



# AUGUST 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		
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	80	70	75	-2	73	74	0	10	RA BR VCTS	0		0.0	1.78	29.96	30.04	4.1	17	5.3	17	30	15	30	01
02	85	71	78	1	73	74	0	13	BR HZ	0		0.0	0.00	29.88	29.96	3.8	15	4.9	17	15	16	15	02
03	85	72	79	2	72	74	0	14	RA VCTS	0		0.0	T	29.76	29.84	2.5	16	2.9	17	15	15	15	03
04	89	70	80	3	69	72	0	15	RA BR	0		0.0	0.44	29.67	29.75	3.6	29	5.6	36*	28	26*	29	04
05	76	66	71	-5	63	66	0	6	RA	0		0.0	T	29.70	29.78	6.1	35	7.0	18	01	17	02	05
06	74	56	65	-11	49	56	0	0		0		0.0	0.00	29.81	29.89	9.8	33	10.2	22	31	20	32	06
07	72	53*	63*	-13	50	56	2	0		0		0.0	0.00	29.90	29.98	6.0	30	6.6	20	28	16	28	07
08	80	54	67	-9	55	60	0	2		0		0.0	0.00	30.02	30.10	5.2	26	5.9	20	28	16	29	08
09	85	59	72	-4	59	64	0	7		0		0.0	0.00	30.03	30.11	3.1	27	3.9	21	27	10	30	09
10	85	66	76	0	65	69	0	11		0		0.0	0.00	29.90	29.98	6.0	18	6.2	18	19	15	20	10
11	85	68	77	1	68	70	0	12	RA BR	0		0.0	0.05	29.83	29.91	5.2	19	5.8	15	25	14	25	11
12	82	69	76	0	71	72	0	11	TS TSRA RA BR VCTS	0		0.0	1.50	29.85	29.93	5.7	14	6.2	22	14	18	14	12
13	78	68	73	-3	68	70	0	8	RA	0		0.0	0.04	29.85	29.93	4.7	22	7.1	16	24	14	23	13
14	71	64	68	-8	64	65	0	3	RA BR	0		0.0	0.45	30.06	30.14	1.7	30	3.7	12	10	9	09	14
15	77	66	72	-3	66	68	0	7	BR HZ	0		0.0	0.00	30.13	30.21	2.2	22	3.1	12	19	9	21	15
16	83	64	74	-1	64	67	0	9	RA BR HZ	0		0.0	0.14	30.08	30.17	1.8	28	3.4	16	36	10	32	16
17	80	60	70	-5	61	65	0	5	VCTS	0		0.0	0.00	30.03	30.11	2.3	15	4.7	16	14	14	15	17
18	80	67	74	-1	68	70	0	9	RA BR HZ VCTS	0		0.0	0.01	29.93	30.01	4.2	17	5.2	22	13	17	18	18
19	85	71	78	3	71	73	0	13	RA BR HZ	0		0.0	T	29.91	29.99	5.8	20	6.2	16	22	12	23	19
20	89*	72	81*	6	73	75	0	16	BR	0		0.0	0.00	29.91	29.99	5.9	17	6.5	17	18	13	19	20
21	81	61	71	-3	68	70	0	6	RA BR HZ	0		0.0	0.20	29.79	29.88	4.0	23	8.0	20	29	16	30	21
22	76	54	65	-9	54	59	0	0		0		0.0	0.00	29.97	30.06	0.8	35	3.1	13	36	10	07	22
23	82	56	69	-5	61	64	0	4		0		0.0	0.00	29.95	30.03	1.8	22	2.3	13	23	8	20	23
24	82	63	73	-1	65	68	0	8	BR HZ	0		0.0	0.00	30.06	30.14	4.4	07	5.5	18	06	14	05	24
25	79	65	72	-2	64	67	0	7	BR HZ	0		0.0	0.00	30.20	30.28	4.7	09	6.3	14	17	13	17	25
26	80	65	73	-1	65	68	0	8		0		0.0	0.00	30.17	30.26	5.2	14	5.8	17	15	15	15	26
27	84	69	77	4	69	71	0	12	BR	0		0.0	0.00	30.06	30.15	4.6	17	5.1	17	15	15	16	27
28	88	70	79	6	71	73	0	14		0		0.0	0.00	29.92	30.00	5.7	19	6.3	15	15	14	16	28
29	84	69	77	4	71	73	0	12		0		0.0	0.00	29.90	29.98	5.9	15	6.1	16	16	14	16	29
30	81	72	77	4	74	74	0	12	RA BR VCTS	0		0.0	0.54	29.87	29.96	3.0	05	4.8	13	36	10	01	30
31	81	63	72	0	67	69	0	7	RA BR VCTS	0		0.0	0.18	29.93	30.02	8.4	32	8.9	23	32	18	30	31
81.3 64.9 73.1 ■■										65.5 68.3 0.1 8.4		< MONTHLY AVERAGES TOTALS->		0.0 5.33		29.94 30.02		1.2 18 5.6		<- MONTHLY AVERAGES			
-2.8 - .9 -1.9 ■■										<-----DEPARTURE FROM NORMAL----->		1.82		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.78 DATE :01				SEA LEVEL PRESSURE DATE TIME										
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE :				MAXIMUM : 30.31 25 2151										
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.71 05 0351										
HEATING: 2 0			COOLING: 261 -56			2 2		-1 -1		NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 11							
										MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 8		SNOWFALL ≥ 1.0 INCH : 0							
										THUNDERSTORMS : 1		HEAVY FOG : 0											

AUGUST 2004 WILMINGTON, DE

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# WILMINGTON, DE

AUGUST 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					0.03	0.01		1.10	0.60	0.01	0.03	T	01	T											01		1.78		
02													02												02		0.00		
03													03												03		T		
04													04							0.43	0.01				04	T	0.44		
05		T		T	T								05											05		T			
06													06											06		0.00			
07													07											07		0.00			
08													08											08		0.00			
09													09											09		0.00			
10													10											10		0.00			
11													11					T	0.03					11	0.03	0.05			
12												T	12	0.06	0.34	0.93	0.17							12		1.50			
13												T	13	T	T	T	0.02				T	T		13		0.04			
14			0.01	0.01	T			T	0.12	0.01	T	T	14	0.02	T	T				0.04	0.02	T	0.03	0.06	0.08	0.07	T	0.45	
15			T	T									15											15		0.00			
16				T	0.10	0.04	T						16											16		0.14			
17													17											17		0.00			
18	T		0.01										18											18		0.01			
19												T	19											19		T			
20													20											20		0.00			
21												T	21		0.03	0.16	0.01							21		0.20			
22													22											22		0.00			
23													23											23		0.00			
24													24											24		0.00			
25													25											25		0.00			
26													26											26		0.00			
27													27											27		0.00			
28													28											28		0.00			
29													29											29		0.00			
30	0.02										0.02	0.06	30	0.06	0.01	0.33	T	0.05	T	0.01				30	T	0.54			
31		0.16	T	T		T							31											31		0.18			

## 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.

## REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

\* = 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

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

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

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

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

NORMALS ARE FOR THE YEARS 1971–2000

### WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    ' ' = Moderate    '-' = Light

## WILMINGTON, DE AUGUST 2004

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

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.

### ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.75	10.00	
02							3.00	10.00	
03							8.00	10.00	
04							1.75	10.00	
05							9.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							7.00	10.00	
11							4.00	10.00	
12							2.00	10.00	
13							8.00	10.00	
14							1.75	10.00	
15							2.00	10.00	
16							2.00	10.00	
17							7.00	10.00	
18							2.00	10.00	
19							5.00	10.00	
20							5.00	10.00	
21							4.00	10.00	
22							10.00	10.00	
23							8.00	10.00	
24							2.50	10.00	
25							4.00	10.00	
26							10.00	10.00	
27							8.00	10.00	
28							7.00	10.00	
29							9.00	10.00	
30							1.50	10.00	
31							10.00	10.00	
<b>MONTHLY AVGS</b>							6.33	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 0            8            17									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

AUGUST 2004

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				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	RELATIVE HUMIDITY (PCT)	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	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0502				AUG 01				SUNSET: 1916				SUNRISE: 0507				AUG 07				SUNSET: 1909									
01	OVC	017		10.00		77	73	74	88	5	18	29.97	30.06	01	OVC	100		10.00		58	49	53	72	0	00	29.84	29.93		
04	OVC	009		10.00		76	74	75	94	9	17	29.95	30.03	04	CLR	NC		10.00		54	49	51	83	3	31	29.83	29.91		
07	OVC	008		10.00		76	75	75	97	7	20	29.97	30.05	07	BKN	090		10.00		58	51	54	78	7	31	29.87	29.96		
10	SCT	NC		10.00	-RA	74	72	73	94	0	00	29.98	30.06	10	CLR	NC		10.00		67	49	57	53	12	35	29.89	29.98		
13	CLR	NC		10.00		78	72	74	82	6	20	29.98	30.06	13	OVC	075		10.00		68	49	57	51	8	32	29.89	29.97		
16	CLR	NC		10.00		79	72	74	79	8	15	29.94	30.02	16	FEW	NC		10.00		70	49	58	47	13	29	29.89	29.98		
19	CLR	NC		10.00		77	73	74	88	6	17	29.93	30.02	19	SCT	NC		10.00		65	51	57	61	7	29	29.92	30.01		
22	CLR	NC		10.00		75	73	74	94	0	00	29.94	30.02	22	CLR	NC		10.00		58	51	54	78	0	00	29.97	30.06		
SUNRISE: 0503				AUG 02				SUNSET: 1915				SUNRISE: 0508				AUG 08				SUNSET: 1908									
01	SCT	NC		10.00		73	73	73	100	0	00	29.93	30.01	01	CLR	NC		10.00		56	52	54	87	0	00	29.98	30.07		
04	CLR	NC		10.00		72	72	72	100	0	00	29.91	29.99	04	CLR	NC		10.00		56	52	54	87	3	28	30.00	30.09		
07	CLR	NC		3.00	BR	75	73	74	94	3	21	29.91	29.99	07	CLR	NC		10.00		61	54	57	78	5	25	30.04	30.12		
10	FEW	NC		4.00	BR	81	73	75	77	3	VR	29.91	30.00	10	CLR	NC		10.00		72	56	63	57	9	24	30.03	30.12		
13	SCT	NC		10.00		85	73	77	68	9	16	29.87	29.96	13	BKN	060		10.00		78	56	65	47	13	27	30.00	30.09		
16	CLR	NC		10.00		82	74	76	77	15	15	29.84	29.92	16	FEW	NC		10.00		79	54	64	42	8	29	30.00	30.09		
19	CLR	NC		10.00		77	73	74	88	7	13	29.84	29.93	19	CLR	NC		10.00		75	53	62	46	0	00	30.01	30.10		
22	FEW	NC		10.00		76	74	75	94	5	19	29.85	29.93	22	CLR	NC		10.00		68	58	62	70	6	22	30.03	30.12		
SUNRISE: 0504				AUG 03				SUNSET: 1914				SUNRISE: 0509				AUG 09				SUNSET: 1907									
01	BKN	023		10.00		75	73	74	94	0	00	29.84	29.92	01	CLR	NC		10.00		64	60	62	87	5	24	30.04	30.13		
04	CLR	NC		8.00		73	73	73	100	0	00	29.79	29.87	04	CLR	NC		10.00		62	58	60	86	3	26	30.04	30.12		
07	CLR	NC		10.00		75	73	74	94	0	00	29.81	29.90	07	CLR	NC		10.00		65	58	61	78	0	00	30.06	30.14		
10	SCT	NC		10.00		79	72	74	79	0	00	29.79	29.88	10	CLR	NC		10.00		79	58	66	49	5	32	30.07	30.15		
13	CLR	NC		10.00		84	72	76	67	3	13	29.74	29.83	13	FEW	NC		10.00		82	58	67	44	6	29	30.03	30.12		
16	CLR	NC		10.00		81	74	76	79	14	16	29.73	29.81	16	CLR	NC		10.00		83	58	67	43	9	30	29.99	30.08		
19	CLR	NC		10.00		78	72	74	82	0	00	29.69	29.78	19	CLR	NC		10.00		77	60	67	56	5	22	29.99	30.08		
22	CLR	NC		10.00		75	72	73	90	0	00	29.69	29.77	22	CLR	NC		10.00		72	59	64	64	3	21	30.00	30.08		
SUNRISE: 0505				AUG 04				SUNSET: 1913				SUNRISE: 0510				AUG 10				SUNSET: 1905									
01	CLR	NC		10.00		73	72	72	96	0	00	29.68	29.76	01	CLR	NC		10.00		69	62	65	78	0	00	29.98	30.06		
04	CLR	NC		6.00	BR	72	72	72	100	6	27	29.66	29.75	04	CLR	NC		10.00		68	63	65	84	0	00	29.95	30.03		
07	CLR	NC		8.00		75	70	72	84	8	33	29.68	29.76	07	CLR	NC		9.00		70	66	67	87	3	16	29.94	30.03		
10	CLR	NC		10.00		84	69	74	61	7	32	29.69	29.78	10	CLR	NC		10.00		76	67	70	74	8	19	29.94	30.02		
13	CLR	NC		10.00		87	67	73	51	7	31	29.66	29.74	13	CLR	NC		10.00		81	68	72	65	7	17	29.88	29.97		
16	CLR	NC		10.00		86	67	73	53	3	25	29.64	29.72	16	CLR	NC		10.00		84	62	70	48	12	21	29.83	29.91		
19	FEW	NC		10.00		82	69	73	65	5	17	29.63	29.71	19	CLR	NC		10.00		79	66	71	65	7	18	29.84	29.92		
22	BKN	024		10.00		73	71	72	94	8	22	29.66	29.75	22	CLR	NC		10.00		75	67	70	76	10	16	29.83	29.91		
SUNRISE: 0506				AUG 05				SUNSET: 1911				SUNRISE: 0511				AUG 11				SUNSET: 1904									
01	BKN	090		9.00		72	71	71	97	5	27	29.63	29.71	01	CLR	NC		10.00		73	68	70	84	7	19	29.82	29.91		
04	FEW	NC		10.00		71	70	70	96	0	00	29.62	29.71	04	SCT	NC		10.00		71	67	68	87	5	19	29.81	29.89		
07	BKN	041		10.00		67	63	64	87	9	36	29.68	29.76	07	CLR	NC		9.00		71	67	68	87	6	18	29.84	29.93		
10	OVC	024		10.00		71	62	65	73	12	03	29.72	29.80	10	CLR	NC		10.00		77	69	72	77	8	19	29.83	29.92		
13	BKN	044		10.00		74	62	67	67	9	35	29.72	29.80	13	SCT	NC		10.00		82	70	74	67	9	13	29.81	29.89		
16	CLR	NC		10.00		75	62	67	64	8	31	29.68	29.77	16	FEW	NC		10.00		83	68	73	61	7	22	29.79	29.88		
19	FEW	NC		10.00		71	64	67	79	6	31	29.70	29.79	19	SCT	NC		9.00		73	69	70	87	9	20	29.82	29.91		
22	BKN	100		10.00		68	59	63	73	5	35	29.77	29.85	22	CLR	NC		10.00		70	67	68	90	0	00	29.85	29.94		
SUNRISE: 0507				AUG 06				SUNSET: 1910				SUNRISE: 0512				AUG 12				SUNSET: 1903									
01	OVC	120		10.00		65	51	57	61	9	35	29.77	29.86	01	BKN	042		10.00		72	69	70	91	3	13	29.84	29.92		
04	OVC	085		10.00		62	49	55	62	9	35	29.77	29.86	04	CLR	NC		10.00		71	69	70	94	7	15	29.84	29.92		
07	SCT	NC		10.00		60	49	54	67	9	33	29.81	29.90	07	CLR	NC		10.00		73	71	72	94	5	17	29.87	29.96		
10	CLR	NC		10.00		68	48	57	49	16	33	29.81	29.90	10	BKN	015		10.00		77	72	74	85	7	14	29.87	29.96		
13	BKN	070		10.00		73	48	59	41	14	35	29.80	29.89	13	OVC	030		2.00	TSRA BR	78	74	75	87	8	16	29.84	29.93		
16	OVC	090		10.00		70	47	57	44	10	33	29.80	29.88	16	OVC	049		9.00	TS	73	71	72	94	3	32	29.82	29.91		
19	OVC	090		10.00		66	50	57	56	8	31	29.82	29.91	19	BKN	070		10.00		75	71	72	88	8	14	29.84	29.92		
22	SCT	NC		10.00		58	49	53	72	0	00	29.84	29.93	22	BKN	090		10.00		74	71	72	91	8	12	29.83	29.91		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

AUGUST 2004

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				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	RELATIVE HUMIDITY (PCT)	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	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<b>SUNRISE: 0513</b>				<b>AUG 13</b>				<b>SUNSET: 1902</b>				<b>SUNRISE: 0519</b>				<b>AUG 19</b>				<b>SUNSET: 1852</b>									
01	OVC	009		10.00	74	72	73	94	8	14	29.78	29.86	01	CLR	NC		10.00	71	70	70	96	5	19	29.88	29.97				
04	BKN	049		10.00	72	71	71	97	5	19	29.76	29.85	04	CLR	NC		10.00	71	70	70	96	6	19	29.88	29.97				
07	FEW	NC		10.00	71	69	70	94	6	19	29.79	29.88	07	OVC	008		9.00	73	71	72	94	6	18	29.90	29.99				
10	OVC	033		10.00	73	69	70	87	8	19	29.83	29.92	10	SCT	NC		10.00	77	70	72	79	6	25	29.95	30.03				
13	BKN	095		10.00	74	67	69	79	8	24	29.85	29.93	13	CLR	NC		10.00	81	70	74	69	7	20	29.91	29.99				
16	FEW	NC		10.00	77	68	71	74	7	VR	29.85	29.94	16	FEW	NC		10.00	84	69	74	61	9	22	29.90	29.98				
19	CLR	NC		10.00	74	66	69	76	5	26	29.88	29.97	19	CLR	NC		10.00	81	71	74	72	7	21	29.90	29.98				
22	CLR	NC		10.00	70	66	67	87	6	26	29.93	30.02	22	CLR	NC		9.00	78	72	74	82	5	20	29.93	30.02				
<b>SUNRISE: 0514</b>				<b>AUG 14</b>				<b>SUNSET: 1859</b>				<b>SUNRISE: 0520</b>				<b>AUG 20</b>				<b>SUNSET: 1851</b>									
01	FEW	NC		10.00	68	62	64	81	7	28	29.98	30.06	01	CLR	NC		7.00	75	73	74	94	3	18	29.92	30.01				
04	OVC	050		9.00	65	62	63	90	6	29	29.99	30.08	04	CLR	NC	BR	6.00	74	72	73	94	0	00	29.92	30.01				
07	OVC	080		8.00	65	62	63	90	7	29	30.04	30.13	07	CLR	NC		7.00	75	72	73	90	0	00	29.95	30.04				
10	OVC	033		9.00	67	63	64	87	6	32	30.08	30.17	10	CLR	NC		10.00	85	72	76	65	7	22	29.95	30.03				
13	BKN	049		10.00	69	63	65	81	0	00	30.10	30.19	13	FEW	NC		10.00	88	73	77	61	12	14	29.93	30.01				
16	BKN	085		10.00	69	64	66	84	5	18	30.10	30.18	16	CLR	NC		10.00	86	73	77	65	9	15	29.87	29.96				
19	BKN	110		9.00	67	65	66	93	0	00	30.07	30.16	19	CLR	NC		10.00	82	73	76	74	7	18	29.85	29.94				
22	OVC	031		6.00	67	66	66	97	8	07	30.05	30.14	22	CLR	NC	RA BR	9.00	80	73	75	79	10	17	29.84	29.93				
<b>SUNRISE: 0515</b>				<b>AUG 15</b>				<b>SUNSET: 1858</b>				<b>SUNRISE: 0521</b>				<b>AUG 21</b>				<b>SUNSET: 1849</b>									
01	OVC	008		4.00	67	67	67	100	0	00	30.06	30.15	01	CLR	NC		9.00	78	72	74	82	8	19	29.81	29.89				
04	OVC	014		3.00	67	67	67	100	3	30	30.06	30.15	04	SCT	NC		9.00	77	72	74	85	10	20	29.76	29.85				
07	OVC	034		2.00	68	67	67	96	3	27	30.13	30.22	07	CLR	NC	HZ	6.00	77	72	74	85	8	19	29.76	29.84				
10	OVC	038		5.00	73	66	69	79	0	00	30.15	30.24	10	OVC	021		7.00	80	73	75	79	10	20	29.74	29.82				
13	BKN	065		10.00	76	66	70	72	5	20	30.15	30.24	13	BKN	060		6.00	80	73	75	79	14	22	29.73	29.81				
16	CLR	NC		10.00	75	65	69	71	7	21	30.15	30.23	16	OVC	038		10.00	73	71	72	94	6	31	29.75	29.84				
19	CLR	NC		10.00	72	64	67	76	3	23	30.14	30.22	19	CLR	NC		10.00	68	62	64	81	7	35	29.83	29.92				
22	OVC	095		10.00	70	64	66	82	3	23	30.14	30.22	22	CLR	NC		10.00	62	59	60	90	3	31	29.91	30.00				
<b>SUNRISE: 0516</b>				<b>AUG 16</b>				<b>SUNSET: 1856</b>				<b>SUNRISE: 0521</b>				<b>AUG 22</b>				<b>SUNSET: 1848</b>									
01	OVC	100		8.00	69	66	67	90	3	17	30.14	30.22	01	CLR	NC		10.00	59	57	58	93	3	32	29.93	30.02				
04	OVC	100		9.00	68	66	67	93	0	00	30.12	30.21	04	CLR	NC		10.00	57	56	56	96	0	00	29.95	30.04				
07	SCT	NC		2.00	67	67	67	100	0	00	30.12	30.21	07	CLR	NC	BR	10.00	60	55	57	84	3	34	30.00	30.09				
10	CLR	NC		3.00	70	64	66	82	6	29	30.10	30.18	10	CLR	NC	HZ	10.00	69	52	59	55	5	VR	30.01	30.10				
13	SCT	NC		10.00	80	62	69	54	6	35	30.05	30.14	13	CLR	NC		10.00	73	52	61	48	3	VR	29.98	30.07				
16	FEW	NC		10.00	81	59	67	47	3	31	30.03	30.12	16	CLR	NC		10.00	74	52	61	46	6	18	29.95	30.03				
19	CLR	NC		10.00	75	64	68	69	5	22	30.03	30.12	19	CLR	NC		10.00	72	52	61	50	0	00	29.94	30.03				
22	CLR	NC		10.00	68	63	65	84	6	29	30.06	30.15	22	CLR	NC		10.00	65	56	60	73	0	00	29.96	30.04				
<b>SUNRISE: 0517</b>				<b>AUG 17</b>				<b>SUNSET: 1855</b>				<b>SUNRISE: 0522</b>				<b>AUG 23</b>				<b>SUNSET: 1846</b>									
01	CLR	NC		10.00	65	61	63	87	0	00	30.06	30.14	01	CLR	NC		10.00	61	56	58	84	0	00	29.95	30.04				
04	CLR	NC		9.00	62	60	61	93	0	00	30.06	30.15	04	CLR	NC		10.00	60	56	58	86	0	00	29.94	30.03				
07	CLR	NC		10.00	65	61	63	87	3	31	30.09	30.18	07	CLR	NC		10.00	62	58	60	86	0	00	29.97	30.06				
10	FEW	NC		10.00	75	58	65	55	7	03	30.08	30.17	10	FEW	NC		10.00	74	65	68	74	5	25	29.97	30.06				
13	FEW	NC		10.00	78	59	66	52	0	00	30.02	30.11	13	BKN	038		10.00	79	63	69	58	5	30	29.94	30.02				
16	BKN	090		10.00	79	59	67	50	6	13	29.98	30.06	16	CLR	NC		10.00	81	60	68	49	5	25	29.89	29.98				
19	BKN	090		10.00	74	65	68	74	9	15	29.96	30.05	19	CLR	NC		10.00	75	62	67	64	0	00	29.92	30.01				
22	BKN	075		8.00	73	69	70	87	8	16	29.98	30.06	22	CLR	NC		10.00	70	63	66	79	0	00	29.96	30.05				
<b>SUNRISE: 0518</b>				<b>AUG 18</b>				<b>SUNSET: 1854</b>				<b>SUNRISE: 0523</b>				<b>AUG 24</b>				<b>SUNSET: 1845</b>									
01	OVC	090		10.00	69	66	67	90	3	24	29.96	30.05	01	CLR	NC		5.00	65	64	64	97	0	00	29.97	30.05				
04	OVC	110		9.00	68	65	66	90	0	00	29.93	30.02	04	CLR	NC		5.00	63	63	63	100	0	00	29.97	30.06				
07	BKN	015		2.00	70	68	69	93	6	16	29.95	30.03	07	CLR	NC	BR	5.00	69	64	66	84	5	35	30.03	30.12				
10	BKN	017		4.00	74	68	70	82	3	21	29.96	30.05	10	CLR	NC	HZ	10.00	78	66	70	67	10	05	30.07	30.15				
13	CLR	NC		10.00	79	68	72	69	6	12	29.92	30.00	13	SCT	NC		10.00	80	68	72	67	10	06	30.06	30.15				
16	FEW	NC		10.00	79	70	73	74	10	16	29.88	29.97	16	BKN	033		10.00	78	67	71	69	9	11	30.04	30.13				
19	BKN	036		10.00	74	65	68	74	15	17	29.90	29.99	19	CLR	NC		10.00	73	65	68	76	9	11	30.10	30.18				
22	FEW	NC		10.00	73	69	70	87	8	20	29.91	30.00	22	BKN	017		10.00	68	64	66	87	0	00	30.13	30.22				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

AUGUST 2004

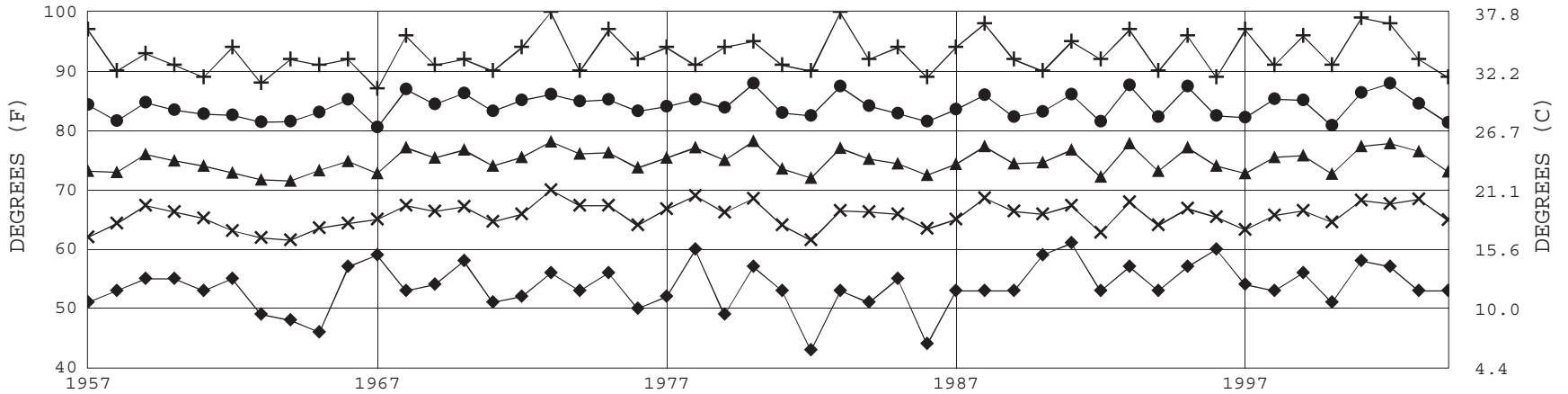
ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL																										
SUNRISE: 0524								AUG 25								SUNSET: 1843								SUNRISE: 0530								AUG 31								SUNSET: 1834							
01	CLR	NC				10.00		67	64	65	91	3	07	30.17	30.25	01	OVC	022					10.00		75	73	74	94	13	02	29.78	29.86															
04	OVC	019				10.00		67	65	66	93	6	06	30.16	30.25	04	BKN	010				10.00		73	72	72	96	7	34	29.78	29.86																
07	BKN	055				4.00	BR	69	66	67	90	7	05	30.20	30.29	07	OVC	080				10.00		73	70	71	90	9	32	29.86	29.95																
10	BKN	028				6.00	HZ	74	65	68	74	6	08	30.22	30.31	10	BKN	026				10.00		77	68	71	74	14	32	29.94	30.02																
13	BKN	060				10.00		77	64	69	64	0	00	30.21	30.29	13	OVC	035				10.00		79	66	71	65	14	30	29.96	30.05																
16	BKN	055				10.00		78	67	71	69	8	15	30.17	30.26	16	CLR	NC				10.00		78	63	68	60	15	30	29.96	30.05																
19	FEW	NC				10.00		73	61	66	66	8	11	30.20	30.29	19	CLR	NC				10.00		71	61	65	71	0	00	30.01	30.10																
22	CLR	NC				10.00		67	60	63	79	5	10	30.22	30.31	22	CLR	NC				10.00		66	63	64	90	0	00	30.06	30.14																
SUNRISE: 0525								AUG 26								SUNRISE: 1842								3-HOURLY OBSERVATION NOTES																							
01	OVC	020				10.00		66	61	63	84	0	00	30.21	30.29	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 Visibility = 8/8.																															
04	OVC	060				10.00		66	63	64	90	0	00	30.21	30.29	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
07	OVC	043				10.00		67	63	65	87	3	08	30.21	30.29	NC = No ceiling detected.																															
10	BKN	021				10.00		75	67	70	76	7	13	30.20	30.29	& = Original observation contained additional weather elements.																															
13	FEW	NC				10.00		78	65	70	64	7	15	30.16	30.25	See page 3 for additional notes.																															
16	BKN	060				10.00		78	67	71	69	8	16	30.13	30.22																																
19	CLR	NC				10.00		74	66	69	76	13	16	30.12	30.21																																
22	CLR	NC				10.00		70	67	68	90	5	12	30.14	30.23																																
SUNRISE: 0526								AUG 27								SUNRISE: 1840								SUMMARY BY HOUR																							
01	OVC	014				10.00		70	67	68	90	0	00	30.12	30.21	AVERAGES																															
04	OVC	008				10.00		70	68	69	93	0	00	30.10	30.19	RESULTANT WIND (MPH)																															
07	OVC	006				8.00	BR	71	70	70	96	0	00	30.13	30.22	HOUR (LST)																															
10	BKN	017				10.00		76	69	71	79	7	19	30.11	30.19	CEILOMETER																															
13	BKN	040				10.00		82	70	74	67	8	18	30.05	30.13	EFF CLD AMT																															
16	FEW	NC				10.00		81	71	74	72	14	15	30.00	30.09	DRY BULB																															
19	CLR	NC				10.00		76	71	73	85	9	15	30.00	30.09	DEW POINT																															
22	CLR	NC				10.00		74	70	71	88	3	18	30.01	30.10	WET BULB																															
SUNRISE: 0527								AUG 28								SUNRISE: 1839								PRESSURE (INCHES, HG)																							
01	CLR	NC				10.00		71	68	69	90	5	20	29.97	30.06	STATION																															
04	CLR	NC				10.00		70	69	69	97	3	21	29.95	30.03	SEA LEVEL																															
07	BKN	004				8.00		72	71	71	97	5	20	29.96	30.05	VISIBILITY (MILES)																															
10	CLR	NC				10.00		81	72	75	74	7	21	29.95	30.03	WIND SPEED (MPH)																															
13	CLR	NC				10.00		86	73	77	65	9	21	29.91	29.99	SPEED																															
16	CLR	NC				10.00		84	74	77	72	12	15	29.86	29.95	DIRECTION																															
19	CLR	NC				10.00		78	72	74	82	8	16	29.85	29.94																																
22	CLR	NC				10.00		76	67	70	74	6	18	29.89	29.98																																
SUNRISE: 0528								AUG 29								SUNRISE: 1837																															
01	CLR	NC				10.00		72	67	69	84	3	17	29.89	29.97																																
04	CLR	NC				10.00		70	67	68	90	0	00	29.87	29.96																																
07	CLR	NC				10.00		72	70	71	94	5	16	29.90	29.99																																
10	OVC	007				10.00		75	72	73	90	9	15	29.92	30.00																																
13	CLR	NC				10.00		83	70	74	65	9	13	29.91	29.99																																
16	CLR	NC				10.00		84	71	75	65	10	15	29.86	29.94																																
19	CLR	NC				10.00		78	74	75	87	6	13	29.87	29.96																																
22	BKN	048				10.00		77	75	76	94	3	13	29.91	29.99																																
SUNRISE: 0529								AUG 30								SUNRISE: 1836																															
01	CLR	NC				10.00		75	72	73	90	3	16	29.92	30.00																																
04	FEW	NC				10.00		73	72	72	96	5	11	29.92	30.00																																
07	BKN	041				10.00		73	71	72	94	6	08	29.93	30.01																																
10	OVC	015				10.00		79	74	75	85	6	10	29.92	30.01																																
13	SCT	NC				10.00	-RA	76	75	75	97	8	03	29.83	29.92																																
16	BKN	029				10.00		80	74	76	82	7	08	29.83	29.91																																
19	OVC	055				10.00		76	75	75	97	3	35	29.82	29.91																																
22	BKN	010				10.00		75	74	74	96	7	06	29.82	29.90																																



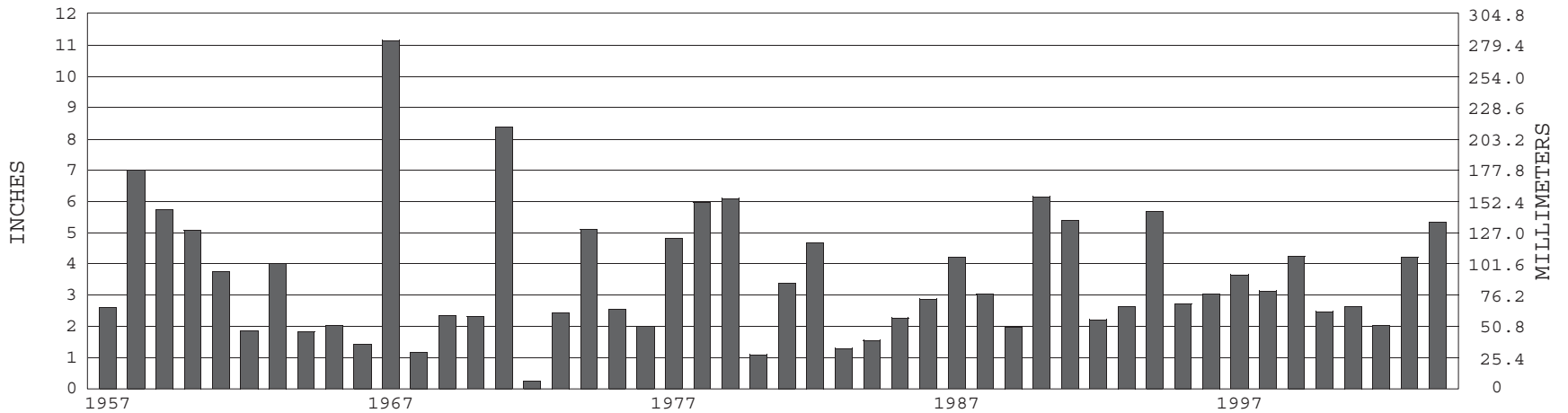
### WILMINGTON, DE AUGUST TEMPERATURES



+ Extreme Max.      ● Mean Max.      ▲ Mean      × Mean Min.      ◆ Extreme Min.

Long-Term (1957-2004) Mean: 74.9      1971-2000 Normal: 75.0

### WILMINGTON, DE AUGUST PRECIPITATION



Long-Term (1957-2004) Mean Monthly Total: 3.58

1971-2000 Normal: 3.51



AUGUST 2004

WILMINGTON, DE

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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DIRECTOR

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