

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

# LOCAL CLIMATOLOGICAL SUMMARY

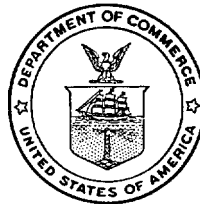
WITH COMPARATIVE DATA

1949

WILMINGTON, DELAWARE

Compiled under the direction of

G. C. Anderson



# METEOROLOGICAL DATA FOR THE CURRENT YEAR

WILMINGTON, DELAWARE

1949

Month	Temperature							Degree days	Precipitation						Relative humidity				Wind					Number of days														
	Averages			Extremes					Total	Greatest in 24 hrs.	Date	Snow, Sleet, Hail			1:30 a, E. S. T.	7:30 a, E. S. T.	1:30 p, E. S. T.	7:30 p, E. S. T.	Average hourly speed	Prevailing direction	Fastest mile			Percent of possible sunshine	Average sky cover sunrise to sunset	Sunrise to sunset			Precipitation .01 inch or more	Snow, Sleet, Hail 1.0 or more	Thunderstorms	Heavy fog	Max. temp.		Min. temp.			
	Daily maximum	Daily minimum	Monthly	Highest	Date	Lowest	Date					Total	Greatest in 24 hrs.	Date							Total	Greatest in 24 hrs.	Date			Speed	Direction	Date					Clear	Partly cloudy	Cloudy	Clear	Partly cloudy	Cloudy
JAN	46.8	31.5	39.2	64	19	19	30	805	5.55	1.28	5-6	4.2	3.4	31	79	81	66	76	9.0	NW	35	WNW	1	7.4	5	4	22	13	1	0	8	0	1	17	0			
FEB	47.8	29.4	38.6	74	15	13	3	741	4.18	0.78	15-20	10.1	5.1	10-11	77	78	63	73	9.2	WNW	37	WNW	28	5.9	9	5	14	12	0	0	5	0	1	19	0			
MAR	53.1	33.2	43.2	80	27	19	19	681	3.00	1.05	22-23	T	T	1+	72	72	51	63	11.9	NW	38	NW	1	5.4	11	9	11	11	0	0	0	0	0	1	18	0		
APR	62.3	41.6	52.0	83	15	33	2	394	2.69	0.65	13	0.0	0.0	0	74	74	49	60	10.2	WNW	32	W	6	5.9	8	8	8	8	0	0	0	0	0	0	0	0		
MAY	74.1	51.7	62.9	89	6	42	30	122	4.10	1.65	2-3	0.0	0.0	0	89	83	55	71	9.1	SSE	30	WNW	22	6.6	4	13	14	11	0	0	0	0	0	0	0	0	0	
JUN	83.6	62.2	72.9	95	26	48	3	13	0.98	0.46	16	0.0	0.0	0	88	81	53	70	9.1	SSE	26	SE	17	5.5	7	13	10	10	0	0	4	6	0	0	0	0	0	
JUL	88.4	69.0	78.7	100	5	59	1	0	6.16	2.33	5-6	0.0	0.0	0	90	83	59	74	6.0	WNW	33	NW	5	6.0	15	15	10	10	0	0	0	0	0	0	0	0	0	
AUG	85.7	64.5	75.1	96	11	48	20	3	3.55	1.08	31	0.0	0.0	0	90	83	55	72	6.0	WNW	25	SSW	31	6.0	11	9	15	13	0	0	0	0	0	0	0	0	0	0
SEP	74.6	53.9	64.2	87	5	41	26	87	3.08	1.33	22-23	0.0	0.0	0	88	86	54	74	6.0	WNW	23	WSW	18	5.3	12	8	12	10	0	0	0	0	0	0	0	0	0	0
OCT	69.8	50.9	60.4	86	11	32	28	184	3.63	1.13	22-23	0.0	0.0	0	83	84	58	75	6.9	NE	22	WSW	12	5.3	11	8	16	10	0	0	0	0	0	0	0	1	0	
NOV	54.6	34.4	44.5	73	11	20	26	613	1.15	0.44	22-23	T	T	27	78	80	50	72	8.2	NW	26	W	2	5.3	12	7	11	12	0	0	0	0	0	12	0			
DEC	46.9	28.1	37.5	64	27	15	17	854	2.90	0.76	12-13	T	T	7+	77	77	59	71	6.4	NW	27	W	22	5.5	6	6	13	7	0	0	6	0	0	23	0			
Year	65.6	45.9	55.8	100	JUL 5	FEB 13	FEB 3	4497	40.97	2.32	JUL 5-6	14.3	5.1	FEB 10-11	82	80	56	71	8.5	NW	38	NW	1	6.0	105	100	160	123	3	24	44	29	2	90	0			

Data entered in column headed "Fastest Mile" is the fastest mile observed. This station is not equipped with automatic recording wind instruments.

# MEANS AND EXTREMES FOR PERIOD OF RECORD

Month	Temperature							Mean degree days	Precipitation										Relative humidity				Wind					Mean number of days										
	Means			Extremes					Mean total	Maximum monthly	Year	Minimum monthly	Year	Snow, Sleet, Hail			1:30 a, E. S. T.	7:30 a, E. S. T.	1:30 p, E. S. T.	7:30 p, E. S. T.	Mean hourly speed	Prevailing direction	Fastest mile			Pct of poss. sunshine	Average sky cover sunrise to sunset	Sunrise to sunset			Precipitation .01 inch or more	Snow, Sleet, Hail 1.0 or more	Thunderstorms	Heavy fog	Max. temp.		Min. temp.	
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year							Mean total	Maximum monthly	Year							Maximum in 24 hrs.	Year	Mean total			Maximum monthly	Year	Maximum in 24 hrs.					Year	Speed	Direction	Year
(a)	39.6	25.0	32.4	64	1949	2	1948	1018	4.80	5.55	1949	4.05	1948	1.56	1948	12.4	13.0	1948	9.7	1948	8.6	1948	77	77	64	74	2	9.0	8	2	2	2	2	2	2	2	2	
J	44.0	32.5	34.8	74	1949	12	1948	862	3.42	4.18	1949	2.66	1948	0.76	1948	10.8	14.8	1948	9.2	1948	78	78	64	72	2	9.2	9	9	14	12	0	0	6	0	4	22	0	
F	53.7	32.8	43.3	86	1948	12	1948	681	3.38	3.76	1948	3.00	1949	1.03	1949	0.8	1.6	1948	11.9	1948	75	75	56	66	2	6.0	9	9	10	13	0	0	0	0	1	18	0	
M	61.8	41.2	51.5	83	1949	31	1948	406	2.88	3.07	1948	2.69	1949	1.49	1948	0.0	0.0	0.0	10.2	1948	76	74	53	62	2	10.2	6	10	14	9	0	0	1	3	0	2	0	
A	72.6	51.7	62.2	90	1948	39	1948	139	5.72	7.35	1948	4.10	1949	1.83	1948	0.0	0.0	0.0	9.1	1948	88	82	58	72	2	9.1	8	12	14	14	0	0	6	2	0	0	0	
M	82.2	61.3	71.8	95	1948	47	1948	12	3.12	5.25	1948	0.98	1949	2.08	1948	0.0	0.0	0.0	9.1	1948	89	82	58	73	2	9.1	8	12	12	10	0	0	8	4	5	0	0	
J	87.0	67.4	77.2	100	1949	56	1948	0	3.66	6.16	1949	0.0	1949	2.32	1949	0.0	0.0	0.0	8.7	1948	90	83	58	74	2	6.0	5	14	12	10	0	0	5	4	10	0	0	
J	84.8	64.0	74.4	99	1948	48	1949	2	4.06	4.58	1949	3.55	1949	1.48	1948	0.0	0.0	0.0	6.0	1948	92	86	57	74	2	6.0	8	9	14	11	0	0	6	4	8	0	0	
A	76.4	54.6	65.5	90	1948	41	1949	71	2.48	3.08	1949	1.87	1948	1.32	1949	0.0	0.0	0.0	6.0	1948	85	86	54	74	2	6.0	11	9	10	10	0	0	2	4	0	0	0	
S	66.9	47.6	57.3	86	1949	29	1948	261	2.44	3.63	1949	1.25	1948	1.13	1949	0.0	0.0	0.0	6.9	1948	82	84	57	74	2	6.9	10	6	15	10	0	0	4	0	0	1	0	
O	56.8	37.2	47.0	79	1948	20	1949	540	2.98	4.82	1948	1.15	1949	1.47	1948	T	T	1949	8.2	1949	82	84	56	74	2	8.2	10	6	11	11	0	0	1	6	0	0	8	0
N	45.8	28.0	36.9	64	1949	7	1948	873	4.08	5.25	1948	2.90	1949	1.99	1948	3.2	6.4	1948	6.4	1948	78	79	59	70	2	6.4	8	9	14	11	0	0	6	0	2	22	0	
Year	64.3	44.7	54.5	100	1949	2	1948	4865	43.02	7.35	1948	0.98	1949	2.32	1949	25.0	14.8	1948	9.7	1948	83	81	58	72	2	8.5	86	117	162	133	4	31	53	23	13	97	0	

(a) Length of record, years.  
# Less than 1.

MONTHLY AND SEASONAL DEGREE DAYS

Table with 14 columns: Season, July, Aug., Sept., Oct., Nov., Dec., Jan., Feb., Mar., Apr., May, June, Total. Contains data for 1947-1948 and 1948-1949.

Table with 14 columns: Season, July, Aug., Sept., Oct., Nov., Dec., Jan., Feb., Mar., Apr., May, June, Total. Contains data for 1947-1948 and 1948-1949.

AVERAGE TEMPERATURE

TOTAL PRECIPITATION

Table with 13 columns: Year, Jan., Feb., Mar., Apr., May, June, July, Aug., Sept., Oct., Nov., Dec., An'l. Lists average temperature by month for each year from 1900 to 1949.

Table with 13 columns: Year, Jan., Feb., Mar., Apr., May, June, July, Aug., Sept., Oct., Nov., Dec., Annual. Lists total precipitation by month for each year from 1900 to 1949.

# MONTHLY AND SEASONAL SNOWFALL

WILMINGTON, DELAWARE

1949

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1899-1900	0.0	0.0	0.0	0.0	0.0	0.5	1.5	8.5	6.0	0.0	0.0	0.0	16.5
1900-1901	0.0	0.0	0.0	0.0	0.0	0.5	10.0	3.0	T	0.0	0.0	0.0	13.5
1901-1902	0.0	0.0	0.0	0.0	2.0	1.0	8.0	4.5	3.5	0.0	0.0	0.0	19.0
1902-1903	0.0	0.0	0.0	0.0	0.0	5.0	5.0	4.0	0.0	0.0	0.0	0.0	14.0
1903-1904	0.0	0.0	0.0	T	T	2.0	6.1	4.4	5.0	0.0	0.0	0.0	17.5
1904-1905	0.0	0.0	0.0	0.0	0.0	T	13.0	16.3	9.3	0.5	T	0.0	39.1
1905-1906	0.0	0.0	0.0	0.0	0.0	3.0	0.8	3.7	11.5	0.0	0.0	0.0	19.0
1906-1907	0.0	0.0	0.0	0.0	0.5	T	7.7	24.5	12.0	T	0.0	0.0	44.7
1907-1908	0.0	0.0	0.0	0.0	0.0	5.0	9.0	7.0	2.0	0.0	0.0	0.0	23.0
1908-1909	0.0	0.0	0.0	0.0	2.0	4.0	4.5	2.0	5.5	T	0.0	0.0	18.0
1909-1910	0.0	0.0	0.0	0.0	0.5	23.5	11.0	2.0	1.0	T	0.0	0.0	38.0
1910-1911	0.0	0.0	0.0	0.0	0.0	12.5	4.0	6.5	3.5	T	0.0	0.0	26.5
1911-1912	0.0	0.0	0.0	0.0	0.0	T	16.5	0.8	7.0	0.0	0.0	0.0	24.3
1912-1913	0.0	0.0	0.0	0.0	0.5	12.0	T	1.5	0.0	0.0	0.0	0.0	14.0
1913-1914	0.0	0.0	0.0	0.0	0.0	0.0	0.7	13.0	13.3	0.0	0.0	0.0	27.0
1914-1915	0.0	0.0	0.0	0.0	0.0	1.5	2.0	2.1	10.2	12.0	0.0	0.0	27.8
1915-1916	0.0	0.0	0.0	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	0.0	0.0	0.0	T	14.0	4.5	7.4	0.7	5.5	0.0	32.1
1917-1918	0.0	0.0	0.0	0.0	1.5	3.7	24.0	2.7	0.0	T	0.0	0.0	31.9
1918-1919	0.0	0.0	0.0	0.0	0.0	0.8	0.5	2.0	1.0	T	0.0	0.0	4.3
1919-1920	0.0	0.0	0.0	0.0	0.0	6.2	2.5	11.2	4.5	T	0.0	0.0	24.4
1920-1921	0.0	0.0	0.0	0.0	0.0	0.5	1.0	8.2	2.0	3.0	0.0	0.0	14.7
1921-1922	0.0	0.0	0.0	0.0	0.0	8.0	20.3	6.0	0.8	0.0	0.0	0.0	35.1
1922-1923	0.0	0.0	0.0	0.0	0.0	T	2.2	5.0	7.0	6.0	0.5	0.0	20.7
1923-1924	0.0	0.0	0.0	0.0	0.0	1.5	0.2	12.2	1.5	8.0	0.0	0.0	23.4
1924-1925	0.0	0.0	0.0	0.0	0.5	0.5	13.5	T	T	0.0	0.0	0.0	14.5
1925-1926	0.0	0.0	0.0	3.0	0.8	T	3.0	17.9	T	T	0.0	0.0	24.7
1926-1927	0.0	0.0	0.0	0.0	0.0	4.5	6.7	6.3	T	1.2	0.0	0.0	18.7
1927-1928	0.0	0.0	0.0	0.0	T	6.0	12.0	0.7	2.0	0.8	0.0	0.0	21.5
1928-1929	0.0	0.0	0.0	0.0	T	6.0	1.0	8.7	T	0.0	0.0	0.0	15.7

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1929-1930	0.0	0.0	0.0	0.0	0.2	2.5	7.0	1.5	T	T	0.0	0.0	11.2
1930-1931	0.0	0.0	0.0	0.0	T	1.2	1.0	0.5	3.0	0.0	0.0	0.0	5.7
1931-1932	0.0	0.0	0.0	0.0	0.5	T	1.0	T	7.0	T	0.0	0.0	8.5
1932-1933	0.0	0.0	0.0	0.0	T	13.0	T	13.0	4.0	0.0	0.0	0.0	30.0
1933-1934	0.0	0.0	0.0	0.0	0.5	5.5	T	26.2	12.5	T	0.0	0.0	44.7
1934-1935	0.0	0.0	0.0	0.0	T	0.2	27.0	7.4	1.0	T	0.0	0.0	35.6
1935-1936	0.0	0.0	0.0	0.0	0.8	14.5	4.7	11.0	T	T	0.0	0.0	31.0
1936-1937	0.0	0.0	0.0	0.0	T	0.5	T	5.0	7.5	T	0.0	0.0	13.0
1937-1938	0.0	0.0	0.0	0.0	T	T	1.0	3.5	3.0	T	0.0	0.0	7.5
1938-1939	0.0	0.0	0.0	0.0	8.5	0.3	12.0	T	2.5	T	0.0	0.0	23.3
1939-1940	0.0	0.0	0.0	0.0	T	1.5	4.7	8.1	2.8	2.5	0.0	0.0	19.6
1940-1941	0.0	0.0	0.0	2.0	T	5.0	5.5	6.6	9.0	0.0	0.0	0.0	28.1
1941-1942	0.0	0.0	0.0	0.0	0.0	T	3.5	2.3	2.2	0.0	0.0	0.0	8.0
1942-1943	0.0	0.0	0.0	0.0	0.0	5.0	5.1	1.0	8.0	T	0.0	0.0	19.1
1943-1944	0.0	0.0	0.0	0.0	T	0.0	2.5	3.7	9.5	1.0	0.0	0.0	16.7
1944-1945	0.0	0.0	0.0	0.0	T	4.9	7.0	6.5	0.0	0.0	0.0	0.0	18.4
1945-1946	0.0	0.0	0.0	0.0	T	10.5	1.0	2.0	0.0	0.0	0.0	0.0	13.5
1946-1947	0.0	0.0	0.0	0.0	0.0	0.5	4.3	13.5	2.2	0.0	0.0	0.0	20.5
1947-1948	0.0	0.0	0.0	0.0	T	6.0	13.0	14.8	1.6	0.0	0.0	0.0	35.4
1948-1949	0.0	0.0	0.0	0.0	0.0	6.4	4.2	10.1	T	0.0	0.0	0.0	20.7

### STATION HISTORY

In April 1894 a Cooperative Station was established at the Municipal Building, Wilmington, Delaware. The station was operated by the Wilmington Water Company. Ground elevation 99 feet. Rain gage exposure on roof. Thermometer shelter on ground, exposure poor. In March 1912 a second Cooperative Station was opened by the Water Company at Porter Reservoir, approximately two miles NE of City Hall. Ground elevation 260 feet. Exposure of rain gage and thermometer shelter good, over sod with no obstructions. Observations continue at each location.

A first order Weather Bureau Station was opened November 7, 1947, in the Administration Building, New Castle County Airport. On December 5, 1947, the

office was moved about fifty yards to the Terminal Building with no change in Instrumental exposure. The rain gage and thermometer shelter are over sod, the wind instruments are 33.7 feet above the ground, there are no obstructions and the instrumental exposure is good. The station elevation is 73 feet. The Airport is situated in level country sloping gently to the Delaware River, three miles to the east, and to a swamp two miles to the west. The station is four miles SSW of the Municipal Building in downtown Wilmington and approximately the same distance south of Porter Reservoir.

### REFERENCE NOTES

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation and snowfall in inches; wind movement in miles per hour; and relative humidity in percent.

Sky cover is based on 0 for no clouds or obstructions to 10 for complete sky cover. Degree days are based on daily average temperatures of 65°F. Sleet and hail were included in snowfall totals, beginning with July 1948.

As of January 1, 1949, dewpoint values below 32°F, and relative humidity values at temperatures below 32°F, are expressed with respect to water rather than with respect to ice, as used prior to that date. Therefore, these hygrometric values before and after January 1, 1949, cannot accurately be combined without necessary conversion.

Heavy fog in the Means and Extremes Table includes data referred to at various times in the past as "Dense" or "Thick". The upper visibility limit for heavy fog is 1/4 mile.

Below zero temperatures are preceded by a minus sign.

# Less than one day.

- No record.

+ Also on other dates, months, or years.

T Trace, an amount too small to measure.

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