	72.0	42.5	47.0	77.0	54.0
1915	58.0	49.0	44.5	46.5	44.0	52.0	43.0	44.0	54.5	50.5	49.0	51.0	47.0
1916	42.5	43.5	49.0	45.5	45.5	44.0	47.0	50.5	51.0	54.5	51.5	54.5	51.5
1917	51.0	42.0	49.0	46.0	52.5	34.0	47.0	52.0	54.5	42.0	55.0	45.0	52.0
1918	64.0	73.5	49.5	55.5	50.5	53.0	54.5	56.0	44.5	51.0	47.0	43.0	52.5
1919	42.5	40.5	56.0	54.0	54.0	50.5	49.0	45.0	53.0	54.5	53.0	43.0	50.0
1920	57.5	43.0	71.5	52.5	51.0	43.0	42.5	45.5	51.0	52.0	46.0	54.0	50.0
1921	54.0	50.0	43.5	50.5	54.0	55.5	50.0	46.0	54.0	54.0	44.0	54.0	50.0
1922	53.0	45.0	45.0	57.0	54.5	47.0	45.0	44.5	54.5	48.0	51.5	40.5	47.5
1923	42.5	56.5	44.0	77.5	57.5	55.0	50.5	56.5	56.0	54.5	45.5	50.0	50.0
1924	42.0	47.0	50.0	49.0	41.0	47.5	44.5	55.0	54.0	59.0	70.5	59.0	54.0
1925	51.5	53.0	47.0	56.5	49.5	55.0	44.0	51.5	49.0	53.5	41.0	55.0	50.0
1926	44.0	50.0	57.5	57.5	50.0	51.5	51.0	44.5	49.0	57.0	54.0	51.0	50.0
1927	56.0	44.0	44.0	43.0	44.0	51.5	47.5	54.5	50.0	45.0	50.0	51.0	50.0
1928	54.0	54.0	40.0	62.0	46.5	43.5	44.0	40.0	54.0	48.5	54.0	47.5	44.5
1929	47.0	56.0	44.0	44.0	41.0	57.0	49.0	49.0	44.0	54.0	49.0	45.0	44.0
1930	49.0	71.0	42.0	50.0	57.0	55.0	49.0	50.0	51.0	42.0	49.0	44.0	44.0
1931	54.0	54.0	40.0	52.0	41.0	49.0	41.0	50.0	54.0	51.0	54.0	47.0	47.0
1932	54.0	43.0	44.0	51.0	49.0	51.0	43.0	45.0	41.0	54.0	54.0	75.0	50.0
1933	44.0	70.0	50.0	56.0	54.0	41.0	50.0	51.0	49.0	54.0	57.0	75.0	54.0
1934	44.0	59.0	50.0	44.0	54.0	54.0	44.0	51.0	41.0	44.0	55.0	42.0	51.0
1935	40.0	40.0	41.0	51.0	51.0	41.0	44.0	47.0	50.0	54.0	50.0	44.0	44.0
1936	40.0	54.0	40.0	54.0	50.0	50.0	54.0	44.0	44.0	49.0	40.0	44.0	44.0
1937	49.0	46.0	40.0	47.0	57.0	41.0	46.0	45.0	50.0	51.0	40.0	42.0	44.0
1938	70.0	45.0	70.0	70.0	43.0	49.0	41.0	44.0	51.0	55.0	70.0	52.0	54.0
Mean	54.7	54.0	57.4	57.4	54.9	51.3	47.7	46.1	54.5	54.0	54.0	56.3	57.7

HIGHEST TEMPERATURES (IN DEGREES F.)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1899	26.0	47.0	61.0	79.0	88.0	90.0	84.0	82.0	81.0	69.0	61.0	63.0	80.0
1900	31.5	37.5	52.5	79.5	80.0	84.0	94.0	88.5	80.5	78.0	62.5	43.5	84.0
1901	32.0	54.0	56.5	79.5	87.0	94.0	80.0	92.5	91.5	80.0	64.0	60.5	84.0
1902	37.0	45.5	50.5	78.5	84.0	95.0	94.0	94.0	90.0	77.5	67.0	46.0	85.0
1903	30.0	52.0	52.0	67.5	67.0	94.0	92.5	96.0	81.0	82.0	63.0	53.0	86.0
1904	22.0	49.0	72.0	79.0	85.0	92.0	98.0	91.0	91.0	75.0	65.0	61.0	86.0
1905	45.5	45.0	49.0	81.0	92.0	95.0	95.0	90.0	97.0	71.0	72.0	65.0	87.0
1906	41.0	52.0	57.0	88.5	94.5	93.0	91.0	97.0	88.5	72.0	60.0	52.5	87.0
1907	31.0	45.0	59.0	80.5	79.5	85.5	91.0	85.0	91.5	84.0	63.0	59.0	91.5
1908	30.0	54.0	50.0	71.0	78.5	89.5	88.5	91.0	93.0	85.5	62.0	48.0	95.5
1909	49.0	51.0	59.0	82.0	88.5	92.0	90.0	92.0	94.0	82.0	58.0	61.0	93.0
1910	51.5	56.0	49.0	81.0	91.5	94.0	95.5	96.0	89.0	83.0	67.0	58.0	96.0
1911	47.0	44.0	48.5	88.5	82.0	88.5	100.5	88.5	92.0	73.0	60.0	60.0	100.5
1912	47.0	54.0	65.0	83.0	91.0	89.0	80.0	87.0	86.5	74.0	65.0	49.0	91.0
1913	46.5	57.0	76.0	84.0	82.5	86.5	97.0	84.5	91.0	77.5	74.5	52.0	97.0
1914	40.0	48.0	65.0	70.5	85.0	92.5	94.5	89.5	84.5	77.5	56.5	43.5	94.5
1915	51.0	45.5	77.0	79.0	87.5	90.0	92.0	89.0	85.0	80.5	61.0	54.5	93.0
1916	40.0	52.5	72.0	74.5	87.0	87.5	88.5	80.5	91.0	77.5	62.0	45.5	91.0
1917	54.5	43.0	79.5	70.5	80.0	85.0	80.0	85.0	72.0	60.0	60.5	56.0	96.0
1918	55.0	55.0	67.0	84.0	88.5	91.5	96.0	88.5	88.0	80.5	58.0	65.5	96.0
1919	54.0	54.5	74.0	80.0	81.5	91.5	92.0	94.0	83.0	85.0	72.0	51.5	94.0
1920	56.0	53.5	59.0	80.0	84.0	88.0	97.0	85.5	82.0	84.0	61.0	47.0	97.0
1921	59.5	51.5	59.0	88.0	94.5	89.5	104.0	94.0	84.0	72.0	66.5	62.0	104.0
1922	45.0	49.5	61.5	78.0	80.0	91.0	98.5	89.0	85.0	82.0	67.0	65.0	98.5
1923	59.5	55.0	76.0	84.5	89.0	92.0	103.0	87.0	87.5	79.0	66.0	53.0	100.0
1924	57.0	46.5	69.0	82.5	91.0	80.5	89.0	85.0	86.5	84.5	71.5	58.5	96.5
1925	54.0	51.0	57.5	88.0	89.0	91.0	89.0	85.0	83.0	76.0	69.0	53.0	92.0
1926	57.5	47.5	68.0	72.5	81.5	84.0	92.5	85.5	89.5	84.0	64.0	54.5	95.5
1927	47.5	48.0	58.0	71.0	81.0	88.0	98.5	88.0	85.0	70.0	62.0	40.5	98.5
1928	46.0	51.0	69.0	79.5	88.5	93.0	99.5	103.0	84.0	78.5	62.5	52.0	100.0
1929	54.0	49.0	68.0	74.0	89.0	101.0	98.0	88.0	88.0	81.5	70.0	54.0	101.0
1930	41.0	43.0	70.5	74.5	83.5	88.0	87.5	92.0	80.0	81.5	62.0	56.0	92.0
1931	50.0	53.0	79.5	85.0	89.0	98.0	93.5	91.0	92.0	79.5	66.0	57.0	96.0
1932	41.0	49.5	72.0	81.5	87.5	90.0	94.0	80.5	88.5	88.5	66.0	54.0	94.0
1933	52.5	46.0	62.0	88.0	86.5	97.0	94.0	94.0	86.5	81.0	66.5	57.0	97.0
1934	54.0	44.5	59.0	71.0	74.0	87.0	85.5	97.0	89.5	78.5	75.0	58.0	97.0
1935	41.5	57.0	74.0	82.0	89.0	97.0	91.5	80.5	86.0	73.0	63.0	56.5	97.0
1936	48.0	43.0	67.0	74.5	81.0	88.5	100.0	91.5	87.0	81.0	69.0	43.0	100.0
1937	47.0	55.0	74.0	85.0	73.0	89.0	91.0	82.5	84.5	89.0	70.0	61.5	91.0
1938	54.5	52.5	68.0	82.5	80.5	88.0	92.0	92.0	84.0	88.0	73.0	56.0	92.0
1939	56.0	54.0	67.0	88.0	92.0	92.0	94.0	80.0	97.0	79.0	74.0	46.0	97.0
1940	56.0	63.0	56.0	73.0	82.0	92.0	84.0	93.0	89.0	82.0	65.0	43.0	95.0
1941	49.0	66.0	58.0	79.0	91.0	94.0	94.0	86.0	94.0	83.0	72.0	56.0	96.0
1942	56.0	66.0	55.0	73.0	91.0	89.0	89.0	91.0	92.0	79.0	67.0	64.0	92.0
1943	55.0	63.0	67.0	78.0	87.0	87.0	87.0	86.0	85.0	79.0	66.0	55.0	96.0
1944	43.0	57.0	61.0	72.0	86.0	92.0	92.0	89.0	82.0	72.0	67.0	64.0	92.0
1945	46.0	49.0	69.0	86.0	85.0	88.0	95.0	82.0	83.0	72.0	70.0	44.0	95.0
1946	50.0	46.0	72.0	79.0	91.0	81.0	80.0	83.0	88.0	77.0	71.0	53.0	98.0
1947	58.0	55.0	68.0	71.0	82.0	92.0	94.0	85.0	82.0	78.0	63.0	48.0	96.0
1948	58.0	49.0	79.0	88.0	77.0	91.0	88.0	93.0	87.0	85.0	75.0	56.0	93.0
Mean	51.1	49.4	62.8	79.4	86.1	91.5	92.9	81.6	87.7	79.4	66.0	54.3	96.7
Highest	66.0	66.0	79.5	88.5	94.5	101.0	104.0	102.0	97.0	90.5	75.0	65.5	104.0

METEOROLOGICAL RECORDS

LOWEST TEMPERATURE (IN DEGREES F.)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1898	8.0	-2.0	21.0	22.0	28.0	42.0	54.0	62.0	65.0	58.0	35.0	2.5	-0.0
1899	4.5	3.0	-4.5	27.0	31.5	40.5	40.0	41.5	38.5	28.0	11.5	-6.0	-4.5
1901	-0.4	-6.0	-1.0	18.0	23.0	34.0	41.5	43.0	38.0	21.0	3.5	9.0	-4.0
1902	-0.5	-7.0	6.0	20.5	28.0	41.0	43.0	39.0	31.0	21.0	14.0	-1.0	-0.5
1903	-12.0	-4.5	4.0	19.0	23.0	41.5	41.0	39.0	31.0	21.0	11.0	-12.0	-12.0
1904	1.0	-17.0	17.0	16.0	29.0	37.5	42.0	37.0	25.0	23.0	10.0	-4.0	-17.0
1905	-4.5	-10.0	8.0	21.0	26.5	44.0	48.0	39.0	31.0	21.0	15.0	-4.0	-10.0
1906	-12.0	-14.0	8.0	22.0	29.0	39.0	37.0	42.0	31.0	21.0	13.0	-0.5	-14.0
1907	0.0	-11.0	-1.5	20.5	31.5	38.0	45.0	42.0	32.0	21.5	8.0	-2.5	-11.0
1908	-15.5	-19.0	14.5	17.0	22.5	29.5	40.0	44.5	34.5	27.0	8.0	-12.0	-19.0
1909	-21.5	-10.0	20.0	21.0	23.0	42.0	42.0	41.0	29.5	20.5	17.5	9.0	-21.5
1910	-4.5	-8.0	3.0	21.0	24.0	40.0	44.5	42.0	35.5	27.0	17.0	0.5	-8.0
1911	-8.0	-4.5	-0.5	20.0	21.5	41.0	42.5	43.0	33.0	24.0	6.0	-10.5	-4.5
1912	-0.5	8.0	18.5	25.5	20.0	40.0	45.0	43.0	33.0	23.5	17.5	-14.0	-0.5
1913	-12.0	-11.0	19.0	22.0	24.5	39.0	44.5	42.5	29.5	22.5	6.0	-0.5	-12.0
1914	-24.0	-8.0	-2.0	20.0	27.0	44.0	48.5	40.0	28.0	18.0	7.5	-2.5	-24.0
1915	-12.0	-11.0	1.0	22.0	23.0	36.0	46.0	41.5	23.0	21.5	11.0	2.0	-12.0
1916	2.5	-3.0	-7.5	21.0	21.5	27.0	45.0	47.5	21.5	24.0	15.5	-0.5	-3.0
1917	-22.5	-18.5	8.5	20.5	25.0	38.0	44.0	41.0	28.0	20.5	19.5	20.0	-22.5
1918	-4.5	-12.0	8.0	18.0	22.5	38.0	46.0	37.0	22.0	28.0	15.5	2.0	-12.0
1919	-7.0	-3.0	12.0	19.0	22.5	40.0	42.0	38.0	28.0	24.0	12.5	-8.5	-7.0
1920	-9.0	-7.0	12.5	24.0	21.0	35.0	45.5	41.0	24.0	19.0	15.0	-2.0	-9.0
1921	1.5	-3.0	2.5	18.0	27.0	44.5	49.0	44.5	29.0	24.0	15.5	10.0	-3.0
1922	-19.0	-18.5	1.0	24.0	22.5	26.0	41.0	39.0	25.0	26.5	18.5	2.0	-19.0
1923	11.0	-4.5	1.0	22.5	20.5	27.0	41.0	41.0	21.0	24.5	22.0	8.0	-4.5
1924	-14.0	-17.5	2.5	22.0	27.0	39.0	48.0	47.5	24.5	22.0	4.5	-15.5	-14.0
1925	-4.0	3.0	12.0	21.5	24.0	27.0	42.0	42.0	24.5	25.5	20.0	2.0	-4.0
1926	-8.0	-16.0	0.0	26.0	26.0	40.0	44.5	45.5	28.5	25.5	12.5	0.0	-16.0
1927	-3.5	-16.0	-2.0	24.0	28.5	30.0	51.5	46.0	27.5	27.0	7.0	-27.5	-3.5
1928	-21.0	-22.5	5.5	24.0	28.0	40.0	45.0	44.0	24.5	27.5	15.5	-0.0	-22.5
1929	-8.5	8.5	12.0	18.0	22.0	41.5	49.0	42.0	28.0	27.0	17.0	-0.0	-8.5
1930	-16.5	-18.0	-1.0	22.0	20.5	45.0	45.0	44.5	27.0	29.5	16.0	4.0	-16.5
1931	-6.0	-4.0	16.0	25.5	22.0	40.5	54.5	43.0	24.0	21.5	22.0	-1.0	-6.0
1932	-12.0	-13.5	7.0	24.5	28.0	42.0	49.0	40.0	27.0	20.5	14.5	-6.5	-12.0
1933	-12.0	-10.5	-4.0	25.5	29.0	42.0	42.5	37.5	29.5	26.5	21.0	7.0	-12.0
1934	-8.0	-8.5	8.0	22.0	22.0	29.5	47.0	42.0	22.5	19.5	4.5	-1.0	-8.0
1935	-12.0	4.0	7.0	25.5	20.5	42.0	47.5	39.0	28.0	21.5	11.0	1.5	-12.0
1936	0.0	-7.0	-0.5	18.0	20.0	25.0	47.0	45.0	29.0	24.0	15.0	-10.0	0.0
1937	-12.0	7.0	8.0	27.0	21.0	27.5	42.5	44.0	24.5	24.0	20.0	8.5	-12.0
1938	-3.5	-8.5	8.0	20.5	21.0	41.5	47.0	32.0	21.0	19.5	14.5	8.5	-3.5
1939	-11.0	-1.0	2.0	22.0	21.0	28.0	48.0	41.0	22.0	22.0	7.0	1.0	-11.0
1940	-4.0	-6.0	14.0	23.0	25.0	27.0	45.0	42.0	15.0	21.0	8.0	1.0	-4.0
1941	-9.0	-11.0	18.0	27.0	29.0	43.0	53.0	45.0	28.0	29.0	14.0	9.0	-9.0
1942	10.0	2.0	9.0	24.0	21.0	28.0	46.0	46.0	27.0	21.0	8.0	-11.0	10.0
1943	9.0	-7.0	7.0	22.0	23.0	26.0	47.0	47.0	26.0	22.0	8.0	-22.0	9.0
1944	-4.0	-22.0	8.0	26.0	22.0	29.0	48.0	38.0	27.0	28.0	12.0	2.0	-22.0
1945	-21.0	-12.0	7.0	22.0	22.0	44.0	51.0	45.0	27.0	22.0	20.0	-1.0	-21.0
1946	-4.0	-12.0	2.0	28.0	22.0	40.0	44.0	40.0	22.0	17.0	8.0	7.0	-4.0
1947	9.0	6.0	12.0	24.0	25.0	40.0	50.0	30.0	28.0	21.0	14.0	4.0	9.0
1948	-12.0	4.0	0.0	18.0	24.0	42.0	47.0	30.0	28.0	20.0	-4.0	4.0	-12.0
Mean	-7.1	-7.4	6.1	22.9	21.2	40.9	46.4	42.4	28.2	26.4	12.9	-1.9	-7.1
Lowest	24.0	22.5	-7.5	2.5	24.0	24.0	49.0	37.0	24.5	17.0	-4.0	-22.5	24.0

MEAN RELATIVE HUMIDITY\*

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1898	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1899	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1900	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1901	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1902	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1903	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1904	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1905	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1906	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1907	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1908	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1909	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1910	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1911	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1912	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1913	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1914	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1915	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1916	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1917	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1918	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1919	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1920	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1921	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1922	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1923	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1924	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1925	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1926	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1927	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1928	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1929	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1930	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1931	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1932	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1933	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1934	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1935	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1936	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1937	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1938	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1939	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
1940	77.7	75.0	72.3	72.3	73.8	79.1	77.2	85.4	83.3	75.7	75.4	75.2	78.6
Mean	78.1	80.6	84.3	81.6	80.7	86.9	88.4	70.2	72.6	69.0	70.6	69.4	67.6

\*Mean relative humidity records are based on readings taken at 7 a.m., 3 p.m. and 9 p.m. from 1899 to 1913, and at 8 a.m. and 4 p.m. from 1914 to 1939. From 1929 to 1939 they are based on readings taken at 8 a.m., noon, and 8 p.m. The means are based on the last 10 years.

METEOROLOGICAL RECORDS

MEAN PERCENT OF CLOUDINESS

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1890	54												
1891	62	40	23	35	43	51	34	43	65	73	56	61	55
1892	61	56	25	39	50	57	34	47	50	50	30	47	52
1893	52	57	28	42	55	55	33	53	69	65	49	54	50
1894													
1895	53	53	35	38	52	54	36	44	64	53	46	54	50
1896	43	52	34	39	46	47	34	49	44	39	30	41	45
1897	46	51	34	45	46	47	34	47	49	39	30	41	46
1898	46	54	33	46	45	57	33	49	48	46	40	46	49
1899													
1900	53	56	26	42	54	54	34	57	47	47	31	43	54
1901	54	52	47	46	54	44	39	49	44	44	31	42	53
1902	54	43	73	73	70	69	63	67	51	44	23	35	57
1903	50	45	25	35	54	54	34	50	51	51	30	39	47
1904	51	52	36	36	56	71	52	52	42	35	41	46	52
1905	55	42	57	52	45	56	55	47	34	42	43	37	51
1906	58	31	46	43	56	51	54	56	48	38	42	34	49
1907	51	44	49	52	47	54	52	50	39	39	34	31	46
1908	54	41	44	52	54	50	42	38	54	37	46	46	46
1909	37	42	48	42	50	39	47	45	54	37	46	46	41
1909	51	49	40	44	55	44	33	33	58	49	35	44	50
1910	50	57	49	55	52	52	34	47	53	44	35	35	54
1911	52	45	49	42	55	54	42	41	54	50	30	35	53
1912	55	38	52	44	54	43	46	39	49	47	31	34	54
1913	53	42	52	55	54	35	36	41	41	40	34	35	52
1914													
1915	52	42	52	45	42	45	39	41	41	44	41	34	49
1916	51	51	37	45	52	41	49	43	35	44	44	35	43
1917	44	50	43	45	33	57	54	45	41	31	31	32	41
1918	44	45	30	42	46	48	44	39	39	53	34	34	44
1919	44	45	36	52	51	45	44	37	46	32	49	34	47
1919													
1920	42	38	51	49	49	42	45	44	44	37	33	36	46
1920	49	41	41	51	50	51	51	51	45	45	33	37	51
1921	42	52	52	52	36	43	43	40	40	42	45	43	47
1922	34	44	49	49	34	34	44	54	41	32	40	34	44
1923	54	43	40	38	39	38	42	37	40	44	44	34	44
1924													
1925	51	42	44	47	54	49	31	33	47	19	44	47	41
1926	52	45	44	44	44	43	31	37	47	32	47	47	49
1927	52	49	45	49	45	45	32	39	44	39	49	32	41
1928	54	49	32	34	34	33	39	40	42	34	34	37	44
1929													
1930	44	47	30	49	44	44	39	47	44	35	42	71	42
1930	50	37	55	45	49	44	34	41	45	45	44	47	47
1931	51	35	45	52	45	47	37	40	49	46	36	32	43
1932	74	44	47	47	49	52	40	40	47	47	30	39	47
1933	40	47	42	42	46	46	34	34	47	41	41	46	40
1934													
1934	41	43	35	39	53	52	54	42	39	44	43	44	46
1935	39	35	47	45	44	44	34	39	47	45	41	43	46
1936	44	44	36	42	44	44	31	31	41	41	44	44	44
1937	44	44	37	42	45	44	31	37	44	42	44	44	44
1938	43	44	44	44	44	44	44	44	44	44	44	44	44
Mean	44.3	40.9	41.5	41.5	42.1	41.1	40.9	40.7	40.9	40.9	40.1	44.9	41.7

HOURS OF BRIGHT SUNSHINE

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1890	134	163	138	191	370	377	183	194	130	129	84	108	2,010
1891	112	131	180	245	325	364	298	199	156	129	143	121	2,194
1892	129	134	194	260	328	348	222	304	224	150	141	143	2,343
1893	128	128	198	344	318	318	287	301	224	178	110	144	2,301
1894	120	111	173	198	188	308	240	225	184	183	123	112	2,073
1895	130	121	180	174	378	180	237	228	178	190	138	150	2,081
1896	135	137	173	188	243	344	192	251	234	197	111	109	2,363
1897	147	166	210	244	297	363	390	254	189	118	108	172	2,448
1898	144	144	188	239	238	348	314	374	221	309	90	108	2,325
1899	123	128	300	168	300	270	228	301	218	167	128	113	2,169
1900	121	147	134	380	221	225	276	378	370	140	120	142	2,345
1901	107	120	218	227	215	240	340	224	177	126	88	108	2,217
1902	117	172	93	108	189	234	348	180	118	178	100	107	1,990
1903	130	128	142	139	210	179	184	208	149	104	109	119	1,864
1904	114	148	128	198	311	102	247	198	228	184	182	129	2,126
1905	144	172	172	192	214	226	274	292	304	192	148	114	2,401
1906	119	178	214	247	308	347	262	242	186	300	156	128	2,477
1907	128	183	225	298	308	216	278	368	234	189	156	111	2,600
1908	130	310	243	348	310	217	297	217	110	177	125	122	2,217
1909	144	300	220	277	302	302	308	308	242	186	111	123	2,743
1910	127	187	222	220	302	370	280	241	192	194	146	148	2,510
1911	119	180	274	288	297	379	271	229	245	229	127	156	2,790
1912	145	132	128	248	120	280	297	227	198	134	74	108	2,421
1913	169	180	224	198	214	314	290	228	158	163	146	148	2,390
1914	179	264	182	311	221	312	224	262	126	91	113	121	2,422
1915	98	178	170	194	224	290	241	308	246	164	119	190	2,277
1916	144	118	290	222	272	398	191	132	181	162	118	108	2,224
1917	160	140	217	122	181	136	184	230	254	228	141	127	2,181
1918	131	180	222	294	317	240	283	287	240	142	170	156	2,684
1919	172	184	242	225	266	266	288	276	187	180	108	158	2,522
1920	166	216	222	249	302	226	222	226	179	148	122	120	2,622
1921	214	214	242	218	291	241	222	262	242	198	88	142	2,662
1922	167	177	217	215	294	316	292	317	221	208	97	112	2,663
1923	190	147	178	228	224	298	297	226	221	190	108	96	2,522
1924	78	128	192	230	228	390	248	268	224	222	123	108	2,772
1925	172	221	292	298	242	212	228	290	188	222	121	120	2,828
1926	124	141	191	240	242	297	298	280	182	128	127	121	2,261
1927	168	148	219	194	212	246	292	262	156	126	89	120	2,198
1928	122	110	188	208	127	201	298	197	222	214	86	100	1,984
1929	122	178	214	226	227	171	240	262	170	167	121	125	2,201
1930	129	126	127	147	241	222	219	122	178	188	119	92	2,010
1931	117	180	226	272	298	214	298	281	241	185	116	100	2,627
1932	122	124	189	220	291	222	180	162	248	202	89	112	2,155
1933	74	122	178	212	291	281	298	298	222	167	148	108	2,294
1934	121	120	189	186	220	289	274	217	128	179	92	92	2,208
1935	96	191	194	229	298	292	287	222	108	210	140	128	2,294
1936	147	124	178	191	224	179	207	214	179	262	71	142	2,228
1937	162	189	170	177	208	222	222	298	183	174	161	118	2,408
1938	112	128	222	208	241	189	219	216	219	191	122	146	2,228
1939	119	110	189	216	292	296	246	279	166	222	122	126	2,421
Mean	127	128	190	229	242	267	298	297	201	178	121	129	2,242
Mean percent	66.6	62.4	62.8	64.7	66.6	64.0	68.0	65.2	64.9	61.2	41.2	65.2	62.8
Extremes	214 74	221 110	290 92	298 108	324 127	362 102	371 129	317 122	254 108	222 91	182 66	172 92	2,828 1,864

# METEOROLOGICAL RECORDS

## PRECIPITATION (IN INCHES)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1900	2.30	1.45	1.46	2.42	4.71	8.01	10.25	2.72	2.17	4.26	6.04	2.57	62.04
1901	2.61	4.19	6.37	1.73	8.39	1.55	6.63	4.89	6.65	7.12	1.27	2.96	54.60
1902	6.72	4.23	2.99	2.66	1.97	4.72	6.39	4.18	2.89	2.94	2.99	5.61	56.85
1903	6.62	1.92	2.61	1.79	6.38	2.46	4.41	6.47	2.16	6.06	4.98	1.01	67.26
1904	2.32	2.72	2.66	4.41	5.02	2.22	2.89	2.69	2.22	4.26	2.81	4.26	66.94
1905	2.16	1.74	1.77	1.82	4.02	2.12	1.22	.31	4.62	4.22	2.16	2.52	39.64
1906	2.47	1.02	2.71	2.56	2.07	2.76	2.27	2.46	2.04	4.77	2.36	2.94	54.66
1906	1.07	4.67	6.11	1.22	2.56	2.37	4.98	2.84	4.41	2.22	2.02	2.77	39.86
1907	2.00	2.32	2.52	2.42	4.36	6.65	14.21	4.29	1.94	7.2	2.62	7.27	57.06
1908	7.12	2.81	1.62	2.72	4.61	2.69	4.09	6.65	2.62	6.27	2.46	2.22	64.26
1909	2.92	2.56	7.12	1.79	1.29	4.12	4.89	2.02	7.07	1.24	2.17	2.07	41.66
1910	4.09	6.12	4.76	1.62	2.72	2.62	4.47	4.11	2.67	2.72	2.47	2.62	51.66
1911	1.21	6.2	6.66	2.62	6.91	.87	2.89	6.12	2.46	2.06	2.06	7.27	69.72
1912	1.72	2.54	2.29	2.32	4.24	4.24	4.66	4.62	6.22	2.29	1.77	2.77	66.96
1913	2.26	4.27	6.62	2.22	.44	7.79	4.64	4.62	1.66	2.72	2.04	2.62	64.46
1914	4.74	2.42	4.46	2.72	4.26	2.22	2.42	4.06	4.42	1.74	1.26	2.72	42.26
1915	2.90	1.72	2.66	2.56	1.29	2.89	2.62	6.47	6.29	2.77	2.16	2.12	29.26
1916	2.16	2.72	4.92	2.22	4.62	2.62	2.42	6.42	2.69	2.69	1.96	4.66	42.46
1917	2.72	1.92	1.22	1.09	4.02	2.61	2.27	1.44	2.74	2.02	4.22	2.62	42.66
1918	2.22	2.52	2.86	1.97	4.22	.76	2.26	6.27	1.72	1.67	1.66	2.02	22.66
1919	2.66	2.16	2.01	2.52	2.26	2.24	2.24	2.79	4.66	1.29	1.96	2.66	39.12
1910	6.14	2.04	1.27	1.97	2.67	2.62	1.92	4.02	2.96	2.62	2.69	1.72	26.12
1911	2.26	2.16	2.92	1.77	1.27	2.02	4.21	2.92	2.41	2.41	2.41	4.42	42.22
1912	2.16	2.16	2.79	2.92	4.24	.77	2.41	2.22	2.22	2.07	4.12	4.04	26.16
1913	2.96	2.94	6.26	2.22	4.94	.81	1.69	2.26	2.66	2.16	2.11	2.26	29.26
1914	2.72	2.26	2.42	6.26	2.56	2.22	2.52	2.11	.27	2.79	2.92	2.69	41.66
1915	6.52	7.02	.12	2.69	1.22	2.02	9.12	6.26	1.27	2.69	2.22	2.62	51.26
1916	2.56	2.72	2.97	2.69	2.21	2.24	6.22	2.69	2.02	1.01	2.26	2.62	42.62
1917	2.64	1.96	4.06	1.22	4.12	2.27	2.26	7.09	2.42	2.62	2.62	2.26	42.26
1918	4.11	2.99	2.91	2.79	2.47	6.01	1.64	2.22	7.02	1.22	2.67	2.66	27.47
1919	2.02	2.89	4.22	2.27	6.29	1.06	4.17	4.61	4.44	2.21	6.29	1.66	41.66
1920	2.74	4.42	2.62	4.71	2.62	6.29	2.06	2.62	6.74	1.44	6.22	6.72	51.74
1921	2.09	2.26	2.27	6.47	4.26	2.67	6.02	2.22	1.66	1.06	2.29	1.96	42.22
1922	1.66	2.02	2.24	2.81	4.47	9.69	4.26	4.22	2.77	2.22	1.26	2.12	42.66
1923	6.02	1.81	1.96	2.19	2.26	2.24	1.77	2.26	1.66	2.62	2.06	4.22	29.66
1924	2.62	2.56	1.06	4.54	2.21	1.26	1.72	2.11	2.67	.61	2.67	2.16	29.66
1925	2.42	2.64	4.12	2.16	2.22	4.26	6.67	1.62	2.06	4.74	2.22	2.26	64.66
1926	2.22	2.01	2.62	2.62	1.19	2.02	2.24	2.67	1.22	2.02	2.26	2.76	62.62
1927	2.26	2.62	1.96	1.66	4.22	2.27	2.62	2.01	2.76	4.66	2.66	2.66	66.66
1928	2.16	2.91	1.17	1.66	2.22	6.97	6.22	2.66	2.07	.67	1.66	.67	62.66
1929	4.22	2.92	2.29	6.69	4.17	2.06	.79	1.54	2.69	2.76	2.76	4.66	69.66
1930	2.27	1.29	2.62	1.41	2.24	4.47	4.29	1.22	2.06	2.26	2.42	1.62	29.66
1931	2.24	1.92	2.79	2.62	2.44	2.42	2.67	2.67	2.29	2.06	1.22	1.62	42.66
1932	2.67	2.71	4.24	2.22	1.67	2.42	2.62	2.67	2.66	2.66	6.04	1.66	29.62
1933	2.44	2.26	4.79	2.02	1.69	2.69	2.24	6.62	12.26	2.62	1.19	2.01	29.62
1934	2.67	2.62	2.69	4.44	2.42	4.67	1.72	2.02	6.44	2.26	2.66	2.66	42.44
1935	4.66	2.22	1.44	2.24	2.17	2.22	2.02	2.22	4.67	.66	4.11	1.02	24.66
1936	6.47	2.64	7.04	4.07	1.76	2.29	1.42	4.62	6.69	6.69	6.02	6.02	66.26
1937	2.26	2.22	2.26	4.02	6.06	6.72	2.66	4.91	2.24	4.22	4.66	2.44	69.66
1938	6.69	1.77	2.62	2.07	2.61	6.62	7.44	2.64	14.22	2.66	2.62	2.62	29.66
Mean	2.61	2.19	2.79	2.22	2.69	2.74	4.49	6.69	4.26	2.29	2.41	2.26	42.79
Extremes	7.12	6.12	7.12	6.99	7.44	9.69	14.21	6.69	14.22	6.61	6.64	7.77	69.69
	1.07	.62	.12	.76	.44	.76	.76	.31	.62	.61	.66	.67	29.69



## SNOWFALL (IN INCHES)

YEAR	January	February	March	April	November	December	Annual
1899	6.80	7.75	4.80	.80	T	6.75	26.00
1900	4.80	8.00	17.00	T	1.80	18.75	43.75
1901	17.75	14.00	9.00	11.00	.25	T	54.00
1902	13.00	14.00	8.00	T	4.80	3.00	42.80
1903	14.25	48.75	3.25	7.00	T	14.75	89.00
1904	19.80	18.75	2.00	6.00	4.25	21.00	71.80
1905	21.75	14.80	12.00	0.80	3.00	8.00	60.75
1906	6.80	18.80	17.00	0.80	1.75	3.00	44.25
1907	21.00	12.00	8.00	T	4.25	9.80	52.75
1908	23.00	18.00	1.80	1.00	8.00	11.00	66.80
1909	2.00	21.00	27.00	1.00	.80	.80	52.00
1910	12.50	8.80	12.80	T	1.80	2.00	27.00
1911	12.00	9.00	6.80	T	.80	25.80	52.80
1912	11.00	9.25	9.75	T	1.80	24.80	57.00
1913	8.80	12.00	1.00	T	T	12.00	23.80
1914	28.80	16.00	11.00	2.00	2.00	11.00	69.80
1915	21.00	11.00	8.80	T	.80	2.80	40.80
1916	8.00	13.00	20.25	2.00	4.00	12.00	59.25
1917	16.50	18.50	2.00	8.00	1.00	7.80	54.80
1918	1.80	20.00	6.80	T	2.80	9.00	38.80
1919	8.00	8.00	2.80	T	2.80	12.00	21.00
1920	18.80	18.80	T	0	4.00	2.80	44.80
1921	1.75	11.00	10.80	6.80	1.00	4.80	35.25
1922	12.00	2.80	12.00	1.00	T	8.00	33.80
1923	6.00	11.00	8.00	T	2.80	6.00	26.80
1924	9.80	24.80	6.25	8.25	8.75	8.80	56.75
1925	11.50	8.80	.80	9.50	.80	11.80	40.00
1926	8.00	14.75	22.00	4.75	1.80	9.80	59.80
1927	15.00	11.00	17.00	T	.75	14.25	58.00
1928	18.80	11.00	8.80	6.80	T	7.25	60.75
1929	6.25	11.80	2.00	T	T	4.75	24.80
1930	22.25	21.00	9.75	1.80	8.80	7.00	78.00
1931	7.80	20.80	0	1.00	2.00	8.80	27.80
1932	14.75	12.80	9.25	2.75	T	18.80	58.75
1933	23.00	12.80	8.00	T	1.00	9.25	62.75
1934	16.00	12.75	2.25	8.00	9.00	3.00	48.00
1935	22.00	3.25	1.00	.75	.75	6.75	34.80
1936	8.80	22.75	9.00	3.25	.25	22.25	78.00
1937	11.75	12.00	2.80	2.00	T	8.25	31.80
1938	6.80	8.80	12.25	2.80	2.00	.25	30.00
1939	18.00	18.00	6.80	5.80	2.00	8.00	54.00
1940	9.80	8.80	T	T	.75	12.75	29.50
1941	24.75	9.80	7.25	2.00	1.00	3.25	44.00
1942	7.75	24.25	8.75	T	T	8.80	48.25
1943	9.00	19.00	6.00	6.00	7.75	18.00	62.75
1944	4.00	28.00	8.80	0	T	2.80	39.00
1945	28.80	9.25	4.00	1.00	2.00	2.00	47.75
1946	24.80	16.00	4.75	.80	2.75	2.00	47.80
1947	9.75	.80	6.75	.80	2.00	8.00	28.80
1948	18.80	6.00	1.25	.25	12.80	2.00	42.80
Mean	12.22	12.99	7.67	2.17	2.24	8.88	47.78
Extremes	23.00 1.80	48.75 .80	27.00 0	11.00 0	12.80 T	24.80 T	89.00 24.80

Source continued 1899-1903 21.75  
1906-1937 22.25

# METEOROLOGICAL RECORDS

## Wind Movement (in Miles)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Year
1900	2,101	4,823	7,008	2,648	4,066	4,066	4,072	2,811	4,310	4,783	2,208	4,444	38,798
1901	4,914	4,616	4,264	4,023	4,264	2,776	2,976	4,116	2,207	4,144	4,224	4,874	34,648
1902	4,944	4,789	4,261	4,441	4,619	2,713	2,937	2,222	2,201	4,219	4,212	4,444	34,213
1903	4,066	4,434	7,046	4,270	4,054	4,303	2,264	2,264	4,672	4,071	4,231	4,222	34,739
1904	4,066	4,242	4,742	4,264	4,442	2,572	2,664	4,124	2,208	4,194	4,174	4,214	38,433
1905	4,192	4,944	4,404	4,104	2,180	1,834	1,100	1,937	1,414	2,247	4,174	2,204	28,267
1906	2,264	4,264	4,264	4,064	4,071	2,024	2,034	2,267	2,444	2,124	4,154	2,264	28,267
1907	4,942	4,442	4,122	4,674	4,264	2,264	4,044	2,264	4,064	4,544	4,264	4,264	38,198
1908	2,201	4,402	4,264	4,222	4,042	4,264	4,007	2,442	2,264	2,264	4,154	4,264	34,220
1909	2,464	2,264	2,264	4,477	4,764	4,182	2,277	2,111	2,267	2,264	4,264	4,264	46,426
1900	4,264	4,477	4,274	2,264	4,219	2,814	2,201	2,222	2,267	2,262	2,261	4,142	47,110
1901	4,264	4,014	4,072	4,024	4,261	4,101	2,701	2,222	2,042	2,214	4,272	4,211	37,268
1902	4,224	4,444	4,442	4,211	4,222	2,647	2,764	2,144	2,264	4,222	4,264	4,264	37,268
1903	4,074	4,199	4,201	4,442	4,224	4,107	2,224	2,264	2,264	4,104	4,072	4,014	46,426
1904	4,264	4,224	4,189	4,124	2,264	2,124	2,267	2,104	2,264	4,704	4,262	4,264	46,268
1905	4,112	4,910	4,444	4,072	2,267	2,127	2,264	2,224	2,072	4,107	2,270	2,267	46,268
1906	4,124	4,264	2,124	4,222	4,024	2,104	2,464	2,024	2,267	2,267	4,217	4,211	46,442
1907	4,706	4,264	4,264	4,777	2,764	1,904	2,774	4,412	4,244	4,264	4,274	4,264	34,273
1908	4,267	4,272	4,714	7,004	4,264	4,222	4,114	4,024	2,264	4,111	4,774	4,264	46,216
1909	7,770	4,211	4,264	4,264	4,214	4,271	4,214	2,264	2,267	4,242	4,264	4,264	46,273
1900	4,264	4,264	7,034	4,274	4,271	4,224	4,007	2,442	4,074	4,074	4,768	4,264	46,212
1901	4,766	4,224	4,270	4,222	4,264	2,264	2,412	4,271	2,264	2,407	4,214	4,211	37,268
1902	4,042	4,212	7,442	4,224	4,264	2,264	2,274	2,074	2,264	2,451	4,044	4,211	38,268
1903	4,272	4,764	4,261	4,004	4,222	4,222	2,267	2,264	2,264	2,264	4,217	4,217	46,217
1904	4,264	4,194	4,412	4,264	4,272	2,764	4,214	2,441	2,267	4,264	4,264	4,264	46,212
1905	4,442	4,224	4,264	4,194	4,401	4,402	2,264	2,104	2,267	4,212	4,267	4,264	46,442
1906	2,264	4,241	4,264	4,194	4,072	2,424	2,264	2,104	2,222	2,764	4,272	4,264	37,442
1907	4,241	4,264	4,264	4,264	4,264	2,264	2,124	2,124	2,717	4,174	4,264	4,264	37,442
1908	4,701	4,442	4,264	4,264	4,210	2,191	2,124	2,264	1,702	4,114	4,721	4,267	46,442
1909	4,401	4,222	4,791	4,244	4,264	2,264	2,264	2,264	2,271	4,267	4,222	4,264	37,442
1910	4,244	4,081	7,261	4,274	4,200	2,444	2,719	2,219	2,264	2,214	4,277	4,072	38,268
1911	4,724	4,791	4,264	4,154	2,712	2,222	2,217	2,264	2,411	2,164	4,264	4,264	41,470
1912	4,214	2,222	4,444	4,267	4,264	2,222	2,421	2,764	2,264	4,264	4,444	4,264	46,272
1913	4,222	2,264	4,222	4,261	4,214	2,267	2,267	2,077	2,774	4,274	4,264	4,264	46,270
1914	4,262	4,012	4,064	4,064	4,219	2,214	2,264	2,212	2,704	2,264	4,270	4,264	46,268
1915	4,142	2,271	4,200	4,224	4,124	2,194	4,212	2,264	2,274	2,442	4,774	4,267	38,268
1916	4,442	4,264	4,264	4,264	4,022	4,072	2,264	2,274	2,264	4,211	4,174	4,264	32,211
1917	4,264	4,272	4,264	4,064	4,154	2,264	2,264	2,274	2,414	2,214	4,264	4,264	38,268
1918	4,414	4,264	4,442	4,274	2,222	2,472	4,264	2,214	2,214	4,264	4,212	4,264	46,442
1919	4,419	4,277	4,214	4,770	2,714	2,222	2,264	2,264	2,264	4,264	4,264	4,264	37,212
1920	7,270	4,004	4,064	4,774	4,417	2,224	2,764	2,224	1,144	4,764	4,264	4,264	38,268
1921	4,222	2,264	4,264	4,222	4,264	4,144	4,222	2,267	2,267	2,764	4,264	4,264	37,268
1922	4,224	4,274	4,122	4,264	4,154	2,704	2,154	2,264	2,264	2,761	4,264	4,101	46,268
1923	4,270	4,424	7,224	4,264	4,264	2,671	2,264	2,264	2,264	4,267	4,264	4,264	46,442
1924	4,261	4,264	4,264	4,267	4,264	2,264	2,264	2,264	2,264	4,264	4,264	4,264	46,704
1925	4,714	4,142	4,274	4,264	4,267	2,267	2,267	2,264	4,264	4,114	4,264	4,264	37,268
1926	4,267	2,264	4,264	4,197	4,424	2,197	2,222	2,251	2,177	4,077	4,791	4,212	37,268
1927	4,199	4,144	4,222	4,114	4,264	2,724	2,271	2,264	2,264	4,014	4,264	4,264	41,222
1928	4,239	4,742	4,274	4,264	4,267	2,264	2,724	2,264	4,264	4,264	2,764	4,264	46,268
1929	2,267	4,224	4,117	4,219	2,797	2,264	2,264	2,264	2,264	2,214	4,264	4,264	46,768
Mean	4,044	4,778	4,764	4,404	4,204	2,264	2,222	2,127	2,271	4,074	4,261	4,714	46,228

MAXIMUM VELOCITY OF WIND (IN MILES PER HOUR)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1906	25	25	25	25	25	19	25	21	21	25	25	25	25
1907	25	25	25	25	25	21	25	21	21	25	25	25	25
1908	25	25	25	25	25	21	25	21	21	25	25	25	25
1909	25	25	25	25	25	21	25	21	21	25	25	25	25
1910	25	25	25	25	25	21	25	21	21	25	25	25	25
1911	25	25	25	25	25	21	25	21	21	25	25	25	25
1912	25	25	25	25	25	21	25	21	21	25	25	25	25
1913	25	25	25	25	25	21	25	21	21	25	25	25	25
1914	25	25	25	25	25	21	25	21	21	25	25	25	25
1915	25	25	25	25	25	21	25	21	21	25	25	25	25
1916	25	25	25	25	25	21	25	21	21	25	25	25	25
1917	25	25	25	25	25	21	25	21	21	25	25	25	25
1918	25	25	25	25	25	21	25	21	21	25	25	25	25
1919	25	25	25	25	25	16	19	19	19	21	25	25	25
1920	25	25	25	25	25	21	25	21	21	25	25	25	25
1921	25	25	25	25	25	21	25	21	21	25	25	25	25
1922	25	25	25	25	25	25	25	25	25	25	25	25	25
1923	25	25	25	25	25	25	25	25	25	25	25	25	25
1924	25	25	25	25	25	19	25	21	25	19	25	25	25
1925	25	25	25	25	25	25	25	25	25	25	25	25	25
1926	25	25	25	25	25	25	25	25	25	25	25	25	25
1927	25	25	25	25	25	25	25	25	25	25	25	25	25
1928	25	25	25	25	25	16	25	25	25	25	25	25	25
1929	25	25	25	25	25	25	25	25	25	25	25	25	25
1930	25	25	25	25	25	25	25	25	25	25	25	25	25
1931	25	25	25	25	25	25	25	25	25	25	25	25	25
1932	25	25	25	25	25	25	25	25	25	25	25	25	25
1933	25	25	25	25	25	25	25	25	25	25	25	25	25
1934	25	25	25	25	25	25	25	25	25	25	25	25	25
1935	25	25	25	25	25	25	25	25	25	25	25	25	25
1936	25	25	25	25	25	25	25	25	25	25	25	25	25
1937	25	25	25	25	25	25	25	25	25	25	25	25	25
1938	25	25	25	25	25	25	25	25	25	25	25	25	25
Mean	22.7	21.7	21.2	21.4	22.2	24.6	22.7	22.7	22.9	22.5	22.3	21.4	22.6
Maximum	47	48	48	50	48	50	44	38	50	42	44	48	50

# METEOROLOGICAL RECORDS

19

## SNOW, FROST, AND WEATHER

YEAR	Last Snow	First Snow	Last Frost	First Frost	Number of Days of Precipitation	Number of Clear Days	Number of Fair Days	Number of Cloudy Days
1899	April 2	Oct. 12	May 26	Sept. 21	119	94	110	101
1900	April 8	Oct. 19	May 12	Sept. 25	141	127	125	120
1901	May 8	Nov. 26	May 19	Oct. 12	112	145	108	117
1902	April 10	Nov. 8	May 10	Sept. 20	108	122	109	124
1903	April 21	Nov. 4	May 8	Sept. 3	143	101	96	106
1904	April 12	Nov. 8	May 22	Aug. 22	126	107	89	173
1905	April 3	Oct. 20	May 17	Aug. 22	119	110	110	127
1906	April 7	Nov. 14	May 1	Sept. 24	108	122	102	122
1907	April 27	Nov. 12	May 8	Sept. 22	127	108	109	148
1908	April 6	Nov. 24	April 27	Sept. 21	126	78	128	149
1909	April 16	Oct. 12	May 4	Sept. 14	110	91	120	125
1910	April 9	Nov. 9	May 29	Sept. 18	121	82	144	128
1911	April 2	Oct. 18	May 6	Sept. 26	125	81	105	179
1912	April 2	Oct. 29	May 14	Sept. 6	144	72	112	179
1913	April 4	Oct. 26	May 2	Sept. 25	116	119	98	148
1914	April 20	Oct. 12	April 22	Sept. 22	126	142	96	126
1915	May 1	Nov. 9	May 24	Sept. 12	122	120	126	107
1916	April 22	Nov. 11	May 20	Sept. 25	121	120	140	94
1917	May 11	Nov. 24	May 22	Sept. 27	122	94	124	116
1918	April 20	Nov. 5	June 3	Sept. 16	109	142	120	99
1919	April 9	Oct. 17	May 12	Oct. 12	128	112	121	108
1910	March 14	Oct. 27	May 6	Sept. 22	117	142	122	71
1911	April 19	Nov. 14	May 8	Sept. 14	120	105	121	126
1912	April 9	Nov. 2	May 1	Aug. 21	117	71	122	112
1913	April 9	Oct. 21	May 18	Sept. 10	125	106	144	116
1914	April 16	Oct. 27	May 18	Sept. 28	118	100	120	126
1915	April 3	Nov. 17	May 20	Sept. 22	122	82	126	127
1916	April 14	Nov. 15	May 19	Sept. 17	126	121	129	126
1917	May 4	Nov. 24	May 18	Sept. 11	117	120	127	99
1918	April 12	Nov. 4	April 26	Sept. 11	122	106	121	106
1919	April 25	Nov. 5	May 1	Sept. 18	122	120	121	104
1920	April 5	Nov. 12	May 5	Oct. 7	125	118	126	92
1921	April 12	Nov. 7	May 12	Oct. 9	121	126	141	98
1922	April 22	Nov. 24	May 12	Sept. 19	120	117	127	121
1923	April 15	Nov. 8	May 24	Sept. 15	125	141	121	98
1924	April 8	Nov. 9	May 2	Sept. 24	98	141	145	80
1925	April 20	Oct. 10	May 26	Sept. 22	120	94	141	126
1926	April 7	Oct. 18	May 6	Oct. 9	117	82	142	140
1927	April 5	Nov. 10	May 3	Oct. 11	127	86	126	148
1928	April 26	Nov. 5	May 14	Sept. 25	122	92	116	127
1929	April 22	Nov. 21	May 22	Sept. 19	120	99	127	129
1930	April 24	Oct. 25	May 21	Oct. 1	120	142	100	122
1931	April 29	Nov. 27	May 4	Oct. 10	124	126	100	129
1932	April 27	Nov. 26	June 9	Sept. 11	122	120	97	119
1933	April 26	Nov. 6	June 2	Sept. 12	124	126	105	124
1934	March 24	Oct. 12	May 12	Oct. 2	119	126	101	126
1935	April 17	Nov. 17	May 25	Sept. 17	116	127	86	122
1936	April 2	Nov. 24	May 22	Sept. 26	142	109	94	122
1937	April 9	Nov. 19	April 26	Oct. 9	125	120	106	121
1938	April 10	Nov. 14	May 21	Sept. 10	126	122	97	115
<b>Mean</b>	April 15	Nov. 6	May 14	Sept. 21	124	116	122	120
<b>Extremes</b>	March 14	Oct. 10	April 22	Oct. 12				
	May 11	Nov. 27	June 8	Aug. 22				

## Summary for the Fifty Years 1889 - 1938, Inclusive

### BAROMETER (PRESSURE IN INCHES)

(Readings reduced to sea level)

Maximum, Feb. 1, 1920, 10 a.m.....	31.050
Minimum, Sept. 21, 1938, 9:09 p.m.....	28.410
Mean .....	30.014
Total range.....	2.640
Greatest annual range, 1938.....	2.470
Least annual range, 1933.....	1.380
Mean annual range.....	1.850
Greatest monthly range, January 1913.....	2.180
Least monthly range, August 1894.....	.440
Mean monthly range.....	1.087

### AIR TEMPERATURE (IN DEGREES F.)

Highest, July 4, 1911, 3:30 p.m.....	104.0
Lowest, Jan. 5, 1904, 7:30 a.m.....	-26.0
Mean .....	47.4
Total range .....	130.0
Greatest annual range, 1918.....	122.5
Least annual range, 1937.....	90.0
Mean annual range.....	107.8
Greatest monthly range, Mar. and Nov. 1938.....	79.0
Least monthly range, July 1889.....	31.0
Mean monthly range.....	54.4
Greatest daily range, Dec. 10, 1902.....	54.0
Least daily range, Nov. 20, 1937.....	1.0

### HUMIDITY

Mean relative humidity, percent.....	67.6
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### PRECIPITATION (IN INCHES)

Greatest annual precipitation, 1938.....	59.00
Least annual precipitation, 1908.....	30.68
Mean annual precipitation.....	43.70
Greatest monthly precipitation, September 1938.....	14.55
Least monthly precipitation, October 1924.....	.01
Mean monthly precipitation.....	3.64
Greatest annual snowfall, 1893.....	89.00
Least annual snowfall, 1919.....	24.50
Mean annual snowfall.....	47.78

### WIND (IN MILES)

Greatest annual movement, 1908.....	63,571
Least annual movement, 1894.....	36,257
Mean annual movement.....	52,223

METEOROLOGICAL RECORDS

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Wind (IN MILES)—Continued

Greatest monthly movement, April 1908.....	8,208
Least monthly movement, July 1894.....	1,109
Mean monthly movement.....	4,352
Greatest daily movement, April 8, 1909.....	705
Least daily movement, Sept. 29, 1894; Mar. 7, 1890; Jan. 6, 1904; Dec. 4, 1916; Oct. 6, 1920.....	0
Mean daily movement.....	146
Maximum velocity for 5 minutes, Sept. 21, 1938, 5:17 p.m.....	80

WEATHER

Mean cloudiness observed, percent.....	51.7
Percent of possible hours bright sunshine.....	53
Mean annual number of clear days.....	116
Mean annual number of fair days.....	123
Mean annual number of cloudy days.....	126
Mean annual number of days of precipitation.....	124
Mean date of last snow.....	April 15
Mean date of first snow.....	Nov. 6
Mean date of last frost.....	May 14
Mean date of first frost.....	Sept. 21



### The Hurricane of September 1938

The hurricane on September 21, 1938, was the most disastrous storm during the 50-year period covered by this summary. A reprint of the "Remarks" in the monthly bulletin is given below. The accompanying graph shows barometric pressure and wind velocity in the afternoon of that day.

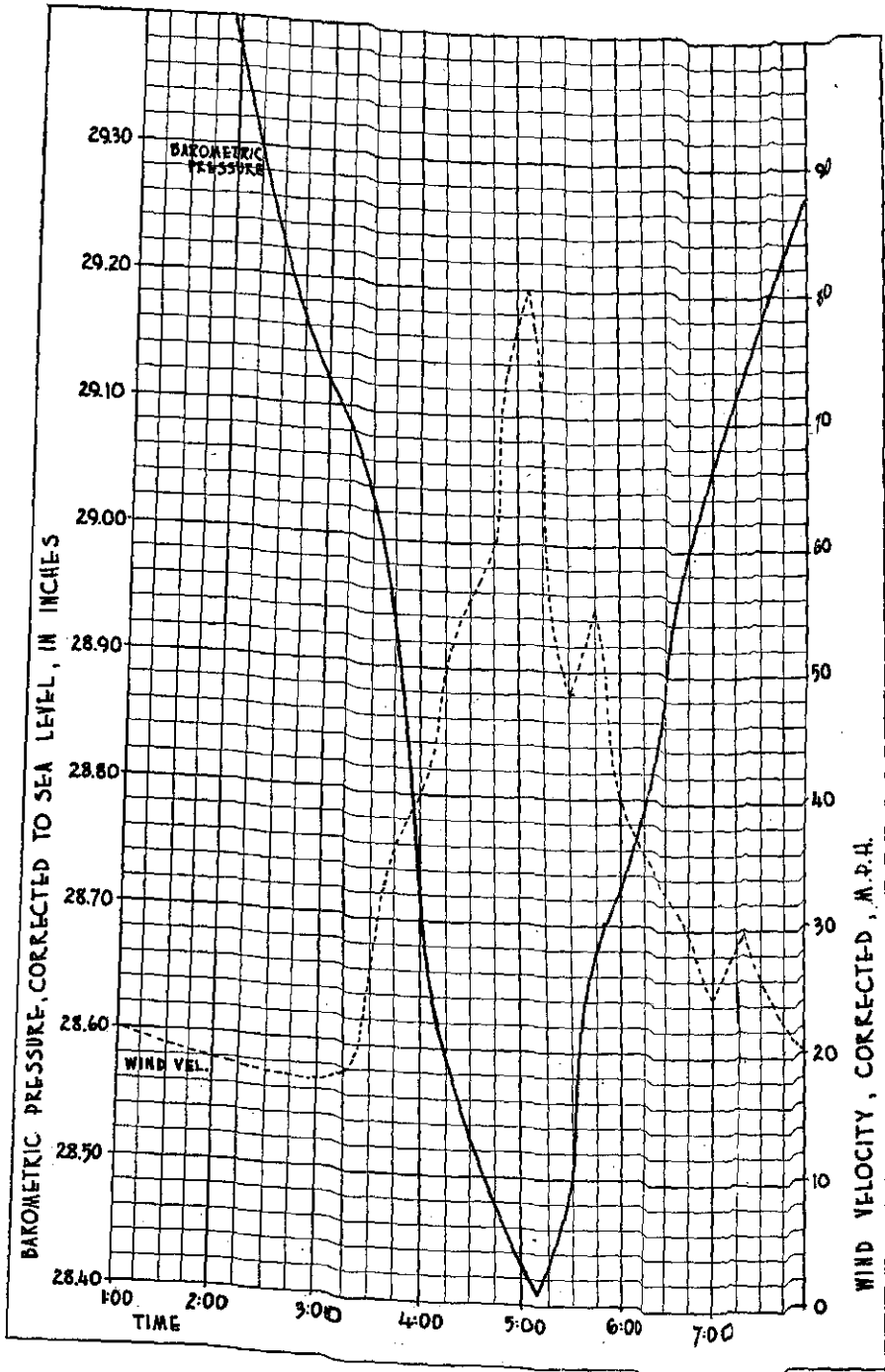
The outstanding feature of the weather during September was the heavy rainstorm from the 17th to the 21st, terminating with the hurricane on the 21st. A total of 11.96 inches of rain fell between 6 p.m. on the 17th and 9 p.m. on the 21st. This storm brought the Connecticut River to a height of 14.9 feet over the Holyoke dam. This is .1 foot higher than in November, 1927, and 1.7 feet lower than in March, 1936. The total rainfall during the month was 14.55 inches. This is the greatest rainfall in Amherst during any month since 1836, the year records were first taken in Amherst. The nearest approach to this heavy rainfall was in July, 1897 when 14.51 inches were recorded. The total rainfall since January 1 is now 49.74 inches, as compared with a normal of 33.25 inches for this period.

The barometer continued high during the rain on the 17th and 18th and until noon on the 19th, reading approximately 30.15 inches when reduced to sea level. At noon (E. S. T.) on the 19th the barometer commenced falling slowly and reached 29.70 by 12 p.m. on the 20th. On the 21st the fall of the barometer was accelerated but did not become unusual until noon when it had fallen to 29.58. Between 12 noon and 2 p.m. it fell .15 inches and by 3 p.m. it reached 29.12. By 4 o'clock the barometer had dropped to 28.72 inches and reached the minimum of 28.41 at 5:05 p.m. During this time the wind rose from 20 miles per hour at 3 p.m. to 38 at 4 p.m., and about 50 at 4:30, and reached 80 miles per hour at 5:17. An average velocity of 77 miles per hour was maintained for 5 minutes beginning at 5:10. After 5:05 p.m. the barometer rose at about the same rate at which it had dropped. The wind gradually decreased in velocity to 65 miles per hour at 5:30 and fell to 22 miles per hour at 7 p.m.

On March 1, 1914 there was a sudden drop in the barometer quite similar to that which occurred on the 21st. The lowest reading at that time was 28.47 inches when reduced to sea level. The wind velocity accompanying that storm was only 45 miles per hour.

The wind blew from the north during the rain on the 17th, 18th, 19th and 20th, except from 9 p.m. on the 19th to 6 a.m. on the 20th when it blew from the south. It continued from the north until noon on the 21st when it shifted to southeast and continued from that direction during the storm. After the storm it shifted to south and continued from that direction on the following day.

A large number of trees was uprooted and others were snapped off by the force of the wind, both on the College campus and in the town. Many tobacco barns and poultry buildings were overturned and collapsed. Many roofs were damaged, some blowing off completely. Few substantial buildings were damaged except from falling trees.



Barometric Pressure and Wind Velocity  
September 21, 1938