

1994

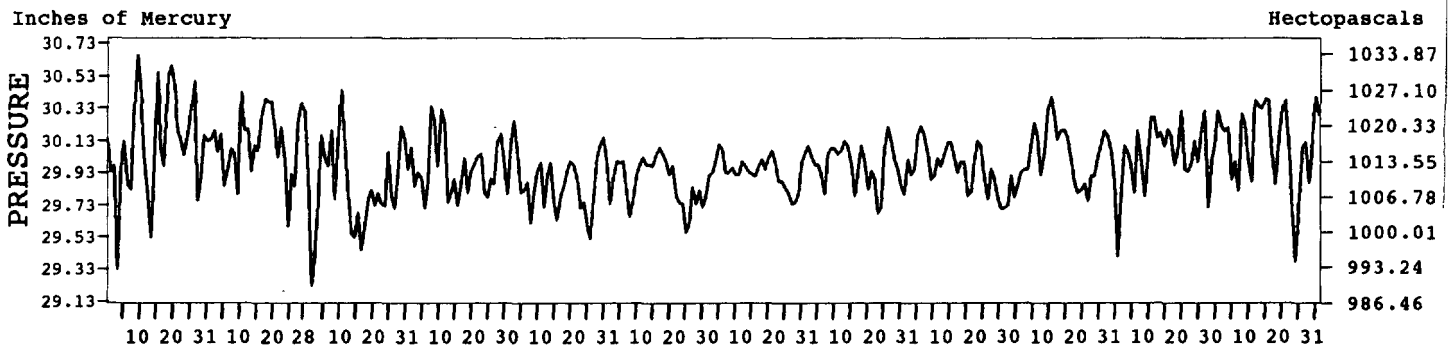
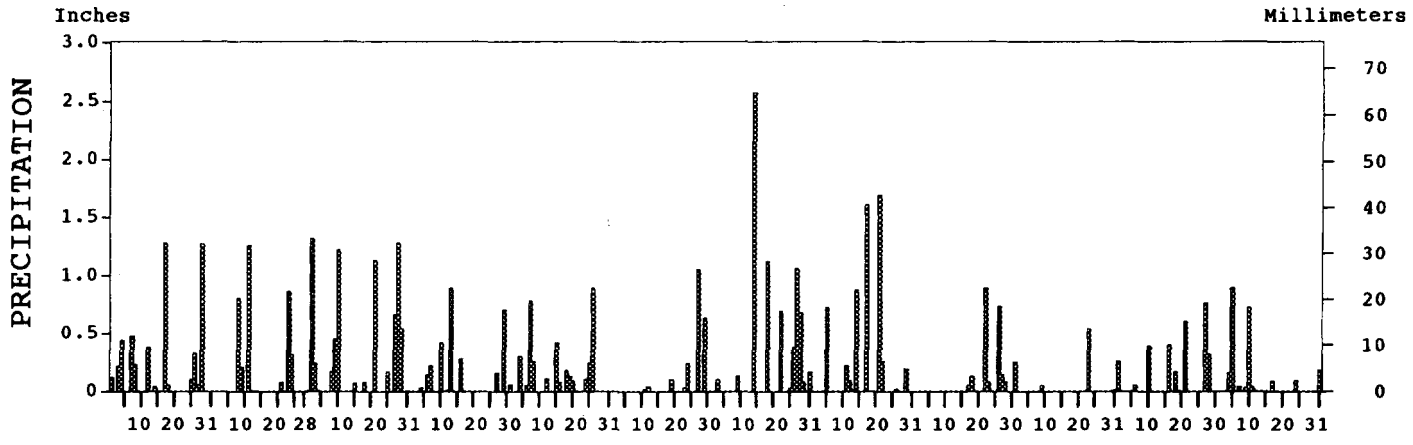
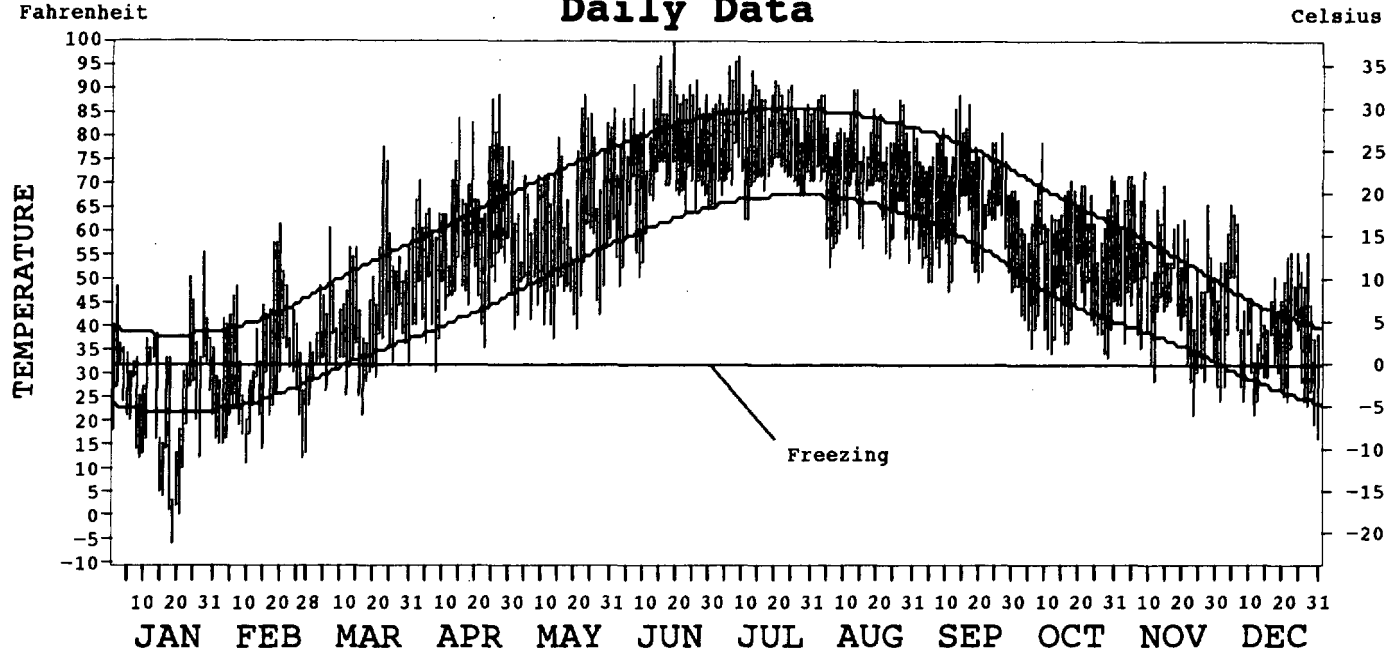
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1145

WILMINGTON,
DELAWARE (ILG)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL ENVIRONMENTAL, SATELLITE, DATA, AND INFORMATION SERVICE NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

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METEOROLOGICAL DATA FOR 1994

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	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F													
Averages										ASOS	ASOS	ASOS	
-Daily Maximum	33.6	40.1	50.2	69.7	71.4	86.1	88.5	82.3	76.9	65.4	59.3	48.7	64.4
-Daily Minimum	18.9	23.0	33.4	47.1	48.5	65.5	71.1	64.0	57.4	42.3	40.0	31.2	45.2
-Monthly	26.3	31.6	41.8	58.4	60.0	75.8	79.8	73.2	67.2	53.9	49.7	40.0	54.8
-Monthly Dewpt.	18.5	20.8	31.2	41.9	47.0	62.6	69.5	64.1	55.4	43.8	37.2	30.3	43.5
Extremes													
-Highest	56	62	78	89	89	100	97	90	89	79	73	66	100
-Date	28	20	23	27	23	19	9	14	14	9	9	5	JUN 19
-Lowest	-5	12	22	31	38	49	63	53	48	34	22	17	-5
-Date	19	10	17	8	14	3	12	6	30	29	24	31	JAN 19
DEGREE DAYS BASE 65 °F													
Heating	1193	929	715	223	189	2	0	0	29	343	454	770	4847
Cooling	0	0	0	32	41	334	466	260	99	4	0	0	1236
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	7.0	5.7	6.9	6.0	5.8	6.2	6.4	6.4	5.4				
Midnight - Midnight	6.6	5.2	6.6	5.6	5.4	5.8	6.2	5.8	5.0				
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	10	6	8	7	6	6	8	9				
-Partly Cloudy	6	6	7	9	14	11	10	6	11				
-Cloudy	17	12	18	13	10	13	15	17	10				
Precipitation													
.01 inches or more	13	8	15	9	14	7	11	10	7	4	9	9	116
Snow, Ice Pellets, Hail													
1.0 inches or more	1	3	1	0	0	0	0	0	0	0	0	0	5
Thunderstorms	0	0	0	5	6	5	12	6	3	0	1	0	38
Heavy Fog, visibility													
1/4 mile or less	2	4	2	5	0	1	2	1	1	5	3	3	29
Temperature F °													
-Maximum													
90° and above	0	0	0	0	0	7	11	2	0	0	0	0	20
32° and below	10	8	9	0	0	0	0	0	0	0	0	0	18
-Minimum													
32° and below	26	26	12	1	0	0	0	0	0	0	6	21	92
0° and below	1	0	0	0	0	0	0	0	0	0	0	0	1
AVG. STATION PRESS. (mb)													
	1019.6	1019.6	1010.8	1014.6	1011.9	1011.5	1013.9	1014.9	1014.6	1016.9	1017.3	1019.6	1015.6
RELATIVE HUMIDITY (%)													
Hour 01	77	74	73	71	77	79	85	86	82	83	71	78	78
Hour 07 (Local Time)	80	78	78	70	74	74	83	84	79	86	77	76	78
Hour 13	67	56	60	46	50	52	57	61	52	51	52	59	55
Hour 19	73	63	69	55	59	60	71	72	65	68	65	68	66
PRECIPITATION (inches):													
Water Equivalent													
-Total	5.00	3.55	7.36	2.85	3.69	2.11	7.01	5.68	2.10	0.85	2.96	2.24	45.40
-Greatest (24 hrs)	1.33	1.26	1.65	0.89	1.04	1.05	2.57	1.94	0.97	0.54	1.08	1.05	2.57
-Date	27-28	10-11	9-10	13	7-8	27	14	21-22	22-23	23	27-28	4-5	JUL 14
Snow, Ice pellets, Hail													
-Total	2.7	9.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	15.3
-Greatest (24 hrs)	1.2	4.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	4.7
-Date	17-18	11	1-2								27		FEB 11
WIND:													
Resultant													
-Direction (!!)	325	338	326	238	292	202	204	235	309	322	296	342	299
-Speed (mph)	4.1	4.1	4.7	2.6	3.6	2.9	3.1	2.4	2.7	2.4	3.3	4.4	2.3
Average Speed (mph)	8.8	8.5	9.8	8.8	9.1	8.0	6.8	6.9	8.0	6.0	9.5	7.8	8.2
Fastest Obs. 1 Min.													
-Direction (!!)	29	32	05	28	32	32	36	34	06	31	22	34	22
-Speed (mph)	23	35	32	30	33	31	23	25	32	23	36	34	36
-Date	15	26	3	27	25	29	6	5	22	10	28	24	NOV 28
Peak Gust													
-Direction (!!)	NW	NW	NE	NW	NW	N	N	SW	NE	04	24	33	24
-Speed (mph)	38	47	51	46	47	47	33	31	47	30	51	47	51
-Date	14	14	3	16	25	29	14	14	22	15	28	24	NOV 28

(!!) See Reference Notes on Page 6B

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	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F														
Normals														
-Daily Maximum		38.7	41.9	52.1	62.6	72.9	81.4	85.6	84.1	77.7	66.6	55.5	43.9	63.6
-Daily Minimum		22.4	24.8	33.1	41.8	52.2	61.6	67.1	65.9	58.2	45.7	37.0	27.6	44.8
-Monthly		30.6	33.4	42.7	52.2	62.5	71.5	76.4	75.0	68.0	56.2	46.3	35.8	54.2
Extremes														
-Record Highest	47	75	78	86	94	95	100	102	101	100	91	85	74	102
-Year		1950	1985	1948	1985	1962	1994	1966	1955	1983	1951	1950	1984	JUL 1966
-Record Lowest	47	-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)		1066	885	691	384	122	0	0	0	35	288	561	905	4937
Cooling (base 65 °F)		0	0	0	0	44	199	353	310	125	15	0	0	1046
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER(tenths)														
Sunrise - Sunset	47	6.6	6.4	6.4	6.4	6.5	6.0	5.9	5.8	5.7	5.5	6.4	6.6	6.2
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	47	7.3	7.4	7.7	7.3	6.6	7.6	7.9	9.1	10.0	10.8	7.6	7.6	96.9
-Partly Cloudy	47	7.1	6.7	8.0	8.3	10.1	10.8	11.3	10.1	8.0	8.3	8.1	7.4	104.3
-Cloudy	47	16.6	14.1	15.2	14.5	14.3	11.5	11.8	11.8	12.0	11.9	14.3	16.0	164.1
Precipitation														
.01 inches or more	47	10.8	9.4	11.0	10.9	11.3	9.6	9.2	9.0	8.1	7.6	9.4	9.9	116.1
Snow,Ice Pellets,Hail														
1.0 inches or more	47	2.0	1.6	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.*	0.2	0.9	5.7
Thunderstorms	47	0.2	0.3	1.1	2.2	4.3	5.7	6.4	5.7	2.4	0.9	0.6	0.2	30.0
Heavy Fog Visibility														
1/4 mile or less	47	4.0	3.4	2.9	2.1	2.2	1.7	1.6	2.3	2.4	4.0	3.4	3.6	33.6
Temperature °F														
-Maximum														
90° and above	47	0.0	0.0	0.0	0.1	0.9	4.0	8.2	5.1	1.7	0.*	0.0	0.0	20.1
32° and below	47	7.3	4.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.9	16.6
-Minimum														
32° and below	47	25.4	22.0	15.1	3.0	0.*	0.0	0.0	0.0	0.0	1.5	10.2	22.2	99.6
0° and below	47	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
AV. STATION PRES.(mb)	22	1016.0	1015.9	1013.9	1012.5	1012.6	1012.4	1013.1	1014.5	1015.8	1016.6	1016.4	1016.6	1014.7
RELATIVE HUMIDITY (%)														
Hour 01	47	73	72	71	73	79	81	83	85	85	83	77	75	78
Hour 07 (Local Time)	47	75	75	74	73	76	78	79	83	85	84	80	76	78
Hour 13	47	60	57	53	50	53	53	54	57	56	54	56	60	55
Hour 19	47	68	64	62	59	64	64	66	70	71	70	69	69	66
PRECIPITATION (ins):														
Water Equivalent														
-Normal		3.03	2.91	3.43	3.39	3.84	3.55	4.23	3.40	3.43	2.88	3.27	3.48	40.84
-Maximum Monthly	47	8.41	7.02	7.50	6.80	7.38	7.49	12.63	12.09	9.53	6.41	7.84	7.90	12.63
-Year		1978	1979	1993	1983	1983	1972	1989	1955	1960	1971	1972	1969	JUL 1989
-Minimum Monthly	47	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	47	2.12	2.29	3.11	2.56	2.72	4.35	6.83	4.11	5.62	3.88	3.83	2.33	6.83
-Year		1978	1966	1978	1961	1990	1972	1989	1971	1960	1966	1956	1992	JUL 1989
Snow,Ice Pellets,Hail														
-Maximum Monthly	47	21.4	27.5	20.3	2.6	T	T	T	0.0	0.0	2.5	11.9	21.5	27.5
-Year		1987	1979	1958	1982	1991	1992	1990			1979	1953	1966	FEB 1979
-Maximum in 24 hrs	47	12.1	16.5	15.6	2.4	T	T	T	0.0	0.0	2.5	11.9	12.4	16.5
-Year		1987	1979	1958	1987	1991	1992	1990			1979	1953	1966	FEB 1979
WIND:														
Mean Speed (mph)	46	9.8	10.3	11.0	10.4	9.0	8.4	7.8	7.4	7.8	8.1	9.2	9.3	9.0
Prevailing Direction through 1963		WNW	NW	WNW	WNW	S	S	NW	S	S	NW	NW	WNW	S
Fastest Obs. 1 Min.														
-Direction (!!)	46	29	29	06	29	30	34	27	35	07	20	16	32	20
-Speed (mph)		46	46	43	45	46	43	48	46	40	58	46	46	58
-Year		1957	1956	1984	1963	1984	1991	1963	1971	1956	1954	1950	1988	OCT 1954
Peak Gust														
-Direction (!!)	11	NW	NW	NE	NW	NW	NW	S	NW	NW	W	NW	NW	NW
-Speed (mph)	11	51	51	59	47	71	52	66	60	64	58	59	69	71
-Date		1986	1987	1993	1993	1984	1989	1993	1990	1985	1987	1989	1988	MAY 1984

(!!) See Reference Notes on Page 6B

PRECIPITATION (inches)

WILMINGTON, DELAWARE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1991	4.30	0.97	4.64	3.28	1.98	3.41	3.71	5.38	5.36	1.27	1.26	4.26	39.82
1992	1.05	1.81	4.36	1.76	4.48	3.14	4.34	2.21	4.30	1.11	4.27	4.21	37.04
1993	2.64	3.11	7.50	5.87	3.95	1.60	4.04	2.65	6.26	2.77	2.85	3.51	46.75
1994	5.00	3.55	7.36	2.85	3.69	2.11	7.01	5.68	2.10	0.85	2.96	2.24	45.40
Record Mean	3.30	3.04	3.74	3.51	3.69	3.71	4.57	4.51	3.63	2.97	3.23	3.43	43.32

(!!) See Reference Notes on Page 6B

Page 4A

AVERAGE TEMPERATURE (deg. F)

WILMINGTON, DELAWARE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1991	34.3	39.7	44.9	54.7	69.1	73.6	77.3	76.7	67.2	57.6	46.8	39.5	56.8
1992	35.2	37.2	41.5	52.0	60.7	69.6	76.3	72.2	67.3	53.2	47.2	38.3	54.2
1993	37.6	31.0	39.0	52.8	65.3	72.8	79.4	77.8	68.7	55.7	47.4	36.4	55.3
1994	26.3	31.6	41.8	58.4	60.0	75.8	79.8	73.2	67.2	53.9	49.7	40.0	54.8
Record Mean	32.2	33.3	42.1	52.3	62.8	71.4	76.1	74.3	67.8	56.5	45.8	35.3	54.2
Max	40.1	41.6	51.5	62.8	73.4	81.6	85.7	83.7	77.6	66.5	54.6	43.1	63.5
Min	24.3	24.9	32.7	41.8	52.1	61.2	66.5	64.8	58.1	46.5	37.0	27.5	44.8

(!!) See Reference Notes on Page 6B

Page 4B

HEATING DEGREE DAYS Base 65 deg. F WILMINGTON, DELAWARE

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	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	943	700	617	320	61	5	4160
1991-92	0	0	64	244	541	785	914	799	723	386	169	12	4637
1992-93	0	1	57	363	527	817	843	945	799	360	64	12	4788
1993-94	0	0	55	286	526	879	1193	929	715	223	189	2	4997
1994-95	0	0	29	343	454	770							

(!) See Reference Notes on Page 6B
Page 5A

COOLING DEGREE DAYS Base 65 deg. F WILMINGTON, DELAWARE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	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	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	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
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
1991	0	0	1	18	197	271	390	371	135	23	2	0	1408
1992	0	0	0	3	39	156	358	230	134	3	0	0	923
1993	0	0	0	1	79	252	452	405	176	3	4	0	1372
1994	0	0	0	32	41	334	466	260	99	4	0	0	1236

(!) See Reference Notes on Page 6B
Page 5B

SNOWFALL (inches)

WILMINGTON, DELAWARE

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1965-66	0.0	0.0	0.0	0.0	0.0	17.2	10.0	T	T	0.0	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	5.2	0.6	0.9	T	T	0.0	13.1
1991-92	0.0	0.0	0.0	0.0	T	0.2	1.5	1.3	0.5	T	0.0	T	3.5
1992-93	0.0	0.0	0.0	0.0	T	0.1	1.4	10.0	13.9	0.0	0.0	0.0	25.4
1993-94	0.0	0.0	0.0	0.0	T	2.4	2.7	9.2	3.4	0.0	0.0	0.0	17.7
1994-95	0.0	0.0	0.0	0.0	T	0.0							
Record Mean	T	0.0	0.0	0.1	0.9	3.2	6.5	6.1	3.3	0.2	T	T	20.3

(!!) See Reference Notes on Page 6B

Page 6A

REFERENCE NOTES

WILMINGTON, DELAWARE

GENERAL

T - TRACE AMOUNT.
 BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
 # INDICATES A STATION OR INSTRUMENT RELOCATION.
 SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC

PAGE 2
 PM - INCLUDES LAST DAY OF PREVIOUS MONTH
 ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN
 OPERATION DURING THESE MONTHS.

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 1961-1990 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.
 BOLD VALUES INDICATE EXTREME VALUES WHICH OCCURRED
 AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B

RECORD = PERIOD OF RECORD
 RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY
 PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
 RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY
 MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
 RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD
 MAX AND RECORD MIN DIVIDED BY 2.
 AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY
 MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
 RECORD MEANS ARE THROUGH THE CURRENT YEAR,
 BEGINNING IN 1895 FOR TEMPERATURE
 1894 FOR PRECIPITATION
 1948 FOR SNOWFALL

1994 WILMINGTON, DELAWARE (ILG)

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	REMARKS		
						SEA LEVEL		GROUND										HYGRO-THERMOMETER	AUTOMATIC OBSERVING
						GROUND	SEA LEVEL	WIND INSTRUMENTS	EXTREMUM THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE				
<u>COOPERATIVE</u>																			
Wilmington, Delaware 6th and King Streets	4/1/94	7/12/16		39°45'	75°33'	86											Ordinary thermometer exposed outside N window; Sept. '09 max. and min. in use, exposure of thermometers' pool.		
Porter Reservoir Wilmington, Delaware 1.9 miles NNE of P.O.	3/1/12	Present		39°46'	75°33'	260		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											Precipitation only most of time.		
<u>AIRPORT</u>																			
Bellanca Field New Castle, Delaware 6.1 miles SSW Wilmington Post Office	4/20/31	6/?/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. 5/1961	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. c - Standby after 4/11/67. c - Type change 8/12/85. ASOS commissioned 10/1/94.		

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801. INQUIRIES/COMMENTS CALL: (704) 271-4800 USCOMM-NOAA-ASHEVILLE, N.C. - 475

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