



Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1911	32.0	33.7	34.0	43.5	51.6	65.7	70.2	67.6	58.8	48.3	31.8	27.5	47.1
1912	20.4	27.4	27.4	46.3	55.1	62.4	70.5	68.8	58.0	52.9	40.0	28.6	45.1
1913	20.4	27.4	27.4	46.3	55.1	62.4	70.5	68.8	58.0	52.9	40.0	28.6	45.1
1914	38.0	35.0	41.9	50.5	64.5	63.7	74.4	68.7	54.9	44.0	30.8	21.6	51.7
1915	31.8	35.6	35.6	41.4	49.6	62.7	74.4	68.7	51.9	49.2	32.3	21.6	47.5
1916	25.8	6.8	36.0	44.0	62.5	66.6	76.3	70.4	59.9	48.4	36.6	29.4	46.9
1917	5.8	23.8	34.4	45.0	56.8	61.8	71.3	71.8	62.0	52.0	35.6	29.4	45.8
1918	25.8	24.8	36.5	44.9	52.8	62.6	67.3	66.5	54.0	49.5	28.2	29.0	46.2
1919	20.1	18.0	26.7	36.7	57.6	57.8	71.6	67.0	47.4	49.1	41.8	35.5	47.4
1920	17.4	17.4	20.0	43.6	55.4	65.4	71.5	69.8	64.4	52.7	29.1	32.2	47.6
1921	31.3	31.3	35.6	42.8	57.4	62.9	69.6	67.9	53.6	45.8	38.8	29.6	47.1
1922	21.0	28.4	28.4	46.0	49.9	58.3	66.4	66.4	53.8	45.4	33.4	30.2	44.3
1923	16.2	31.4	29.4	50.6	48.3	58.4	70.4	68.8	58.4	50.5	38.1	28.8	45.5
1924	27.0	27.1	29.1	45.0	54.4	59.9	67.8	67.8	52.0	50.5	32.0	22.2	43.8
1925	26.7	25.8	35.2	47.4	47.4	52.0	65.2	63.1	52.5	41.0	35.4	25.1	43.0
1926	29.2	30.4	40.6	51.2	48.4	60.7	69.5	64.8	55.6	41.6	32.2	31.0	46.4
1927	25.9	28.0	31.2	42.5	53.2	57.2	70.4	67.4	57.9	51.6	27.7	27.6	44.8
1928	24.9	22.7	28.4	45.6	55.0	61.2	66.0	67.3	59.0	47.6	33.7	23.5	44.4
1929	9.0	22.4	31.4	52.0	58.6	59.9	67.8	68.0	56.5	40.9	45.1	38.9	44.9
1930	17.2	35.5	34.0	49.8	49.4	59.7	66.4	67.1	55.2	52.1	33.8	34.3	45.7
1931	22.2	31.5	39.6	42.2	55.8	56.2	68.4	64.6	55.8	44.6	33.8	21.7	43.7
1932	25.3	30.0	38.9	48.7	54.3	63.2	66.3	67.5	51.6	40.0	30.2	20.4	46.6
1933	28.3	29.5	39.7	46.0	51.0	61.0	71.4	67.7	60.8	51.5	42.8	20.0	47.2
1934	23.9	40.4	28.6	44.0	59.8	72.0	68.0	68.0	45.9	40.7	31.2	22.2	43.8
1935	26.6	25.5	28.6	43.5	54.5	59.4	69.0	70.8	58.2	50.4	22.3	21.2	43.8
1936	26.5	22.4	31.1	40.2	54.9	58.0	68.8	65.7	50.3	32.9	31.0	21.0	46.2
1937	13.2	29.0	35.0	39.3	53.7	60.4	72.3	68.9	57.0	45.1	30.7	35.0	45.0
1938	21.9	23.7	31.7	41.8	51.2	59.1	64.1	71.4	59.1	51.3	34.7	28.7	46.9
1939	24.6	22.8	31.7	42.5	56.5	62.2	70.7	69.9	56.5	44.2	29.1	29.8	46.0
1940	25.9	22.2	34.7	49.5	54.5	74.0	67.5	60.3	48.6	34.2	28.0	28.0	46.5
1941	31.6	35.3	38.2	40.0	54.0	68.9	70.9	72.3	49.7	45.4	31.3	24.6	46.9
1942	17.6	25.7	33.2	42.2	55.9	62.3	66.3	66.4	56.5	54.8	39.5	33.5	46.0
1943	14.2	30.0	37.9	42.5	56.9	61.7	69.2	70.1	53.8	54.8	39.5	23.1	47.3
1944	27.8	28.0	28.2	43.8	58.0	60.6	72.7	65.5	57.1	50.9	34.0	24.4	45.3
1945	32.8	27.7	28.3	43.8	58.5	60.8	69.8	66.5	48.5	54.3	41.8	31.9	45.9
1946	25.0	29.0	38.7	40.7	58.0	60.9	73.7	66.6	62.3	48.9	35.3	29.8	47.4
1947	25.0	32.1	39.8	41.7	50.8	60.9	69.4	69.8	62.3	50.9	35.3	22.3	46.3

STATION HISTORY

Official weather observations started in July of 1988. However, for thirteen years following that date records were often incomplete or missing. Beginning with June of 1911 when D. A. Tinkom became the official observer the records are continuous. Mr. Tinkom maintained the longest record; his service extends over a period of 108 years. Mrs. Scholas and Mrs. Alsup also have a long period of service. On May 26, 1938, the weather station was furnished additional instrumental equipment such as a barometer, wind instrument and psychrometer for the purpose of making more complete observations. On October 1, 1952, the second order station at Frontier Airlines was closed and the additional equipment of barometer, wind instruments and psychrometer was removed. On that date, Mr. Henry J. Dais assumed responsibility of the regular climatic station.

The observers listed in their order of service are as follows:

- W. P. Wabster July 1898 - April 1901
- M. R. Bunnage November 1905 - February 1907
- P. A. Fish August 1909 - July 1910
- C. W. Dibble January 1911 - May 1911
- D. A. Tinkom June 1911 - December 1929
- Mrs. A. A. Scholas January 1930 - April 1938
- Olivier W. Steadman May 1938 - April 1941
- Genevieve H. Thompson May 1941 - October 1943
- Kathryn M. Alsup November 1943 - October 1955
- Frontier Airlines employees October 1955 - September 30, 1962
- Henry J. Dais October 1, 1962 - September 16, 1968

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1911	0.03	0.61	1.12	1.33	1.01	1.04	1.11	1.65	0.56	0.32	0.15	0.05	8.15
1912	0.21	0.12	0.37	1.10	3.21	3.21	1.04	0.13	0.86	1.18	0.26	0.41	12.04
1913	0.27	0.15	0.38	1.90	2.80	0.07	0.37	2.17	0.45	0.25	0.41	6.05	8.87
1914	0	0.08	0.29	0.80	2.44	0.93	0.30	0.60	0	0.20	0.12	0.06	6.35
1915	0.02	0.12	0.62	1.10	1.51	0.02	1.29	1.29	0.20	0.28	0.06	0.06	8.59
1916	0.39	0.99	1.08	0.73	0.10	1.36	1.90	0.95	0.44	0.44	0.07	0.14	6.92
1917	0.05	0.42	0.37	0.47	1.31	1.61	0.47	0	0.92	0.95	0.28	0.27	6.92
1918	0.53	0.46	0.95	1.33	2.00	1.61	0.00	0.11	0.28	0.68	1.02	0.11	11.02
1919	0.21	0.22	0.22	1.99	2.24	0.60	0.67	0.40	0.36	0	0.15	0.15	9.36
1920	0.57	0.33	0.32	1.40	0.73	1.43	1.47	0.10	1.69	0.90	0.47	0.04	9.55
1921	0.17	0.45	0.45	2.23	2.04	3.07	2.25	1.74	2.44	0.43	0.36	0.17	14.70
1922	0.30	0.13	0.29	0.65	2.04	0.54	0.85	0.25	1.13	1.98	0.72	0.25	9.53
1923	0.88	0.47	0.68	1.07	1.57	1.56	0.39	0.22	1.00	0.61	0.74	0.16	9.16
1924	0.23	0.34	0.99	1.96	2.40	3.39	1.67	0.40	0.95	0.37	0.64	0.59	14.43
1925	0.25	1.02	1.02	1.63	1.63	4.07	1.83	1.62	1.08	0.62	0.37	0.59	14.63
1926	0.72	0.21	1.70	0.28	1.75	0.66	1.01	0.83	1.19	1.37	0.33	0.38	10.57
1927	0.09	0.68	0.77	0.07	1.03	1.29	1.35	0.24	0.66	0.66	0.59	0.22	8.57
1928	0.85	0.55	0.38	1.33	2.43	2.43	0.74	0.43	0.80	0.40	0.32	0.35	9.62
1929	0.49	0.49	0.11	0.44	1.70	1.82	0.39	0.49	0.97	0.48	0.57	0.25	7.77
1930	0.58	0.13	0.17	0.28	0.92	0.97	1.01	0.24	2.41	0.08	1.12	0.38	9.98
1931	0.77	0.09	0.58	1.02	0.90	0.72	2.34	1.86	0.84	1.14	0.33	0.31	11.16
1932	0.20	0.35	0.51	0.59	2.32	0.86	0.57	1.27	0.16	0.93	0.21	0.28	7.59
1933	0.14	0.37	0.18	1.27	1.27	0.97	0.02	0.56	0.71	0.43	0.57	0.27	8.89
1934	1.06	0.56	1.63	1.19	0.34	0.97	0.76	0.52	0.51	0.36	0.05	0.13	7.92
1935	0.09	1.38	1.18	0.59	1.97	2.23	0.58	0.18	0.74	0.30	0.57	0.48	10.00
1936	0.08	0.09	0.59	0.61	0.68	0.27	0.45	0.23	0.15	0.44	0.27	0.21	5.58
1937	0.04	0.44	0.22	2.05	2.38	2.00	0.58	0.73	0.83	1.30	0.27	0.03	12.17
1938	0.11	0.40	0.66	0.66	1.54	3.25	2.45	0.90	0.21	0.11	0.04	0.07	11.14
1939	0.09	0.18	0.30	0.52	0.22	1.68	0.41	0.52	0.31	0.88	0.05	0.19	6.24
1940	0.09	0.33	0.32	0.63	0.40	1.95	0.38	0.87	0.16	0.44	0.72	0.16	6.14
1941	0.04	0.09	0.37	0.46	0.70	0.81	1.14	0.41	3.26	1.06	0.25	0.38	10.39
1942	0.95	0.40	0.47	0.56	2.28	2.28	2.01	1.71	1.07	0.97	0.10	0.29	12.22
1943	0.21	0.29	0.05	2.12	1.30	2.52	0.82	0.82	1.17	0.11	0.04	0.07	8.63
1944	0.04	0.09	0.15	1.09	1.87	2.40	0.18	0.04	0.01	1.07	0.33	1.17	8.43
1945	0.23	0.15	0.56	0.42	2.24	2.56	0.47	1.34	0.79	0.09	0.10	0.04	8.43
1946	0.02	0.12	0.14	1.22	0.24	1.09	0.66	0.70	1.90	0.05	0.57	0.07	6.82
1947	0.30	0.21	0.70	0.29	2.50	3.52	0.93	0.44	0.43	0.66	0.13	0.13	10.61

EVAPORANSPIRATION

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. 30° is potential evapotranspiration between the average 30° Freese-Free dates. P.E.T. 20° is potential evapotranspiration between the average 20° Freese-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. H. Thornthwaite's method, using the Palmer-Hayden graphical techniques.

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	4 hours	6 hours	12 hours	24 hours	2 days	4 days	7 days	10 days
2 years	0.4	0.5	0.7	0.9	1.0	1.2	1.2	1.4	1.7	1.9	2.2	2.5
5 years	0.6	0.8	1.0	1.1	1.3	1.3	1.6	1.8	2.1	2.3	2.5	2.9
10 years	0.8	0.9	1.2	1.2	1.6	1.9	2.2	2.2	2.9	3.1	3.7	3.7
25 years	0.9	1.1	1.4	1.4	1.9	2.2	2.6	2.6	3.2	3.7	3.7	4.1
50 years	1.1	1.5	1.7	1.9	2.2	2.6	2.6	3.0	3.2	3.7	3.7	4.1

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