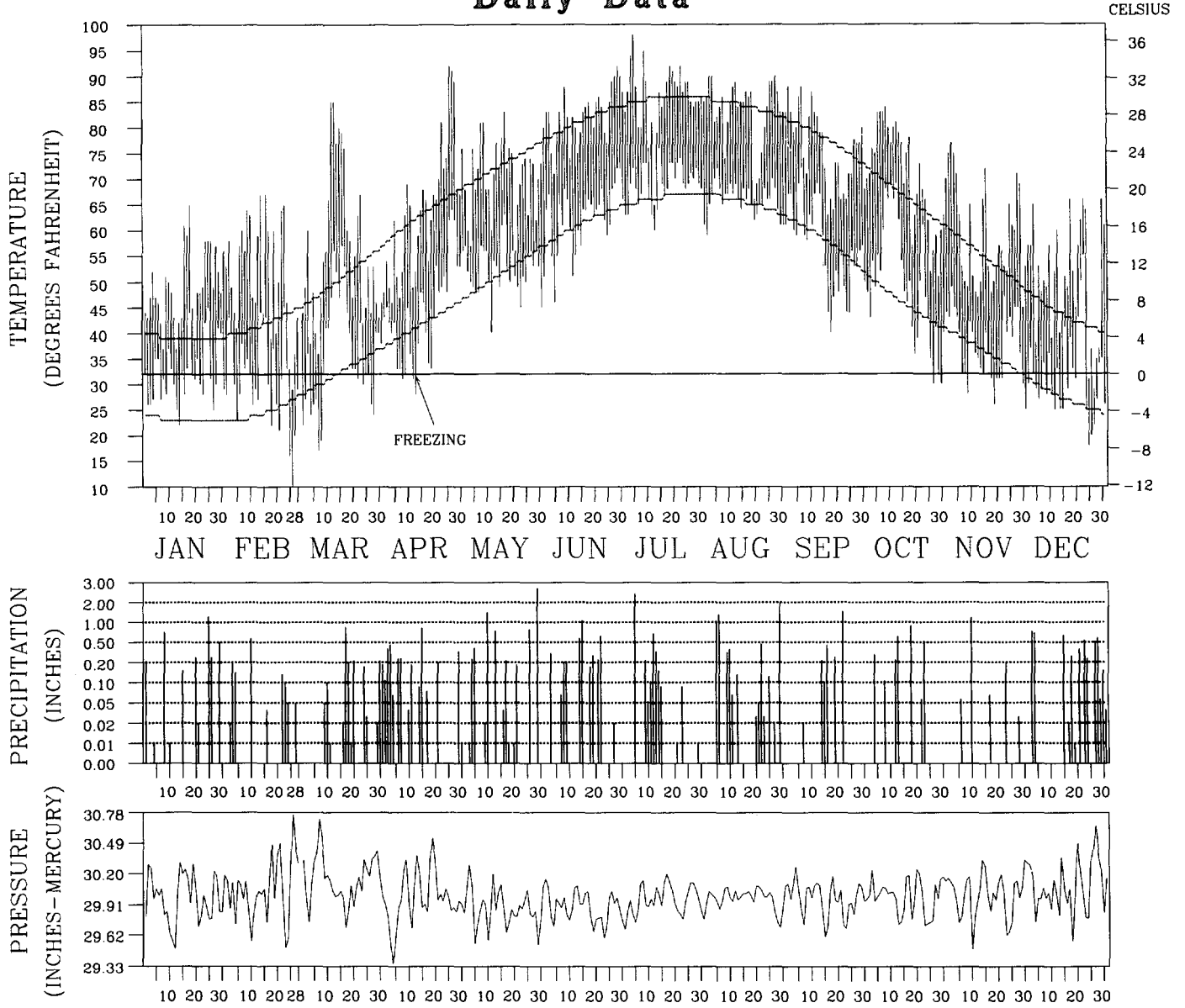


1990 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA WILMINGTON, DELAWARE



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

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Nadeau
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1990

WILMINGTON, DELAWARE

LATITUDE: 39°40' N LONGITUDE: 75°36' W ELEVATION: FT. GRND 74 BARO 96 TIME ZONE: EASTERN WBAN: 13781

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	49.1	51.4	56.2	63.9	70.7	82.1	86.1	83.2	76.3	70.5	59.2	50.6	66.6
-Daily Minimum	31.9	30.8	35.8	43.5	52.3	62.1	68.7	65.9	57.0	49.5	37.5	31.3	47.2
-Monthly	40.5	41.1	46.0	53.7	61.5	72.1	77.4	74.6	66.7	60.0	48.4	41.0	56.9
-Monthly Dewpt.	30.6	29.8	32.9	41.3	48.5	60.3	66.3	65.1	56.8	49.7	35.0	31.0	45.6
Extremes													
-Highest	65	67	85	92	83	92	98	90	88	84	77	66	98
-Date	18	16	13	26	17	29	5	28	7	9	3	30	JUL 5
-Lowest	22	10	17	28	40	46	60	59	40	30	26	18	10
-Date	14	26	7	13	12	5	13	2	18	30	19	25	FEB 26
DEGREE DAYS BASE 65 °F:													
Heating													
	749	661	593	368	127	6	2	1	69	214	494	734	4018
Cooling													
	0	0	10	36	23	227	395	304	127	66	0	0	1188
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset													
	7.3	6.6	6.4	6.1	7.2	6.3	6.4	6.2	6.4	5.0	4.4	7.5	6.3
Midnight - Midnight													
	6.7	6.0	6.2	5.7	7.1	6.3	6.4	5.7	5.7	4.7	4.2	6.6	5.9
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	4	7	10	9	6	2	6	10	8	16	15	4	97
-Partly Cloudy	9	6	3	5	7	17	11	6	10	2	6	9	91
-Cloudy	18	15	18	16	18	11	14	15	12	13	9	18	177
Precipitation													
.01 inches or more	10	9	13	14	13	11	11	13	6	7	5	14	126
Snow, Ice pellets													
1.0 inches or more	0	0	1	1	0	0	0	0	0	0	0	2	4
Thunderstorms													
	1	1	2	0	4	7	8	6	2	1	0	0	32
Heavy Fog, visibility													
1/4 mile or less	6	1	2	0	0	0	0	1	2	3	2	7	24
Temperature °F													
-Maximum													
90° and above	0	0	0	2	0	3	6	3	0	0	0	0	14
32° and below	0	1	0	0	0	0	0	0	0	0	0	2	3
-Minimum													
32° and below	20	17	14	4	0	0	0	0	0	3	10	19	87
0° and below	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG. STATION PRESS. (mb)													
	1014.9	1017.6	1020.7	1014.7	1011.5	1011.9	1014.2	1014.9	1014.6	1015.4	1015.6	1018.6	1015.2
RELATIVE HUMIDITY (%)													
Hour 01													
	77	72	72	74	75	80	82	86	84	81	75	76	78
Hour 07 (Local Time)													
	82	74	75	77	72	77	79	84	85	83	76	80	79
Hour 13													
	61	54	51	56	54	51	58	61	56	52	49	59	55
Hour 19													
	68	63	60	60	63	62	68	72	70	66	60	66	65
PRECIPITATION (inches):													
Water Equivalent													
-Total	3.56	1.35	2.15	3.42	7.03	3.94	4.27	6.15	2.64	2.85	1.61	5.16	44.13
-Greatest (24 hrs)	1.46	0.60	1.09	0.95	2.72	1.69	2.43	1.97	1.55	0.92	1.25	1.49	2.72
-Date	25-26	9-10	17-18	14-15	29	14-15	5-6	29	22	18	10	3-4	MAY 29
Snow, Ice pellets													
-Total	1.5	1.0	1.3	1.6	0.0	0.0	T	0.0	0.0	0.0	0.0	6.4	11.8
-Greatest (24 hrs)	0.6	0.6	1.3	1.6	0.0	0.0	T	0.0	0.0	0.0	0.0	6.4	6.4
-Date	15	27	24-25	6-7			5					27-28	DEC 27-28
WIND:													
Resultant													
-Direction (!!!)	268	282	300	253	277	238	342	350	260	250	290	284	274
-Speed (mph)	3.4	3.3	1.6	2.3	1.6	3.8	0.6	1.2	1.4	2.4	4.4	2.8	2.2
Average Speed (mph)													
	7.7	9.4	9.1	9.9	9.9	8.8	9.5	6.7	6.0	8.0	8.2	8.5	8.5
Fastest Obs. 1 Min.													
-Direction (!!!)	30	28	07	19	32	24	34	30	27	18	30	31	28
-Speed (mph)	30	37	26	28	25	23	35	32	17	28	29	35	37
-Date	30	25	30	10	5	9	5	29	23	18	12	31	FEB 25
Peak Gust													
-Direction (!!!)	NW		W	S	NW	SW	NW	NW	W	S	W	NW	
-Speed (mph)	46		41	40	47	37	48	60	26	38	49	48	
-Date	30		17	10	17	3	5	29	23	18	11	31	

(!!!) See Reference Notes on Page 6B
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NORMALS, MEANS, AND EXTREMES

WILMINGTON, DELAWARE

LATITUDE: 39°40'N	LONGITUDE: 75°36'W	ELEVATION: FT. GRND 74 BARO 96												TIME ZONE: EASTERN	WBAN: 13781
	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F:															
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	43	75	78	86	94	95	99	102	101	100	91	85	74	102	
-Year		1950	1985	1948	1985	1962	1952	1965	1955	1983	1951	1950	1984	JUL 1966	
-Record Lowest	43	-14	-6	2	18	30	41	48	43	36	24	14	-7	-14	
-Year		1985	1979	1984	1982	1978	1972	1988	1982	1974	1976	1955	1983	JAN 1985	
NORMAL DEGREE DAYS:															
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	
% OF POSSIBLE SUNSHINE															
MEAN SKY COVER (tenths)															
Sunrise - Sunset	43	6.6	6.4	6.4	6.4	6.6	6.0	5.9	5.8	5.7	5.5	6.3	6.5	6.2	
MEAN NUMBER OF DAYS:															
Sunrise to Sunset															
-Clear	43	7.4	7.3	7.8	7.3	6.4	7.7	8.0	9.0	9.9	10.8	7.7	7.6	96.9	
-Partly Cloudy	43	7.1	6.8	8.1	8.3	9.9	10.6	11.3	10.2	8.1	8.1	8.2	7.6	104.3	
-Cloudy	43	16.5	14.2	15.0	14.4	14.7	11.7	11.7	11.9	12.0	12.1	14.1	15.8	164.1	
Precipitation															
.01 inches or more	43	10.8	9.6	10.8	11.0	11.5	9.7	9.2	9.0	8.0	7.7	9.4	9.8	116.4	
Snow, Ice pellets															
1.0 inches or more	43	2.2	1.5	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.*	0.2	0.9	5.9	
Thunderstorms	43	0.2	0.3	1.2	2.1	4.3	5.8	6.3	5.8	2.3	0.9	0.6	0.2	30.1	
Heavy Fog Visibility															
1/4 mile or less	43	4.1	3.5	2.8	2.0	2.3	1.8	1.6	2.5	2.5	4.0	3.6	3.7	34.3	
Temperature °F															
-Maximum															
90° and above	43	0.0	0.0	0.0	0.2	0.7	3.8	8.0	5.1	1.7	0.*	0.0	0.0	19.4	
32° and below	43	7.6	4.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.1	17.0	
-Minimum															
32° and below	43	25.7	22.1	15.2	3.1	0.*	0.0	0.0	0.0	0.0	1.6	10.3	22.4	100.4	
0° and below	43	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	
AVG. STATION PRESS. (mb)															
	18	1015.6	1015.8	1014.4	1012.2	1012.3	1012.4	1013.2	1014.4	1015.7	1016.7	1016.0	1016.5	1014.6	
RELATIVE HUMIDITY (%)															
Hour 01	43	73	72	71	72	79	81	82	84	84	82	77	75	78	
Hour 07	43	75	75	73	73	76	78	79	83	85	84	80	76	78	
Hour 13 (Local Time)	43	60	57	52	50	53	53	54	56	56	54	56	59	55	
Hour 19	43	68	65	61	59	64	64	66	70	71	70	69	69	66	
PRECIPITATION (inches):															
Water Equivalent															
-Normal															
-Maximum Monthly	43	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	
-Year		1978	1979	1983	1983	1983	1972	1989	1955	1960	1971	1972	1969	JUL 1989	
-Minimum Monthly	43	0.52	0.83	0.81	0.35	0.22	0.21	0.16	0.25	0.82	0.21	0.49	0.19	0.16	
-Year		1981	1980	1966	1985	1964	1988	1955	1972	1970	1963	1976	1955	JUL 1955	
-Maximum in 24 hrs	43	2.12	2.29	3.11	2.56	2.72	4.35	6.83	4.11	5.62	3.88	3.83	2.22	6.83	
-Year		1978	1966	1978	1961	1990	1972	1989	1971	1960	1966	1956	1969	JUL 1989	
Snow, Ice pellets															
-Maximum Monthly	43	21.4	27.5	20.3	2.6	T	0.0	T	0.0	0.0	2.5	11.9	21.5	27.5	
-Year		1987	1979	1958	1982	1963	1990	1990	1990	1979	1979	1953	1966	FEB 1979	
-Maximum in 24 hrs	43	12.1	16.5	15.6	2.4	T	0.0	T	0.0	0.0	2.5	11.9	12.4	16.5	
-Year		1987	1979	1958	1987	1963	1990	1990	1990	1979	1979	1953	1966	FEB 1979	
WIND:															
Mean Speed (mph)	42	9.8	10.4	11.2	10.6	9.1	8.5	7.8	7.5	7.8	8.2	9.2	9.4	9.1	
Prevailing Direction through 1963		WNW	NW	WNW	WNW	S	S	NW	S	S	NW	NW	WNW	S	
Fastest Obs. 1 Min.															
-Direction (!!!)	42	29	29	06	29	30	23	27	35	07	20	16	32	20	
-Speed (MPH)	42	46	46	43	45	46	40	48	46	40	58	46	46	58	
-Year		1957	1956	1984	1963	1984	1960	1963	1971	1956	1954	1950	1988	OCT 1954	
Peak Gust															
-Direction (!!!)	7	NW	NW	NW	NE	NW	NW	NW	NW	NW	W	NW	NW	NW	
-Speed (mph)	7	51	51	58	45	71	52	66	60	64	58	59	69	71	
-Date		1986	1987	1985	1987	1984	1989	1987	1990	1985	1987	1989	1988	MAY 1984	

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

PRECIPITATION (inches)

WILMINGTON, DELAWARE

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1985	1.56	2.05	2.03	0.35	5.52	1.37	6.91	2.28	4.56	1.84	4.46	0.80	33.73
1986	4.21	2.77	1.19	2.77	1.69	4.05	3.99	2.88	2.75	4.04	6.42	6.11	42.87
1987	4.35	1.52	1.16	2.63	3.15	2.31	4.09	4.21	4.85	2.31	3.50	1.90	35.98
1988	2.46	4.14	1.82	2.59	4.95	0.21	8.29	3.03	2.18	1.94	5.29	0.90	37.80
1989	2.48	2.75	3.69	2.76	6.57	5.43	12.63	1.97	4.31	3.92	1.99	1.27	49.77
1990	3.56	1.35	2.15	3.42	7.03	3.94	4.27	6.15	2.64	2.85	1.61	5.16	44.13
Record Mean	3.30	3.07	3.64	3.51	3.69	3.76	4.56	4.53	3.59	3.03	3.25	3.42	43.37

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
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
1985	27.5	37.4	47.1	58.0	65.9	70.6	76.6	74.4	69.1	58.3	51.0	32.9	55.7
1986	32.2	31.6	43.6	52.4	65.7	72.1	77.1	72.5	67.5	57.2	44.1	37.3	54.4
1987	31.4	31.9	44.6	52.3	63.1	73.5	79.1	74.3	68.3	51.7	47.4	38.6	54.7
1988	27.4	34.8	44.2	50.8	62.9	71.6	79.4	77.3	65.8	51.0	46.7	35.1	53.9
1989	36.0	34.3	42.1	51.6	62.1	74.3	75.9	74.4	68.4	57.6	44.6	25.0	53.9
1990	40.5	41.1	46.0	53.7	61.5	72.1	77.4	74.6	66.7	60.0	48.4	41.0	56.9
Record Mean	32.2	33.2	42.1	52.3	62.7	71.3	76.1	74.3	67.8	56.5	45.7	35.2	54.2
Max	40.0	41.5	51.6	62.8	73.3	81.6	85.7	83.7	77.6	66.5	54.5	43.0	63.5
Min	24.3	24.9	32.6	41.7	52.1	61.1	66.4	64.8	58.1	46.6	36.9	27.4	44.8

See Reference Notes on Page 6B.
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HEATING DEGREE DAYS Base 65 deg. F

WILMINGTON, DELAWARE

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
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	934	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	1154	766	550	248	73	7	4404
1985-86	0	0	45	213	411	986	1011	930	653	373	99	11	4732
1986-87	0	27	36	276	619	848	1032	923	628	374	143	2	4908
1987-88	0	2	22	406	521	811	1159	869	637	419	121	38	5005
1988-89	3	0	52	434	541	923	893	854	710	395	142	0	4947
1989-90	0	2	54	236	605	1231	749	661	593	368	127	6	4632
1990-91	2	1	69	214	494	734							

See Reference Notes on Page 6B.
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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	0	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	0	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	5	0	1003
1977	0	0	0	20	80	156	360	328	166	0	5	0	1120
1978	0	0	0	0	48	188	273	383	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	3	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
1985	0	0	4	47	106	181	366	300	174	13	0	0	1191
1986	0	0	0	0	129	227	379	267	116	40	0	0	1158
1987	0	0	0	3	91	264	446	295	129	0	0	0	1228
1988	0	0	0	0	62	242	455	389	80	5	0	0	1233
1989	0	0	6	0	61	287	345	299	162	17	0	0	1177
1990	0	0	10	36	23	227	395	304	127	66	0	0	1188

See Reference Notes on Page 6B.
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SNOWFALL (inches)

WILMINGTON, DELAWARE

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
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	14.2	0.7	T	0.4	0.0	0.0	15.6
1985-86	0.0	0.0	0.0	0.0	0.0	1.4	3.1	9.7	T	T	0.0	0.0	14.2
1986-87	0.0	0.0	0.0	0.0	T	0.3	21.4	15.7	0.2	2.4	0.0	0.0	40.0
1987-88	0.0	0.0	0.0	0.0	0.7	2.1	10.8	1.1	T	T	0.0	0.0	14.7
1988-89	0.0	0.0	0.0	0.0	T	0.2	6.7	2.9	1.2	0.0	0.0	0.0	11.0
1989-90	0.0	0.0	0.0	0.0	5.6	8.9	1.5	1.0	1.3	1.6	0.0	0.0	19.9
1990-91	T	0.0	0.0	0.0	0.0	6.4							
Record Mean	T	0.0	0.0	0.1	1.0	3.5	6.8	6.2	3.2	0.2	T	0.0	20.9

See Reference Notes on Page 6B.
Page 6A

REFERENCE NOTES

WILMINGTON, DELAWARE

<p>GENERAL T - TRACE AMOUNT. BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA. # INDICATES A STATION OR INSTRUMENT RELOCATION. SEE STATION LOCATION TABLE ON PAGE 8.</p> <p>SPECIFIC PAGE 2 PM - INCLUDES LAST DAY OF PREVIOUS MONTH</p> <p>PAGE 3 (a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING. 0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05. 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.</p> <p>PAGE 4B MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.</p>	<p>EXCEPTIONS PAGES 4A, 4B, 6A RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1895 FOR TEMPERATURE 1894 FOR PRECIPITATION 1948 FOR SNOWFALL</p>
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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 considerably influence 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 80s. The temperature reaches 100 degrees on the average once in six years. During January, the coldest month of the year, the daily average temperature is 32 degrees. Temperatures of zero may be expected once in four years. 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, and 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 storms forming over the southern states or the South Atlantic and moving northward along the 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	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										* Type M = AMOS A = AUTOB S = ASOS W = AWOS	REMARKS	
						SEA LEVEL		GROUND										AUTOMATIC CROSSLING
						GROUND TEMPERATURE	SITE	WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TRIP METER	RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE			
COOPERATIVE																		
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.	
AIRPORT																		
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, Adm. 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 + + Greater Wilmington Airport eff. 5/19/61	7/16/56	Present	7/8 mi. SE	39°40'	75°36'	78 b74	20	s5	s5	NA	NA	5	4	NA a4 c4	NA	Exposure of instruments excellent. a - Commissioned 1000 feet from thermometer site 4/11/67. b - Lowered 4/11/67. s - Standby after 4/11/67. c - Type change 8/12/85.		

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801. USCOMM-NOAA-ASHEVILLE, N.C. - 490

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