



JUNE 2004

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE

NEW CASTLE COUNTY AIRPORT (ILG)

Lat: 39°40' N Long: 75°36' W Elev (Ground): 92 Feet

Time Zone: EASTERN WBAN: 13781 ISSN #:0198-117X

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM					
																			5-SEC		2-MIN			
																			SPEED	DIR	SPEED	DIR		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	74	59	67	0	59	61	0	2	TSRA RA BR VCTS	0		0.0	0.28	29.64	29.73	1.8	25	5.2	39*	28	30	27	01	
02	80	58	69	1	58	62	0	4	FC TS TSRA RA BR VCTS	0		0.0	0.14	29.78	29.86	4.1	25	5.3	37	29	31*	29	02	
03	78	59	69	1	55	60	0	4		0		0.0	0.00	29.96	30.04	6.6	28	7.4	20	28	16	29	03	
04	73	57	65	-3	51	57	0	0	RA	0		0.0	T	30.10	30.19	5.7	07	7.4	16	06	14	05	04	
05	63	58	61	-7	59	60	4	0	RA BR	0		0.0	1.38	29.97	30.05	12.4	05	12.7	28	07	22	06	05	
06	65	58	62	-7	58	59	3	0	RA BR	0		0.0	0.01	29.99	30.08	5.1	03	5.7	18	04	15	04	06	
07	79	54	67	-3	61	63	0	2	BR	0		0.0	0.00	30.08	30.17	2.9	21	4.6	14	21	12	16	07	
08	84	62	73	3	65	67	0	8	FG+ BR	0		0.0	0.00	30.12	30.20	4.0	19	4.7	20	16	16	16	08	
09	91*	67	79	9	69	72	0	14	BR HZ	0		0.0	0.00	29.96	30.04	4.5	23	5.2	20	21	16	21	09	
10	86	66	76	6	69	72	0	11	TSRA RA BR HZ	0		0.0	1.01	29.81	29.89	4.8	32	7.3	22	28	20	28	10	
11	66	56	61*	-9	58	59	4	0	RA BR	0		0.0	0.76	29.88	29.96	5.1	06	6.4	20	05	16	05	11	
12	76	52*	64	-6	49	56	1	0	BR	0		0.0	0.00	30.03	30.12	3.2	14	7.6	22	14	18	15	12	
13	71	55	63	-8	53	58	2	0	RA	0		0.0	T	30.12	30.20	8.3	15	8.8	20	15	16	15	13	
14	83	66	75	4	67	69	0	10	TSRA RA BR VCTS	0		0.0	1.21	29.95	30.04	7.3	19	8.6	25	15	22	14	14	
15	87	68	78	6	71	73	0	13	TSRA RA BR	0		0.0	0.54	29.95	30.04	4.1	20	5.0	35	29	29	29	15	
16	84	70	77	5	73	74	0	12	RA BR HZ	0		0.0	0.02	30.02	30.10	2.2	17	3.2	16	16	15	16	16	
17	89	71	80	8	73	74	0	15	RA BR VCTS	0		0.0	0.96	29.92	30.00	2.7	23	3.8	31	36	25	33	17	
18	89	71	80*	7	72	74	0	15	BR	0		0.0	0.00	29.83	29.91	5.0	27	6.1	16	30	14	28	18	
19	82	64	73	0	62	67	0	8		0		0.0	0.00	29.81	29.89	9.9	31	10.2	24	29	20	32	19	
20	73	54	64	-9	47	55	1	0		0		0.0	0.00	29.97	30.05	4.3	31	5.5	17	33	14	33	20	
21	78	53	66	-7	56	61	0	1		0		0.0	0.00	29.91	29.99	6.0	18	6.7	21	16	16	15	21	
22	82	66	74	1	65	68	0	9	RA BR	0		0.0	0.37	29.76	29.84	6.0	21	7.6	35	27	26	27	22	
23	79	66	73	-1	64	67	0	8	RA	0		0.0	0.04	29.87	29.96	1.3	27	4.2	13	16	12	15	23	
24	82	61	72	-2	64	67	0	7	BR	0		0.0	0.00	29.96	30.05	5.8	15	6.2	18	15	16	15	24	
25	81	67	74	0	66	68	0	9	TS RA BR HZ	0		0.0	0.20	29.95	30.03	4.4	16	5.7	24	16	18	16	25	
26	81	60	71	-3	61	65	0	6	FG+ BR	0		0.0	0.00	29.83	29.92	5.8	30	6.3	22	31	17	31	26	
27	79	54	67	-7	52	59	0	2		0		0.0	0.00	30.01	30.10	4.8	25	5.8	18	26	16	27	27	
28	81	57	69	-6	58	64	0	4		0		0.0	0.00	29.97	30.05	2.7	17	2.9	15	16	13	15	28	
29	78	59	69	-6	57	62	0	4	TSRA RA VCTS	0		0.0	0.06	30.01	30.10	5.8	30	6.6	21	33	18	31	29	
30	82	58	70	-5	59	64	0	5		0		0.0	0.00	30.08	30.16	2.3	21	4.1	14	16	13	15	30	
79.2 60.9 70.1 ■■ 61.0 64.6 0.5 5.8 < MONTHLY AVERAGES TOTALS-->												0.0	6.98	29.94	30.03	1.6	21	6.2	<-- MONTHLY AVERAGES					
-1.9 -.9 -1.4 ■■ <-----DEPARTURE FROM NORMAL----->												3.39	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.75 DATE: 14-15+				SEA LEVEL PRESSURE DATE TIME											
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM : 30.26 13 0951											
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE:				MINIMUM : 29.66 01 0051											
HEATING: 15 0 4866 -22									NUMBER OF DAYS WITH ➔				MAXIMUM TEMP ≥ 90: 1				PRECIPITATION ≥ 0.01 INCH : 14							
COOLING: 173 -42 347 59													MAXIMUM TEMP ≤ 32 : 0				PRECIPITATION ≥ 0.10 INCH : 10							
													THUNDERSTORMS : 7				HEAVY FOG : 2				SNOWFALL ≥ 1.0 INCH : 0			

JUNE 2004
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

JUNE 2004

ILG

WBAN # 13781

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01	T											0.13	01	T		0.09	0.02	0.03				0.01	T	T		01	0.95		0.28
02													02				.08				0.03	0.03				02			0.14
03													03													03			0.00
04													04													04			T
05		T	T	0.03	0.09	0.08	0.07	0.03	T	0.01	T	0.01	05	0.02	0.02	0.03	0.15	0.16	0.33	0.25	0.09	0.01	T	T	T	05			1.38
06													06													06			0.01
07						T	0.01						07													07			0.00
08													08													08			0.00
09													09													09			0.00
10													10						0.16	0.04	T	0.68	0.07	T	T	10			1.01
11	0.06	0.04	0.01	0.09	0.40	0.02	0.01	T	T	T	0.02	0.03	11	0.03	0.01	0.01	0.01	T	0.01	T	0.01					11			0.76
12													12													12			0.00
13											T		13													13			T
14					T	T							14								T	0.16	T	0.54	0.51	14			1.21
15	T												15							0.54	T	T				15			0.54
16													16			T		0.02	T							16			0.02
17													17			T	0.19	0.03			T	0.74	T	T		17			0.96
18													18													18			0.00
19													19													19			0.00
20													20													20			0.00
21													21													21			0.00
22													22			T			0.18	0.19	T					22			0.37
23		T	T					0.01					23				0.03					T				23			0.04
24													24													24			0.00
25													25					T	0.10	0.09	T	T	0.01	T		25			0.20
26													26													26			0.00
27													27													27			0.00
28													28													28			0.00
29	0.06	T											29													29			0.06
30													30													30			0.00

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

* = Extreme for the month (last occurrence if more than one)
T = Trace precipitation amount
+ = also occurs on earlier date
FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

WEATHER NOTATIONS

**WILMINGTON, DE
JUNE 2004**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR—SS		MN—MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							3.00	10.00	
02							4.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							2.50	10.00	
06							3.00	10.00	
07							.75	10.00	
08							<.25	10.00	
09							2.00	10.00	
10							1.00	10.00	
11							3.00	10.00	
12							2.50	10.00	
13							10.00	10.00	
14							2.00	10.00	
15							1.00	10.00	
16							5.00	10.00	
17							1.25	10.00	
18							6.00	10.00	
19							8.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							1.00	10.00	
23							8.00	10.00	
24							4.00	10.00	
25							3.00	10.00	
26							.25	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							6.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							5.20	10.00	
SUNSHINE (MINUTES) Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH: SKY CONDITION CLR PTLY CLDY CLOUDY MISSING 30 MINIMUM VISIBILITY (MILES) <=0.25 <=3.0 >=7.0 1 14 11									

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JUNE 2004

ILG

WBAN # 13781

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0437					JUN 01	SUNSET: 1924					SUNRISE: 0435					JUN 07	SUNSET: 1928												
01	OVC	008			3.00	59	58	58	96	3	30	29.57	29.66	01	FEW	NC			7.00	59	58	58	96	0	00	30.05	30.14		
04	OVC	012			3.00	59	58	58	96	5	36	29.58	29.67	04	CLR	NC			2.50	55	55	55	100	0	00	30.06	30.14		
07	OVC	018			6.00	61	59	60	93	3	36	29.62	29.71	07	SCT	NC			5.00	60	59	59	96	3	27	30.09	30.18		
10	BKN	018			9.00	67	61	63	81	7	21	29.65	29.73	10	SCT	NC			10.00	70	62	65	76	6	24	30.11	30.19		
13	FEW	NC			10.00	70	62	65	76	8	12	29.61	29.70	13	FEW	NC			10.00	77	63	68	62	5	VR	30.08	30.17		
16	OVC	090			10.00	61	56	58	84	14	26	29.68	29.77	16	CLR	NC			10.00	78	60	67	54	8	23	30.06	30.15		
19	CLR	NC			10.00	66	59	62	78	5	22	29.66	29.75	19	CLR	NC			10.00	71	66	68	84	9	15	30.07	30.16		
22	OVC	075			10.00	62	53	57	73	7	34	29.73	29.82	22	CLR	NC			8.00	67	65	66	93	5	17	30.09	30.18		
SUNRISE: 0436					JUN 02	SUNSET: 1924					SUNRISE: 0435					JUN 08	SUNSET: 1928												
01	SCT	NC			10.00	60	58	59	93	0	00	29.71	29.79	01	CLR	NC			7.00	65	63	64	93	0	00	30.13	30.22		
04	CLR	NC			10.00	58	57	57	97	0	00	29.72	29.81	04	CLR	NC			4.00	62	62	62	100	0	00	30.14	30.23		
07	CLR	NC			10.00	64	58	60	81	7	27	29.75	29.84	07	OVC	001			0.50	65	65	65	100	0	00	30.16	30.25		
10	CLR	NC			10.00	73	56	63	55	10	24	29.77	29.86	10	CLR	NC			10.00	76	67	70	74	7	22	30.16	30.25		
13	CLR	NC			10.00	79	57	66	47	8	29	29.77	29.85	13	CLR	NC			10.00	82	61	69	49	8	22	30.14	30.22		
16	FEW	NC			10.00					5	31	29.78		16	CLR	NC			10.00	80	66	71	62	15	16	30.07	30.16		
19	FEW	NC			10.00	72	57	63	60	3	21	29.80	29.89	19	CLR	NC			10.00	74	65	68	74	8	16	30.06	30.14		
22	FEW	NC			10.00	63	61	62	93	0	00	29.84	29.93	22	CLR	NC			9.00	71	67	68	87	0	00	30.08	30.17		
SUNRISE: 0436					JUN 03	SUNSET: 1925					SUNRISE: 0435					JUN 09	SUNSET: 1929												
01	OVC	095			10.00	61	60	60	97	3	31	29.84	29.93	01	CLR	NC			8.00	69	66	67	90	0	00	30.06	30.14		
04	OVC	085			10.00	61	60	60	97	0	00	29.86	29.95	04	CLR	NC			7.00	67	66	66	97	3	19	30.04	30.13		
07	CLR	NC			10.00	64	59	61	84	9	30	29.93	30.02	07	OVC	005			2.50	70	69	69	97	0	00	30.05	30.13		
10	BKN	037			10.00	70	58	63	66	10	30	29.95	30.04	10	CLR	NC			8.00	82	71	75	69	3	VR	30.02	30.11		
13	SCT	NC			10.00	75	54	63	48	9	30	29.96	30.05	13	SCT	NC			10.00	89	69	75	52	6	26	29.95	30.03		
16	FEW	NC			10.00	75	48	60	39	8	27	29.97	30.06	16	CLR	NC			10.00	89	68	75	50	12	20	29.88	29.96		
19	CLR	NC			10.00	72	48	59	43	6	27	30.00	30.09	19	CLR	NC			8.00	84	70	74	63	7	22	29.85	29.93		
22	CLR	NC			10.00	66	51	58	59	5	26	30.04	30.13	22	CLR	NC			8.00	78	70	73	76	6	22	29.87	29.95		
SUNRISE: 0436					JUN 04	SUNSET: 1926					SUNRISE: 0434					JUN 10	SUNSET: 1929												
01	CLR	NC			10.00	59	53	56	81	0	00	30.07	30.15	01	CLR	NC			7.00	75	70	72	84	7	24	29.83	29.91		
04	CLR	NC			10.00	59	49	54	69	7	02	30.11	30.19	04	CLR	NC			7.00	73	69	70	87	3	25	29.80	29.89		
07	CLR	NC			10.00	64	48	55	56	9	03	30.14	30.23	07	CLR	NC			6.00	77	69	72	77	6	28	29.83	29.91		
10	CLR	NC			10.00	69	47	57	45	7	05	30.15	30.24	10	CLR	NC			10.00	84	67	73	57	10	32	29.82	29.91		
13	CLR	NC			10.00	72	51	60	48	7	VR	30.12	30.21	13	SCT	NC			10.00	84	68	73	59	10	33	29.79	29.88		
16	FEW	NC			10.00	70	54	61	57	8	13	30.08	30.17	16	BKN	037			10.00	84	70	74	63	8	32	29.75	29.83		
19	OVC	090			10.00	67	50	58	55	7	08	30.07	30.16	19	OVC	095			5.00	73	72	72	96	0	00	29.78	29.87		
22	OVC	080			10.00	64	52	57	65	10	07	30.05	30.14	22	OVC	040			6.00	69	69	69	100	7	04	29.80	29.89		
SUNRISE: 0435					JUN 05	SUNSET: 1926					SUNRISE: 0434					JUN 11	SUNSET: 1930												
01	OVC	060			10.00	63	55	58	76	8	05	30.02	30.11	01	OVC	013			8.00	65	64	64	97	9	06	29.81	29.89		
04	OVC	048			10.00	61	57	59	87	12	05	29.98	30.07	04	OVC	020			7.00	62	61	61	96	10	06	29.82	29.91		
07	OVC	014			7.00	61	59	60	93	14	07	29.99	30.08	07	OVC	009			10.00	61	58	59	90	15	04	29.86	29.95		
10	OVC	011			7.00	61	60	60	97	13	04	29.98	30.06	10	OVC	018			10.00	59	56	57	90	12	05	29.89	29.98		
13	OVC	013			8.00	62	61	61	96	14	04	29.94	30.03	13	OVC	036			10.00	59	55	57	87	7	05	29.91	30.00		
16	OVC	006			5.00	61	60	60	97	15	05	29.93	30.02	16	BKN	014			10.00	59	55	57	87	0	00	29.88	29.97		
19	OVC	008			2.50	59	58	58	96	12	02	29.95	30.03	19	OVC	049			10.00	59	57	58	93	5	22	29.88	29.97		
22	OVC	009			10.00	59	58	58	96	13	05	29.95	30.04	22	BKN	060			8.00	58	57	57	97	3	28	29.91	30.00		
SUNRISE: 0435					JUN 06	SUNSET: 1927					SUNRISE: 0434					JUN 12	SUNSET: 1930												
01	OVC	007			10.00	59	59	59	100	14	06	29.93	30.02	01	CLR	NC			2.50	55	55	55	100	5	32	29.92	30.01		
04	OVC	009			10.00	60	58	59	93	10	05	29.93	30.02	04	CLR	NC			6.00	52	52	52	100	6	32	29.95	30.03		
07	OVC	015			3.00	59	57	58	93	9	05	29.99	30.07	07	CLR	NC			10.00	61	56	58	84	7	02	30.01	30.10		
10	OVC	009			10.00	59	57	58	93	6	35	30.00	30.09	10	CLR	NC			10.00	69	43	55	39	6	05	30.06	30.15		
13	OVC	014			10.00	63	57	60	81	9	01	29.99	30.08	13	CLR	NC			10.00	73	44	57	36	7	16	30.05	30.14		
16	OVC	020			10.00	64	57	60	78	5	33	30.00	30.09	16	CLR	NC			10.00	74	46	59	37	9	15	30.02	30.10		
19	OVC	032			10.00	64	58	60	81	0	00	30.01	30.09	19	CLR	NC			10.00	68	50	58	53	18	16	30.05	30.14		
22	BKN	034			10.00	61	58	59	90	0	00	30.03	30.12	22	CLR	NC			10.00	63	51								

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JUNE 2004

ILG

WBAN # 13781

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0434 JUN 13 SUNSET: 1931						SUNRISE: 0435 JUN 19 SUNSET: 1933																							
01	CLR	NC			10.00	59	48	53	67	5	23	30.14	30.23	01	CLR	NC			8.00	75	73	74	94	7	25	29.80	29.88		
04	CLR	NC			10.00	55	49	52	80	0	00	30.12	30.21	04	BKN	070			10.00	73	67	69	81	9	30	29.78	29.86		
07	CLR	NC			10.00	60	52	56	75	3	18	30.16	30.25	07	CLR	NC			10.00	73	65	68	76	13	31	29.79	29.88		
10	OVC	060			10.00	67	46	56	47	12	18	30.17	30.26	10	CLR	NC			10.00	78	63	68	60	9	31	29.80	29.89		
13	OVC	060			10.00	70	53	60	55	12	15	30.12	30.21	13	CLR	NC			10.00	82	61	69	49	17	29	29.79	29.88		
16	OVC	055			10.00	68	55	61	63	15	14	30.10	30.19	16	BKN	085			10.00	78	63	68	60	13	31	29.79	29.87		
19	OVC	048			10.00	65	57	60	76	14	13	30.07	30.15	19	CLR	NC			10.00	73	62	66	69	7	31	29.80	29.89		
22	OVC	046			10.00	67	58	62	73	13	16	30.06	30.15	22	CLR	NC			10.00	66	55	60	68	7	31	29.86	29.95		
SUNRISE: 0434 JUN 14 SUNSET: 1931						SUNRISE: 0435 JUN 20 SUNSET: 1933																							
01	OVC	037			10.00	66	58	61	75	12	16	30.03	30.11	01	CLR	NC			10.00	63	45	54	52	7	33	29.90	29.99		
04	OVC	026			10.00	67	61	63	81	7	17	29.99	30.08	04	CLR	NC			10.00	56	46	51	70	5	32	29.95	30.03		
07	OVC	026			10.00	70	66	67	87	8	18	29.97	30.06	07	CLR	NC			10.00	60	46	53	60	6	33	30.02	30.10		
10	OVC	020			10.00	74	66	69	76	12	20	29.95	30.04	10	CLR	NC			10.00	65	46	55	51	6	31	30.01	30.09		
13	OVC	024			10.00	77	68	71	74	7	22	29.94	30.03	13	CLR	NC			10.00	71	47	58	42	0	00	29.98	30.07		
16	SCT	NC			10.00	82	70	74	67	9	17	29.90	29.98	16	CLR	NC			10.00	72	47	58	41	9	28	29.93	30.02		
19	BKN	032			10.00	78	71	73	79	6	17	29.91	29.99	19	CLR	NC			10.00	68	46	56	45	7	29	29.94	30.02		
22	BKN	080			10.00	71	70	70	96	6	21	29.93	30.02	22	CLR	NC			10.00	64	48	55	56	5	24	29.95	30.04		
SUNRISE: 0434 JUN 15 SUNSET: 1932						SUNRISE: 0435 JUN 21 SUNSET: 1933																							
01	OVC	020			10.00	69	69	69	100	0	00	29.93	30.02	01	CLR	NC			10.00	57	53	55	87	0	00	29.94	30.03		
04	CLR	NC			10.00	71	70	70	96	3	24	29.91	30.00	04	CLR	NC			10.00	55	53	54	93	0	00	29.95	30.04		
07	OVC	017			10.00	74	72	73	94	6	23	29.96	30.04	07	CLR	NC			10.00	63	54	58	73	0	00	29.97	30.06		
10	OVC	017			10.00	78	72	74	82	8	21	29.96	30.05	10	CLR	NC			10.00	73	56	63	55	9	14	29.96	30.04		
13	SCT	NC			10.00	82	72	75	72	5	22	29.95	30.03	13	BKN	060			10.00	75	54	63	48	10	18	29.91	30.00		
16	SCT	NC			10.00	87	74	78	65	10	17	29.91	30.00	16	SCT	NC			10.00	76	59	66	56	12	15	29.86	29.94		
19	BKN	022			7.00	72	69	70	91	7	16	29.97	30.06	19	FEW	NC			10.00	74	59	65	60	8	18	29.83	29.91		
22	CLR	NC			10.00	71	70	70	96	0	00	29.98	30.07	22	FEW	NC			10.00	71	57	63	61	10	19	29.84	29.93		
SUNRISE: 0434 JUN 16 SUNSET: 1932						SUNRISE: 0435 JUN 22 SUNSET: 1934																							
01	CLR	NC			7.00	71	71	71	100	0	00	29.99	30.08	01	CLR	NC			10.00	67	59	62	76	8	17	29.81	29.90		
04	CLR	NC			8.00	72	71	71	97	0	00	29.99	30.08	04	CLR	NC			10.00	67	61	63	81	8	16	29.79	29.88		
07	FEW	NC			8.00	75	72	73	90	0	00	30.04	30.13	07	CLR	NC			10.00	69	63	65	81	7	18	29.79	29.87		
10	BKN	018			10.00	78	72	74	82	0	00	30.05	30.14	10	FEW	NC			10.00	80	66	71	62	7	22	29.75	29.83		
13	BKN	027			10.00	81	74	76	79	3	18	30.04	30.12	13	FEW	NC			10.00	82	66	71	58	9	23	29.72	29.81		
16	CLR	NC			6.00	82	73	76	74	9	15	30.00	30.08	16	FEW	NC			10.00	81	69	73	67	7	19	29.70	29.79		
19	SCT	NC			5.00	75	74	74	96	6	11	30.02	30.11	19	BKN	040			10.00	70	68	69	93	5	19	29.73	29.82		
22	OVC	004			8.00	74	74	74	100	5	15	30.00	30.08	22	CLR	NC			10.00	69	67	68	93	5	24	29.75	29.84		
SUNRISE: 0434 JUN 17 SUNSET: 1932						SUNRISE: 0436 JUN 23 SUNSET: 1934																							
01	OVC	005			7.00	75	74	74	96	0	00	29.98	30.07	01	CLR	NC			8.00	69	68	68	96	5	30	29.77	29.85		
04	CLR	NC			5.00	74	73	73	97	0	00	29.95	30.03	04	CLR	NC			10.00	70	68	69	93	7	33	29.78	29.87		
07	OVC	015			2.50	75	74	74	96	0	00	29.96	30.05	07	CLR	NC			10.00	72	67	69	84	5	34	29.84	29.92		
10	BKN	022			5.00	81	74	76	79	5	24	29.95	30.03	10	CLR	NC			10.00	77	59	66	54	3	VR	29.88	29.97		
13	FEW	NC			6.00	85	73	77	68	6	21	29.91	29.99	13	SCT	NC			10.00	76	64	68	67	9	16	29.90	29.99		
16	SCT	NC			10.00	74	72	73	94	6	29	29.86	29.95	16	CLR	NC			10.00	76	61	67	60	6	21	29.89	29.98		
19	CLR	NC			10.00	78	74	75	87	6	18	29.84	29.93	19	CLR	NC			10.00	74	61	66	64	6	23	29.90	29.99		
22	SCT	NC			10.00	71	70	70	96	6	20	29.88	29.96	22	CLR	NC			10.00	69	63	65	81	0	00	29.92	30.01		
SUNRISE: 0435 JUN 18 SUNSET: 1933						SUNRISE: 0436 JUN 24 SUNSET: 1934																							
01	CLR	NC			10.00	71	70	70	96	6	19	29.85	29.93	01	CLR	NC			10.00	67	63	64	87	0	00	29.91	30.00		
04	OVC	005			8.00	73	72	72	96	5	26	29.82	29.91	04	CLR	NC			7.00	63	62	62	97	0	00	29.91	30.00		
07	FEW	NC			9.00	75	73	74	94	6	25	29.86	29.94	07	CLR	NC			5.00	69	65	66	87	0	00	29.94	30.03		
10	FEW	NC			10.00	81	71	74	72	7	32	29.85	29.94	10	CLR	NC			10.00	76	63	68	64	6	17	29.97	30.05		
13	BKN	040			10.00	85	71	75	63	7	29	29.83	29.91	13	SCT	NC			10.00	80	67	71	64	12	13	29.97	30.06		
16	CLR	NC			10.00	88	72	77	59	7	32	29.78	29.86	16	CLR	NC			10.00	79	63	69	58	13	16	29.96	30.05		
19	FEW	NC			10.00	84	71	75	65	5	26	29.79	29.88	19	CLR	NC			10.00	76	63	68	64	12	16	29.97	30.06		
22	CLR	NC			10.00	78	72	74	82	0	00	29.80	29.88	22	CLR	NC			10.00	72	66	68	82	6	15	30.01	30.09		

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JUNE 2004

ILG

WBAN # 13781

HOUR (LST)			SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)	
	SKY COVER	CEILING 100'S OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0436 JUN 25 SUNSET: 1934														
01	CLR	NC			10.00		71	66	68	84	6	16	29.99	30.07
04	CLR	NC			10.00		68	64	66	87	5	17	29.98	30.06
07	BKN	055			10.00		71	64	67	79	7	17	30.01	30.09
10	OVC	019			6.00	HZ	76	69	71	79	0	00	29.99	30.08
13	CLR	NC			7.00	HZ	79	70	73	74	7	VR	29.95	30.04
16	SCT	NC			10.00	HZ	74	62	67	67	3	25	29.90	29.99
19	OVC	038			10.00	-RA	69	64	66	84	7	18	29.89	29.97
22	OVC	095			9.00	-RA	69	67	68	93	5	06	29.88	29.97
SUNRISE: 0437 JUN 26 SUNSET: 1934														
01	OVC	110			8.00		68	67	67	96	0	00	29.84	29.92
04	CLR	NC			6.00	BR	67	67	67	100	0	00	29.78	29.87
07	OVC	001			1.50	BR	68	68	68	100	0	00	29.79	29.88
10	SCT	NC			10.00		76	66	70	72	6	34	29.79	29.88
13	FEW	NC			10.00		78	65	70	64	9	28	29.80	29.88
16	FEW	NC			10.00		78	57	65	48	14	31	29.80	29.89
19	CLR	NC			10.00		73	50	60	44	12	32	29.87	29.96
22	CLR	NC			10.00		65	52	58	63	7	27	29.93	30.02
SUNRISE: 0437 JUN 27 SUNSET: 1934														
01	CLR	NC			10.00		61	52	56	72	6	28	29.98	30.07
04	CLR	NC			10.00		58	51	54	78	0	00	30.00	30.09
07	CLR	NC			10.00		64	51	57	63	5	27	30.05	30.14
10	CLR	NC			10.00		71	48	58	44	9	23	30.05	30.14
13	SCT	NC			10.00		76	53	63	45	9	20	30.00	30.09
16	SCT	NC			10.00		79	53	64	41	13	23	29.97	30.06
19	FEW	NC			10.00		74	54	62	50	7	29	29.99	30.07
22	CLR	NC			10.00		68	54	60	61	3	18	30.01	30.10
SUNRISE: 0437 JUN 28 SUNSET: 1934														
01	CLR	NC			10.00		64	56	59	75	0	00	30.01	30.10
04	CLR	NC			10.00		59	57	58	93	0	00	30.01	30.09
07	CLR	NC			10.00		68	56	61	66	0	00	30.02	30.11
10	SCT	NC			10.00		77	56	64	48	0	00	30.01	30.10
13	BKN	075			10.00		78	55	64	45	6	19	29.98	30.06
16	FEW	NC			10.00		78	59	66	52	9	17	29.91	30.00
19	BKN	100			10.00		74	64	68	71	8	16	29.91	30.00
22	CLR	NC			10.00		70	63	66	79	3	19	29.92	30.01
SUNRISE: 0438 JUN 29 SUNSET: 1934														
01	OVC	036			7.00	VCTS RA	64	62	63	93	0	00	29.93	30.02
04	CLR	NC			10.00		60	59	59	96	7	30	29.95	30.04
07	CLR	NC			10.00		63	59	61	87	12	30	30.01	30.09
10	FEW	NC			10.00		70	58	63	66	7	30	30.04	30.12
13	FEW	NC			10.00		74	56	63	54	8	29	30.03	30.11
16	CLR	NC			10.00		76	54	63	47	12	27	30.01	30.10
19	CLR	NC			10.00		73	55	62	53	5	29	30.02	30.11
22	CLR	NC			10.00		69	54	60	59	5	21	30.04	30.13
SUNRISE: 0438 JUN 30 SUNSET: 1934														
01	CLR	NC			10.00		63	57	60	81	3	25	30.05	30.14
04	CLR	NC			10.00		59	55	57	87	3	27	30.07	30.15
07	CLR	NC			10.00		66	57	61	73	3	24	30.10	30.19
10	CLR	NC			10.00		77	56	64	48	6	25	30.10	30.19
13	BKN	060			10.00		81	56	66	42	5	29	30.09	30.17
16	BKN	060			10.00		81	56	66	42	0	00	30.06	30.14
19	CLR	NC			10.00		76	62	67	62	9	16	30.06	30.15
22	CLR	NC			10.00		72	68	69	87	3	16	30.08	30.17

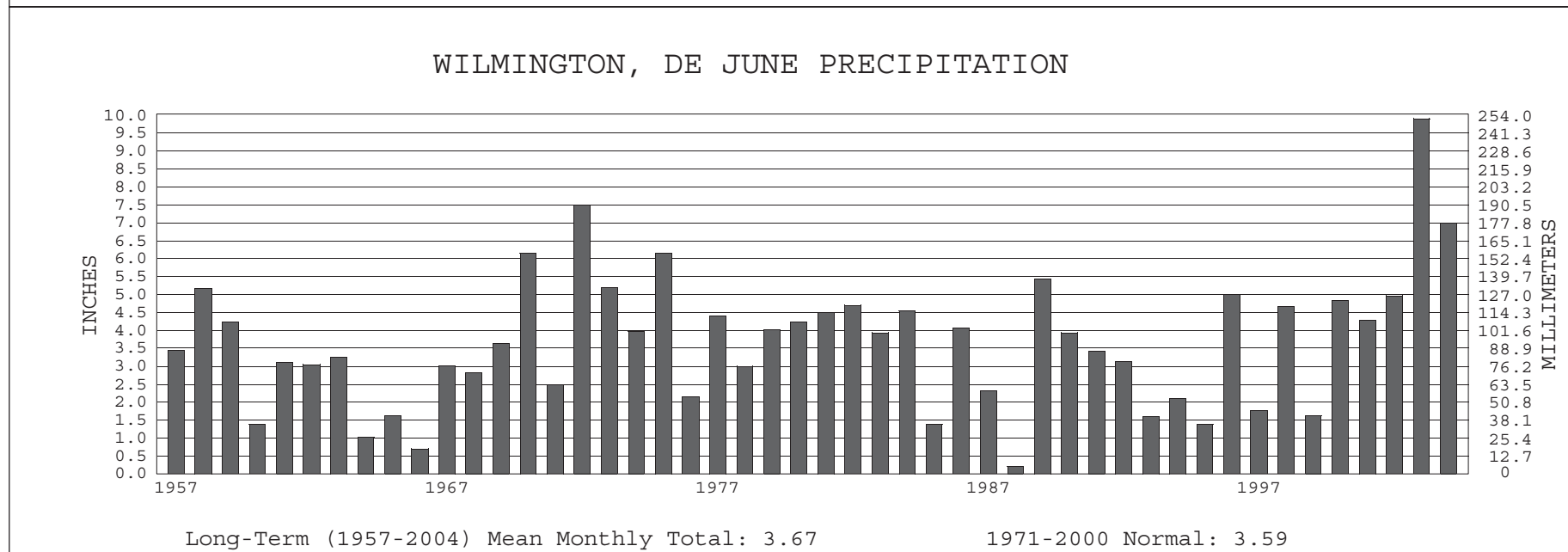
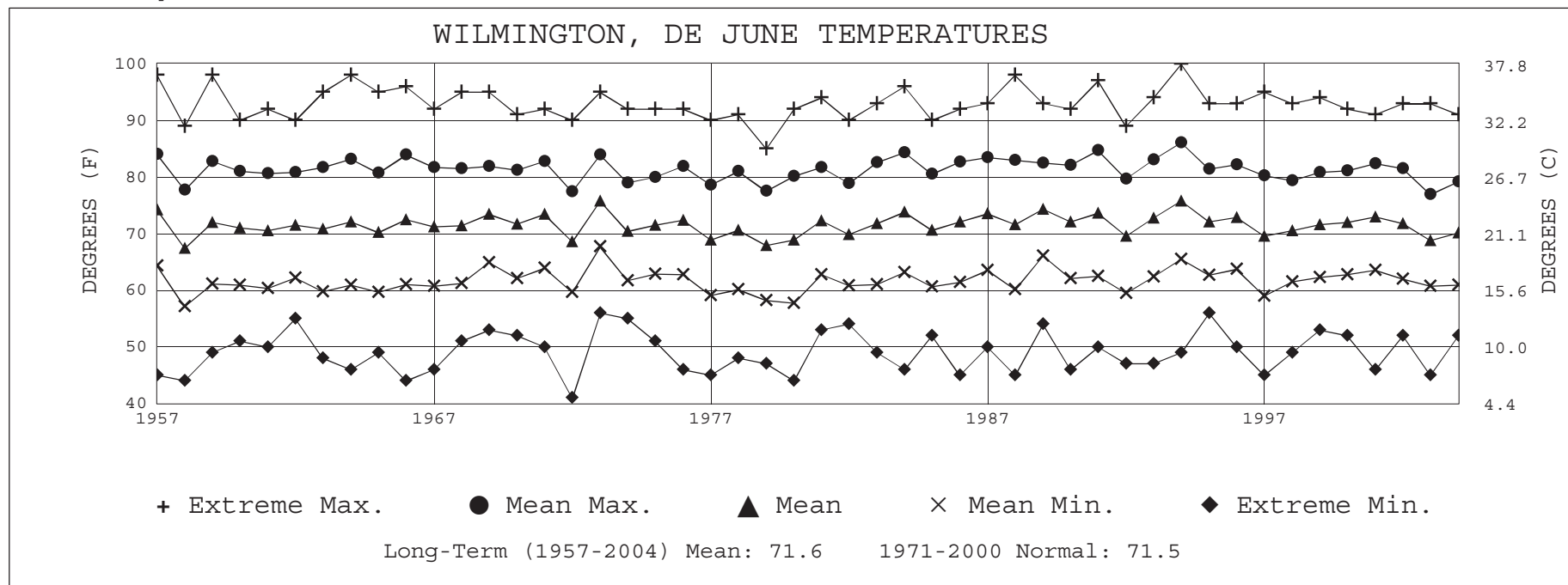
HOUR (LST)	SKY COVER	CEILING 100'S OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)	
							DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: JUN 31 SUNSET:														

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.
NC= No ceiling detected.
& = Original observation contained additional weather elements.
See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			65	61	63	88	29.93	30.01	8.58	4	0	0
02			64	61	62	89	29.92	30.01	8.77	5	1	30
03			64	61	62	89	29.92	30.01	8.60	5	1	32
04			63	60	61	91	29.92	30.01	8.35	4	1	35
05			63	60	61	91	29.93	30.02	7.40	4	1	32
06			64	61	62	90	29.94	30.03	7.37	4	1	31
07			67	61	64	84	29.96	30.04	7.87	5	2	32
08			69	61	65	77	29.96	30.05	8.83	7	2	31
09			71	61	65	71	29.96	30.05	9.70	7	1	29
10			73	60	65	66	29.96	30.05	9.50	7	2	26
11			75	60	66	63	29.96	30.05	9.77	7	2	25
12			76	61	66	61	29.95	30.04	9.70	7	2	26
13			77	61	67	60	29.94	30.03	9.70	7	2	24
14			77	61	67	59	29.93	30.02	9.90	8	4	22
15			77	60	66	58	29.92	30.01	9.87	8	3	23
16			76	61	67	61	29.91	30.01	9.70	9	3	21
17			75	61	66	62	29.91	30.00	9.58	9	3	21
18			74	61	66	66	29.91	30.00	9.12	9	4	20
19			72	61	65	71	29.92	30.01	9.25	7	3	18
20			70	61	65	75	29.93	30.02	9.70	5	2	19
21			69	61	64	78	29.94	30.03	9.51	6	2	17
22			68	61	64	81	29.94	30.03	9.53	5	2	18
23			67	61	63	83	29.95	30.04	9.07	5	1	22
24			66	61	63	85	29.94	30.03	8.87	5	1	23





JUNE 2004

WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

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