



MAY 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE

NEW CASTLE COUNTY AP (ILG)
 Lat: 39° 40' N Long: 75° 36' W Elev (Ground): 92 Feet
 Time Zone: EASTERN WBAN: 13781 ISSN #: 0198-117X

MAY 2002
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	68	50	59	1	45	52	6	0	RA BR			0.0	0.01	29.79	29.87	1.4	27	6.7	22	31	17	15	01																																						
02	77	55	66	8	61	63	0	1	TS RA BR HZ VCTS			0.0	0.85	29.49	29.57	8.0	19	12.7	32	28	28	28	02																																						
03	67	43	55	-3	31	45	10	0				0.0	0.00	29.85	29.93	15.8	29	16.2	38	30	32	30	03																																						
04	63	37	50	-8	36	45	15	0				0.0	0.00	30.20	30.29	3.1	15	8.1	22	20	17	23	04																																						
05	68	47	58	-1	46	52	7	0	RA			0.0	T	30.20	30.28	3.1	16	5.8	17	15	16	15	05																																						
06	72	49	61	2	51	55	4	0	RA BR			0.0	T	30.16	30.25	9.0	17	9.9	23	15	20	16	06																																						
07	80	58	69	10	59	63	0	4	RA			0.0	T	29.91	29.99	5.5	23	7.3	21	28	16	27	07																																						
08	75	57	66	6	52	58	0	1	RA			0.0	T	30.03	30.11	3.7	07	10.5	22	15	20	15	08																																						
09	61	53	57	-3	55	56	8	0	RA FG BR			0.0	0.06	29.95	30.03	6.7	10	8.1	16	11	14	11	09																																						
10	75	57	66	5	47	56	0	1	BR			0.0	0.00	30.05	30.13	10.2	28	10.9	31	25	25	27	10																																						
11	69	49	59	-2	37	49	6	0				0.0	0.00	30.32	30.41	0.7	35	7.1	20	02	16	02	11																																						
12	78	51	65	4	56	60	0	0	TSRA RA BR VCTS			0.0	0.58	30.03	30.12	7.1	16	10.0	32	22	25	23	12																																						
13	82	57	70	9	63	65	0	5	TS TSRA RA BR HZ VCTS			0.0	0.05	29.56	29.64	7.3	21	12.5	43*	27	33	28	13																																						
14	63	50	57	-5	38	47	8	0	RA			0.0	T	29.61	29.69	18.0	27	18.5	41	28	33*	28	14																																						
15	69	46	58	-5	39	49	7	0				0.0	0.00	29.96	30.05	12.1	27	13.1	35	30	28	28	15																																						
16	79	45	62	-1			3	0				0.0	0.00	29.95				8.4	26	22	21	21	16																																						
17	79	55	67	4	59	64	0	2	TSRA RA BR			0.0	0.28	29.75	29.83	7.0	25	11.7	24	27	20	27	17																																						
18	55	47	51	-12	45	48	14	0	RA BR			0.0	1.39	29.71	29.79	10.7	36	13.3	33	01	28	05	18																																						
19	59	40	50	-13	38	44	15	0				0.0	0.00	30.05	30.14	6.7	32	7.2	20	29	16	29	19																																						
20	59	37	48	-16	34	42	17	0				0.0	0.00	30.11	30.20	6.7	33	7.9	21	32	16	32	20																																						
21	60	35*	48*	-16	35	43	17	0				0.0	0.00	30.19	30.27	7.8	29	8.0	23	01	18	28	21																																						
22	66	37	52	-13	39	47	13	0				0.0	0.00			5.2	30	6.5	16	34	14	29	22																																						
23	72	42	57	-8	47	53	8	0				0.0	0.00	30.08	30.16	4.7	20	6.4	17	15	15	15	23																																						
24	83	47	65	0	58	62	0	0				0.0	0.00	29.85	29.93	6.3	25	8.1	23	29	17	28	24																																						
25	72	56	64	-1	54	58	1	0				0.0	0.00	30.04	30.13	4.1	11	10.9	25	16	22	16	25																																						
26	75	56	66	0	63	63	0	1	BR HZ			0.0	0.00	30.04	30.13	1.9	10	4.0	13	15	10	15	26																																						
27	82	63	73	7	66	67	0	8	TS TSRA RA BR HZ			0.0	0.06	30.06	30.15	2.2	09	4.4	20	16	17	16	27																																						
28	79	63	71	4	65	67	0	6	BR			0.0	0.00	30.06	30.15	7.2	16	7.6	21	16	17	16	28																																						
29	79	62	71	4	65	67	0	6	FG BR			0.0	0.00	30.02	30.11	6.3	15	7.4	23	16	21	16	29																																						
30	81	63	72	5	65	67	0	7	FG+ BR			0.0	0.00	29.88	29.97	5.9	15	6.2	21	16	18	16	30																																						
31	87*	65	76*	9	68	70	0	11	TS TSRA RA BR VCTS			0.0	0.12	29.66	29.74	9.9	21	10.5	32	30	26	30	31																																						
										72.1				50.7		61.4		■ ■		5.1		1.7		< MONTHLY AVERAGES TOTALS->				0.0		3.40				9.2		<- MONTHLY AVERAGES																									
										-.4				-1.7		-1.1		■ ■		<-----DEPARTURE FROM NORMAL----->																				-.75		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.67 DATE: 17-18										SEA LEVEL PRESSURE										DATE		TIME																													
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:										MINIMUM										11 1051		13 1951																			
HEATING: 159										37										4118										-819										NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 9															
COOLING: 53										-9										104										31										MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 5																	
																																								THUNDERSTORMS: 6		HEAVY FOG: 1		SNOWFALL ≥ 1.0 INCH: 0																	

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

MAY 2002

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	0.01	T	T	T	T	0.34	0.26	0.16	T				01					0.01						01		0.01			
02			0.04	0.04	T								02											02		0.85			
03													03											03		0.00			
04													04											04		0.00			
05	T												05											05		T			
06													06											06		T			
07	T												07											07		T			
08													08											08		T			
09	T	T	0.01	0.03	0.01	T							09				T		T	0.01		T	T	09		0.06			
10													10											10		0.00			
11													11											11		0.00			
12			T	T	T	0.34	0.10						12				T	0.05	0.06	T			0.01	12		0.58			
13	T	T			T								13	0.01		0.01	0.02	0.03	T					13		0.05			
14													14				T							14		T			
15													15						T					15		0.00			
16													16											16		0.00			
17			T										17				T							17		0.28			
18	T	0.11	0.05	0.26	0.15	0.21	0.30	0.24	0.05	0.02			18								T	T	0.26	0.02	18		1.39		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
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				0.05	0.01							27		0.06		
28													28												28		0.00		
29													29												29		0.00		
30													30												30		0.00		
31													31										0.12		31		0.12		

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 MAY 2002

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							6.00	10.00	
02							1.50	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							5.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							.50	10.00	
10							.75	10.00	
11							10.00	10.00	
12							2.50	10.00	
13							2.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							1.75	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							8.00	10.00	
25							10.00	10.00	
26							2.50	10.00	
27							1.75	10.00	
28							6.00	10.00	
29							.50	10.00	
30							.25	10.00	
31							.50	10.00	
MONTHLY AVGS							6.55	10.00	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									
1 11 17									

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

MAY 2002

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	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: 0503				MAY 01				SUNSET: 1856				SUNRISE: 0456				MAY 07				SUNSET: 1901							
01	OVC	090			8.00	53	50	51	89	6	14	29.73	29.81	01	OVC	060			10.00	59	52	55	78	7	17	29.99	30.08
04	BKN	110			10.00	52	48	50	86	6	27	29.76	29.84	04	BKN	120			10.00	59	55	57	87	5	16	29.94	30.02
07	OVC	090			10.00	52	49	50	89	6	33	29.81	29.90	07	CLR	NC			10.00	63	58	60	84	5	VR	29.93	30.02
10	FEW	NC			9.00	62	47	54	58	6	VR	29.83	29.92	10	CLR	NC			10.00	71	61	65	71	5	VR	29.92	30.01
13	CLR	NC			10.00	66	37	52	34	14	29	29.80	29.89	13	CLR	NC			10.00	77	61	67	58	13	24	29.89	29.98
16	CLR	NC			10.00	67	38	52	35	7	33	29.76	29.85	16	FEW	NC			10.00	78	61	67	56	13	27	29.83	29.92
19	CLR	NC			10.00	63	39	51	41	0	00	29.79	29.88	19	BKN	110			10.00	73	60	65	64	7	22	29.87	29.95
22	BKN	075			10.00	58	51	54	78	13	15	29.81	29.90	22	SCT	NC			10.00	68	59	63	73	7	23	29.89	29.98
SUNRISE: 0502				MAY 02				SUNSET: 1857				SUNRISE: 0455				MAY 08				SUNSET: 1902							
01	OVC	080			10.00	57	53	55	87	15	15	29.75	29.83	01	CLR	NC			10.00	62	58	60	86	7	30	29.91	30.00
04	OVC	055			8.00	56	54	55	93	14	12	29.65	29.73	04	CLR	NC			10.00	64	59	61	84	9	36	29.93	30.02
07	OVC	007			1.50	57	57	57	100	14	13	29.55	29.64	07	CLR	NC			10.00	63	48	55	58	17	36	30.02	30.11
10	BKN	012			10.00	65	63	64	93	9	16	29.46	29.55	10	FEW	NC			10.00	70	48	58	46	9	01	30.06	30.15
13	CLR	NC			9.00	74	66	69	76	18	22	29.40	29.49	13	SCT	NC			10.00	73	52	61	48	3	VR	30.05	30.14
16	CLR	NC			7.00	76	69	71	79	10	20	29.37	29.46	16	FEW	NC			10.00	70	57	62	64	14	16	30.03	30.12
19	CLR	NC			10.00	76	66	69	72	13	22	29.34	29.43	19	CLR	NC			10.00	64	55	59	73	12	15	30.05	30.14
22	BKN	070			10.00	71	62	65	73	13	23	29.43	29.52	22	SCT	NC			10.00	59	47	53	64	10	09	30.08	30.17
SUNRISE: 0501				MAY 03				SUNSET: 1858				SUNRISE: 0454				MAY 09				SUNSET: 1903							
01	CLR	NC			10.00	61	46	53	58	24	30	29.57	29.66	01	OVC	070			10.00	56	48	52	75	9	11	30.03	30.12
04	CLR	NC			10.00	55	43	49	64	14	29	29.65	29.74	04	OVC	020			10.00	53	51	52	93	10	09	30.00	30.09
07	CLR	NC			10.00	53	23	41	31	17	30	29.79	29.88	07	OVC	010			10.00	53	51	52	93	10	07	30.03	30.12
10	FEW	NC			10.00	56	28	44	34	26	31	29.83	29.91	10	OVC	004			2.50	54	53	53	97	8	08	30.01	30.10
13	CLR	NC			10.00	62	32	48	32	17	27	29.81	29.90	13	OVC	006			2.50	58	55	56	90	8	11	29.94	30.03
16	CLR	NC			10.00	61	29	47	30	17	30	29.88	29.97	16	OVC	008			3.00	60	57	58	90	6	10	29.90	29.98
19	FEW	NC			10.00	56	24	43	29	13	30	29.95	30.04	19	OVC	006			7.00	61	59	60	93	9	15	29.83	29.92
22	CLR	NC			10.00	46	30	39	54	6	31	30.08	30.16	22	OVC	002			2.50	61	60	60	97	5	18	29.88	29.96
SUNRISE: 0460				MAY 04				SUNSET: 1859				SUNRISE: 0453				MAY 10				SUNSET: 1904							
01	CLR	NC			10.00	39	34	37	82	7	33	30.15	30.24	01	OVC	002			1.25	61	61	61	100	0	00	29.88	29.96
04	CLR	NC			10.00	41	31	37	67	3	34	30.20	30.29	04	BKN	003			3.00	60	60	60	100	8	29	29.91	30.00
07	CLR	NC			10.00	47	34	41	61	7	34	30.26	30.35	07	SCT	NC			4.00	64	61	62	90	10	30	30.00	30.09
10	CLR	NC			10.00	57	34	46	42	7	11	30.27	30.36	10	CLR	NC			10.00	69	53	60	57	14	27	30.07	30.16
13	CLR	NC			10.00	60	32	47	35	8	15	30.22	30.31	13	CLR	NC			10.00	74	48	59	40	14	24	30.05	30.14
16	CLR	NC			10.00	60	35	48	39	15	15	30.14	30.23	16	CLR	NC			10.00	73	38	55	28	18	27	30.05	30.13
19	CLR	NC			10.00	56	38	47	51	13	15	30.17	30.25	19	CLR	NC			10.00	70	33	52	26	9	27	30.08	30.16
22	BKN	100			10.00	51	43	47	74	10	25	30.18	30.27	22	CLR	NC			10.00	58	36	48	44	9	29	30.17	30.26
SUNRISE: 0459				MAY 05				SUNSET: 1900				SUNRISE: 0452				MAY 11				SUNSET: 1905							
01	OVC	070			10.00	51	44	48	77	5	29	30.17	30.26	01	CLR	NC			10.00	54	34	45	47	9	32	30.24	30.33
04	BKN	070			10.00	50	42	46	74	3	28	30.16	30.25	04	CLR	NC			10.00	53	28	42	38	0	00	30.30	30.39
07	CLR	NC			10.00	52	43	48	72	3	31	30.22	30.31	07	CLR	NC			10.00	56	35	46	46	8	01	30.37	30.46
10	CLR	NC			10.00	59	42	51	54	3	VR	30.22	30.31	10	CLR	NC			10.00	61	33	48	35	12	36	30.37	30.45
13	CLR	NC			10.00	67	41	54	39	6	33	30.19	30.28	13	CLR	NC			10.00	65	37	51	36	6	VR	30.35	30.44
16	FEW	NC			10.00	67	47	56	49	13	14	30.17	30.25	16	CLR	NC			10.00	69	35	52	29	6	34	30.30	30.39
19	CLR	NC			10.00	62	51	56	67	9	16	30.18	30.27	19	CLR	NC			10.00	64	38	51	38	6	21	30.29	30.38
22	CLR	NC			10.00	58	53	55	84	8	16	30.22	30.31	22	CLR	NC			10.00	59	50	54	72	9	13	30.27	30.36
SUNRISE: 0457				MAY 06				SUNSET: 1900				SUNRISE: 0451				MAY 12				SUNSET: 1906							
01	CLR	NC			10.00	53	48	50	83	5	21	30.23	30.32	01	OVC	065			10.00	59	46	52	62	7	16	30.24	30.33
04	CLR	NC			8.00	49	47	48	93	5	20	30.24	30.33	04	OVC	044			10.00	58	39	49	50	9	16	30.20	30.29
07	CLR	NC			5.00	54	51	52	90	3	21	30.25	30.33	07	OVC	060			10.00	55	49	52	80	12	14	30.18	30.27
10	CLR	NC			10.00	67	54	60	63	10	19	30.24	30.33	10	BKN	015			10.00	60	54	57	80	13	13	30.11	30.20
13	CLR	NC			10.00	70	50	59	49	15	15	30.16	30.24	13	CLR	NC			10.00	68	60	63	76	13	16	29.98	30.06
16	CLR	NC			10.00	66	50	57	56	17	15	30.12	30.20	16	SCT	NC			6.00	76	65	69	69	15	21	29.87	29.96
19	CLR	NC			10.00	62	53	57	73	12	14	30.08	30.17	19	BKN	045			10.00	66	63	64	90	6	19	29.91	30.00
22	CLR	NC			10.00	61	51	56	70	13	16	30.04	30.13	22	OVC	070			7.00	65	63	64	93	3	36	29.86	29.95

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

MAY 2002

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: 0450					MAY 13					SUNSET: 1907					SUNRISE: 0445					MAY 19					SUNSET: 1913				
01	OVC	038	6.00	-RA BR	65	63	64	93	5	17	29.79	29.88	01	OVC	090	10.00		45	39	42	80	6	36	29.99	30.07				
04	OVC	028	6.00	BR	65	62	63	90	5	02	29.76	29.85	04	SCT	NC	10.00		42	41	42	96	3	30	30.01	30.10				
07	OVC	003	2.00	BR	65	62	63	90	10	13	29.71	29.80	07	SCT	NC	10.00		46	40	43	79	8	31	30.07	30.15				
10	BKN	008	3.00	HZ	72	66	68	82	12	13	29.64	29.73	10	SCT	NC	10.00		54	37	46	53	13	32	30.07	30.16				
13	CLR	NC	10.00		81	69	73	67	16	20	29.52	29.61	13	BKN	055	10.00		55	37	47	51	10	29	30.05	30.14				
16	BKN	027	7.00	-TSRA	75	66	69	74	23	22	29.42	29.51	16	CLR	NC	10.00		57	36	47	45	10	31	30.03	30.12				
19	OVC	110	10.00		73	64	67	74	12	20	29.35	29.44	19	CLR	NC	10.00		52	37	45	57	8	30	30.06	30.15				
22	FEW	NC	10.00		68	57	62	68	24	27	29.34	29.42	22	CLR	NC	10.00		46	38	42	73	3	30	30.08	30.17				
SUNRISE: 0449					MAY 14					SUNSET: 1908					SUNRISE: 0444					MAY 20					SUNSET: 1914				
01	OVC	060	10.00		56	44	50	65	20	28	29.51	29.60	01	CLR	NC	10.00		42	37	40	82	3	35	30.09	30.18				
04	CLR	NC	10.00		52	37	45	57	22	28	29.53	29.62	04	CLR	NC	10.00		38	34	36	86	8	33	30.10	30.19				
07	CLR	NC	10.00		52	37	45	57	14	26	29.58	29.66	07	CLR	NC	10.00		47	34	41	61	7	36	30.13	30.22				
10	OVC	060	10.00		56	37	47	49	21	26	29.58	29.67	10	CLR	NC	10.00		55	33	45	44	7	33	30.13	30.22				
13	BKN	065	10.00		61	37	49	41	26	25	29.55	29.64	13	SCT	NC	10.00		56	33	46	42	9	33	30.09	30.18				
16	OVC	070	10.00	-RA	55	41	48	59	18	29	29.58	29.67	16	FEW	NC	10.00		57	33	46	41	14	30	30.07	30.15				
19	BKN	110	10.00		52	39	46	61	13	26	29.65	29.74	19	BKN	100	10.00		52	35	44	53	6	32	30.11	30.19				
22	FEW	NC	10.00		52	34	44	50	20	30	29.74	29.83	22	OVC	110	10.00		46	36	42	68	6	35	30.14	30.22				
SUNRISE: 0448					MAY 15					SUNSET: 1909					SUNRISE: 0443					MAY 21					SUNSET: 1914				
01	CLR	NC	10.00		50	35	43	57	17	27	29.81	29.90	01	CLR	NC	10.00		39	36	38	89	6	30	30.14	30.23				
04	CLR	NC	10.00		47	37	42	69	12	26	29.84	29.93	04	CLR	NC	10.00		36	35	36	97	6	30	30.15	30.24				
07	CLR	NC	10.00		52	40	46	64	13	25	29.94	30.03	07	CLR	NC	10.00		45	37	41	74	7	30	30.21	30.30				
10	CLR	NC	10.00		62	38	50	41	20	30	29.98	30.07	10	FEW	NC	10.00		53	33	44	47	13	30	30.22	30.31				
13	SCT	NC	10.00		66	38	52	36	20	29	29.98	30.07	13	SCT	NC	10.00		56	34	46	44	12	29	30.18	30.27				
16	CLR	NC	10.00		68	38	53	33	20	28	29.98	30.07	16	SCT	NC	10.00		59	36	48	42	9	26	30.15	30.24				
19	CLR	NC	10.00		65	39	52	39	6	26	30.00	30.09	19	CLR	NC	10.00		53	36	45	52	9	30	30.18	30.27				
22	CLR	NC	10.00		57	42	50	58	7	24	30.04	30.12	22	CLR	NC	10.00		47	38	43	71	5	27						
SUNRISE: 0447					MAY 16					SUNSET: 1910					SUNRISE: 0443					MAY 22					SUNSET: 1915				
01	CLR	NC	10.00		52	45	49	77	8	24	30.05	30.14	01	CLR	NC	10.00		41	38	40	89	3	29						
04	CLR	NC	10.00		49	44	47	83	0	00	30.05	30.14	04	CLR	NC	10.00		39	39	39	100	6	30						
07	CLR	NC	10.00		56	50	53	81	6	23	30.07	30.16	07	CLR	NC	10.00		48	40	44	74	0	00	30.31	30.40				
10					68	52	59	57			30.02	30.10	10	CLR	NC	10.00		60	36	49	41	13	34	30.32	30.40				
13													13	CLR	NC	10.00		63	39	51	41	6	VR	30.26	30.35				
16	CLR	NC	10.00		77	49	61	37	16	22	29.87	29.96	16	CLR	NC	10.00		65	40	52	40	7	33	30.21	30.30				
19	CLR	NC	10.00		72	51	60	48	8	18	29.85	29.94	19	CLR	NC	10.00		61	39	50	44	7	27	30.21	30.29				
22	CLR	NC	10.00		70	54	61	57	12	21	29.85	29.93	22	CLR	NC	10.00		54	41	48	62	5	26	30.21	30.29				
SUNRISE: 0447					MAY 17					SUNSET: 1911					SUNRISE: 0442					MAY 23					SUNSET: 1916				
01	OVC	120	10.00		69	57	62	66	12	22	29.80		01	CLR	NC	10.00		51	44	48	77	0	00	30.19	30.27				
04	OVC	110	10.00		66	55	60	68	9	21	29.77	29.86	04	CLR	NC	10.00		44	43	44	96	0	00	30.17	30.26				
07	OVC	070	10.00		67	57	61	71	10	22	29.77	29.85	07	CLR	NC	10.00		51	48	50	89	0	00	30.19	30.28				
10	CLR	NC	10.00		74	60	65	62	14	23	29.77	29.85	10	CLR	NC	10.00		64	45	54	50	5	VR	30.15	30.24				
13	BKN	060	10.00		77	61	67	58	13	26	29.77	29.85	13	CLR	NC	10.00		69	44	56	41	6	22	30.07	30.16				
16	OVC	055	10.00		77	62	68	60	14	25	29.72	29.81	16	CLR	NC	10.00		71	45	57	39	10	23	30.00	30.09				
19	OVC	070	10.00		71	63	66	76	7	31	29.71	29.80	19	CLR	NC	10.00		63	55	58	76	15	16	29.96	30.04				
22	OVC	090	10.00	-RA	67	60	63	79	13	02	29.68	29.77	22	CLR	NC	10.00		60	55	57	84	9	16	29.95	30.03				
SUNRISE: 0446					MAY 18					SUNSET: 1912					SUNRISE: 0441					MAY 24					SUNSET: 1917				
01	OVC	028	10.00		53	51	52	93	16	04	29.63	29.72	01	CLR	NC	10.00		54	50	52	87	0	00	29.93	30.01				
04	OVC	015	7.00	RA	52	52	52	100	16	03	29.52	29.60	04	CLR	NC	10.00		50	48	49	93	5	32	29.90	29.98				
07	OVC	011	2.50	+RA BR	49	49	49	100	13	35	29.47	29.55	07	CLR	NC	10.00		57	53	55	87	6	25	29.88	29.97				
10	OVC	017	10.00		49	46	47	90	16	34	29.60	29.69	10	CLR	NC	10.00		73	55	62	53	8	24	29.86	29.94				
13	OVC	021	10.00		49	43	46	80	16	34	29.75	29.83	13	CLR	NC	10.00		79	61	68	54	12	21	29.80	29.89				
16	OVC	046	10.00		53	41	47	64	12	33	29.79	29.88	16	FEW	NC	10.00		82	62	69	51	15	28	29.77	29.85				
19	FEW	NC	10.00		51	41	46	69	6	32	29.87	29.96	19	BKN	100	10.00		77	64	69	64	7	22	29.78	29.86				
22	OVC	060	10.00		49	42	46	77	6	31	29.94	30.03	22	BKN	110	10.00		75	63	67	66	10	30	29.85	29.93				

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

MAY 2002

ILG

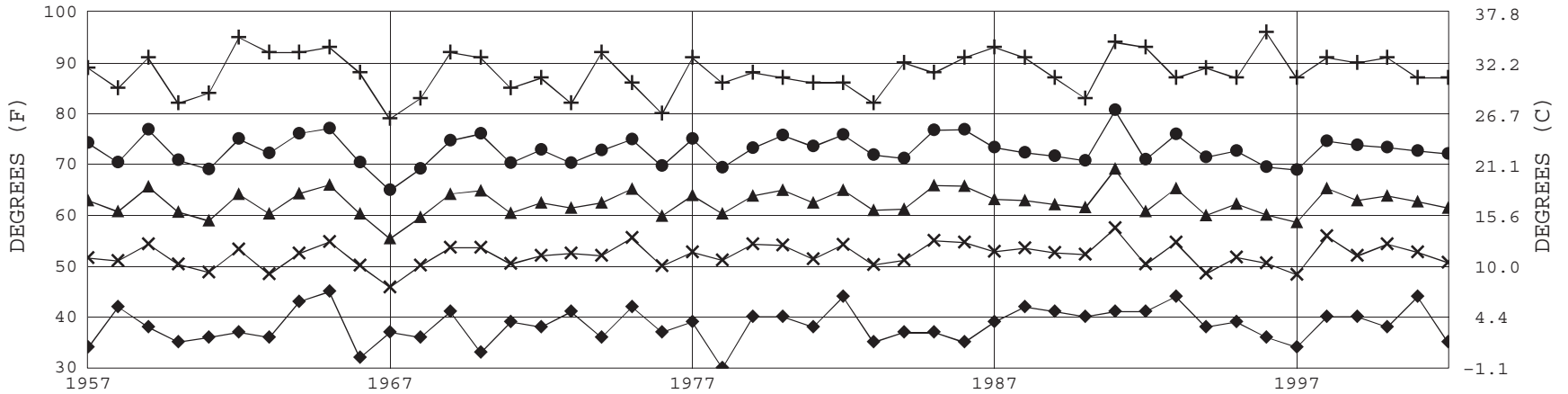
WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as	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 Ok/as	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: 0441										MAY 25				SUNSET: 1918				SUNRISE: 0437										MAY 31				SUNSET: 1923			
01	BKN	100						10.00		69	63	65	81	13	30	29.90	29.98	01	CLR	NC						10.00		67	67	67	100	3	17	29.79	29.88
04	CLR	NC						10.00		62	56	59	81	9	01	29.94	30.03	04	OVC	006						10.00		67	65	66	93	6	17	29.76	29.85
07	CLR	NC						10.00		61	46	53	58	10	01	30.06	30.15	07	OVC	002						1.00	BR	67	67	67	100	7	20	29.75	29.84
10	CLR	NC						10.00		66	50	57	56	9	08	30.10	30.19	10	FEW	NC						10.00		79	70	73	74	10	20	29.70	29.79
13	CLR	NC						10.00		69	51	59	53	8	18	30.07	30.16	13	CLR	NC						10.00		85	70	75	61	14	23	29.63	29.71
16	OVC	050						10.00		67	57	61	71	21	15	30.04	30.13	16	FEW	NC						10.00		85	67	73	55	16	23	29.55	29.64
19	OVC	046						10.00		62	54	58	75	17	15	30.06	30.15	19	CLR	NC						10.00		80	68	72	67	10	22	29.54	29.62
22	CLR	NC						10.00		57	53	55	87	7	12	30.10	30.19	22	FEW	NC						10.00	TS	72	67	69	84	10	27	29.57	29.66
SUNRISE: 0440										MAY 26				SUNSET: 1919				<h3>3-HOURLY OBSERVATION NOTES</h3> <p>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. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.</p>																	
01	OVC	011						10.00		56	55	55	97	9	10	30.06	30.14																		
04	OVC	005						10.00		57	57	57	100	7	09	30.03	30.11																		
07	OVC	005						5.00	BR	58	58	58	100	7	08	30.04	30.13																		
10	OVC	007						3.00	BR	63	61	62	93	0	00	30.05	30.14																		
13	OVC	015						3.00		69	65	66	87	0	00	30.05	30.14																		
16	CLR	NC						9.00		74	66	69	76	6	VR	30.02	30.11																		
19	CLR	NC						8.00		73	66	69	79	0	00	30.01	30.10																		
22	CLR	NC						7.00		69	67	68	93	0	00	30.04	30.13																		
SUNRISE: 0439										MAY 27				SUNSET: 1920																					
01	CLR	NC						5.00	BR	66	66	66	100	0	00	30.04	30.13																		
04	CLR	NC						3.00	BR	64	64	64	100	0	00	30.05	30.14																		
07	BKN	006						2.00	BR	65	65	65	100	6	04	30.09	30.17																		
10	CLR	NC						3.00	BR	70	66	67	87	6	07	30.10	30.19																		
13	CLR	NC						9.00		78	67	71	69	7	18	30.06	30.15																		
16	CLR	NC						10.00	TS	75	67	70	76	14	16	30.03	30.12																		
19	CLR	NC						10.00		71	68	69	90	5	09	30.04	30.13																		
22	FEW	NC						10.00		67	66	66	97	0	00	30.06	30.15																		
SUNRISE: 0439										MAY 28				SUNSET: 1920																					
01	CLR	NC						10.00		66	65	65	96	6	15	30.06	30.15																		
04	CLR	NC						10.00		63	62	62	97	7	14	30.06	30.15																		
07	CLR	NC						9.00		66	64	65	93	5	18	30.09	30.17																		
10	CLR	NC						10.00		72	67	69	84	6	18	30.08	30.16																		
13	CLR	NC						10.00		78	69	72	74	9	15	30.05	30.14																		
16	CLR	NC						10.00		75	63	67	66	14	16	30.03	30.11																		
19	FEW	NC						10.00		71	64	67	79	6	14	30.04	30.13																		
22	OVC	043						10.00		68	66	67	93	9	15	30.06	30.15																		
SUNRISE: 0438										MAY 29				SUNSET: 1921																					
01	CLR	NC						5.00	BR	66	66	66	100	6	16	30.04	30.13																		
04	FEW	NC						5.00	BR	63	63	63	100	5	05	30.05	30.14																		
07	SCT	NC						2.00	BR	65	65	65	100	3	10	30.07	30.16																		
10	FEW	NC						9.00		73	67	69	81	6	VR	30.06	30.15																		
13	CLR	NC						10.00		77	66	70	69	7	17	30.03	30.12																		
16	CLR	NC						10.00		77	66	70	69	16	16	29.98	30.06																		
19	CLR	NC						10.00		71	65	67	81	13	16	29.97	30.05																		
22	CLR	NC						10.00		67	67	67	100	7	15	29.97	30.06																		
SUNRISE: 0438										MAY 30				SUNSET: 1922																					
01	OVC	003						8.00		65	65	65	100	5	12	29.95	30.04																		
04	VV	001						0.25	FG	63	63	63	100	0	00	29.93	30.02																		
07	OVC	003						1.50	BR	64	64	64	100	0	00	29.95	30.03																		
10	FEW	NC						10.00		73	64	67	74	7	14	29.93	30.02																		
13	CLR	NC						10.00		79	65	70	62	8	13	29.88	29.97																		
16	CLR	NC						10.00		80	65	70	60	10	14	29.82	29.91																		
19	CLR	NC						10.00		73	65	68	76	10	16	29.81	29.90																		
22	CLR	NC						10.00		69	66	67	90	8	15	29.82	29.91																		

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			56	50	53	82	29.96	30.05	9.14	8	2	26
02			55	50	52	84	29.95	30.04	8.73	7	2	26
03			55	49	52	84	29.95	30.04	8.55	6	1	26
04			54	49	51	85	29.95	30.04	8.72	7	1	31
05			53	48	51	85	29.96	30.04	8.38	7	1	34
06			54	49	51	86	29.97	30.06	7.51	7	1	32
07			56	50	53	80	29.99	30.08	7.60	8	2	32
08			59	50	55	72	29.99	30.08	7.98	10	3	32
09			62	50	56	67	29.99	30.08	8.24	10	3	28
10			64	50	57	63	29.99	30.08	8.98	9	3	29
11			66	50	58	59	29.98	30.07	9.05	10	4	25
12			68	50	58	56	29.97	30.06	9.12	9	5	24
13			69	51	59	55	29.95	30.04	9.45	11	6	24
14			69	51	59	53	29.94	30.03	9.60	11	6	23
15			70	52	60	54	29.92	30.01	9.58	12	6	22
16			69	51	59	54	29.92	30.01	9.42	13	6	23
17			68	51	59	56	29.92	30.00	9.45	12	6	23
18			67	51	59	60	29.92	30.01	9.58	11	5	22
19			65	51	58	64	29.93	30.01	9.84	9	5	20
20			63	52	57	68	29.93	30.02	9.74	8	4	19
21			62	52	57	72	29.95	30.03	9.68	8	4	19
22			60	52	56	75	29.94	30.03	9.56	9	3	23
23			59	52	55	79	29.95	30.04	9.38	8	2	25
24			58	51	54	80	29.96	30.05	9.23	8	2	25

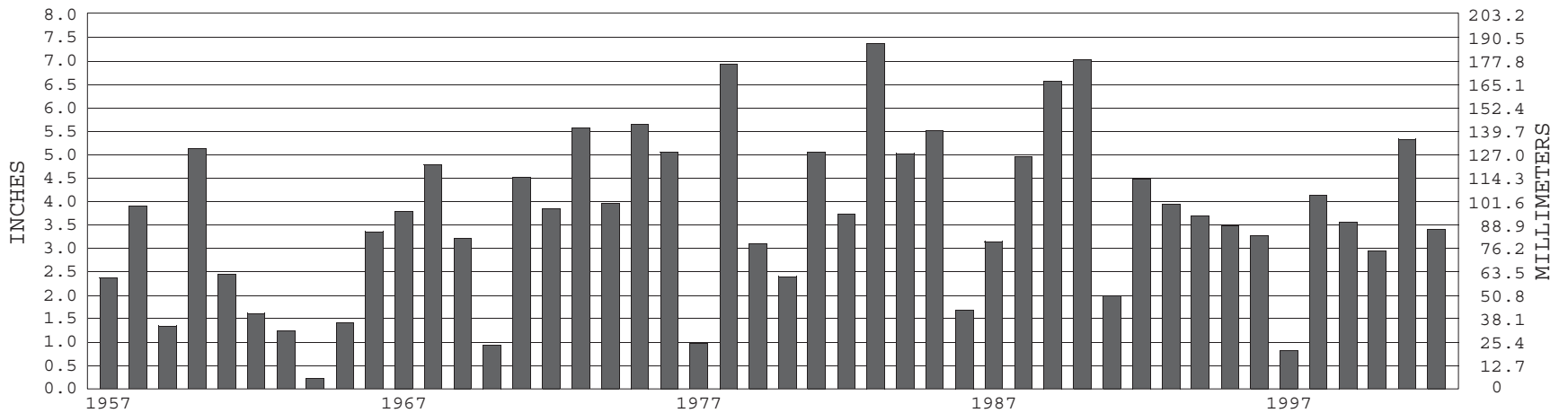
WILMINGTON, DE MAY TEMPERATURES



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

Long-Term (1957-2002) Mean: 62.5 1961-1990 Normal: 62.5

WILMINGTON, DE MAY PRECIPITATION



Long-Term (1957-2002) Mean Monthly Total: 3.67

1961-1990 Normal: 4.15



MAY 2002

WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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