



# AUGUST 2003

## 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

AUGUST 2003  
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				
										DEPTH	WATER EQUIV	SNOW FALL	WATER EQUIV						5-SEC	2-MIN	SPEED		DIR
01	84	69	77	0	73	74	0	12	TSRA RA BR HZ VCTS	0		0.0	0.18	29.95	30.03	4.6	18	6.4	21	22	17	24	01
02	87	73	80	3	74	75	0	15	RA BR HZ	0		0.0	T	29.95	30.03	7.2	19	7.8	21	16	17	16	02
03	86	74	80	3	75	76	0	15	TSRA RA BR VCTS	0		0.0	0.39	29.97	30.05	10.5	16	11.0	35*	14	30*	15	03
04	84	74	79	2	74	75	0	14	RA BR	0		0.0	0.01	29.87	29.95	7.4	17	8.3	17	14	15	14	04
05	79	69	74	-2	73	74	0	9	TSRA RA BR VCTS	0		0.0	0.62	29.78	29.86	4.2	16	5.6	22	16	18	14	05
06	82	65	74	-2	70	71	0	9	RA	0		0.0	0.01	29.80	29.88	4.6	16	5.7	17	16	15	16	06
07	78	69	74	-2	72	72	0	9	RA FG+ BR	0		0.0	0.60	29.80	29.88	4.3	06	5.5	16	02	13	02	07
08	84	69	77	1	70	72	0	12	RA BR HZ	0		0.0	0.02	29.82	29.90	2.4	18	7.5	20	15	16	15	08
09	81	74	78	2	74	75	0	13	RA BR VCTS	0		0.0	0.14	29.88	29.97	5.5	12	7.4	18	30	15	28	09
10	83	73	78	2	74	75	0	13	RA BR HZ	0		0.0	0.07	29.89	29.97	6.4	18	7.5	21	24	16	25	10
11	81	72	77	1	73	74	0	12	RA FG BR VCTS	0		0.0	0.91	29.88	29.96	6.5	14	7.2	18	14	16	14	11
12	85	72	79	3	74	75	0	14	BR HZ	0		0.0	0.00	30.02		4.8	15	5.6	20	16	17	16	12
13	86	74	80	4	75	76	0	15	RA BR HZ	0		0.0	T			3.2	17	4.2	13	15	12	13	13
14	92*	72	82	6	72	75	0	17	BR HZ	0		0.0	0.00	30.19	30.28	4.3	32	4.9	17	36	13	31	14
15	89	70	80	5	69	73	0	15	BR	0		0.0	0.00	30.05	30.13	5.7	30	6.7	18	27	14	29	15
16	86	70	78	3	72	73	0	13	TSRA RA BR HZ VCTS	0		0.0	0.07	29.80	29.88	3.4	25	4.2	17	23	14	22	16
17	86	70	78	3	68	71	0	13	RA BR VCTS	0		0.0	0.13	29.79	29.87	4.2	32	6.8	23	05	18	05	17
18	83	65	74	-1	65	68	0	9	BR	0		0.0	0.00	29.98	30.07	1.7	02	4.6	20	11	16	12	18
19	83	63	73	-2	66	69	0	8	BR	0		0.0	0.00	30.09	30.18	1.7	17	3.9	16	15	15	16	19
20	86	66	76	1	68	71	0	11	BR	0		0.0	0.00	30.08	30.16	3.9	21	4.5	15	20	13	24	20
21	88	70	79	5	72	74	0	14	FG+ BR HZ	0		0.0	0.00	29.97	30.05	5.6	22	6.1	17	24	14	24	21
22	91	72	82*	8	74	76	0	17	TS TSRA BR HZ VCTS	0		0.0	0.16	29.80	29.88	6.0	23	6.8	29	23	23	32	22
23	84	62	73	-1	61	66	0	8	BR	0		0.0	0.00	29.87	29.95	8.3	32	8.9	21	32	17	32	23
24	77	53*	65*	-9	51	58	0	0	BR	0		0.0	0.00	30.01	30.10	5.4	31	6.9	20	27	16	27	24
25	85	61	73	-1	63	67	0	8	RA	0		0.0	T	29.92	30.00	6.1	24	6.4	18	21	15	21	25
26	85	68	77	3	71	72	0	12	RA BR HZ	0		0.0	0.08	29.85	29.93	4.3	24	5.6	18	27	15	28	26
27	85	68	77	4	70	72	0	12	RA BR	0		0.0	T	29.84	29.92	7.1	25	7.8	28	27	22	27	27
28	86	67	77	4	66	70	0	12	BR	0		0.0	0.00	30.01	30.09	1.3	12	6.0	15	14	13	15	28
29	87	68	78	5	74	75	0	13	RA BR HZ	0		0.0	0.02	29.98	30.07	3.8	18	6.8	17	21	14	21	29
30	90	67	79	6	72	73	0	14	TSRA RA FG BR VCTS	0		0.0	0.80	30.00	30.08	3.4	28	8.1	33	29	28	29	30
31	75	62	69	-3	60	64	0	4		0		0.0	0.00	30.20	30.29	3.7	06	8.2	18	05	14	04	31
MONTHLY AVERAGES										TOTALS->						<- MONTHLY AVERAGES							
DEPARTURE FROM NORMAL												0.70		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.91 DATE: 11		GREATEST 24-HR SNOWFALL: 0.0 DATE: :		GREATEST SNOW DEPTH: 0 DATE: :		SEA LEVEL PRESSURE		DATE TIME					
MONTHLY TOTAL DEPARTURE					SEASON TO DATE TOTAL DEPARTURE					NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90: 3		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 16		PRECIPITATION ≥ 0.10 INCH: 9		SNOWFALL ≥ 1.0 INCH: 0			
HEATING: 0					COOLING: 362					HEATING: 0		COOLING: 45		HEATING: 886		COOLING: -87							

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# WILMINGTON, DE

AUGUST 2003

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												0.06	01	T	T			T	0.01	0.01	0.01	T		0.09	T	01		0.18	
02				T									02									T					02		T
03	T		0.11	T									03			0.22	0.06				T						03		0.39
04					T							T	04	0.01	T												04		0.01
05										T		T	05	0.45	0.05	T	0.02	T						0.10			05		0.62
06	0.01		T										06														06		0.01
07													07		0.01	T		T	T	0.05	0.14	0.07	0.22	0.11	T	07		0.60	
08	0.02	T	T		T	T							08									T				08		0.02	
09										0.01	0.08	T	09			0.04	T									09		0.14	
10					T							0.01	10									0.07				10		0.07	
11													11		T	T	0.49	0.41	0.01	T			T	T		11		0.91	
12													12													12		0.00	
13								T	T				13													13		T	
14													14													14		0.00	
15													15													15		0.00	
16												T	16	0.01	0.01	0.01	0.03	T						T	0.01	16		0.07	
17	0.03	0.05	0.03	0.02	T								17													17		0.13	
18											T		18													18		0.00	
19													19													19		0.00	
20													20													20		0.00	
21													21													21		0.00	
22													22							0.15	0.01	T				22		0.16	
23													23													23		0.00	
24													24													24		0.00	
25					T								25													25		T	
26											T		26						0.06	0.02						26		0.08	
27													27										T	T		27		T	
28													28													28		0.00	
29										0.02	T		29													29		0.02	
30													30													30		0.80	
31													31			0.17	0.63	T	T							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)	.33	.37	.46	.61	.78	.80	.89	.90	.91	.91	.91	.91
Ending Date	11	30	30	30	30	30	11	11	11	11	11	11
Ending Time (Hour/Min)	1616	1511	1511	1508	1513	1525	1617	1620	1652	1652	1652	1652

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 2003

Ceilorometer (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							3.00	10.00	
02							3.00	10.00	
03							1.75	10.00	
04							6.00	10.00	
05							1.50	10.00	
06							7.00	10.00	
07							.25	9.00	
08							3.00	10.00	
09							2.50	10.00	
10							2.50	10.00	
11							.50	10.00	
12							.00	10.00	
13							1.75	6.00	
14							1.50	10.00	
15							5.00	10.00	
16							1.50	10.00	
17							4.00	10.00	
18							6.00	10.00	
19							6.00	10.00	
20							4.00	10.00	
21							.25	10.00	
22							3.00	10.00	
23							5.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							3.00	10.00	
27							4.00	10.00	
28							4.00	10.00	
29							.00	10.00	
30							.00	10.00	
31							10.00	10.00	
<b>MONTHLY AVGS</b>							3.97	9.84	
<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 2                      16                      4									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

AUGUST 2003

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: 0501					AUG 01					SUNSET: 1917					SUNRISE: 0507					AUG 07					SUNSET: 1910				
01	OVC	004	6.00	BR	69	69	69	100	6	08	30.00	30.09	01	CLR	NC	7.00		71	71	71	100	0	00	29.80	29.89				
04	OVC	010	10.00		71	70	70	96	0	00	29.96	30.05	04	VV	001	0.25	FG	71	71	71	100	5	08	29.79	29.88				
07	OVC	004	5.00	BR	73	73	73	100	8	16	29.96	30.04	07	OVC	001	0.75	BR	71	71	71	100	6	09	29.82	29.91				
10	OVC	011	4.00	BR	78	75	76	90	10	15	29.95	30.04	10	BKN	013	5.00	BR	76	72	73	88	3	04	29.84	29.93				
13	SCT	NC	7.00		83	76	78	79	12	22	29.94	30.02	13	BKN	027	4.00	BR	77	73	74	88	7	09	29.80	29.89				
16	SCT	NC	5.00	HZ	81	74	76	79	9	24	29.91	30.00	16	FEW	NC	8.00		77	71	73	82	8	07	29.78	29.87				
19	FEW	NC	5.00	-RA BR	77	75	76	94	6	19	29.92	30.01	19	OVC	014	3.00	RA BR	74	73	73	97	10	09	29.77	29.85				
22	OVC	095	7.00		74	74	74	100	5	20	29.95	30.03	22	OVC	017	2.00	+RA BR	69	69	69	100	8	34	29.77	29.86				
SUNRISE: 0502					AUG 02					SUNSET: 1915					SUNRISE: 0508					AUG 08					SUNSET: 1909				
01	FEW	NC	5.00	BR	73	73	73	100	0	00	29.92	30.01	01	OVC	031	4.00	-RA BR	70	70	70	100	8	31	29.76	29.85				
04	BKN	015	5.00	BR	73	73	73	100	6	19	29.92	30.00	04	OVC	028	7.00		69	69	69	100	6	30	29.76	29.85				
07	OVC	011	3.00	BR	74	74	74	100	7	16	29.96	30.04	07	CLR	NC	3.00	BR	71	69	70	94	9	29	29.80	29.89				
10	OVC	016	5.00	BR	79	75	76	88	9	19	29.96	30.05	10	FEW	NC	10.00		80	70	73	71	5	VR	29.82	29.91				
13	FEW	NC	7.00		85	74	77	70	10	21	29.95	30.03	13	BKN	045	10.00		82	67	72	60	0	00	29.82	29.91				
16	SCT	NC	9.00		86	75	78	70	14	20	29.93	30.02	16	BKN	NC	10.00		83	70	74	65	10	14	29.80	29.88				
19	CLR	NC	10.00		79	73	75	82	9	14	29.94	30.02	19	CLR	NC	10.00		77	70	72	79	10	14	29.84	29.93				
22	CLR	NC	9.00		77	74	75	90	7	19	29.98	30.06	22	FEW	NC	10.00		75	73	74	94	7	14	29.88	29.96				
SUNRISE: 0503					AUG 03					SUNSET: 1914					SUNRISE: 0509					AUG 09					SUNSET: 1908				
01	BKN	010	7.00		76	76	76	100	6	17	29.97	30.06	01	OVC	090	7.00		75	74	74	96	6	12	29.88	29.96				
04	BKN	110	9.00		75	75	75	100	8	16	29.98	30.06	04	OVC	008	5.00	BR	74	74	74	100	6	07	29.86	29.94				
07	OVC	006	8.00		76	75	75	97	7	18	30.00	30.08	07	BKN	007	2.50	BR	75	74	74	96	6	11	29.90	29.98				
10	BKN	015	10.00		80	75	77	85	8	17	30.00	30.08	10	OVC	007	2.50		76	76	76	100	10	13	29.90	29.99				
13	BKN	060	10.00		85	76	79	75	18	14	29.96	30.05	13	OVC	021	7.00		79	76	77	90	8	10	29.89	29.97				
16	CLR	NC	10.00		80	74	76	82	16	17	29.94	30.03	16	OVC	017	10.00		76	74	75	94	7	11	29.88	29.97				
19	CLR	NC	10.00		79	73	75	82	14	17	29.93	30.02	19	BKN	035	10.00		76	73	74	91	8	13	29.87	29.95				
22	OVC	040	10.00		77	73	74	88	14	15	29.94	30.02	22	OVC	014	10.00		76	74	75	94	9	17	29.89	29.98				
SUNRISE: 0504					AUG 04					SUNSET: 1913					SUNRISE: 0510					AUG 10					SUNSET: 1906				
01	BKN	012	10.00		75	74	74	96	8	17	29.91	29.99	01	CLR	NC	10.00		73	73	73	100	3	20	29.88	29.96				
04	OVC	007	10.00		74	74	74	100	8	17	29.89	29.98	04	OVC	006	10.00		74	74	74	100	10	16	29.87	29.96				
07	OVC	007	7.00		75	74	74	96	5	19	29.89	29.97	07	OVC	009	10.00		73	73	73	100	0	00	29.91	30.00				
10	OVC	028	10.00		80	74	76	82	10	17	29.89	29.97	10	OVC	015	10.00		79	74	75	85	6	21	29.91	30.00				
13	SCT	NC	10.00		80	75	77	85	8	20	29.86	29.94	13	FEW	NC	10.00		83	74	77	74	12	22	29.89	29.97				
16	BKN	035	10.00		80	74	76	82	9	15	29.83	29.91	16	BKN	028	10.00		81	76	77	85	10	16	29.86	29.94				
19	CLR	NC	9.00		79	76	77	90	9	14	29.82	29.91	19	CLR	NC	6.00	HZ	79	74	75	85	7	15	29.86	29.95				
22	CLR	NC	10.00		76	73	74	91	10	18	29.84	29.92	22	FEW	NC	8.00		76	76	76	100	7	16	29.90	29.98				
SUNRISE: 0505					AUG 05					SUNSET: 1912					SUNRISE: 0510					AUG 11					SUNSET: 1905				
01	OVC	013	10.00		75	74	74	96	8	19	29.82	29.90	01	BKN	039	10.00		74	73	73	97	9	16	29.87	29.96				
04	OVC	007	7.00		74	74	74	100	6	VR	29.80	29.88	04	OVC	004	9.00		72	72	72	100	6	18	29.85	29.93				
07	OVC	004	2.50	BR	74	74	74	100	3	19	29.81	29.90	07	OVC	004	5.00	BR	73	73	73	100	7	11	29.87	29.96				
10	OVC	014	6.00	BR	77	74	75	90	7	16	29.80	29.89	10	OVC	021	10.00		76	73	74	91	10	15	29.89	29.97				
13	BKN	010	8.00	-RA	73	72	72	96	6	10	29.76	29.85	13	SCT	NC	10.00		80	74	76	82	14	14	29.86	29.94				
16	BKN	060	5.00	-RA BR	75	71	72	88	0	00	29.74	29.83	16	OVC	007	2.00	VCTS RA BR	73	73	73	100	5	08	29.84	29.93				
19	CLR	NC	10.00		77	73	74	88	0	00	29.74	29.83	19	FEW	NC	10.00		74	73	73	97	5	12	29.85	29.94				
22	CLR	NC	10.00		75	71	72	88	8	16	29.76	29.84	22	OVC	011	10.00		73	72	72	96	7	13	29.91	29.99				
SUNRISE: 0506					AUG 06					SUNSET: 1911					SUNRISE: 0511					AUG 12					SUNSET: 1904				
01	CLR	NC	10.00		68	66	67	93	3	VR	29.76	29.85	01	OVC	003	6.00	BR	72	72	72	100	5	08	29.93	30.01				
04	CLR	NC	7.00		65	65	65	100	6	30	29.78	29.86	04	BKN	006		BR								29.99				
07	CLR	NC	10.00		70	68	69	93	0	00	29.80	29.89	07	BKN	008	2.50	BR	75	73	74	94	0	00	29.98	30.07				
10	OVC	019	10.00		75	70	72	84	7	VR	29.83	29.92	10	BKN	024	5.00	BR	78	74	75	87	6	14	30.03	30.11				
13	SCT	NC	8.00		81	71	74	72	9	18	29.81	29.89	13	CLR	NC	7.00		84	72	76	67	3	VR	30.04	30.13				
16	BKN	043	10.00		80	73	75	79	13	15	29.77	29.86	16	CLR	NC	7.00		82	75	77	79	14	16	30.05	30.13				
19	BKN	040	10.00		77	73	74	88	7	14	29.78	29.87	19	FEW	NC	6.00	BR	77	76	76	96	8	16	30.08	30.16				
22	CLR	NC	10.00		74	71	72	91	0	00	29.79	29.88	22	OVC	004	6.00	BR	75	75	75	100	6	13						

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

AUGUST 2003

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: 0512										AUG 13				SUNSET: 1903				SUNRISE: 0518										AUG 19				SUNSET: 1853			
01	OVC	004				5.00	BR		75	75	75	100	3	07			01	SCT	NC						10.00			69	66	67	90	0	00	30.05	30.14
04	OVC	002				1.75	BR		74	74	74	100	3	12			04	CLR	NC					10.00			67	66	66	97	0	00	30.07	30.16	
07	OVC	004				2.00	BR		76	75	75	97	3	18	30.19	30.28	07	CLR	NC					7.00			68	67	67	96	5	32	30.11	30.20	
10	BKN	011				3.00	BR		79	76	77	90	3	14	30.23	30.31	10	CLR	NC					10.00			78	66	70	67	0	00	30.12	30.21	
13	CLR	NC				3.00	HZ		83	75	77	77	6	15	30.22	30.30	13	FEW	NC					10.00			81	64	70	57	6	11	30.10	30.19	
16																	16	BKN	065					10.00			81	67	72	62	9	14	30.07	30.16	
19	CLR	NC				4.00	HZ		82	76	78	82	5	23	30.18	30.27	19	CLR	NC					10.00			77	69	72	77	8	16	30.08	30.16	
22	CLR	NC				4.00	BR		77	76	76	96	0	00	30.21	30.30	22	CLR	NC					10.00			72	68	69	87	5	17	30.10	30.19	
SUNRISE: 0513										AUG 14				SUNSET: 1901				SUNRISE: 0519										AUG 20				SUNSET: 1852			
01	CLR	NC				5.00	BR		76	74	75	94	3	25	30.21	30.30	01	CLR	NC					10.00			69	68	68	96	3	26	30.11	30.19	
04	CLR	NC				4.00	BR		74	73	73	97	5	27	30.22	30.31	04	CLR	NC					6.00	BR		68	68	68	100	0	00	30.10	30.19	
07	CLR	NC				1.50	BR		76	75	75	97	6	32	30.25	30.33	07	CLR	NC					6.00	BR		71	69	70	94	0	00	30.12	30.21	
10	CLR	NC				10.00			86	72	76	63	8	34	30.24	30.32	10	FEW	NC					10.00			80	71	74	74	6	25	30.11	30.19	
13	FEW	NC				10.00			89	70	76	53	6	36	30.20	30.29	13	BKN	042					10.00			83	68	73	61	8	24	30.08	30.16	
16	CLR	NC				10.00			91	68	75	47	9	34	30.15	30.24	16	BKN	045					10.00			85	70	75	61	10	23	30.03	30.12	
19	CLR	NC				10.00			85	70	75	61	0	00	30.14	30.22	19	CLR	NC					10.00			80	68	72	67	5	21	30.03	30.12	
22	CLR	NC				9.00			77	73	74	88	3	31	30.15	30.24	22	CLR	NC					10.00			76	68	71	77	5	17	30.05	30.13	
SUNRISE: 0514										AUG 15				SUNSET: 1859				SUNRISE: 0520										AUG 21				SUNSET: 1850			
01	CLR	NC				7.00			73	71	72	94	6	31	30.14	30.22	01	BKN	041					10.00			73	68	70	84	0	00	30.03	30.11	
04	CLR	NC				6.00	BR		71	71	71	100	5	29	30.12	30.21	04	CLR	NC					6.00	BR		71	71	71	100	5	25	30.03	30.11	
07	CLR	NC				8.00			75	71	72	88	3	32	30.12	30.20	07	CLR	NC					3.00	BR		74	73	73	97	0	00	30.04	30.12	
10	CLR	NC				10.00			85	65	72	51	8	36	30.11	30.19	10	CLR	NC					7.00			82	74	76	77	9	22	30.00	30.08	
13	CLR	NC				10.00			87	69	75	55	12	27	30.06	30.14	13	SCT	NC					9.00			86	70	75	59	9	25	29.96	30.04	
16	CLR	NC				10.00			88	70	76	55	12	30	29.99	30.08	16	CLR	NC					9.00			87	70	75	57	9	25	29.92	30.00	
19	CLR	NC				10.00			83	69	74	63	7	28	29.95	30.03	19	CLR	NC					6.00	HZ		82	73	76	74	6	20	29.89	29.98	
22	CLR	NC				9.00			77	71	73	82	6	25	29.94	30.03	22	CLR	NC					7.00			78	73	75	85	9	20	29.88	29.97	
SUNRISE: 0515										AUG 16				SUNSET: 1857				SUNRISE: 0521										AUG 22				SUNSET: 1849			
01	CLR	NC				6.00	BR		75	72	73	90	5	25	29.91	29.99	01	BKN	065					6.00	BR		76	75	75	97	5	20	29.88	29.96	
04	CLR	NC				4.00	BR		73	73	73	100	0	00	29.85	29.93	04	FEW	NC					6.00	BR		76	75	75	97	7	18	29.83	29.91	
07	CLR	NC				4.00	BR		75	72	73	90	5	23	29.84	29.92	07	CLR	NC					3.00	BR		77	75	76	94	5	24	29.85	29.93	
10	CLR	NC				6.00	HZ		82	72	75	72	6	28	29.82	29.90	10	CLR	NC					4.00	HZ		85	77	79	77	6	23	29.83	29.91	
13	SCT	NC				1.50	-TSRA BR		75	74	74	96	5	27	29.78	29.87	13	FEW	NC					5.00	HZ		90	74	79	59	12	22	29.77	29.86	
16	SCT	NC				8.00	VCTS -RA		72	70	71	94	6	11	29.73	29.82	16	SCT	NC					4.00	VCTS HZ		89	76	80	65	12	22	29.73	29.81	
19	CLR	NC				5.00	BR		73	72	72	96	6	23	29.74	29.83	19	OVC	044					5.00	-TSRA BR		75	75	75	100	7	30	29.72	29.80	
22	BKN	006				8.00			70	70	70	100	5	28	29.74	29.83	22	CLR	NC					10.00			73	70	71	90	5	32	29.76	29.84	
SUNRISE: 0516										AUG 17				SUNSET: 1856				SUNRISE: 0522										AUG 23				SUNSET: 1848			
01	SCT	NC				7.00	-RA		71	71	71	100	6	21	29.71	29.80	01	CLR	NC					5.00	BR		72	72	72	100	7	31	29.76	29.84	
04	FEW	NC				6.00	-RA BR		70	70	70	100	0	00	29.72	29.80	04	SCT	NC					10.00			70	64	66	82	8	36	29.80	29.88	
07	SCT	NC				4.00	BR		70	70	70	100	6	30	29.77	29.85	07	CLR	NC					10.00			71	62	65	73	6	32	29.87	29.95	
10	CLR	NC				8.00			78	71	73	79	5	VR	29.78	29.86	10	CLR	NC					10.00			78	61	67	56	10	33	29.90	29.98	
13	FEW	NC				10.00			84	69	74	61	7	30	29.78	29.86	13	FEW	NC					10.00			83	59	68	44	12	36	29.88	29.97	
16	CLR	NC				10.00			83	66	72	57	9	29	29.76	29.84	16	FEW	NC					10.00			81	59	67	47	12	30	29.85	29.93	
19	FEW	NC				10.00			79	67	71	67	7	34	29.80	29.89	19	CLR	NC					10.00			73	59	65	62	7	29	29.88	29.97	
22	OVC	120				10.00			72	64	67	76	6	01	29.85	29.94	22	CLR	NC					10.00			66	55	60	68	8	33	29.94	30.02	
SUNRISE: 0517										AUG 18				SUNSET: 1855				SUNRISE: 0523										AUG 24				SUNSET: 1846			
01	CLR	NC				10.00			68	65	66	90	6	33	29.89	29.98	01	CLR	NC					10.00			64	48	55	56	12	02	29.96	30.05	
04	CLR	NC				9.00			65	65	65	100	0	00	29.91	30.00	04	CLR	NC					10.00			56	49	52	77	7	30	29.99	30.08	
07	CLR	NC				10.00			69	66	67	90	8	35	29.96	30.04	07	CLR	NC					10.00			59	52	55	78	5	32	30.05	30.14	
10	FEW	NC				10.00			75	63	67	66	6	VR	29.99	30.08	10	CLR	NC					10.00			70	47	57	44	8	31	30.06	30.15	
13	BKN	075				10.00			79	63	69	58	7	11	29.99	30.08	13	FEW	NC					10.00			75	51	61	43	14	27	30.04	30.13	
16	CLR	NC				10.00			81	63	69	54	7	31	29.97	30.06	16	CLR	NC					10.00			77	49	61	37	12	31	29.98	30.07	
19	SCT	NC				10.00			77	63	68	62	0	00	30.00	30.09	19	CLR	NC					10.00			72	51	60	48	5	27	29.98	30.	

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

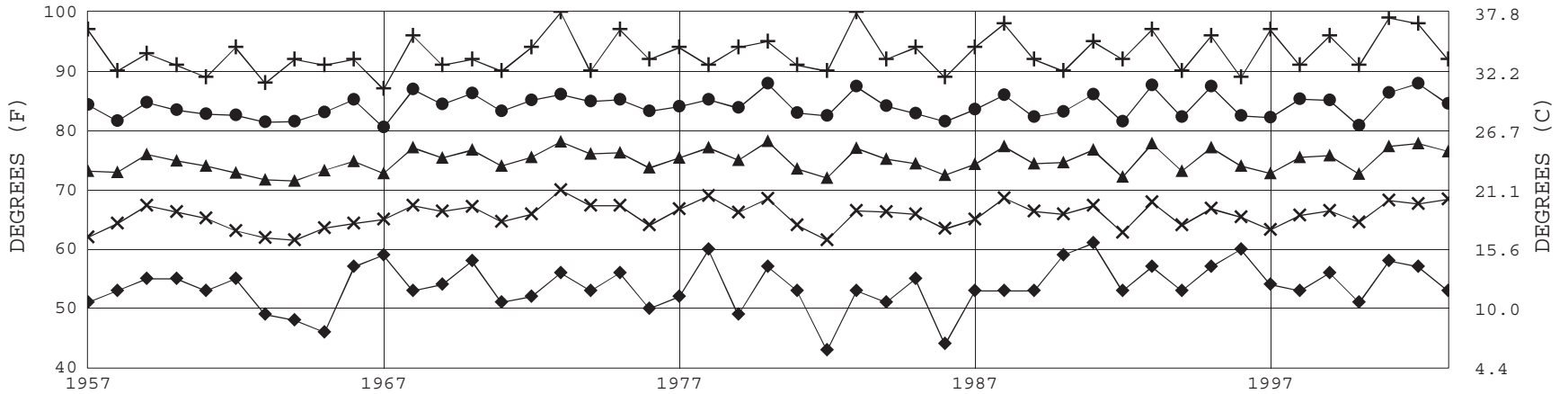
AUGUST 2003

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: 1845								SUNRISE: 0529								AUG 31								SUNSET: 1836							
01	CLR	NC				10.00		63	58	60	84	0	00	29.99	30.08	01	CLR	NC				10.00		66	62	64	87	10	35	30.14	30.22																
04	FEW	NC				10.00		63	59	61	87	3	24	29.96	30.05	04	CLR	NC				10.00		63	57	60	81	8	36	30.17	30.26																
07	CLR	NC				10.00		66	62	64	87	6	21	29.97	30.06	07	FEW	NC				10.00		63	55	58	76	13	01	30.22	30.31																
10	CLR	NC				10.00		78	61	67	56	10	25	29.93	30.02	10	CLR	NC				10.00		68	58	62	70	9	05	30.24	30.33																
13	CLR	NC				10.00		83	61	69	48	13	23	29.89	29.97	13	BKN	032				10.00		73	61	66	66	7	04	30.23	30.32																
16	CLR	NC				10.00		84	62	70	48	9	23	29.85	29.94	16	FEW	NC				10.00		74	61	66	64	6	11	30.18	30.27																
19	CLR	NC				10.00		80	66	71	62	6	21	29.86	29.95	19	FEW	NC				10.00		71	63	66	76	7	18	30.18	30.27																
22	CLR	NC				10.00		75	68	70	79	3	24	29.88	29.96	22	SCT	NC				10.00		68	65	66	90	8	14	30.20	30.29																
SUNRISE: 0525								AUG 26								SUNRISE: 1843								3-HOURLY OBSERVATION NOTES																							
01	CLR	NC				9.00		72	70	71	94	3	26	29.87	29.96	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				5.00	BR	69	68	68	96	5	31	29.87	29.96	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
07	CLR	NC				4.00	BR	72	70	71	94	3	29	29.90	29.99	NC = No ceiling detected.																															
10	CLR	NC				5.00	HZ	77	71	73	82	0	00	29.89	29.98	& = Original observation contained additional weather elements.																															
13	SCT	NC				8.00		82	72	75	72	13	16	29.83	29.91	See page 3 for additional notes.																															
16	SCT	NC				8.00		83	72	75	70	8	23	29.80	29.89																																
19	CLR	NC				4.00	BR	74	74	74	100	10	22	29.77	29.86																																
22	CLR	NC				10.00		71	71	71	100	6	24	29.80	29.89																																
SUNRISE: 0525								AUG 27								SUNRISE: 1842								SUMMARY BY HOUR																							
01	CLR	NC				7.00		69	69	69	100	6	26	29.80	29.88	AVERAGES																															
04	CLR	NC				6.00	BR	68	68	68	100	0	00	29.76	29.85	RESULTANT WIND (MPH)																															
07	CLR	NC				5.00	BR	72	71	71	97	7	25	29.81	29.90	HOUR (LST)																															
10	CLR	NC				8.00		83	73	76	72	10	29	29.85	29.93	CEILOMETER																															
13	CLR	NC				10.00		84	67	73	57	14	24	29.85	29.93	EFF CLD AMT																															
16	CLR	NC				10.00		83	68	73	61	13	23	29.80	29.89	DRY BULB																															
19	CLR	NC				10.00		79	70	73	74	6	23	29.82	29.90	DEW POINT																															
22	CLR	NC				10.00		74	71	72	91	6	22	29.87	29.96	WET BULB																															
SUNRISE: 0526								AUG 28								SUNRISE: 1840								PRESSURE (INCHES, HG)																							
01	CLR	NC				7.00		71	71	71	100	5	27	29.91	30.00	STATION																															
04	CLR	NC				7.00		69	67	68	93	5	34	29.94	30.02	SEA LEVEL																															
07	CLR	NC				4.00	BR	71	69	70	94	5	35	30.02	30.11	VISIBILITY (MILES)																															
10	CLR	NC				10.00		80	57	66	45	3	VR	30.05	30.14	WIND SPEED (MPH)																															
13	CLR	NC				10.00		83	63	70	51	8	12	30.03	30.11	SPEED																															
16	FEW	NC				10.00		83	66	72	57	8	16	30.00	30.08	DIRECTION																															
19	CLR	NC				10.00		76	68	71	77	10	15	30.01	30.09																																
22	CLR	NC				10.00		72	69	70	91	6	13	30.05	30.14																																
SUNRISE: 0527								AUG 29								SUNRISE: 1839																															
01	SCT	NC				10.00		70	68	69	93	5	07	30.05	30.14																																
04	OVC	006				6.00	BR	69	68	68	96	5	08	30.03	30.12																																
07	OVC	004				3.00	BR	73	72	72	96	5	04	30.01	30.10																																
10	BKN	021				7.00		79	74	76	85	6	18	30.02	30.11																																
13	OVC	022				5.00	HZ	83	76	78	79	8	23	29.98	30.07																																
16	SCT	NC				4.00	HZ	86	76	79	72	10	20	29.92	30.01																																
19	CLR	NC				4.00	HZ	83	78	79	85	9	22	29.92	30.00																																
22	CLR	NC				6.00	BR	78	75	76	90	7	21	29.94	30.03																																
SUNRISE: 0528								AUG 30								SUNRISE: 1837																															
01	CLR	NC				8.00		76	73	74	91	8	23	29.94	30.02																																
04	CLR	NC				7.00		74	73	73	97	6	23	29.94	30.02																																
07	CLR	NC				6.00	BR	75	74	74	96	5	28	29.98	30.06																																
10	CLR	NC				9.00		84	73	76	70	7	23	29.98	30.06																																
13	FEW	NC				10.00		89	72	77	57	10	21	29.95	30.04																																
16	BKN	010				3.00	-TSRA	74	74	74	100	14	01	29.97	30.06																																
19	OVC	033				9.00		73	70	71	90	7	35	30.05	30.14																																
22	FEW	NC				10.00		69	66	67	90	10	35	30.11	30.19																																

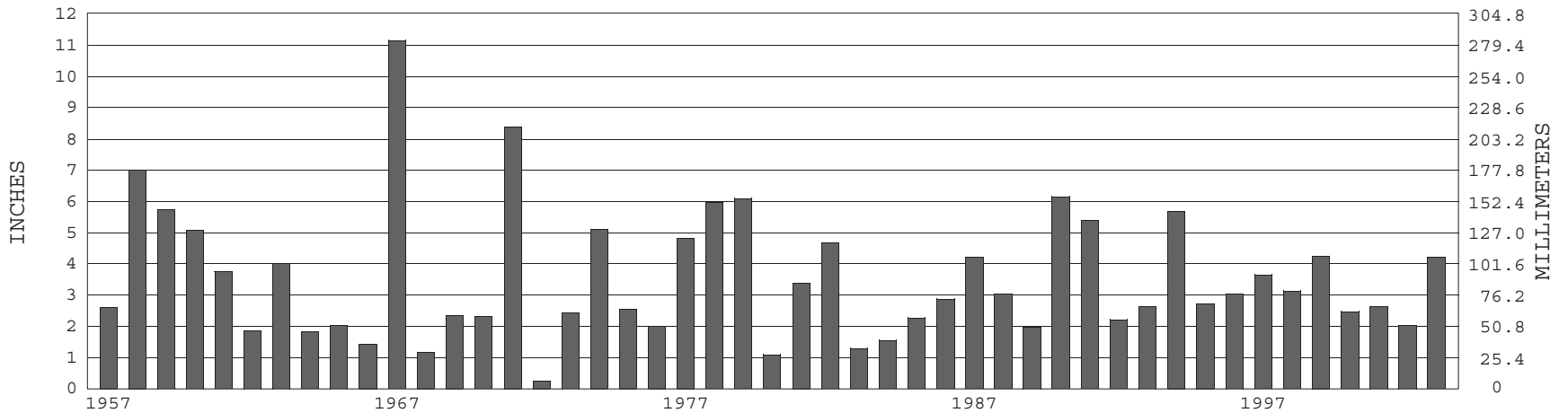
### WILMINGTON, DE AUGUST TEMPERATURES



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

Long-Term (1957-2003) Mean: 74.9      1961-1990 Normal: 75.0

### WILMINGTON, DE AUGUST PRECIPITATION



Long-Term (1957-2003) Mean Monthly Total: 3.54

1961-1990 Normal: 3.51



AUGUST 2003

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

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$29 for online delivery (including back issues) compared to \$34 for offline delivery.** To order this and other subscriptions online with your credit card, go to: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov) and choose subscriptions.

We welcome your questions or comments, please contact us at  
Toll Free Number (866) 742–3322 (voice)  
Fax Number :(304) 726–4409  
TDD : 828–271–4010  
or Email : [ncdc.info@noaa.gov](mailto:ncdc.info@noaa.gov)  
Local Climatological Data is available at [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center  
310 State Route 956 Building 300  
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS  
POSTAGE AND FEES PAID  
NOAA  
PERMIT G-19