

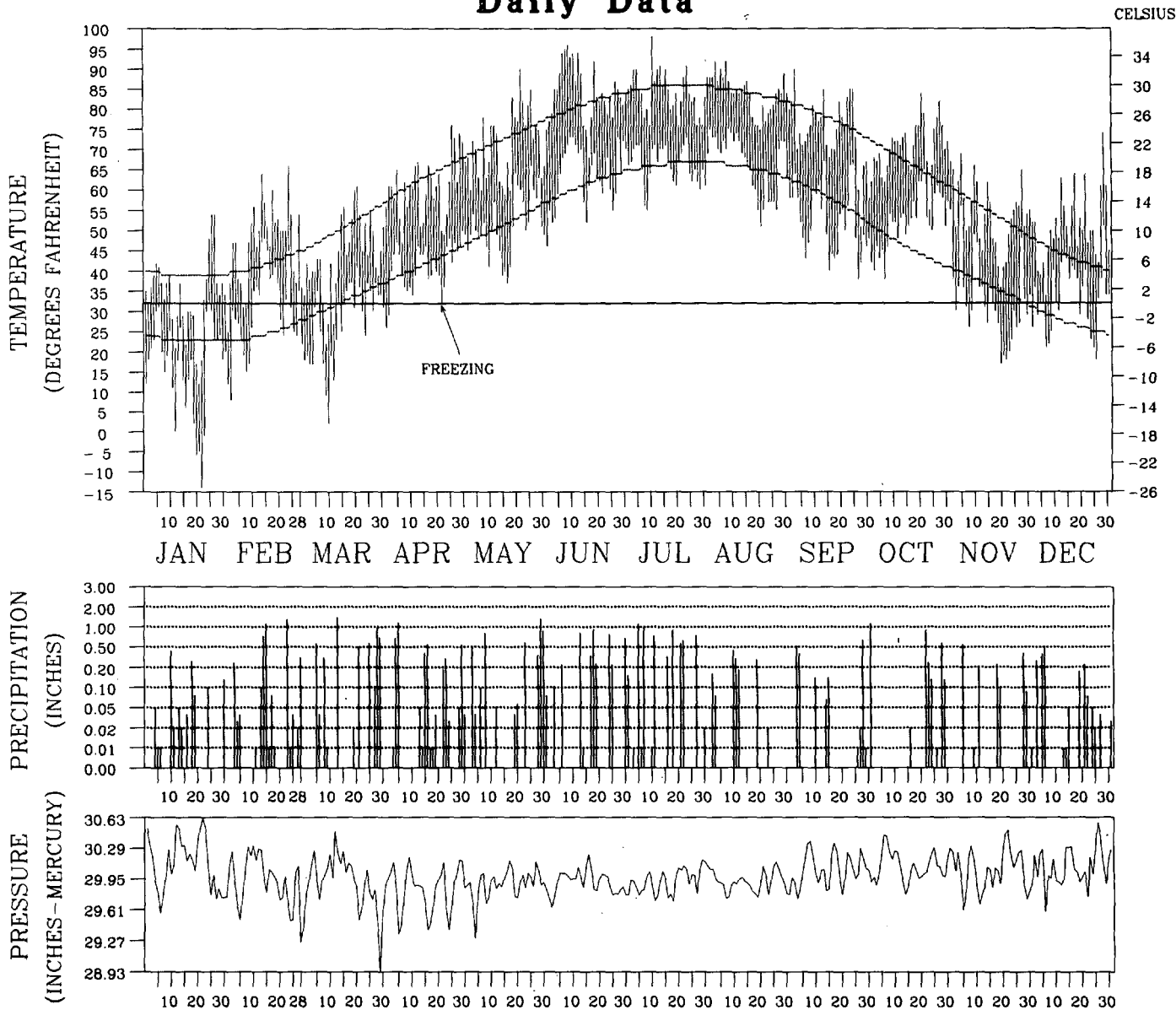
# 1984 LOCAL CLIMATOLOGICAL DATA

## ANNUAL SUMMARY WITH COMPARATIVE DATA

### WILMINGTON, DELAWARE



### Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)  
 PRECIPITATION IS MEASURED IN INCHES. SCALE IS NON-LINEAR  
 STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

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**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

*Kenneth D. Walden*  
 DIRECTOR  
 NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 1984

WILMINGTON, DELAWARE

LATITUDE: 39°40' N LONGITUDE: 75°36' W ELEVATION: FT. (grd) 74 (msl) 80 TIME ZONE: EASTERN WBAN: 13781

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F:</b>													
Averages													
-Daily Maximum	33.6	47.1	44.0	60.7	71.2	84.3	84.2	84.1	75.0	70.3	54.0	51.0	63.3
-Daily Minimum	16.0	30.1	27.2	40.7	51.1	63.2	66.1	66.3	52.3	52.0	32.6	33.2	44.2
-Monthly	24.8	38.6	35.6	50.7	61.2	73.8	75.2	75.2	63.7	61.2	43.3	42.1	53.8
-Monthly Dewpt.	17.1	29.5	24.3	38.4	48.1	59.8	64.0	65.9	55.4	53.7	33.3	33.6	43.6
Extremes													
-Highest	54	66	61	76	90	96	98	92	90	84	69	74	98
-Date	27	24	21	26	22	9	11	8	3	21	5	29	JUL 11
-Lowest	-14	8	2	26	37	46	55	51	38	38	17	18	-14
-Date	22	2	10	1	17	1	9	21	27	7	20	26	JAN 22
<b>DEGREE DAYS BASE 65 °F:</b>													
Heating	1240	758	904	422	162	5	0	2	113	149	641	701	5097
Cooling	0	0	0	0	50	276	321	327	80	34	0	0	1088
<b>% OF POSSIBLE SUNSHINE</b>													
<b>AVG. SKY COVER (tenths)</b>													
Sunrise - Sunset	6.7	7.6	6.8	7.1	7.5	5.8	6.5	5.3	5.3	7.5	5.5	7.5	6.6
Midnight - Midnight	6.1	6.7	6.2	6.9	6.8	5.4	6.2	5.4	4.8	7.2	4.9	7.0	6.1
<b>NUMBER OF DAYS:</b>													
Sunrise to Sunset													
-Clear	7	4	6	7	2	10	7	12	11	4	13	6	89
-Partly Cloudy	7	7	9	5	13	9	9	7	9	9	4	5	93
-Cloudy	17	18	16	18	16	11	15	12	10	18	13	20	184
Precipitation													
.01 inches or more	12	15	11	16	12	10	13	7	9	8	7	14	134
Snow, Ice pellets													
1.0 inches or more	4	0	1	0	0	0	0	0	0	0	0	0	5
Thunderstorms													
	0	0	1	5	5	7	7	4	2	1	0	0	32
Heavy Fog, visibility													
1/4 mile or less	3	8	2	1	3	1	0	2	0	5	3	7	35
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	7	7	3	1	0	0	0	19
32° and below	12	3	4	0	0	0	0	0	0	0	0	0	19
-Minimum													
32° and below	31	16	20	3	0	0	0	0	0	0	18	14	102
0° and below	5	0	0	0	0	0	0	0	0	0	0	0	5
<b>AVG. STATION PRESS. (mb)</b>													
	1019.6	1012.9	1012.9	1010.2	1012.2	1012.9	1013.5	1012.9	1018.0	1019.3	1017.6	1018.6	1014.9
<b>RELATIVE HUMIDITY (%)</b>													
Hour 01	76	78	73	78	73	74	80	85	89	89	77	79	79
Hour 07	77	80	76	78	71	71	78	85	90	90	83	80	80
Hour 13 (Local Time)	61	63	55	54	55	52	57	62	60	65	55	65	59
Hour 19	69	69	62	60	59	59	63	70	72	77	65	72	66
<b>PRECIPITATION (inches):</b>													
Water Equivalent													
-Total	1.25	4.27	5.40	4.24	5.03	4.54	6.53	1.56	2.02	3.31	1.63	1.94	41.72
-Greatest (24 hrs)	0.46	1.88	1.48	1.74	2.25	1.28	1.18	0.79	0.93	1.19	0.57	0.92	2.25
-Date	10-11	14-15	13	4-5	29-30	17-18	5-6	10-11	3-4	1	5	5-6	MAY 29-30
Snow, Ice pellets													
-Total	9.7	T	5.2	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.3	15.2
-Greatest (24 hrs)	5.1	T	4.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.3	5.1
-Date	18-19	27	8-9	22							19	5	JAN 18-19
<b>WIND:</b>													
Resultant													
-Direction (!!!)	317	306	334	320	264	251	228	302	341	009	294	300	300
-Speed (mph)	3.5	3.5	5.0	1.4	3.6	2.2	2.8	1.3	1.6	0.8	4.0	2.2	2.2
Average Speed (mph)	7.6	10.5	12.1	10.4	9.5	7.3	7.7	6.9	7.3	7.0	9.4	7.5	8.6
Fastest Obs. 1 Min.													
-Direction (!!!)	31	05	06	15	30	26	22	32	29	34	17	31	30
-Speed (mph)	23	31	43	28	46	23	29	18	25	22	25	23	46
-Date	31	28	29	5	8	6	7	31	3	2	28	25	MAY 8
PEAK GUST													
-direction (!!!)	NW	NW	NE	SW	NW	NW	NW	NW	W	SW	SE	NW	NW
-Speed (mph)	38	46	58	44	71	38	55	26	45	31	41	35	71
-Date	31	29	29	5	8	6	5	31	3	3	28	7	MAY 8

# NORMALS, MEANS, AND EXTREMES

## WILMINGTON, DELAWARE

LATITUDE: 39°40'N	LONGITUDE: 75°36'W	ELEVATION: FT. (grd) 74 (msl) 80								TIME ZONE: EASTERN				WBAN: 13781
	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F:</b>														
Normals														
-Daily Maximum		39.2	41.8	50.9	63.0	72.7	81.2	85.6	84.1	77.8	66.7	54.8	43.6	63.5
-Daily Minimum		23.2	24.6	32.6	41.8	51.7	61.2	66.3	65.4	58.0	45.9	36.4	27.3	44.5
-Monthly		31.2	33.2	41.8	52.4	62.2	71.2	76.0	74.8	67.9	56.3	45.6	35.5	54.0
Extremes														
-Record Highest	37	75	74	86	91	95	99	102	101	100	91	85	74	102
-Year		1950	1954	1948	1974	1962	1952	1966	1955	1983	1951	1950	1984	JUL 1966
-Record Lowest	37	-14	-6	2	18	30	41	50	43	36	24	14	-7	-14
-Year		1984	1979	1984	1982	1978	1972	1979	1982	1974	1976	1955	1983	JAN 1984
<b>NORMAL DEGREE DAYS:</b>														
Heating (base 65°F)		1048	890	719	378	130	6	0	0	36	282	582	915	4986
Cooling (base 65°F)		0	0	0	0	43	192	341	304	123	12	0	0	1015
<b>% OF POSSIBLE SUNSHINE</b>														
<b>MEAN SKY COVER (tenths)</b>														
Sunrise - Sunset	37	6.6	6.4	6.5	6.4	6.6	6.0	5.9	5.7	5.6	5.5	6.3	6.6	6.2
<b>MEAN NUMBER OF DAYS:</b>														
Sunrise to Sunset														
-Clear	37	7.3	7.2	7.4	7.3	6.3	7.7	7.9	9.1	10.0	10.8	7.8	7.6	96.4
-Partly Cloudy	37	7.1	7.1	8.3	8.4	10.1	10.6	11.4	10.2	8.2	8.0	8.3	7.4	105.0
-Cloudy	37	16.5	14.0	15.3	14.4	14.6	11.7	11.7	11.7	11.8	12.2	13.9	16.0	163.9
Precipitation														
.01 inches or more	37	10.9	9.5	11.2	10.9	11.7	9.8	9.1	9.2	8.0	7.7	9.5	9.9	117.3
Snow, Ice pellets														
1.0 inches or more	37	2.1	1.5	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.*	0.2	0.9	5.8
Thunderstorms	37	0.2	0.4	1.2	2.4	4.4	5.9	6.0	6.1	2.3	0.8	0.6	0.2	30.6
Heavy Fog Visibility														
1/4 mile or less	37	4.2	3.8	3.0	2.2	2.6	2.1	1.8	2.7	2.7	4.1	3.6	3.9	36.7
Temperature °F														
-Maximum														
90° and above	37	0.0	0.0	0.0	0.*	0.6	3.6	7.9	5.2	1.8	0.*	0.0	0.0	19.2
32° and below	37	7.7	4.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.9	17.3
-Minimum														
32° and below	37	25.8	22.1	15.4	3.2	0.1	0.0	0.0	0.0	0.0	1.6	10.8	22.2	101.2
0° and below	37	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8
<b>AVG. STATION PRESS. (mb)</b>														
	12	1015.6	1015.4	1013.2	1012.3	1012.1	1012.8	1013.0	1014.5	1015.4	1016.5	1015.9	1016.3	1014.4
<b>RELATIVE HUMIDITY (%)</b>														
Hour 01	37	73	72	71	72	79	82	82	84	84	82	77	75	78
Hour 07	37	75	75	73	72	76	78	79	83	85	84	80	76	78
Hour 13 (Local Time)	37	60	57	53	50	53	54	54	56	55	54	56	60	55
Hour 19	37	68	65	62	59	64	65	65	69	71	70	69	69	66
<b>PRECIPITATION (inches):</b>														
Water Equivalent														
-Normal		3.11	2.99	3.87	3.39	3.23	3.51	3.90	4.03	3.59	2.89	3.33	3.54	41.38
-Maximum Monthly	37	8.41	7.02	6.84	6.80	7.38	7.49	7.51	12.09	9.53	6.41	7.84	7.90	12.09
-Year		1978	1979	1983	1983	1983	1972	1958	1955	1960	1971	1972	1969	AUG 1955
-Minimum Monthly	37	0.52	0.83	0.81	1.12	0.22	0.44	0.16	0.25	0.82	0.21	0.49	0.19	0.16
-Year		1981	1980	1966	1963	1964	1954	1955	1972	1970	1963	1976	1955	JUL 1955
-Maximum in 24 hrs	37	2.12	2.29	3.11	2.56	2.35	4.35	6.24	4.11	5.62	3.88	3.83	2.22	6.24
-Year		1978	1966	1978	1961	1968	1972	1952	1971	1960	1966	1956	1969	JUL 1952
Snow, Ice pellets														
-Maximum Monthly	37	17.2	27.5	20.3	2.6	T					2.5	11.9	21.5	27.5
-Year		1966	1979	1958	1982	1963					1979	1953	1966	FEB 1979
-Maximum in 24 hrs	37	11.2	16.5	15.6	1.5	T					2.5	11.9	12.4	16.5
-Year		1966	1979	1958	1982	1963					1979	1953	1966	FEB 1979
<b>WIND:</b>														
Mean Speed (mph)	36	10.0	10.5	11.3	10.6	9.1	8.4	7.8	7.5	7.9	8.3	9.2	9.4	9.2
Prevailing Direction through 1963		WNW	NW	WNW	WNW	S	S	NW	S	S	NW	NW	WNW	S
Fastest Obs. 1 Min.														
-Direction (!!!)	36	29	29	06	29	30	23	27	35	07	20	16	29	20
-speed (MPH)	36	46	46	43	45	46	40	48	46	40	58	46	44	58
-year		1957	1956	1984	1963	1984	1960	1963	1971	1956	1954	1950	1962	OCT 1954

(!!!) See Reference Notes on Page 6B.  
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PRECIPITATION (inches)

WILMINGTON, DELAWARE

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1955	0.59	2.93	4.86	2.55	1.18	6.34	0.16	12.09	2.27	2.62	1.36	0.19	37.14
1956	2.61	4.21	5.18	2.80	2.12	3.58	7.39	3.58	2.77	3.58	5.94	4.09	47.85
1957	2.30	3.76	2.64	3.73	2.36	3.45	1.33	2.61	6.55	2.51	3.11	4.74	39.09
1958	3.63	4.14	5.39	4.62	3.89	5.17	7.51	7.00	2.91	3.99	2.37	1.25	51.87
1959	1.89	1.80	2.97	2.15	1.34	4.23	5.21	5.75	2.29	4.11	2.99	3.46	38.19
1960	2.86	3.69	1.71	2.93	5.12	1.37	6.18	5.08	9.53	2.85	2.04	2.67	46.03
1961	2.84	3.74	5.19	4.88	2.45	3.10	4.84	3.75	2.33	1.88	2.41	3.03	40.44
1962	2.51	3.26	4.30	3.50	1.61	3.05	1.78	1.87	3.65	1.51	4.87	2.50	34.41
1963	2.05	2.09	4.24	1.12	1.23	3.26	1.65	4.03	3.50	0.21	6.87	1.85	32.10
1964	4.13	3.37	2.20	5.97	0.22	1.02	3.70	1.83	2.77	1.29	1.62	4.70	32.82
1965	2.38	2.17	3.20	1.76	1.41	1.62	3.84	2.04	2.41	1.59	0.94	1.54	24.90
1966	2.82	4.90	0.81	3.16	3.35	0.70	3.09	1.42	8.53	5.17	1.75	3.81	39.51
1967	1.67	1.90	5.45	2.69	3.79	3.01	4.45	11.16	1.16	2.05	2.08	5.24	44.65
1968	2.29	1.52	4.75	1.57	4.78	2.81	1.83	1.17	1.50	3.28	3.92	2.33	31.75
1969	1.68	1.76	1.71	1.58	3.21	3.62	6.48	2.34	6.84	1.47	1.79	7.90	40.38
1970	1.00	2.13	3.61	5.56	0.94	6.16	6.03	2.31	0.82	2.64	4.09	3.02	38.31
1971	2.22	6.29	2.29	2.15	4.51	2.50	3.65	8.38	6.99	6.41	5.52	1.33	52.24
1972	2.50	5.43	2.40	4.47	3.85	7.49	2.07	0.25	1.64	4.20	7.84	5.99	48.13
1973	3.81	3.42	4.02	6.57	5.56	5.19	2.82	2.44	3.02	2.22	0.67	7.31	47.05
1974	2.92	1.73	4.56	3.08	3.96	3.97	1.49	5.11	5.65	1.77	1.19	4.18	39.61
1975	4.23	2.95	4.63	3.03	5.65	6.16	5.53	2.55	6.19	3.06	2.63	3.00	49.61
1976	4.21	1.70	2.25	1.40	5.05	2.14	4.33	2.00	2.11	6.12	0.49	1.79	33.59
1977	2.18	1.09	4.55	3.91	0.96	4.41	1.38	4.82	1.29	3.59	6.14	5.81	40.13
1978	8.41	1.77	5.59	2.16	6.94	3.00	5.53	5.97	2.18	1.48	2.69	5.56	51.28
1979	7.61	7.02	2.61	4.03	3.10	4.01	4.76	6.11	5.94	3.45	3.23	1.44	53.31
1980	2.44	0.83	6.22	4.55	2.40	4.23	3.49	1.09	1.44	3.99	2.41	0.83	33.92
1981	0.52	3.23	1.26	3.54	5.05	4.50	2.52	3.38	3.82	2.84	0.67	3.95	35.28
1982	3.75	2.71	2.87	5.41	3.72	4.70	2.70	4.68	2.30	1.97	3.87	2.39	41.07
1983	2.98	3.55	6.84	6.80	7.38	3.94	2.33	1.29	3.44	3.87	5.48	6.80	54.70
1984	1.25	4.27	5.40	4.24	5.03	4.54	6.53	1.56	2.02	3.31	1.63	1.94	41.72
Record Mean	3.32	3.12	3.75	3.58	3.62	3.82	4.42	4.61	3.60	3.04	3.21	3.47	43.54

See Reference Notes on Page 6B.  
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AVERAGE TEMPERATURE (deg. F)

WILMINGTON, DELAWARE

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1955	31.5	34.1	43.5	54.8	64.8	68.7	81.2	77.9	67.2	58.1	43.3	29.9	54.6
1956	31.8	37.5	38.6	49.9	59.9	71.7	73.4	73.4	64.6	56.8	45.2	41.3	53.7
1957	28.6	37.4	42.2	54.1	62.9	74.2	75.9	73.2	68.7	53.3	46.6	37.9	54.6
1958	30.8	27.3	39.0	53.4	60.7	67.4	76.5	73.0	65.8	55.4	45.8	28.6	52.0
1959	30.9	33.0	41.1	54.3	65.6	72.0	75.4	76.0	70.4	59.5	44.7	38.0	55.1
1960	35.1	35.9	32.8	56.4	60.6	71.0	73.1	74.9	68.0	55.3	45.9	28.4	53.1
1961	25.6	34.7	42.6	48.9	58.9	70.5	75.6	74.0	72.5	56.9	46.7	33.2	53.3
1962	31.2	31.3	41.2	52.2	64.2	71.5	72.6	72.9	63.6	56.7	42.5	30.3	52.5
1963	28.4	27.5	44.1	52.6	60.3	70.8	76.3	71.7	63.7	58.4	48.0	28.4	52.5
1964	33.2	31.6	43.1	49.4	64.3	72.1	75.8	71.5	67.2	52.8	47.6	37.3	53.8
1965	29.0	33.6	38.4	49.3	66.0	70.2	74.5	73.3	69.4	53.6	45.0	37.7	53.3
1966	29.3	31.9	42.9	47.9	60.3	72.5	77.2	74.8	65.3	53.6	46.6	34.8	53.1
1967	36.2	29.4	39.4	51.5	55.4	71.2	74.4	72.8	65.1	54.7	40.7	36.8	52.3
1968	28.0	30.5	44.6	54.1	59.6	71.4	76.7	77.1	69.7	59.0	47.0	34.2	54.3
1969	30.8	33.6	39.6	55.1	64.2	73.4	75.7	75.4	68.2	56.0	44.6	32.7	54.1
1970	24.5	33.5	38.9	51.9	64.8	71.7	76.6	76.7	72.1	60.4	48.5	35.9	54.6
1971	27.4	35.5	40.7	51.1	60.4	73.4	75.9	74.0	71.1	62.9	45.7	42.1	55.0
1972	36.1	32.6	41.3	50.0	62.5	68.6	76.9	75.5	69.6	53.5	45.2	41.6	54.4
1973	35.6	35.5	49.4	54.7	61.4	75.8	78.1	78.1	70.4	59.9	49.1	37.7	57.2
1974	36.2	33.1	44.3	55.5	62.4	70.4	76.7	76.1	66.5	53.2	46.6	38.9	55.0
1975	37.5	35.9	40.6	47.5	65.2	71.5	75.7	76.3	65.4	60.0	51.0	36.2	55.2
1976	27.7	41.2	46.5	54.7	59.9	72.4	74.2	73.7	66.9	52.5	40.4	31.0	53.4
1977	20.8	33.3	47.2	54.4	63.9	68.9	76.4	75.4	69.3	53.4	46.6	33.4	53.6
1978	27.2	22.8	37.6	50.3	60.3	70.6	73.4	77.1	66.7	54.1	46.8	37.2	52.0
1979	31.4	22.1	45.4	50.6	63.8	67.9	75.3	75.0	68.2	55.0	49.6	38.1	53.5
1980	32.4	29.9	40.0	54.6	64.9	68.9	77.7	78.2	71.3	54.8	43.3	33.1	54.1
1981	25.4	37.9	40.2	55.0	62.5	72.3	77.1	73.5	66.9	53.0	45.3	34.2	53.6
1982	24.2	34.2	41.8	50.6	65.0	69.9	77.3	72.0	67.4	56.0	47.5	41.3	53.9
1983	35.2	35.3	45.9	53.1	61.0	71.8	77.6	77.0	69.3	56.9	46.7	32.1	55.2
1984	24.8	38.6	35.6	50.7	61.2	73.8	75.2	75.2	63.7	61.2	43.3	42.1	53.8
Record Mean	32.2	33.1	42.0	52.2	62.7	71.3	76.0	74.2	67.8	56.6	45.7	35.3	54.1
Max	40.0	41.4	51.3	62.7	73.3	81.5	85.6	83.7	77.6	66.5	54.4	43.0	63.4
Min	24.3	24.7	32.6	41.6	52.0	61.0	66.3	64.7	58.1	46.7	36.9	27.5	44.7

See Reference Notes on Page 6B.  
Page 4B

HEATING DEGREE DAYS Base 65 deg. F

WILMINGTON, DELAWARE

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1955-56	0	0	45	226	645	1081	1021	790	810	456	199	13	5286
1956-57	1	1	120	249	589	727	1120	764	703	344	129	16	4763
1957-58	0	0	65	359	544	836	1056	1050	800	347	149	31	5237
1958-59	0	0	64	297	565	1123	1051	890	734	325	103	22	5174
1959-60	0	0	44	256	605	831	920	840	994	279	144	2	4915
1960-61	0	0	18	297	565	1130	1215	843	687	486	203	6	5450
1961-62	0	0	36	250	553	976	1042	940	729	400	122	6	5054
1962-63	0	4	113	266	672	1072	1130	1044	641	370	180	10	5502
1963-64	0	3	104	199	502	1128	982	962	669	467	91	21	5128
1964-65	0	9	49	372	514	854	1108	873	816	467	63	27	5152
1965-66	0	12	40	349	593	839	1103	921	676	507	186	24	5250
1966-67	0	0	84	346	545	931	888	991	788	402	295	5	5275
1967-68	0	0	80	327	722	866	1139	994	626	319	171	6	5250
1968-69	0	0	7	205	532	949	1052	874	780	298	92	1	4790
1969-70	0	0	41	288	606	993	1250	876	803	389	95	1	5342
1970-71	0	0	25	175	487	895	1159	821	746	411	153	3	4875
1971-72	0	2	23	93	585	702	889	935	732	443	105	27	4536
1972-73	0	0	20	356	586	716	902	820	477	322	143	0	4342
1973-74	0	0	15	179	469	839	886	887	635	300	137	7	4354
1974-75	0	0	65	362	553	805	847	808	753	520	84	5	4802
1975-76	0	0	56	177	418	888	1149	681	567	341	178	31	4486
1976-77	0	4	44	387	734	1047	1361	884	546	333	107	32	5479
1977-78	0	1	31	353	550	975	1165	1179	842	433	191	17	5737
1978-79	6	0	60	337	542	854	1037	1197	605	424	89	28	5179
1979-80	4	7	31	318	458	827	1004	1009	768	307	83	35	4851
1980-81	0	0	20	322	645	985	1222	752	763	299	135	4	5147
1981-82	0	0	57	370	585	947	1259	855	715	426	69	12	5295
1982-83	0	14	29	305	519	724	919	822	587	368	163	7	4457
1983-84	0	0	74	275	542	1013	1240	758	904	422	162	5	5395
1984-85	0	2	113	149	641	701							

See Reference Notes on Page 6B.  
Page 5A

COOLING DEGREE DAYS Base 65 deg. F

WILMINGTON, DELAWARE

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	8	73	258	336	330	143	14	0	0	1162
1970	0	0	0	2	97	211	365	371	244	38	0	0	1328
1971	0	0	0	0	16	261	345	287	214	34	16	0	1173
1972	0	0	2	0	35	143	376	334	165	8	0	0	1063
1973	0	0	0	19	42	332	416	413	183	29	0	0	1434
1974	0	0	0	24	64	175	370	355	113	2	6	0	1109
1975	0	0	0	0	97	207	337	355	73	27	5	0	1101
1976	0	0	0	37	25	260	291	278	106	6	0	0	1003
1977	0	0	5	20	80	156	360	328	166	0	5	0	1120
1978	0	0	0	0	48	188	273	388	117	7	0	0	1016
1979	0	0	4	1	57	123	327	324	138	16	0	0	990
1980	0	0	0	0	83	159	400	417	214	10	0	0	1283
1981	0	0	0	9	62	228	381	270	120	3	0	0	1073
1982	0	0	0	2	75	163	391	238	107	32	1	0	1009
1983	0	0	0	17	47	218	398	378	209	29	0	0	1296
1984	0	0	0	0	50	276	321	327	80	34	0	0	1088

See Reference Notes on Page 6B.  
Page 5B

SNOWFALL (inches)

WILMINGTON, DELAWARE

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1955-56	0.0	0.0	0.0	0.0	4.3	0.9	8.7	1.1	12.3	T	0.0	0.0	27.3
1956-57	0.0	0.0	0.0	0.0	T	T	6.5	1.3	1.2	T	0.0	0.0	9.0
1957-58	0.0	0.0	0.0	T	T	11.2	3.5	14.5	20.3	T	0.0	0.0	49.5
1958-59	0.0	0.0	0.0	0.0	T	0.6	3.3	0.4	1.9	1.1	0.0	0.0	7.3
1959-60	0.0	0.0	0.0	0.0	T	3.1	0.2	5.1	13.4	T	0.0	0.0	21.8
1960-61	0.0	0.0	0.0	T	T	13.2	16.5	13.3	1.1	T	0.0	0.0	44.1
1961-62	0.0	0.0	0.0	0.0	3.3	6.4	1.2	8.0	5.2	T	0.0	0.0	24.1
1962-63	0.0	0.0	0.0	0.3	T	8.6	5.2	4.6	0.3	0.0	T	0.0	19.0
1963-64	0.0	0.0	0.0	0.0	T	8.0	6.7	14.9	9.5	T	0.0	0.0	39.1
1964-65	0.0	0.0	0.0	0.0	T	1.6	8.4	1.7	5.8	0.6	0.0	0.0	18.1
1965-66	0.0	0.0	0.0	0.0	0.0	0.0	17.2	10.0	T	T	0.0	0.0	27.2
1966-67	0.0	0.0	0.0	0.0	T	21.5	0.6	18.7	2.7	T	0.0	0.0	43.5
1967-68	0.0	0.0	0.0	0.0	6.8	4.0	1.6	0.9	1.3	0.0	0.0	0.0	14.6
1968-69	0.0	0.0	0.0	0.0	T	0.6	2.9	5.5	7.8	0.0	0.0	0.0	16.8
1969-70	0.0	0.0	0.0	T	0.1	6.8	9.7	1.5	0.4	0.0	0.0	0.0	18.5
1970-71	0.0	0.0	0.0	0.0	0.0	3.2	5.8	0.2	2.4	0.6	0.0	0.0	12.2
1971-72	0.0	0.0	0.0	0.0	T	T	2.1	7.0	0.3	0.1	0.0	0.0	9.5
1972-73	0.0	0.0	0.0	T	T	T	T	1.2	T	T	0.0	0.0	1.2
1973-74	0.0	0.0	0.0	0.0	0.0	6.1	2.4	11.5	T	T	0.0	0.0	20.0
1974-75	0.0	0.0	0.0	0.0	T	T	5.1	4.8	1.1	T	0.0	0.0	11.0
1975-76	0.0	0.0	0.0	0.0	0.0	0.3	4.5	1.7	6.7	T	0.0	0.0	13.2
1976-77	0.0	0.0	0.0	0.0	0.1	3.2	14.5	T	0.0	T	0.0	0.0	17.8
1977-78	0.0	0.0	0.0	0.0	0.4	0.9	16.0	18.4	9.9	T	0.0	0.0	45.6
1978-79	0.0	0.0	0.0	0.0	4.5	T	12.0	27.5	0.2	T	0.0	0.0	44.2
1979-80	0.0	0.0	0.0	2.5	0.0	1.4	6.1	0.8	5.1	0.0	0.0	0.0	15.9
1980-81	0.0	0.0	0.0	0.0	0.5	1.4	6.5	T	3.7	0.0	0.0	0.0	12.1
1981-82	0.0	0.0	0.0	0.0	T	2.8	14.6	4.5	0.4	2.6	0.0	0.0	24.9
1982-83	0.0	0.0	0.0	0.0	T	5.8	T	18.5	0.3	0.5	0.0	0.0	25.1
1983-84	0.0	0.0	0.0	0.0	T	T	9.7	T	5.2	T	0.0	0.0	14.9
1984-85	0.0	0.0	0.0	0.0	T	0.3							
Record													
Mean	0.0	0.0	0.0	0.1	0.9	3.5	6.4	6.3	3.6	0.1	T	0.0	21.0

See Reference Notes on Page 6B.  
Page 6A

REFERENCE NOTES

WILMINGTON, DELAWARE

GENERAL	EXCEPTIONS
T - TRACE AMOUNT.	
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.	NONE
# INDICATES A STATION OR INSTRUMENT RELOCATION.	
SEE STATION LOCATION TABLE ON PAGE 8.	
<b>SPECIFIC</b>	
PAGE 2	
PM - INCLUDES LAST DAY OF PREVIOUS MONTH	
PAGE 3	
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.	
* LESS THAN .05	
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.	
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE	
WIND DIR. - NUMERALS SHOW TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.	
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.	
PAGES 4A, 4B, 6A	
RECORD MEANS ARE FOR ENTIRE PERIOD OF RECORD, REGARDLESS OF LOCATION	

## WILMINGTON, DELAWARE

Delaware is part of the Atlantic Coastal Plain consisting mainly of flat low land with many marshes. Small streams and tidal estuaries comprise the drainage of the State. Wilmington, at the northern end of the State, marks the beginning of low rolling hills extending northward and northwestward into Pennsylvania. The Delaware River, the Delaware Bay, and the Atlantic Ocean are along the eastern boundary of the State. The broad Chesapeake Bay lies 35 miles, or less, to the west of the western boundary of nearly the entire State. These large water areas influence to a considerable extent the climate of the Wilmington, Delaware, region.

Summers are warm and humid, winters are usually mild. During the summer maximum temperatures are usually in the 80-s. The temperature reaches 100 deg on the average of one year in six. During the coldest part of the year, January, the normal daily average temperature is 32 deg. On the average, zero temperatures may be expected one year in four. Most of the winter precipitation falls as rain. Seasonal snowfall has been as little as 1 inch, and as much as 50 inches. Snow is frequently mixed with rain and sleet. Snow seldom remains on the ground more than a few days.

The proximity of large water areas and the inflow of southerly winds cause the relative humidity to be quite high all year. During the summer months the relative humidity is approximately 75 percent. Fog is relatively frequent and may occur in any month. Light southeast winds blowing up the Delaware Bay favor the formation of fog. Light north-northeast winds bring in smoke from Philadelphia and from the heavy industry area located along the Delaware River north of Wilmington.

Rainfall distribution throughout the year is fairly uniform, however, the greatest amounts normally come during the summer months. Mostly, the summer rainfall comes in the form of thunderstorms. Moisture deficiencies for crops occur occasionally, but severe droughts are rare. During the fall, winter, and spring seasons, much of the rainfall comes from Northeasters— storms forming over the southern states, or the South Atlantic and then moving northward along the Atlantic Coast. During the late summer and early fall, hurricanes occasionally cause heavy rainfall, but winds seldom reach hurricane force in Wilmington. Heavy rains occasionally cause minor flooding, but the streams and rivers of northern Delaware are not subject to major flooding. Strong easterly and southeasterly winds sometimes cause high tides in the Delaware Bay and the Delaware River, resulting in the flooding of lowlands and damage to bay front and river front properties.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 29 and the average last occurrence in the spring is April 13.

# STATION LOCATION

WILMINGTON, DELAWARE

Location	Occupied from	Occupied to	Arline distance and direction from previous location	Latitude North	Longitude West	Elevation above										* Type M = AMOS T = AUTOB	Remarks	
						Sea level	Ground											Automatic Observing Equipment *
							Ground at temperature site	Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer			
<b>COOPERATIVE</b>																		
Wilmington, Delaware 6th and King Streets	4- 1-94	7-12-16		39° 45'	75° 33'	86									35'	Ordinary thermometer exposed outside N window; Sept. '09 max. and min. in use, exposure of thermometers poor.		
Porter Reservoir Wilmington, Delaware 1.9 miles NNE of P. O.	3- 1-12	Present		39° 46'	75° 33'	260		3'							3'	Home made shelter in use; C. R. shelter September 1936, good exposure over sod. Precipitation record began 7-12-12.		
Wilmington, Delaware 10th and King Streets 1 block S of P. O.	7-12-16	10-31-58	1.9 mi. SSW	39° 45'	75° 33'	99									47'	Precipitation only most of time.		
<b>AIRPORT</b>																		
Bellanca Field New Castle, Delaware 6.1 miles SSW Wilmington Post Office	4-20-31	6- 7-34		39° 40'	75° 36'													
DuPont Airport Wilmington Delaware 3 miles WNW Wilmington Post Office	4-27-42	12- 8-42	6.8 mi. N	39° 46'	75° 36'													
New Castle County Airport Tower, Wilmington, Delaware, 5.6 miles SW of Post Office	5-19-47	11- 6-47	5.6 mi. SSW	39° 40'	75° 36'		75									Airway Observation by County Tower employees.		
New Castle County Airport, Admn. Bldg.	11- 7-47	12- 5-47	125 yds. SW	39° 40'	75° 36'	73	75	5	5						3	Wind instruments of previous location used.		
New Castle County Airport, Terminal Bldg.	12- 5-47	7-16-56	150 ft. NE	39° 40'	75° 36'	73	34	5	5						4	Exposure of instruments good.		
New Terminal Building New Castle County AP *	7-16-56	Present	7/8 mi. SE	39° 40'	75° 36'	b74	20	s5	s5	NA	NA	5	4	a4	NA	Exposure of instruments excellent. * Name changed to Greater Wilmington Airport in May 1961. a - Commissioned 1,000 feet from thermometer site 4-11-67. b - 78 feet to 4-11-67. s - Standby after 4-11-67.		

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