

U. S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

LOCAL CLIMATOLOGICAL DATA

WITH COMPARATIVE DATA

1954

WILMINGTON, DELAWARE



NARRATIVE CLIMATOLOGICAL SUMMARY

Delaware is part of the Atlantic Coastal Plain consisting mainly of flat low land with many marshes. Wilmington, at the northern end of the State, marks the beginning of low rolling hills extending northward into Pennsylvania. The Delaware River and Delaware Bay constitute the eastern boundary of the State while the broad Chesapeake Bay lies twenty-five miles, or less, to the west of the western boundary. These large water areas influence the climate of Delaware to a considerable extent.

The year-round climate of the Wilmington vicinity is mild and favorable for agriculture and manufacture. Winters are seldom severe. January is the coldest month with an average temperature of 33.3 degrees and zero temperatures are infrequent. Since 1894 only 35 days with zero or below have occurred in the Wilmington area. The average date of the first snow is December 5th and the average annual fall amounts to 21.1 inches. As a rule snow does not remain on the ground more than a few days at a time.

Spring comes early in northern Delaware. The average date of the last killing freeze is April 14th. The average maximum temperature for March and April is 53.0 and 63.2 degrees, respectively. And, considering the latitude, the growing season of 193 days is quite long; the average date of the first killing freeze is October 28th.

The warmest month of the year is July with an average temperature of 75.9 degrees, an average maximum temperature of 86.7 and an average minimum of 65.0 degrees. During the past 61 years there have been 28 days with a temperature of 100 degrees or over. The average number of days with 90 degrees or over is 20. The proximity of large water areas and the inflow of moist southerly winds cause the relative humidity to be quite high all year. During the summer the average is 75%. Thunderstorms, frequent during the summer, usually occur during the late afternoons of hot humid days, with the effect of welcome relief.

The average number of days with heavy fog is 49; they occur in every month of the year, but with the maximum number in the Fall and Winter seasons. Light SE winds blowing up Delaware Bay favor the formation of heavy fog.

The average annual precipitation of 44.50 inches occurs in monthly falls ranging from 2.98" in February to 5.28" in August. Long droughts are uncommon. Tropical hurricanes moving northward along the Atlantic Coast occasionally cause heavy rain in northern Delaware but Wilmington winds seldom reach hurricane force. There is almost a complete freedom from tornadoes. Strong easterly and southeasterly winds occasionally cause high tides resulting in the flooding of lowlands.

AVERAGE TEMPERATURE

TOTAL PRECIPITATION
WILMINGTON, DELAWARE
NEW CASTLE COUNTY AIRPORT
1954

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An. l.
1900	33.4	33.0	37.6	53.8	63.6	74.7	79.5	79.0	72.3	62.2	49.4	34.7	56.1
1901	32.9	28.4	41.6	51.5	62.2	72.8	81.1	77.2	68.8	56.1	42.0	32.8	54.0
1902	30.2	29.2	44.5	54.6	64.0	72.1	76.6	72.7	67.4	58.0	51.6	34.4	54.6
1903	33.2	36.8	49.2	53.4	64.4	66.6	74.4	72.2	66.5	57.8	41.9	30.2	53.9
1904	27.1	25.4	40.6	47.0	64.0	70.2	75.0	73.2	66.0	53.2	42.2	28.2	50.9
1905	25.5	24.5	41.6	52.1	62.7	70.5	77.3	67.4	67.2	57.2	43.2	36.8	52.8
1906	37.2	31.7	36.4	54.0	63.4	73.4	75.4	76.1	71.8	67.0	46.9	38.6	55.0
1907	34.2	26.6	46.6	48.5	58.4	65.8	75.6	72.7	68.4	62.6	45.3	30.0	52.6
1908	33.8	29.8	44.0	53.5	63.4	71.4	76.8	72.0	68.3	58.4	44.2	35.8	54.1
1909	34.8	39.6	40.2	51.9	62.0	72.4	73.6	70.0	65.5	52.4	49.8	33.4	53.8
1910	34.4	36.7	47.8	57.4	65.0	70.3	78.5	72.3	66.2	56.2	39.2	27.2	54.3
1911	33.6	30.8	37.4	48.2	56.4	68.4	74.7	70.6	65.0	52.6	40.8	36.6	52.0
1912	28.4	34.7	40.8	55.0	65.8	72.8	76.8	74.4	70.8	61.0	48.7	39.0	55.6
1913	43.3	35.3	49.2	55.6	64.2	74.0	78.6	75.7	68.5	60.8	48.8	40.6	57.9
1914	36.6	30.4	39.4	53.3	66.2	74.2	76.1	76.8	68.4	61.6	46.8	33.6	55.5
1915	36.2	39.1	39.2	58.6	62.1	69.4	77.5	74.4	72.2	60.4	47.2	34.6	55.9
1916	38.2	32.5	36.6	52.8	66.4	69.6	76.8	75.0	66.4	56.7	44.4	32.4	54.0
1917	32.2	30.6	39.6	51.8	65.8	71.2	75.4	74.6	63.0	52.2	42.0	26.7	51.3
1918	21.4	31.5	44.0	51.8	66.8	74.1	76.8	64.2	58.7	45.6	40.0	30.2	53.7
1919	35.8	35.0	45.4	51.2	62.7	71.2	75.2	71.8	67.6	61.8	45.3	30.1	54.4
1920	25.2	29.6	41.8	50.0	68.2	69.8	73.1	73.4	67.8	60.2	43.9	36.9	52.5
1921	34.2	36.4	51.6	57.2	62.0	72.2	77.7	71.3	71.7	56.4	45.8	35.4	56.0
1922	29.1	36.2	43.6	53.3	63.5	73.5	75.0	72.6	68.8	58.4	45.3	30.4	54.6
1923	32.5	28.2	41.8	51.7	61.7	74.6	74.4	72.9	68.9	55.2	44.2	41.8	54.0
1924	33.5	31.2	40.4	49.2	58.1	68.2	73.2	73.4	63.8	57.0	44.2	34.4	52.2
1925	29.9	39.7	45.0	54.0	58.8	76.8	75.8	72.4	71.4	50.6	43.1	34.9	54.4
1926	31.6	32.3	37.2	48.9	61.1	66.5	74.5	74.0	66.3	54.9	43.4	30.6	51.8
1927	31.0	38.2	43.8	49.2	59.9	65.9	73.8	67.5	67.0	58.2	48.3	37.0	53.4
1928	33.8	33.8	40.4	48.8	60.1	68.9	75.5	76.0	64.0	57.8	47.3	37.4	53.6
1929	32.2	32.7	48.0	54.4	60.9	70.6	74.1	71.3	68.2	53.6	46.3	35.4	54.0
1930	33.4	37.8	42.4	49.9	64.7	73.0	76.7	73.9	72.3	53.8	45.2	34.2	54.8
1931	33.6	35.0	39.2	50.5	61.7	71.0	77.2	74.2	72.1	59.2	52.0	42.2	55.7
1932	44.2	38.3	37.6	50.2	62.0	70.7	75.0	74.6	68.8	57.6	44.1	36.4	55.0
1933	40.4	35.6	39.6	52.1	64.7	72.4	74.3	74.4	69.7	55.6	42.4	34.1	54.6
1934	36.2	20.2	38.8	51.0	64.2	74.0	77.4	71.3	68.8	54.0	48.0	34.4	53.1
1935	30.0	32.0	45.8	50.1	59.1	70.1	76.6	74.0	65.2	56.4	49.0	29.7	53.2
1936	28.2	25.0	46.8	49.6	65.0	70.0	75.9	75.8	68.8	57.5	43.0	38.3	53.7
1937	41.0	35.2	37.6	51.0	63.8	72.0	75.7	75.8	65.1	54.4	44.6	34.2	54.2
1938	32.8	36.4	45.0	54.1	60.9	70.4	75.9	76.5	66.0	57.6	47.8	35.8	54.9
1939	32.6	38.6	42.2	50.2	64.2	72.4	74.6	76.0	68.4	57.0	42.8	36.8	54.6
1940	22.9	33.0	36.4	48.8	61.2	70.3	75.4	70.8	64.8	52.1	44.8	39.0	51.5
1941	30.8	30.2	35.6	44.4	56.3	64.9	70.2	75.0	73.0	70.2	61.4	48.0	54.6
1942	31.0	30.7	43.8	54.8	65.6	74.1	75.4	72.6	67.9	57.4	46.2	31.3	54.0
1943	31.9	34.8	42.6	47.4	63.4	75.4	75.0	75.2	67.0	54.5	44.3	36.6	53.8
1944	34.4	34.2	38.9	50.0	67.3	71.7	75.8	74.7	71.2	55.2	45.6	31.6	54.2
1945	26.1	33.4	51.6	55.4	60.2	67.0	74.2	71.6	70.2	54.7	47.3	30.0	53.8
1946	34.2	35.0	50.4	50.2	61.6	67.4	73.4	69.6	68.4	59.1	47.8	37.4	54.5
1947	37.8	37.8	38.3	51.4	60.9	68.0	75.8	75.2	67.5	62.2	48.9	35.4	53.1
1948	25.3	31.0	43.4	51.0	61.4	70.0	75.7	73.6	66.8	54.2	49.4	36.3	53.2
1949	39.2	38.6	43.2	52.0	62.9	72.9	78.7	75.1	64.2	60.4	44.5	37.5	55.8
1950	42.7	33.6	37.6	48.3	60.1	69.7	74.0	72.5	63.4	57.6	45.0	32.4	53.1
1951	34.2	34.8	41.5	51.6	61.9	70.4	75.9	73.8	67.0	59.1	41.5	37.6	54.1
1952	37.0	37.6	40.5	54.6	61.0	73.4	78.4	74.3	67.4	62.4	45.5	37.4	55.0
1953	37.6	38.4	44.4	52.3	65.0	72.2	77.0	74.5	68.2	58.0	45.2	38.7	56.0
1954	31.3	40.4	41.5	55.6	60.6	72.0	76.2	72.9	68.3	68.3	43.8	35.1	54.8

RECORD
MEAN
TEMP
MAX
MIN

35.4	36.3	41.7	52.2	61.8	71.6	76.6	73.8	68.5	57.3	45.0	36.4	54.6
43.7	45.2	51.1	62.7	72.2	82.4	87.3	84.2	77.7	67.9	54.7	44.8	64.5
27.0	27.4	32.3	41.6	51.5	60.8	65.8	63.4	55.8	46.7	35.2	28.0	44.6

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1900	3.34	4.87	2.46	2.35	2.61	5.47	4.70	2.81	3.25	2.21	2.02	2.55	38.64
1901	2.59	0.97	3.15	5.98	3.63	2.15	3.72	8.81	3.49	0.95	2.90	7.60	45.94
1902	3.81	5.01	3.81	4.63	1.35	5.15	3.95	2.58	4.62	7.50	2.71	5.97	51.09
1903	4.15	4.26	3.77	3.28	1.40	3.81	6.31	4.37	2.50	4.03	1.59	3.93	43.40
1904	3.63	2.10	3.01	1.85	2.02	4.43	4.67	5.09	7.14	3.11	1.90	1.80	40.75
1905	4.13	2.62	3.80	3.68	2.33	3.24	5.23	4.70	4.95	3.85	1.19	4.16	43.88
1906	2.42	2.54	4.70	4.01	2.74	4.98	7.73	10.70	0.80	5.13	2.53	5.18	53.46
1907	3.30	3.13	5.59	3.55	5.63	5.89	2.57	4.38	6.05	5.24	8.41	5.25	56.99
1908	3.53	4.35	2.49	2.43	5.95	1.78	6.54	3.96	3.18	1.56	1.06	3.79	40.62
1909	2.26	2.54	3.81	2.10	2.06	3.50	1.87	3.01	3.73	0.80	2.43	4.64	32.79
1910	4.07	1.20	1.35	3.88	1.93	6.84	5.42	4.69	3.93	3.29	3.62	2.53	42.75
1911	3.58	2.13	2.57	4.21	1.22	6.66	4.39	14.91	2.18	4.83	6.42	3.95	57.05
1912	2.12	3.21	8.17	3.28	3.90	2.65	5.80	8.10	3.36	4.01	3.06	5.01	51.44
1913	3.63	2.35	6.37	7.18	5.41	1.71	3.52	4.41	2.96	5.16	1.90	2.92	47.02
1914	4.04	2.81	2.19	3.92	1.11	1.59	7.60	3.15	0.65	2.09	1.72	5.83	36.70
1915	5.18	6.48	1.59	3.47	5.21	5.56	2.40	5.97	0.38	2.58	1.27	3.56	43.65
1916	1.85	3.38	3.87	2.52	2.32	4.55	6.86	4.06	1.69	2.18	1.69	2.16	53.37
1917	3.71	2.00	5.56	2.54	2.81	5.46	6.14	4.35	4.06	6.73	0.91	2.08	46.35
1918	4.55	1.42	2.44	4.73	2.98	3.19	1.37	2.45	3.37	0.88	1.53	3.99	32.70
1919	3.63	3.41	5.19	4.37	5.66	3.22	13.55	5.12	2.52	3.16	5.47	4.15	59.45
1920	2.73	3.35	4.54	4.54	3.57	5.78	5.12	9.62	5.85	0.45	4.48	4.43	54.27
1921	2.48	2.58	2.70	3.78	3.66	2.31	4.10	6.63	3.41	1.20	0.66	3.24	39.75
1922	2.88	3.42	5.35	1.50	2.72	4.87	3.68	3.37	1.26	1.40	3.63	3.23	34.31
1923	4.47	2.94	4.08	4.49	2.32	1.05	6.34	3.64	5.13	3.45	2.66	3.83	44.40
1924	4.25	4.42	3.00	5.33	5.90	7.38	3.40	4.46	5.61	0.06	2.03	2.36	48.20
1925	4.20	2.42	3.19	2.95	2.38	1.29	4.80	2.03	1.54	5.90	4.02	1.27	35.99
1926	3.42	4.09	2.04	1.76	2.98	2.50	8.17	2.88	5.70	3.62	3.56	3.25	43.97
1927	2.44	2.59	1.81	2.65	2.28	2.06	6.51	7.42	2.94	5.78	5.30	4.38	47.18
1928	2.62	4.51	2.32	5.47	2.61	7.39	6.88	8.97	4.74	1.32	1.45	2.64	50.92
1929	2.90	4.18	2.29	6.94	2.75	3.41	1.08	4.79	6.33	4.68	3.42	3.48	46.25
1930	3.36	3.04	2.71	1.75	3.13	2.09	2.72	1.86	5.45	1.14	1.80	2.50	31.55
1931	2.35	1.80	4.26	2.65	4.54	4.60	5.59	9.07	1.29	2.09	1.07	2.29	41.60
1932	6.02	2.15	6.87	1.48	4.02	4.91	1						

MONTHLY AND SEASONAL SNOWFALL

WILMINGTON, DELAWARE
NEW CASTLE COUNTY AIRPORT
1954

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1899-1900	0	0	0	0	0	0.5	1.5	8.5	6.0	0	0	0	16.5
1900-1901	0	0	0	0	0	0.5	10.0	3.0	T	0	0	0	13.5
1901-1902	0	0	0	0	2.0	1.0	8.0	4.5	3.5	0	0	0	19.0
1902-1903	0	0	0	0	0	5.0	5.0	4.0	0	0	0	0	14.0
1903-1904	0	0	0	T	T	2.0	6.1	4.4	5.0	0	0	0	17.5
1904-1905	0	0	0	0	T	13.0	16.3	9.3	0.5	T	0	0	39.1
1905-1906	0	0	0	0	0	3.0	0.8	3.7	11.5	0	0	0	19.0
1906-1907	0	0	0	0	0.5	T	7.7	24.5	12.0	T	0	0	44.7
1907-1908	0	0	0	0	0	5.0	9.0	7.0	2.0	0	0	0	23.0
1908-1909	0	0	0	0	2.0	4.0	4.5	2.0	5.5	T	0	0	18.0
1909-1910	0	0	0	0	0.5	23.5	11.0	2.0	1.0	T	0	0	38.0
1910-1911	0	0	0	0	0	12.5	4.0	6.5	3.5	T	0	0	26.5
1911-1912	0	0	0	0	0	T	16.5	0.8	7.0	0	0	0	24.3
1912-1913	0	0	0	0	0.5	12.0	T	1.5	0	0	0	0	14.0
1913-1914	0	0	0	0	0	0.7	13.0	13.3	0	0	0	0	27.0
1914-1915	0	0	0	0	0	1.5	2.0	2.1	10.2	12.0	0	0	27.8
1915-1916	0	0	0	0	T	6.0	1.4	5.7	6.0	6.7	0	0	25.8
1916-1917	0	0	0	0	0	T	14.0	4.5	7.4	0.7	5.5	0	32.1
1917-1918	0	0	0	0	1.5	3.7	24.0	2.7	0	T	0	0	31.9
1918-1919	0	0	0	0	0	0.8	0.5	2.0	1.0	T	0	0	4.3
1919-1920	0	0	0	0	0	6.2	2.5	11.2	4.5	T	0	0	24.4
1920-1921	0	0	0	0	0	0.5	1.0	8.2	2.0	3.0	0	0	14.7
1921-1922	0	0	0	0	0	8.0	20.3	6.0	0.8	0	0	0	35.1
1922-1923	0	0	0	0	0	T	2.2	5.0	7.0	0.6	0.5	0	20.7
1923-1924	0	0	0	0	0	1.5	0.2	12.2	1.5	8.0	0	0	23.4
1924-1925	0	0	0	0	0.5	0.5	13.5	T	T	0	0	0	14.5
1925-1926	0	0	0	3.0	0.8	T	3.0	17.9	T	T	0	0	24.7
1926-1927	0	0	0	0	0	4.5	6.7	6.3	T	1.2	0	0	18.7
1927-1928	0	0	0	0	0	6.0	12.0	0.7	2.0	0.8	0	0	21.5
1928-1929	0	0	0	0	0	6.0	1.0	8.7	T	0	0	0	15.7

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1929-1930	0	0	0	0	0.2	2.5	7.0	1.5	T	T	0	0	11.2
1930-1931	0	0	0	0	0	1.2	1.0	0.5	3.0	0	0	0	5.7
1931-1932	0	0	0	0	0.5	T	1.0	T	7.0	T	0	0	8.5
1932-1933	0	0	0	0	0	T	13.0	T	13.0	4.0	0	0	30.0
1933-1934	0	0	0	0	0.5	5.5	T	26.2	12.5	T	0	0	44.7
1934-1935	0	0	0	T	T	0.2	27.0	7.4	1.0	T	0	0	35.6
1935-1936	0	0	0	0	0.8	14.5	4.7	11.0	T	T	0	0	31.0
1936-1937	0	0	0	0	T	0.5	T	5.0	7.5	T	0	0	13.0
1937-1938	0	0	0	T	T	T	1.0	3.5	3.0	T	0	0	7.5
1938-1939	0	0	0	0	8.5	0.3	12.0	T	2.5	T	0	0	23.3
1939-1940	0	0	0	0	T	1.5	4.7	8.1	2.8	2.5	0	0	19.6
1940-1941	0	0	0	2.0	T	5.0	5.5	6.6	9.0	0	0	0	28.1
1941-1942	0	0	0	0	0	T	3.5	2.3	2.2	0	0	0	8.0
1942-1943	0	0	0	0	0	5.0	5.1	1.0	8.0	T	0	0	19.1
1943-1944	0	0	0	0	T	0	2.5	3.7	9.5	1.0	0	0	16.7
1944-1945	0	0	0	0	0	4.9	7.0	6.5	0	0	0	0	18.4
1945-1946	0	0	0	0	T	10.5	1.0	2.0	0	0	0	0	13.5
1946-1947	0	0	0	0	0	0.5	4.3	13.5	2.2	0	0	0	20.5
1947-1948	0	0	0	0	T	6.0	13.0	14.8	1.6	0	0	0	35.4
1948-1949	0	0	0	0	0	6.4	4.2	10.1	T	0	0	0	20.7
1949-1950	0	0	0	0	T	T	0.6	0.4	T	T	0	0	1.0
1950-1951	0	0	0	0	0.8	0.7	2.6	0.7	T	0	0	0	4.8
1951-1952	0	0	0	0	T	6.6	4.0	T	6.8	0	0	0	17.4
1952-1953	0	0	0	0	0	2.0	2.8	5.2	1.0	5.5	T	0	16.5
1953-1954	0	0	0	0	11.9	T	11.5	0.6	0.3	T	0	0	24.3
1954-1955	T	0	0	0	T	0.9							

The horizontal lines drawn on the Average Temperature, Total Precipitation, Monthly and Seasonal Degree Days, and Monthly and Seasonal Snowfall tables separate the data according to station location (see Station Location table).

STATION LOCATION

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude	Longitude	Elevation above							REMARKS
						Sea level		Ground					
						Ground	Actual barometer elevation (H _g)	Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	
COOPERATIVE STATIONS													
Wilmington, Delaware 6th & King Streets	4- 1-94	*7-12-16		39° 45'N	75° 33'W	86						35'	Ordinary thermometer exposed outside N window; Sept. '09 max. and min. in use; Exposure thermometers "poor".
Porter Reservoir Wilmington, Delaware 1.9 miles NNE of P.O.	3- 1-12	Present	2.2 mi. NNE	39° 46'N	75° 33'W	260			3'			3'	Home made shelter in use; C.R. shelter Sept. 1936, good exposure over sod. Pcpn. readings began 7-12-12.
Wilmington, Delaware 10th & King Streets 1 block S of P.O.	*7-12-16	Present	1.9 mi. SSW	39° 45'N	75° 33'W	99						47'	During most of the time this station has been precipitation only.
AIRPORT STATION													
Bellanca Field, New Castle, Delaware. 6.1 miles SSW Wilmington P.O.	*4-20-31	*6- 1934	6 mi. SSW	39° 40'N	75° 36'W								Airway Observations telephoned to WBAS, Camden, New Jersey. Observational records not available.
DuPont Airport, Wilmington, Delaware 3 miles WNW Wilmington P.O.	4-27-42	12- 8-42	6.8 mi. N	39° 46'N	75° 36'W								WBAS 7-9-42 to 12-8-42. Observational records not available.
New Castle County Air- port Tower, Wilmington, Delaware. 5.6 miles SW of P.O.	5- 9-47	11- 6-47	5.6 mi. SSW	39° 40'N	75° 36'W			75					Airway Obs. by County Tower employees. Ceiling, visibility and wind only.
New Castle County Air- port, Administration Bldg., Wilmington, Del. 5.6 miles SW of P.O.	11- 7-47	12- 5-47	125 yds. SW	39° 40'N	75° 36'W	73	80	75	5	5		3	Wind instruments of location No. 6 used. No barometer observations made at this location.
New Castle County Air- port, Terminal Building Wilmington, Del. 5.6 miles SW of P.O.	12- 5-47	Present	150 ft. NE	39° 40'N	75° 36'W	73	80	34	5	5		4-	Barometer readings started January 16, 1948. Exposure of instruments good.

* Exact dates doubtful
Through December 1931, WBO Baltimore, the Section Center, combined the temperature records at Porter Reservoir and the precipitation records from location No. 3 into a Wilmington report. WBAS, Wilmington has used only data from location No. 1 and location No. 2 as official Wilmington data.

Data considered official for local records and for the Local Climatological Summary obtained as follows:
Location No. 1 - Temperature April 1894 - February 1912, Precipitation April 1894 - July, 1912.
Location No. 2 - Temperature March 1912 - December 1947, Precipitation July 1912 - December 1947.
Location No. 8 - All elements beginning January 1, 1948.