

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1931	18.2	21.6	25.8	37.4	44.3	55.4	63.5	60.0	52.0	42.4	24.4	16.8	38.5
1932	17.4	19.9	23.8	34.3	42.2	51.9	59.4	58.4	50.8	39.8	31.2	28.0	36.6
1933	20.0	11.2	25.7	48.2	48.2	57.8	62.6	58.8	53.3	46.0	33.4	28.0	39.2
1934	19.8	28.3	34.0	44.8	58.3	52.2	61.9	62.2	49.3	46.2	19.0	42.0	42.0
1935	17.8	20.6	23.9	35.9	43.2	53.7	61.6	60.6	55.4	41.8	24.0	17.4	38.0
1936	17.7	20.7	23.9	37.8	52.7	59.4	67.1	62.6	52.3	43.0	26.8	21.8	40.5
1937	7.6	18.3	25.4	35.8	50.0	54.0	62.3	59.8	56.4	46.3	31.6	24.0	39.3
1938	19.5	16.2	28.8	39.5	46.6	57.4	57.6	59.2	52.0	36.0	22.8	36.0	39.0
1939	19.3	15.1	29.7	47.4	50.4	52.1	61.5	60.2	53.8	45.6	29.7	24.9	41.5
1940	19.4	26.4	31.8	41.2	50.2	57.6	63.3	63.3	55.0	45.6	25.4	22.4	41.8
1941	17.8	25.2	32.4	38.3	49.4	54.7	61.6	60.8	48.4	41.1	30.1	24.9	40.4
1942	14.0	13.5	23.3	39.2	44.0	51.2	63.0	60.9	53.0	43.2	28.8	20.8	37.9
1943	17.1	21.5	25.8	44.8	45.8	51.4	61.2	61.4	54.7	44.2	30.4	19.6	39.8
1944	12.6	23.4	23.5	35.4	48.0	50.6	59.2	59.8	52.9	47.3	25.0	18.4	38.0
1945	20.2	20.4	28.3	33.8	46.8	49.6	60.8	60.1	48.0	45.0	26.8	19.0	38.6
1946	14.0	20.4	30.6	41.4	44.8	54.2	63.4	61.0	49.8	36.6	28.2	25.6	39.2
1947	13.5	25.3	31.4	36.9	47.4	50.6	61.9	58.8	53.6	46.5	24.8	20.6	39.5
1948	18.4	22.0	25.4	38.2	47.4	55.8	59.1	61.4	43.7	35.3	14.7	14.7	38.9
1949	4.6	17.6	31.2	41.4	49.3	53.4	60.8	61.2	52.4	38.1	37.7	20.0	39.0
1950	17.3	23.3	28.3	35.2	42.6	51.4	58.1	57.9	50.2	44.2	31.9	24.1	38.7
1951	14.0	23.7	23.8	37.1	47.4	48.4	60.4	57.3	50.0	39.4	24.8	16.5	36.9
1952	16.3	17.0	23.1	38.3	48.9	54.5	61.7	60.1	56.4	40.3	23.0	20.4	38.8
1953	28.9	21.9	29.1	34.1	41.9	54.4	63.2	60.2	56.4	44.2	34.6	17.5	40.5
1954	22.0	24.0	23.8	38.1	49.7	53.0	63.6	61.8	54.4	43.1	18.4	40.4	40.4
1955	15.1	16.2	21.5	33.5	47.0	53.7	61.7	61.8	53.4	43.5	26.4	24.6	38.2
1956	24.3	14.7	26.5	39.2	50.2	55.6	60.5	56.9	52.6	43.4	23.8	19.0	38.9
1957	12.0	28.1	29.3	36.1	48.2	54.6	61.8	60.7	52.0	42.2	24.5	21.5	39.3
1958	16.3	28.6	26.4	33.8	52.6	55.6	68.3	62.3	51.1	44.1	26.4	27.3	40.3
1959	20.3	22.7	26.0	37.4	44.6	57.2	60.1	59.3	50.0	42.6	32.0	22.0	39.5
1960	16.8	17.9	28.8	39.4	48.3	55.8	62.6	58.5	55.5	42.2	29.5	16.4	39.3
1961	16.1	27.7	27.8	35.2	49.0	58.8	62.8	63.8	47.7	40.5	23.5	15.6	39.0
1962	11.4	23.0	24.9	39.6	49.0	54.4	62.3	62.3	55.7	46.6	34.8	26.9	40.1
1963	12.9	29.6	29.0	35.2	49.6	59.4	62.3	62.0	57.4	48.7	29.9	17.8	40.5
1964	13.2	13.4	20.5	36.0	45.9	51.4	62.2	62.2	50.6	44.1	27.7	19.2	36.8
1965	20.8	18.2	19.0	38.7	44.9	52.4	59.7	57.1	44.9	45.2	32.5	17.1	37.5
1966	16.4	17.1	25.5	35.7	48.9	52.6	62.2	58.3	54.6	39.8	31.4	16.7	38.3

STATION HISTORY

Climatological records have been kept in the Bedford area since July 1899. Most notable of the cooperative observers was the first, Mr. C. G. Heiner, who kept the record for the first 27 years. Other observers and their period of record are shown below.

C. G. Heiner	July 1899 - September 1926
Lee Preston	November 1926 - September 1938
Herman Rickensch	December 1938 - April 1952
Sarain W. Kosen	May 1952 - August 1952
Zollia H. Hunsaker	August 1952 - September 1967

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1931	0.74	1.00	2.22	0.65	1.67	0.11	1.23	0.67	0.72	1.65	0.80	1.89	13.35
1932	1.86	2.12	3.05	2.31	0.85	2.54	0.57	0.70	0.01	0.96	0.86	2.78	18.84
1933	1.29	1.59	1.49	2.13	0.95	0.13	0.13	0.59	1.06	0.16	0.36	2.22	13.15
1934	1.45	1.02	2.53	1.37	1.02	0.62	0.62	0.45	1.27	1.76	1.91	2.34	16.11
1935	0.98	0.99	2.59	2.59	1.73	0.18	0.16	0.43	0.36	0.35	0.99	1.28	12.01
1936	4.57	5.17	3.12	1.12	1.70	1.69	2.30	1.54	1.02	0.46	0.39	1.86	24.94
1937	1.86	2.80	1.13	2.96	0.34	2.02	2.04	0.16	1.32	2.34	2.95	3.51	23.89
1938	1.91	0.86	2.86	1.76	2.65	1.73	1.87	0.27	0.53	1.07	1.33	1.11	17.89
1939	1.10	1.43	0.50	0.25	0.40	2.34	1.08	0.41	1.44	0.79	0	1.04	10.78
1940	4.79	1.99	1.83	1.89	1.05	1.63	0.45	0.49	2.70	2.78	1.85	1.42	22.87
1941	0.98	1.91	0.37	2.29	2.24	2.95	1.32	2.71	2.38	2.47	1.80	2.56	23.68
1942	0.77	1.65	0.76	2.36	3.67	1.13	0.57	0.50	0.10	0.84	5.32	3.17	20.84
1943	3.44	1.52	2.57	0.78	0.81	2.46	0.60	1.48	0.22	2.95	1.30	0.85	18.99
1944	1.40	1.52	1.99	1.45	2.60	5.27	0.79	0	0.62	0.49	3.24	2.05	21.31
1945	1.08	2.02	2.19	1.86	3.63	5.27	0.90	2.51	3.59	0.61	1.92	3.53	29.71
1946	1.62	1.78	2.19	1.02	2.79	1.02	0.84	1.47	2.03	4.24	1.39	2.33	22.72
1947	1.02	1.19	0.98	1.21	3.87	3.00	0.85	3.19	1.25	1.55	4.10	0.99	23.20
1948	1.29	1.31	1.46	2.38	1.95	4.38	0.27	0.62	1.51	1.35	1.97	3.21	22.14
1949	1.41	2.48	1.20	0.55	2.96	1.88	0.10	0.48	4.02	1.88	1.18	2.57	20.77
1950	4.06	1.93	3.15	1.05	0.91	1.73	1.23	0.49	2.91	1.22	2.65	1.77	23.10
1951	2.37	2.58	2.60	1.14	1.95	1.67	1.16	2.26	0.69	2.26	1.33	3.00	23.41
1952	2.72	3.05	2.18	1.25	1.92	1.10	1.50	1.11	0.72	1.21	0.98	1.67	18.30
1953	5.45	1.03	2.31	1.46	3.23	2.32	0.51	0.82	0.26	1.47	1.34	2.23	22.43
1954	3.12	1.48	4.09	1.30	2.11	3.78	0.85	0.67	0.85	1.24	1.21	1.39	22.09
1955	1.86	1.16	2.03	2.36	2.00	2.74	1.12	2.00	1.26	1.50	2.09	6.12	26.24
1956	3.63	1.43	1.14	1.83	2.56	1.50	0.54	0.11	0.65	2.61	1.31	2.56	19.87
1957	2.72	2.01	2.90	2.62	6.12	2.27	1.05	1.14	0.78	1.10	1.73	2.97	26.45
1958	1.69	3.51	1.99	1.95	1.99	1.89	1.82	0.42	1.16	0.22	4.07	2.57	21.88
1959	2.08	1.55	1.96	3.04	0.92	0.92	0.70	1.15	1.77	0.68	0.59	18.99	20.83
1960	1.30	2.73	2.88	2.67	1.43	1.50	0.32	2.15	0.76	2.06	2.33	0.70	20.83
1961	0.87	1.78	1.79	1.29	1.89	1.02	0.45	2.49	3.13	2.31	0.43	1.86	19.54
1962	2.51	2.14	0.91	1.56	3.18	1.51	1.54	1.24	0.57	1.53	1.59	0.52	17.12
1963	1.61	2.80	1.16	3.37	2.32	3.21	0.03	2.00	3.49	1.35	1.83	4.78	25.44
1964	1.84	0.74	2.41	2.47	1.91	5.54	0.67	0.41	0.30	0.60	1.91	4.78	23.61
1965	3.29	0.74	0.53	2.11	1.17	3.72	0.81	1.96	2.08	0.36	2.61	0.91	20.09
1966	0.65	1.14	0.99	1.35	3.11	1.94	0.60	0.46	1.49	0.38	1.92	2.68	16.71

EVAPOTRANSPIRATION

Evapotranspiration, a combination of two words - evaporation and transpiration, is the combined processes by which water is transferred from the earth's surface to the atmosphere. P.E.T. is maximum potential evapotranspiration. P.E.T., 32° is potential evapotranspiration between the average 32° freeze-free dates. P.E.T., 28° is potential evapotranspiration between the average 28° freeze-free dates. P-P.E.T. is normal monthly precipitation minus potential evapotranspiration. These values, in inches and hundredths, are computed values, based on C. W. Thornthwaite's method, using the Palmer-Hayden graphical technique.

P.E.T.	J	F	M	A	M	J	J	A	S	O	N	D	Annual
P.E.T., 32°	0	0	0	0.91	2.43	3.29	4.48	4.01	2.59	1.34	0	0	19.05
P.E.T., 28°	0	0	0	0	0	2.52	4.48	4.01	0.43	0	0	11.44	
P - P.E.T.	+2.11	+1.95	+2.02	+0.76	-0.30	-1.21	-3.55	-2.97	-1.33	+0.23	+1.78	+2.18	+1.67

SHORT DURATION MAXIMUM RAINFALL INTENSITIES (In Inches and tenths)
FOR SELECTED RETURN PERIODS

Return Period (expected recurrence)	Duration of Precipitation											
	30 min.	1 hour	2 hours	3 hours	6 hours	12 hours	24 hours	2 days	4 days	7 days	10 days	
2 years	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.7	1.9	2.2	2.4	2.9
5 years	0.5	0.7	0.9	1.0	1.2	1.4	1.7	1.5	1.7	2.0	2.2	2.7
10 years	0.7	0.9	1.1	1.2	1.4	1.7	2.1	2.1	2.2	2.6	3.2	3.5
25 years	0.8	1.1	1.3	1.4	1.7	2.1	2.3	2.3	2.6	3.5	3.8	4.0
50 years	0.9	1.2	1.5	1.6	1.9	2.3	2.6	2.6	3.2	3.7	4.5	5.0

These values are extracted from "Weather Bureau Technical Papers Nos. 40 and 49."