



# JULY 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

JULY 2004  
WILMINGTON, DE

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	83	64	74	-1	66	69	0	9	VCTS	0		0.0	0.00	30.04	30.12	5.8	15	5.9	22	14	18	15	01		
02	89	68	79	3	63	69	0	14	HZ	0		0.0	0.00	29.93	30.01	1.9	29	2.8	12	31	9	30	02		
03	85	67	76	0	60	66	0	11		0		0.0	0.00	29.93	30.01	3.1	07	7.3	20	15	16	14	03		
04	83	67	75	-1	66	69	0	10		0		0.0	0.00	29.90	29.98	8.5	14	8.8	22	15	18	16	04		
05	89*	73	81	5	72	74	0	16	RA BR VCTS	0		0.0	0.25	29.79	29.87	5.9	23	7.0	20	24	15	25	05		
06	83	69	76	0	62	67	0	11		0		0.0	0.00	29.83	29.91	7.4	31	7.9	21	28	16	30	06		
07	86	66	76	0	66	69	0	11	TSRA RA BR VCTS	0		0.0	1.87	29.79	29.87	3.9	13	6.1	32*	27	23*	26	07		
08	86	67	77	1	66	70	0	12	BR	0		0.0	0.00	29.78	29.87	5.3	24	6.1	18	25	15	27	08		
09	81	64	73	-3	59	64	0	8		0		0.0	0.00	29.94	30.02	6.8	30	7.5	21	28	17	28	09		
10	83	59*	71	-5	61	66	0	6	HZ	0		0.0	0.00	30.01	30.09	3.8	30	4.0	16	30	14	30	10		
11	85	65	75	-1	66	69	0	10	RA	0		0.0	0.04	30.01	30.10	2.8	12	5.1	16	14	14	15	11		
12	74	70	72	-5	71	71	0	7	TSRA RA BR VCTS	0		0.0	2.35	29.89	29.97	4.5	11	6.4	22	15	18	14	12		
13	80	66	73	-4	66	68	0	8		0		0.0	0.00	29.74	29.82	4.6	35	5.9	15	33	13	33	13		
14	78	65	72	-5	67	68	0	7	TS TSRA RA BR VCTS	0		0.0	0.88	29.57	29.66	3.7	14	6.1	24	31	21	31	14		
15	81	63	72	-5	61	65	0	7		0		0.0	0.00	29.57	29.65	8.8	25	9.0	24	24	20	25	15		
16	81	63	72	-5	61	66	0	7		0		0.0	0.00	29.68	29.77	7.2	26	8.1	24	28	21	27	16		
17	84	63	74	-3	64	68	0	9	RA	0		0.0	T	29.79	29.87	2.6	15	4.1	23	15	18	16	17		
18	73	66	70	-7	67	68	0	5	RA BR HZ	0		0.0	1.32	29.77	29.85	6.3	02	6.9	20	03	17	04	18		
19	81	65	73	-4	65	67	0	8	BR HZ	0		0.0	0.00	29.73	29.82	3.3	30	5.3	14	26	12	26	19		
20	85	65	75	-2	64	68	0	10	BR	0		0.0	0.00	29.84	29.92	4.2	30	5.0	14	30	12	28	20		
21	88	66	77	0	64	69	0	12	BR	0		0.0	0.00	29.89	29.97	1.3	28	2.3	12	23	9	17	21		
22	86	69	78	1	70	73	0	13	BR HZ	0		0.0	0.00	29.82	29.90	5.3	15	5.6	17	14	15	15	22		
23	82	73	78	1	71	73	0	13	RA BR HZ VCTS	0		0.0	0.07	29.84	29.92	3.8	19	4.5	23	19	20	19	23		
24	79	70	75	-2	64	68	0	10		0		0.0	0.00	30.06	30.15	8.1	03	9.0	20	01	16	36	24		
25	74	66	70*	-7	63	66	0	5		0		0.0	0.00	30.14	30.23	9.8	06	10.1	22	03	17	05	25		
26	81	63	72	-5	62	66	0	7		0		0.0	0.00	30.05	30.13	4.1	10	7.6	17	14	15	15	26		
27	81	69	75	-2	71	72	0	10	TS TSRA RA BR VCTS	0		0.0	1.43	29.90	29.98	4.0	12	6.8	17	15	15	14	27		
28	80	71	76	-1	71	72	0	11	RA	0		0.0	0.02	29.90	29.98	2.3	16	2.8	14	15	13	15	28		
29	84	65	75	-2	66	69	0	10	BR	0		0.0	0.00	30.00	30.08	2.3	16	4.1	14	15	12	15	29		
30	88	71	80	3	72	74	0	15	RA BR	0		0.0	0.01	30.02	30.10	6.9	18	8.0	20	14	18	15	30		
31	88	74	81*	4	73	75	0	16		0		0.0	0.00	29.99	30.07	9.4	18	9.9	23	21	17	21	31		
< MONTHLY AVERAGES											TOTALS->		0.0	8.24	29.87	29.96	1.4	14	6.3	<- MONTHLY AVERAGES					
-3.4											-0.5		-1.9		DEPARTURE FROM NORMAL										
-3.4											-0.5		-1.9		3.96										
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 2.39 DATE: 11-12				SEA LEVEL PRESSURE				DATE		TIME				
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				20.26		25 0951				
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH: 0 DATE:				MINIMUM				29.54		14 1751				
HEATING: 0 -1 0 -1											NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 10		
COOLING: 308 -60 655 -1											THUNDERSTORMS: 4				MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 6		
																			SNOWFALL ≥ 1.0 INCH: 0						

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# WILMINGTON, DE

JULY 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													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05					0.22								05			0.03									05		0.25		
06													06												06		0.00		
07													07			1.12	0.32	0.43	T						07		1.87		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11								T			11		0.04			
12	0.12					0.02	0.03	0.10	0.11	0.03	0.99	0.17	0.07	12	0.18	0.16	0.02	0.05	0.19	0.07				12	2.31	0.04			
13														13											13		2.35		
14														14			0.01	0.31	0.47	T		0.08		0.01	14		0.88		
15														15											15		0.00		
16														16											16		0.00		
17														17			T								17		T		
18								0.03	0.28	0.27	0.23	0.43	18	0.03					T	T	0.01	0.01		18		1.32			
19			T	T	0.02	0.01							19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23							T	T					23		0.06	0.01									23		0.07		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27	T												27	0.90	0.41	0.01	0.01	T					T	0.03	0.01	27	1.43		
28	0.01	T	T	T	0.01	T	T	0.01	T	T	T	0.05	28												28		0.02		
29													29												29		0.00		
30													30				0.01	T	T						30		0.01		
31													31												31		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)	.31	.49	.62	.78	1.00	1.13	1.14	1.24	1.44	1.82	1.87	1.87
Ending Date	12	12	12	07	07	07	07	07	07	07	07	07
Ending Time (Hour/Min)	0932	0937	0942	1638	1648	1652	1703	1732	1751	1814	1827	1827

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 JULY 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							7.00	10.00	
02							4.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							3.00	10.00	
06							10.00	10.00	
07							1.00	10.00	
08							2.00	10.00	
09							10.00	10.00	
10							5.00	10.00	
11							7.00	10.00	
12							1.00	10.00	
13							7.00	10.00	
14							1.25	10.00	
15							8.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							1.50	10.00	
19							2.00	10.00	
20							5.00	10.00	
21							5.00	10.00	
22							4.00	10.00	
23							2.00	10.00	
24							7.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							.75	10.00	
28							7.00	10.00	
29							4.00	10.00	
30							4.00	10.00	
31							10.00	10.00	
<b>MONTHLY AVGS</b>							6.30	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            6            17									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

JULY 2004

ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	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: 0439 JUL 01 SUNSET: 1934									SUNRISE: 0442 JUL 07 SUNSET: 1933																															
01	CLR	NC						10.00		68	63	65	84	5	17	30.08	30.16	01	CLR	NC									10.00		67	63	64	87	3	30	29.83	29.91		
04	OVC	014						10.00		68	63	65	84	0	00	30.08	30.17	04	CLR	NC									10.00		66	62	64	87	0	00	29.82	29.91		
07	CLR	NC						10.00		70	66	67	87	0	00	30.07	30.16	07	CLR	NC									10.00		73	61	66	66	7	10	29.82	29.91		
10	FEW	NC						10.00		76	70	72	82	8	15	30.07	30.16	10	CLR	NC									10.00		80	66	71	62	9	16	29.82	29.90		
13	CLR	NC						10.00		81	70	74	69	10	15	30.04	30.13	13	CLR	NC									10.00		84	64	71	51	13	14	29.77	29.86		
16	CLR	NC						10.00		79	68	72	69	12	15	30.00	30.09	16	SCT	NC					VCTS				10.00		81	65	71	58	9	13	29.73	29.82		
19	CLR	NC						10.00		74	63	67	69	9	13	29.99	30.07	19	FEW	NC									10.00		72	69	70	91	8	08	29.72	29.81		
22	BKN	038						10.00		72	63	66	73	5	18	30.00	30.09	22	CLR	NC									10.00		72	69	70	91	6	19	29.74	29.83		
SUNRISE: 0439 JUL 02 SUNSET: 1934									SUNRISE: 0443 JUL 08 SUNSET: 1932																															
01	FEW	NC						10.00		71	65	67	81	0	00	29.98	30.06	01	BKN	110								9.00		71	70	70	96	5	25	29.73	29.82			
04	SCT	NC						10.00		70	66	67	87	3	14	29.95	30.04	04	SCT	NC					BR			6.00		67	67	67	100	5	31	29.74	29.83			
07	SCT	NC						8.00		73	69	70	87	0	00	29.96	30.04	07	CLR	NC								10.00		71	69	70	94	3	24	29.78	29.87			
10	CLR	NC						10.00		82	64	70	55	3	VR	29.95	30.03	10	CLR	NC								10.00		80	69	73	69	7	25	29.79	29.88			
13	CLR	NC						10.00		86	56	67	36	7	31	29.92	30.01	13	SCT	NC								10.00		84	63	70	49	14	24	29.79	29.87			
16	CLR	NC						10.00		87	60	70	40	8	30	29.87	29.96	16																						
19	CLR	NC						10.00		83	59	68	44	5	25	29.87	29.96	19	CLR	NC									10.00		81	60	68	49	6	25	29.78	29.87		
22	FEW	NC						10.00		74	64	68	71	0	00	29.91	29.99	22	CLR	NC									10.00		73	67	69	81	7	22	29.81	29.90		
SUNRISE: 0440 JUL 03 SUNSET: 1934									SUNRISE: 0443 JUL 09 SUNSET: 1932																															
01	CLR	NC						10.00		69	65	66	87	7	33	29.91	30.00	01	CLR	NC								10.00		69	63	65	81	0	00	29.84	29.92			
04	CLR	NC						10.00		67	60	63	79	7	35	29.91	30.00	04	CLR	NC								10.00		66	60	62	81	5	25	29.85	29.93			
07	CLR	NC						10.00		71	55	62	57	13	02	29.94	30.02	07	CLR	NC								10.00		71	61	65	71	6	32	29.93	30.02			
10	CLR	NC						10.00		78	57	65	48	7	02	29.95	30.03	10	CLR	NC								10.00		77	56	64	48	12	32	29.93	30.02			
13	FEW	NC						10.00		82	56	66	41	0	00	29.92	30.01	13	BKN	055								10.00		77	57	65	50	15	30	29.95	30.04			
16	CLR	NC						10.00		84	59	68	43	6	10	29.89	29.97	16	FEW	NC								10.00		80	58	66	47	14	28	29.94	30.03			
19	CLR	NC						10.00		76	65	69	69	15	15	29.90	29.98	19	CLR	NC								10.00		76	59	66	56	6	35	29.96	30.04			
22	CLR	NC						10.00		71	63	66	76	5	12	29.94	30.03	22	CLR	NC								10.00		67	59	62	76	5	31	30.00	30.09			
SUNRISE: 0440 JUL 04 SUNSET: 1934									SUNRISE: 0444 JUL 10 SUNSET: 1932																															
01	CLR	NC						10.00		70	64	66	82	5	09	29.93	30.01	01	CLR	NC					HZ			5.00		64	59	61	84	0	00	30.01	30.09			
04	CLR	NC						10.00		67	65	66	93	5	08	29.93	30.01	04	CLR	NC								10.00		61	58	59	90	3	31	30.00	30.09			
07	FEW	NC						10.00		70	68	69	93	5	12	29.94	30.03	07	CLR	NC								10.00		65	60	62	84	5	31	30.05	30.13			
10	CLR	NC						10.00		78	66	70	67	9	15	29.92	30.01	10	CLR	NC								10.00		75	58	65	55	0	00	30.03	30.12			
13	CLR	NC						10.00		82	62	69	51	15	15	29.89	29.98	13	CLR	NC								10.00		80	60	68	51	5	30	30.01	30.10			
16	CLR	NC						10.00		80	60	68	51	14	14	29.86	29.95	16	CLR	NC								10.00		82	61	69	49	9	30	29.98	30.07			
19	CLR	NC						10.00		75	68	70	79	12	13	29.84	29.93	19	CLR	NC								10.00		77	63	68	62	5	28	29.98	30.07			
22	FEW	NC						10.00		73	70	71	90	9	14	29.85	29.93	22	CLR	NC								10.00		73	65	68	76	0	00	29.99	30.08			
SUNRISE: 0441 JUL 05 SUNSET: 1933									SUNRISE: 0445 JUL 11 SUNSET: 1931																															
01	OVC	006						9.00		74	72	73	94	8	16	29.81	29.90	01	CLR	NC							10.00		70	66	67	87	0	00	30.00	30.09				
04	OVC	008						9.00		75	74	74	96	7	15	29.77	29.86	04	CLR	NC								10.00		67	64	65	91	3	31	29.99	30.08			
07	OVC	011						10.00		74	73	73	97	0	00	29.80	29.89	07	CLR	NC								10.00		73	66	69	79	3	02	30.03	30.12			
10	SCT	NC						10.00		81	74	76	79	8	21	29.80	29.88	10	FEW	NC								10.00		80	65	70	60	5	09	30.05	30.14			
13	SCT	NC						10.00		85	73	77	68	7	24	29.78	29.86	13	CLR	NC								10.00		83	62	70	49	6	VR	30.01	30.09			
16	SCT	NC						10.00		88	70	76	55	10	23	29.75	29.84	16	OVC	060								10.00		82	65	71	56	5	14	30.00	30.09			
19	CLR	NC						10.00		82	71	75	69	13	23	29.76	29.84	19	OVC	070								10.00		79	67	71	67	12	15	29.98	30.06			
22	SCT	NC						10.00		77	66	70	69	8	25	29.79	29.88	22	BKN	065								10.00		75	70	72	84	7	13	30.02	30.10			
SUNRISE: 0441 JUL 06 SUNSET: 1933									SUNRISE: 0445 JUL 12 SUNSET: 1931																															
01	CLR	NC						10.00		72	68	69	87	6	28	29.79	29.87	01	OVC	035							7.00		74	72	73	94	7	11	29.99	30.07				
04	CLR	NC						10.00		71	65	67	81	5	25	29.81	29.89	04	FEW	NC							8.00		71	69	70	94	7	09	29.95	30.04				
07	CLR	NC						10.00		73	62	66	69	10	32	29.87	29.95	07	OVC	027							8.00		-RA		71	69	70	94	9	10	29.96	30.05		
10	CLR	NC						10.00		77	61	67	58	12	30	29.86	29.95	10	OVC	015							3.00		-RA BR		71	70	70	96	9	19	29.95	30.03		
13	CLR	NC						10.00		81	61	68	51	14	32	29.83	29.92	13	OVC	023							2.00		TSRA BR		72	71	71	97	10	07	29.88	29.97		
16	CLR	NC						10.00		83	60	68	46	14	31	29.82	29.91	16</																						

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

JULY 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)
<b>SUNRISE: 0446</b>				<b>JUL 13</b>				<b>SUNSET: 1930</b>				<b>SUNRISE: 0451</b>				<b>JUL 19</b>				<b>SUNSET: 1927</b>					
01	OVC	012		8.00	71	70	70	96	6	33	29.74	29.82	01	OVC	008		10.00	66	64	65	93	6	34	29.70	29.79
04	OVC	004		10.00	69	68	68	96	5	36	29.73	29.82	04	OVC	004		6.00	65	64	64	97	7	30	29.70	29.79
07	OVC	004		10.00	67	65	66	93	8	35	29.77	29.85	07	OVC	004		6.00	66	65	65	96	7	31	29.72	29.81
10	OVC	014		10.00	71	65	67	81	7	36	29.77	29.86	10	OVC	008		2.00	68	65	66	90	6	28	29.74	29.83
13	OVC	023		10.00	77	67	70	71	8	32	29.74	29.83	13	OVC	035		10.00	75	64	68	69	6	23	29.74	29.83
16	BKN	033		10.00	79	65	70	62	9	31	29.72	29.81	16	CLR	NC		10.00	79	63	69	58	6	31	29.71	29.80
19	CLR	NC		10.00	76	65	69	69	8	07	29.70	29.79	19	SCT	NC		10.00	75	65	69	71	5	17	29.72	29.81
22	CLR	NC		10.00	71	65	67	81	5	09	29.72	29.80	22	CLR	NC		10.00	72	68	69	87	6	17	29.76	29.85
<b>SUNRISE: 0447</b>				<b>JUL 14</b>				<b>SUNSET: 1930</b>				<b>SUNRISE: 0451</b>				<b>JUL 20</b>				<b>SUNSET: 1926</b>					
01	CLR	NC		10.00	68	65	66	90	0	00	29.70	29.79	01	CLR	NC		7.00	70	68	69	93	0	00	29.77	29.85
04	FEW	NC		10.00	67	64	65	91	0	00	29.66	29.75	04	CLR	NC		8.00	66	64	65	93	5	30	29.78	29.87
07	CLR	NC		10.00	68	65	66	90	5	13	29.64	29.73	07	CLR	NC		10.00	70	64	66	82	6	31	29.83	29.92
10	BKN	029		10.00	74	68	70	82	8	14	29.60	29.69	10	CLR	NC		10.00	79	64	69	60	0	00	29.86	29.95
13	BKN	021		10.00	77	70	72	79	13	15	29.54	29.63	13	CLR	NC		10.00	84	63	70	49	8	33	29.84	29.93
16	BKN	100		10.00	70	67	68	90	8	18	29.49	29.57	16	CLR	NC		10.00	84	63	70	49	9	29	29.83	29.92
19	FEW	NC		10.00	68	66	67	93	6	13	29.46	29.55	19	CLR	NC		10.00	78	64	69	62	5	29	29.85	29.93
22	BKN	100		10.00	66	65	65	96	7	25	29.53	29.62	22	CLR	NC		10.00	71	65	67	81	0	00	29.88	29.97
<b>SUNRISE: 0448</b>				<b>JUL 15</b>				<b>SUNSET: 1929</b>				<b>SUNRISE: 0452</b>				<b>JUL 21</b>				<b>SUNSET: 1926</b>					
01	CLR	NC		10.00	65	64	64	97	5	26	29.50	29.59	01	CLR	NC		10.00	69	65	66	87	0	00	29.89	29.97
04	CLR	NC		10.00	63	62	62	97	3	26	29.50	29.59	04	CLR	NC		6.00	67	65	66	93	3	31	29.87	29.95
07	CLR	NC		10.00	68	62	64	81	8	23	29.53	29.62	07	CLR	NC		7.00	71	65	67	81	0	00	29.91	30.00
10	SCT	NC		10.00	76	61	67	60	15	24	29.56	29.65	10	CLR	NC		10.00	82	63	70	53	3	31	29.91	30.00
13	SCT	NC		10.00	79	60	67	52	13	25	29.56	29.65	13	CLR	NC		10.00	86	61	70	43	0	00	29.89	29.97
16	SCT	NC		10.00	79	59	67	50	13	25	29.57	29.65	16	CLR	NC		10.00	87	61	70	42	5	31	29.86	29.95
19	BKN	110		10.00	75	59	65	58	7	25	29.59	29.68	19	CLR	NC		10.00	82	64	70	55	3	28	29.86	29.95
22	CLR	NC		10.00	70	59	63	68	3	23	29.63	29.71	22	CLR	NC		10.00	76	67	70	74	3	22	29.86	29.95
<b>SUNRISE: 0448</b>				<b>JUL 16</b>				<b>SUNSET: 1929</b>				<b>SUNRISE: 0453</b>				<b>JUL 22</b>				<b>SUNSET: 1925</b>					
01	BKN	100		10.00	68	57	62	68	6	22	29.64	29.73	01	CLR	NC		8.00	73	67	69	81	0	00	29.86	29.95
04	BKN	080		10.00	64	58	60	81	3	23	29.63	29.71	04	CLR	NC		6.00	71	67	68	87	0	00	29.86	29.94
07	BKN	060		10.00	70	60	64	71	8	25	29.65	29.74	07	CLR	NC		5.00	75	70	72	84	3	13	29.84	29.92
10	FEW	NC		10.00	77	60	66	56	14	29	29.66	29.75	10	CLR	NC		8.00	82	72	75	72	6	14	29.84	29.93
13	OVC	055		10.00	77	61	67	58	10	25	29.69	29.78	13	CLR	NC		9.00	85	70	75	61	9	15	29.81	29.89
16	CLR	NC		10.00	80	63	69	56	12	27	29.68	29.77	16	CLR	NC		4.00	84	70	74	63	12	14	29.78	29.86
19	CLR	NC		10.00	77	62	68	60	6	24	29.69	29.78	19	CLR	NC		5.00	80	71	74	74	7	13	29.78	29.87
22	OVC	120		10.00	73	64	67	74	5	23	29.75	29.84	22	BKN	035		8.00	79	70	73	74	7	19	29.80	29.89
<b>SUNRISE: 0449</b>				<b>JUL 17</b>				<b>SUNSET: 1928</b>				<b>SUNRISE: 0454</b>				<b>JUL 23</b>				<b>SUNSET: 1924</b>					
01	FEW	NC		10.00	71	63	66	76	0	00	29.75	29.84	01	FEW	NC		9.00	76	71	73	85	5	16	29.80	29.88
04	CLR	NC		10.00	65	63	64	93	0	00	29.75	29.84	04	FEW	NC		8.00	74	70	71	88	0	00	29.78	29.86
07	FEW	NC		10.00	70	64	66	82	3	32	29.78	29.87	07	FEW	NC		5.00	75	71	72	88	6	16	29.81	29.89
10	FEW	NC		10.00	80	65	70	60	3	11	29.81	29.89	10	BKN	023		7.00	78	72	74	82	6	17	29.83	29.91
13	CLR	NC		10.00	83	63	70	51	8	14	29.78	29.87	13	BKN	025		6.00	78	73	75	85	8	16	29.80	29.89
16	CLR	NC		10.00	78	60	67	54	10	11	29.77	29.86	16	SCT	NC		7.00	77	73	74	88	7	19	29.83	29.91
19	CLR	NC		10.00	78	64	69	62	3	13	29.78	29.87	19	FEW	NC		9.00	77	70	72	79	5	20	29.85	29.93
22	SCT	NC		10.00	75	69	71	82	5	17	29.82	29.90	22	BKN	060		10.00	75	69	71	82	0	00	29.91	29.99
<b>SUNRISE: 0450</b>				<b>JUL 18</b>				<b>SUNSET: 1928</b>				<b>SUNRISE: 0455</b>				<b>JUL 24</b>				<b>SUNSET: 1923</b>					
01	BKN	100		10.00	73	66	69	79	0	00	29.81	29.90	01	OVC	065		7.00	73	70	71	90	0	00	29.93	30.01
04	OVC	100		9.00	71	66	68	84	0	00	29.80	29.89	04	OVC	022		10.00	72	69	70	91	9	36	29.97	30.06
07	OVC	090		6.00	69	68	68	96	3	35	29.80	29.88	07	SCT	NC		10.00	70	62	65	76	9	35	30.03	30.12
10	OVC	019		3.00	68	67	67	96	7	01	29.82	29.90	10	FEW	NC		10.00	75	63	67	66	13	34	30.07	30.16
13	OVC	034		7.00	70	68	69	93	8	03	29.77	29.85	13	OVC	029		10.00	76	60	66	58	9	05	30.09	30.18
16	BKN	048		4.00	73	66	69	79	14	03	29.72	29.81	16	SCT	NC		10.00	78	63	68	60	8	01	30.09	30.17
19	OVC	050		10.00	68	66	67	93	12	03	29.72	29.81	19	OVC	032		10.00	74	63	67	69	10	03	30.10	30.19
22	FEW	NC		9.00	67	65	66	93	9	01	29.72	29.81	22	OVC	038		10.00	72	63	66	73	8	06	30.14	30.23

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

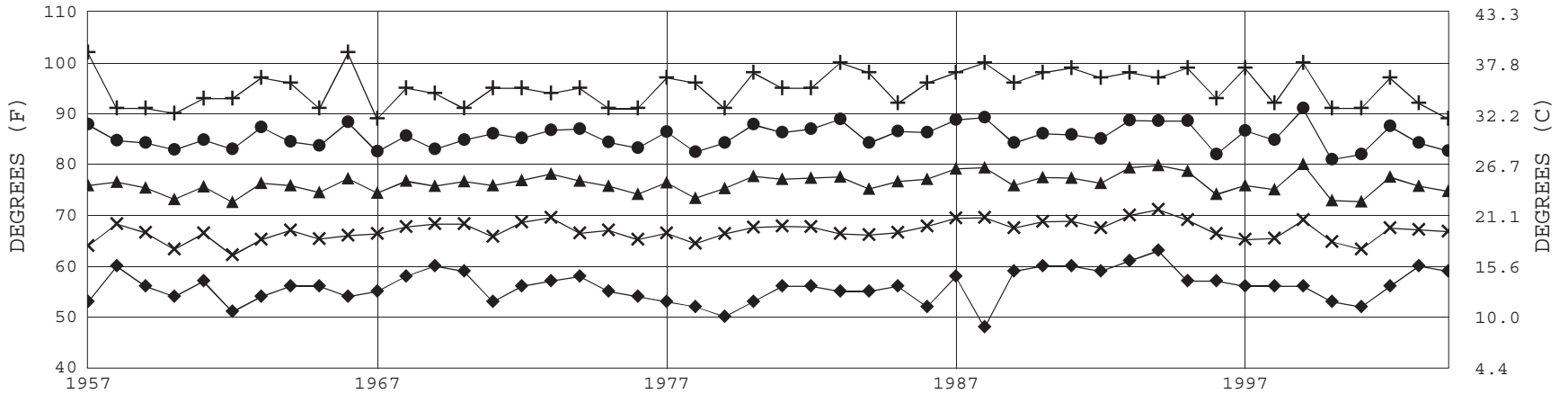
JULY 2004

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																																																																																																																																																																																																																																																																																																																																												
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																																																																																																																																																																																																																																																																																																																																							
SUNRISE: 0456					JUL 25					SUNSET: 1922					SUNRISE: 0501					JUL 31					SUNSET: 1917																																																																																																																																																																																																																																																																																																																																											
01	OVC	036	10.00		70	64	66	82	9	04	30.13	30.22	01	BKN	009	10.00		75	73	74	94	7	17	30.02	30.11																																																																																																																																																																																																																																																																																																																																											
04	OVC	022	10.00		70	64	66	82	13	05	30.13	30.22	04	OVC	014	10.00		75	73	74	94	7	19	30.00	30.09																																																																																																																																																																																																																																																																																																																																											
07	OVC	019	10.00		69	63	65	81	12	04	30.17	30.25	07	OVC	010	10.00		76	74	75	94	9	18	30.01	30.09																																																																																																																																																																																																																																																																																																																																											
10	OVC	019	10.00		70	63	66	79	13	05	30.17	30.26	10	BKN	044	10.00		83	73	76	72	13	19	30.01	30.10																																																																																																																																																																																																																																																																																																																																											
13	OVC	021	10.00		72	63	66	73	12	05	30.16	30.24	13	FEW	NC	10.00		87	72	77	61	14	22	29.97	30.05																																																																																																																																																																																																																																																																																																																																											
16	OVC	023	10.00		73	64	67	74	8	06	30.12	30.21	16	FEW	NC	10.00		87	71	76	59	10	21	29.94	30.03																																																																																																																																																																																																																																																																																																																																											
19	OVC	033	10.00		72	64	67	76	5	07	30.12	30.21	19	CLR	NC	10.00		82	76	78	82	10	15	29.94	30.03																																																																																																																																																																																																																																																																																																																																											
22	CLR	NC	10.00		68	62	64	81	6	06	30.13	30.22	22	CLR	NC	10.00		79	73	75	82	9	16	29.98	30.06																																																																																																																																																																																																																																																																																																																																											
SUNRISE: 0457					JUL 26					SUNSET: 1921					<b>3-HOURLY OBSERVATION NOTES</b>																																																																																																																																																																																																																																																																																																																																																					
01	CLR	NC	10.00		67	61	63	81	5	06	30.09	30.18	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	CLR	NC	10.00		63	60	61	90	6	35	30.08	30.17	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																																																																																																																																																																																																																																																																																																																																																							
07	OVC	100	10.00		68	61	64	78	8	02	30.08	30.17	NC= No ceiling detected.																																																																																																																																																																																																																																																																																																																																																							
10	BKN	110	10.00		74	56	63	54	7	08	30.07	30.16	& = Original observation contained additional weather elements.																																																																																																																																																																																																																																																																																																																																																							
13	CLR	NC	10.00		79	61	68	54	3	VR	30.03	30.12	See page 3 for additional notes.																																																																																																																																																																																																																																																																																																																																																							
16	CLR	NC	10.00		78	66	70	67	9	16	29.99	30.08																																																																																																																																																																																																																																																																																																																																																								
19	OVC	025	10.00		74	67	69	79	15	16	30.00	30.09																																																																																																																																																																																																																																																																																																																																																								
22	OVC	043	10.00		70	64	66	82	7	11	30.02	30.10																																																																																																																																																																																																																																																																																																																																																								
SUNRISE: 0457					JUL 27					SUNSET: 1921					<b>SUMMARY BY HOUR</b>																																																																																																																																																																																																																																																																																																																																																					
01	OVC	019	10.00		69	65	66	87	6	08	29.98	30.06	<table border="1"> <thead> <tr> <th rowspan="2">HOUR (LST)</th> <th colspan="7">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th>CEILOMETER</th> <th>EFF CLD AMT</th> <th>DRY BULB</th> <th>DEW POINT</th> <th>WET BULB</th> <th>RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th>VISIBILITY (MILES)</th> <th>WIND SPEED (MPH)</th> <th>SPEED</th> <th>DIRECTION</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>70</td><td>66</td><td>68</td><td>87</td><td>29.87</td><td>29.96</td><td>9.19</td><td>3</td><td>0</td><td>0</td></tr> <tr><td>02</td><td></td><td></td><td>70</td><td>66</td><td>67</td><td>88</td><td>29.86</td><td>29.95</td><td>9.00</td><td>4</td><td>0</td><td>0</td></tr> <tr><td>03</td><td></td><td></td><td>69</td><td>66</td><td>67</td><td>89</td><td>29.86</td><td>29.95</td><td>9.03</td><td>3</td><td>1</td><td>35</td></tr> <tr><td>04</td><td></td><td></td><td>68</td><td>65</td><td>66</td><td>90</td><td>29.86</td><td>29.95</td><td>9.00</td><td>4</td><td>1</td><td>35</td></tr> <tr><td>05</td><td></td><td></td><td>68</td><td>65</td><td>66</td><td>90</td><td>29.88</td><td>29.96</td><td>8.61</td><td>4</td><td>1</td><td>35</td></tr> <tr><td>06</td><td></td><td></td><td>69</td><td>66</td><td>67</td><td>89</td><td>29.88</td><td>29.97</td><td>8.35</td><td>4</td><td>1</td><td>36</td></tr> <tr><td>07</td><td></td><td></td><td>71</td><td>66</td><td>68</td><td>85</td><td>29.89</td><td>29.98</td><td>9.03</td><td>6</td><td>1</td><td>1</td></tr> <tr><td>08</td><td></td><td></td><td>73</td><td>66</td><td>68</td><td>79</td><td>29.89</td><td>29.98</td><td>9.10</td><td>7</td><td>1</td><td>1</td></tr> <tr><td>09</td><td></td><td></td><td>75</td><td>65</td><td>69</td><td>73</td><td>29.90</td><td>29.98</td><td>8.90</td><td>7</td><td>1</td><td>36</td></tr> 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(MPH)	SPEED	DIRECTION	01			70	66	68	87	29.87	29.96	9.19	3	0	0	02			70	66	67	88	29.86	29.95	9.00	4	0	0	03			69	66	67	89	29.86	29.95	9.03	3	1	35	04			68	65	66	90	29.86	29.95	9.00	4	1	35	05			68	65	66	90	29.88	29.96	8.61	4	1	35	06			69	66	67	89	29.88	29.97	8.35	4	1	36	07			71	66	68	85	29.89	29.98	9.03	6	1	1	08			73	66	68	79	29.89	29.98	9.10	7	1	1	09			75	65	69	73	29.90	29.98	8.90	7	1	36	10			77	66	70	70	29.89	29.98	9.00	7	1	21	11			78	65	70	66	29.89	29.98	9.34	7	2	21	12			80	65	70	63	29.88	29.97	9.27	8	2	19	13			80	65	70	61	29.87	29.96	9.35	8	2	20	14			81	65	71	62	29.86	29.94	9.31	9	2	19	15			81	65	71	61	29.85	29.94	9.65	10	3	19	16			80	65	71	62	29.85	29.93	9.33	9	2	21	17			79	65	70	65	29.84	29.93	9.11	9	1	18	18			78	66	70	67	29.84	29.93	9.42	8	2	17	19			77	66	70	71	29.85	29.93	9.81	8	3	15	20			75	66	69	75	29.86	29.94	9.81	6	2	16	21			74	66	69	78	29.87	29.96	9.84	5	2	15	22			73	66	69	81	29.88	29.96	9.81	5	2	17	23			72	66	68	83	29.88	29.96	9.74	5	1	17	24			71	67	68	87	29.87	29.96	9.52	4	1	16
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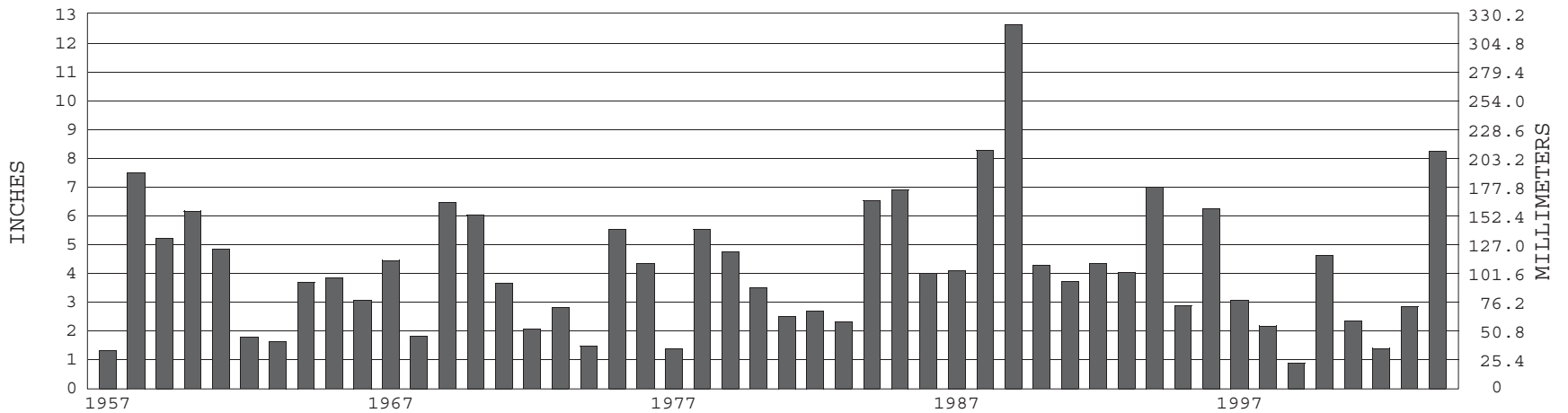
### WILMINGTON, DE JULY TEMPERATURES



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

Long-Term (1957-2004) Mean: 76.2      1971-2000 Normal: 76.6

### WILMINGTON, DE JULY PRECIPITATION



Long-Term (1957-2004) Mean Monthly Total: 4.19

1971-2000 Normal: 4.28



JULY 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.*

DIRECTOR

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Rocket Center, WV 26726

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