



# MAY 1999

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# WILMINGTON, DE

NEW CASTLE COUNTY APRT (ILG)  
 Lat: 39° 40' N Long: 75° 36' W Elev (Ground): 74 Feet  
 Time Zone: EASTERN WBAN: 13781 ISSN #:0198-117X

MAY 1999  
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												
																			SPEED	DIR	SPEED	DIR											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24										
01	68	40*	54	-3	32	45	11	0					0.00	30.13	30.22	10.4	05	11.6	24	04	20	07	01										
02	67	44	56	-2	34	46	9	0					0.00	30.05	30.13	14.5	04	15.2	33	07	26	06	02										
03	58	49	54*	-4	47	51	11	0	RA BR				0.09	29.92	30.01	13.2	02	13.6	30	35	24	02	03										
04	66	53	60	2	50	54	5	0	RA				0.01	29.87	29.96	4.4	01	7.1	20	36	17	01	04										
05	74	51	63	4	38	50	2	0	HZ				0.00	29.89	29.97	3.5	15	5.6	20	16	16	16	05										
06	73	54	64	5	54	56	1	0	RA BR				T	29.89	29.98	8.5	09	9.1	18	10	16	10	06										
07	65	54	60	1	59	59	5	0	FG BR				0.00	29.86	29.94	9.1	05	9.5	17	05	15	04	07										
08	78	58	68	8	59	62	0	3	RA FG BR HZ				T	29.77	29.85	1.3	10	7.6	24	15	21	22	08										
09	75	56	66	6	52	58	0	1					0.00	29.86	29.95	7.2	28	7.8	28	30	21	29	09										
10	74	49	62	1	44	53	3	0					0.00	29.98	30.07	8.0	30	8.5	23	31	17	29	10										
11	71	50	61	0	47	53	4	0					0.00	30.10	30.19	3.8	12	9.3	23	15	20	15	11										
12	79	50	65	4	55	60	0	0	TSRA RA BR				0.53	29.90	29.99	3.7	22	5.8	28	30	24	30	12										
13	64	54	59	-3	44	52	6	0	RA BR				0.02	29.85	29.93	9.2	05	9.8	22	05	17	05	13										
14	66	50	58	-4	39	48	7	0					0.00	30.09	30.18	11.3	07	12.3	26	05	21	05	14										
15	72	42	57	-5	37	48	8	0					0.00	30.21	30.29	8.1	06	10.1	24	06	21	06	15										
16	71	44	58	-4	47	53	7	0					0.00	30.21	30.30	8.0	06	9.3	20	04	17	04	16										
17	73	50	62	-1	53	57	3	0					0.00	30.16	30.24	3.6	10	7.4	17	15	15	15	17										
18	76	54	65	2	59	62	0	0	RA				T	30.02	30.11	7.5	06	8.2	22	04	17	05	18										
19	69	58	64	0	63	63	1	0	RA BR				0.44	29.89	29.97	5.3	01	6.7	18	02	15	01	19										
20	75	52	64	0	44	54	1	0					0.00	29.99	30.07	10.8	33	11.2	28	36	22	33	20										
21	78	47	63	-1	44	54	2	0					0.00	30.01	30.10	3.4	29	5.9	18	27	14	30	21										
22	80	52	66	1	57	61	0	1	RA BR				0.01	29.87	29.96	4.7	15	6.4	23	16	20	16	22										
23	75	61	68	3	62	64	0	3	RA BR HZ				0.23	29.71	29.79	3.9	23	6.6	21	25	16	24	23										
24	71	55	63	-2	57	60	2	0	RA FG+ BR SQ				2.23	29.52	29.61	3.8	23	7.9	61*	23	48*	24	24										
25	72	50	61	-4	44	53	4	0					0.00	29.70	29.78	9.5	23	10.7	30	23	23	26	25										
26	76	55	66	0	46	55	0	1					0.00	29.74	29.82	9.2	25	11.5	32	24	25	24	26										
27	73	51	62	-4	45	53	3	0					0.00	29.83	29.91	9.7	30	10.3	26	30	21	32	27										
28	84	50	67	1	48	57	0	2					0.00	29.93	30.02	8.4	29	9.1	22	29	18	29	28										
29	88	58	73	6	53	62	0	8					0.00	30.03	30.11	4.7	25	6.1	17	27	14	27	29										
30	90*	61	76*	9	58	65	0	11					0.00	30.08	30.16	2.8	28	3.9	15	36	13	01	30										
31	88	61	75	7	62	67	0	10	BR HZ				0.00	30.01	30.09	4.2	19	5.1	18	15	16	15	31										
73.8											52.0	62.9	■ ■	49.5	56.0	3.1	1.3	< MONTHLY AVERAGES		TOTALS-->			3.56	29.94	30.02	1.3	01	8.7	<-- MONTHLY AVERAGES				
0.9											- .2	0.4	■ ■	<----- DEPARTURE FROM NORMAL ----->											- .28	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 2.23		DATE: 24		SEA LEVEL PRESSURE		DATE		TIME															
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL:		DATE:		MAXIMUM		DATE		MINIMUM		DATE		TIME											
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH:		DATE:		:		:		:		:		:											
HEATING: 95					4417					NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90: 1		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 8		PRECIPITATION ≥ 0.10 INCH: 4		SNOWFALL ≥ 1.0 INCH: :													
COOLING: 40					-4					40		-4		MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		HEAVY FOG: 1															

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## WILMINGTON, DE

MAY 1999

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	T	0.02	0.04	T	T	T					03		0.09			
04					0.01	T	T	T					04											04		0.01			
05								T					05											05		0.00			
06													06	T							T			06		T			
07													07											07		0.00			
08					T								08			T								08		T			
09													09											09		0.00			
10													10											10		0.00			
11													11											11		0.00			
12													12											12		0.53			
13	0.02	T		0.01									13								0.04	0.34	0.14	13	0.52	0.02			
14													14											14	0.03	0.00			
15													15											15		0.00			
16													16											16		0.00			
17													17											17		0.00			
18													18											18		T			
19	0.03	T		T		T	0.14	0.03			0.09	0.07	19	0.01	T		0.03	0.03	0.01			T	19		0.44				
20													20											20		0.00			
21													21											21		0.00			
22													22											22		0.01			
23		T	0.02	0.01	0.03	0.07	0.04	0.05					23	0.01							T	T	0.01	23		0.23			
24							0.02	0.10	0.38	0.49	0.26	0.17	24	0.01		0.78	0.01	0.01					24		2.23				
25													25											25		0.00			
26													26											26		0.00			
27													27											27		0.00			
28													28											28		0.00			
29													29											29		0.00			
30													30											30		0.00			
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)												
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 1961 – 1990

### 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 1999

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

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							10.00	10.00	
02							10.00	10.00	
03							2.00	10.00	
04							10.00	10.00	
05							5.00	10.00	
06							4.00	10.00	
07							.75	10.00	
08							1.00	10.00	
09							8.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							4.00	10.00	
13							4.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							7.00	10.00	
19							1.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							4.00	10.00	
23							2.00	10.00	
24							.50	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							8.00	10.00	
31							6.00	10.00	
<b>MONTHLY AVGS</b>							7.01	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 19									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

MAY 1999

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<b>SUNRISE: 0504      MAY 01      SUNSET: 1856</b>																													
01	CLR	NC	10.00		45	35	41	68	6	03	30.17	30.25	01	OVC	006	10.00		56	54	55	93	9	08	29.85	29.93				
04	CLR	NC	10.00		40	34	37	79	8	36	30.15	30.24	04	OVC	002	1.25	BR	54	54	54	100	12	05	29.84	29.93				
07	CLR	NC	10.00		50	33	43	52	15	02	30.16	30.25	07	OVC	002	1.00	BR	55	55	55	100	10	05	29.88	29.97				
10	CLR	NC	10.00		60	33	48	36	17	04	30.17	30.25	10	OVC	002	1.00	BR	58	58	58	100	8	05	29.88	29.96				
13	CLR	NC	10.00		65	32	50	29	17	02	30.14	30.22	13	OVC	004	1.75	BR	61	60	60	97	8	04	29.88	29.97				
16	CLR	NC	10.00		66	33	50	29	16	06	30.09	30.17	16	OVC	004	2.00	BR	64	62	63	93	9	03	29.84	29.93				
19	CLR	NC	10.00		61	33	48	35	9	08	30.08	30.17	19	OVC	004	2.00	BR	62	61	61	96	13	04	29.83	29.92				
22	CLR	NC	10.00		52	30	43	43	9	08	30.11	30.19	22	OVC	002	5.00	BR	62	61	61	96	9	08	29.85	29.94				
<b>SUNRISE: 0502      MAY 02      SUNSET: 1857</b>																													
01	CLR	NC	10.00		46	30	39	54	8	36	30.07	30.16	01	OVC	002	3.00	BR	60	59	59	96	9	08	29.82	29.91				
04	CLR	NC	10.00		46	32	40	58	13	01	30.04	30.13	04	OVC	002	1.75	BR	59	58	58	96	6	05	29.80	29.89				
07	CLR	NC	10.00		51	34	43	52	16	02	30.05	30.14	07	OVC	002	1.00	BR	58	58	58	100	8	09	29.77	29.86				
10	CLR	NC	10.00		62	38	50	41	21	05	30.07	30.16	10	OVC	030	9.00		69	62	65	78	7	11	29.76	29.85				
13	CLR	NC	10.00		63	33	49	33	26	05	30.07	30.16	13	FEW	NC	10.00		76	66	70	72	14	15	29.70	29.79				
16	CLR	NC	10.00		66	36	51	33	20	06	30.04	30.13	16	BKN	110	10.00		75	61	66	62	13	28	29.71	29.80				
19	CLR	NC	10.00		60	31	47	33	13	06	30.02	30.11	19	BKN	100	10.00		71	56	62	59	5	35	29.75	29.83				
22	CLR	NC	10.00		56	33	46	42	14	05	30.02	30.10	22	CLR	NC	10.00		63	58	60	84	0	00	29.80	29.89				
<b>SUNRISE: 0501      MAY 03      SUNSET: 1858</b>																													
01	CLR	NC	10.00		50	34	43	54	9	35	29.96	30.05	01	OVC	085	10.00		59	56	57	90	0	00	29.81	29.90				
04	OVC	030	10.00		56	38	47	51	17	02	29.91	30.00	04	OVC	095	10.00		61	53	57	75	6	24	29.81	29.90				
07	OVC	018	9.00	-RA	53	49	51	86	21	02	29.92	30.01	07	OVC	095	8.00		61	56	58	84	0	00	29.85	29.94				
10	OVC	016	10.00		56	50	53	81	20	03	29.94	30.03	10	FEW	NC	10.00		71	51	60	49	10	25	29.86	29.94				
13	OVC	018	10.00	-RA	56	52	54	87	22	03	29.93	30.02	13	FEW	NC	10.00		74	53	62	48	10	28	29.85	29.93				
16	OVC	016	10.00		56	53	54	90	14	36	29.91	30.00	16	SCT	NC	10.00		73	50	60	44	16	29	29.85	29.94				
19	OVC	031	10.00		57	50	53	78	10	02	29.91	29.99	19	CLR	NC	10.00		66	48	56	52	9	30	29.88	29.97				
22	OVC	033	10.00		56	45	50	67	6	34	29.91	29.99	22	CLR	NC	10.00		59	48	53	67	7	27	29.91	30.00				
<b>SUNRISE: 0500      MAY 04      SUNSET: 1859</b>																													
01	OVC	090	10.00		54	46	50	75	6	33	29.88	29.96	01	CLR	NC	10.00		54	47	50	77	8	28	29.93	30.02				
04	OVC	042	10.00		55	46	50	72	9	34	29.86	29.95	04	CLR	NC	10.00		51	44	48	77	7	30	29.94	30.02				
07	BKN	040	10.00		55	47	51	74	8	35	29.88	29.97	07	CLR	NC	10.00		57	44	50	62	12	32	29.99	30.08				
10	BKN	030	10.00		64	50	56	61	10	36	29.87	29.96	10	CLR	NC	10.00		64	43	53	46	9	29	30.01	30.09				
13	OVC	030	10.00		64	52	57	65	8	06	29.86	29.95	13	CLR	NC	10.00		70	43	56	38	14	32	29.98	30.06				
16	OVC	034	10.00		65	52	58	63	3	02	29.86	29.94	16	CLR	NC	10.00		73	44	57	36	12	31	29.95	30.03				
19	OVC	110	10.00		62	52	56	70	8	06	29.85	29.94	19	CLR	NC	10.00		66	43	54	43	7	30	29.98	30.07				
22	OVC	050	10.00		57	54	55	90	6	16	29.89	29.98	22	CLR	NC	10.00		59	48	53	67	5	27	30.02	30.10				
<b>SUNRISE: 0459      MAY 05      SUNSET: 1900</b>																													
01	OVC	070	8.00		55	36	46	49	3	26	29.88	29.96	01	CLR	NC	10.00		52	46	49	80	7	34	30.06	30.15				
04	OVC	033	7.00		54	37	46	53	0	00	29.88	29.97	04	CLR	NC	10.00		53	42	48	66	6	34	30.10	30.19				
07	SCT	NC	5.00	HZ	57	33	46	41	0	00	29.91	30.00	07	CLR	NC	10.00		58	43	50	58	10	03	30.14	30.23				
10	BKN	022	10.00		65	37	51	36	7	VR	29.91	29.99	10	CLR	NC	10.00		65	46	55	51	6	06	30.17	30.26				
13	CLR	NC	10.00		71	37	54	29	6	VR	29.86	29.95	13	CLR	NC	10.00		70	46	57	42	7	VR	30.12	30.20				
16	CLR	NC	10.00		72	41	56	33	13	16	29.84	29.93	16	CLR	NC	10.00		66	51	58	59	18	15	30.08	30.17				
19	CLR	NC	10.00		62	34	49	35	10	15	29.88	29.96	19	CLR	NC	10.00		59	51	55	75	14	15	30.07	30.16				
22	CLR	NC	10.00		59	33	47	38	8	13	29.90	29.99	22	CLR	NC	10.00		56	51	53	84	8	16	30.07	30.15				
<b>SUNRISE: 0458      MAY 06      SUNSET: 1900</b>																													
01	SCT	NC	10.00		57	54	55	90	6	09	29.88	29.96	01	CLR	NC	10.00		54	50	52	87	0	00	30.03	30.11				
04	CLR	NC	5.00	BR	54	52	53	93	5	06	29.87	29.96	04	CLR	NC	10.00		52	49	50	89	3	18	30.00	30.09				
07	BKN	039	5.00	BR	56	53	54	90	7	11	29.90	29.99	07	FEW	NC	6.00	BR	57	53	55	87	0	00	29.99	30.08				
10	OVC	013	8.00		61	35	49	38	10	07	29.93	30.02	10	CLR	NC	10.00		69	53	60	57	13	21	29.95	30.04				
13	OVC	017	6.00	BR	60	58	59	93	8	11	29.87	29.96	13	CLR	NC	10.00		76	56	64	50	10	26	29.98	29.96				
16	OVC	020	10.00		62	56	59	81	9	12	29.88	29.96	16	FEW	NC	9.00		78	59	66	52	7	17	29.79	29.88				
19	OVC	014	10.00		60	55	57	84	14	09	29.88	29.96	19	CLR	NC	10.00		76	57	64	52	0	00	29.76	29.85				
22	OVC	008	10.00		57	54	55	90	9	09	29.89	29.98	22	OVC	048	4.00	TSRA BR	64	62	63	93	16	28	29.86	29.95				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

MAY 1999

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				
<b>SUNRISE: 0450 MAY 13 SUNSET: 1907</b>																											
01	OVC	070		5.00	-RA BR	61	60	60	97	6	34	29.80	29.89	01	OVC	008		5.00	-RA BR	64	63	63	96	7	06	29.91	30.00
04	OVC	110		10.00		58	50	54	75	13	03	29.79	29.88	04	OVC	006		9.00		63	63	63	100	6	06	29.88	29.97
07	OVC	055		10.00		58	47	52	67	9	05	29.83	29.92	07	OVC	004		1.00	+RA BR	63	63	63	100	8	05	29.89	29.98
10	OVC	038		10.00		61	39	50	44	14	05	29.85	29.94	10	OVC	006		5.00	BR	65	64	64	97	5	02	29.89	29.98
13	OVC	042		10.00		61	39	50	44	10	04	29.85	29.93	13	OVC	047		8.00	-RA	66	64	65	93	10	36	29.87	29.95
16	OVC	047		10.00		62	42	52	48	9	04	29.82	29.91	16	OVC	044		3.00	RA BR	66	63	64	90	8	35	29.86	29.95
19	OVC	070		10.00		60	41	51	50	7	09	29.86	29.95	19	OVC	055		7.00		64	62	63	93	6	35	29.87	29.96
22	OVC	080		10.00		56	39	48	53	9	06	29.92	30.01	22	FEW	NC		8.00		62	60	61	93	5	34	29.91	30.00
<b>SUNRISE: 0449 MAY 14 SUNSET: 1908</b>																											
01	CLR	NC		10.00		52	42	47	69	13	06	29.96	30.05	01	CLR	NC		10.00		60	53	56	78	12	34	29.92	30.01
04	CLR	NC		10.00		51	43	47	74	12	04	29.99	30.08	04	CLR	NC		10.00		56	49	52	77	9	33	29.96	30.04
07	CLR	NC		10.00		53	40	47	61	18	05	30.06	30.15	07	CLR	NC		10.00		58	46	52	65	7	33	30.00	30.09
10	FEW	NC		10.00		62	38	50	41	20	05	30.10	30.19	10	CLR	NC		10.00		67	48	57	51	13	33	30.02	30.11
13	CLR	NC		10.00		65	38	52	37	10	08	30.11	30.20	13	CLR	NC		10.00		73	43	57	34	16	32	29.99	30.07
16	CLR	NC		10.00		64	37	51	37	15	09	30.11	30.20	16	CLR	NC		10.00		74	41	57	31	14	33	29.95	30.04
19	CLR	NC		10.00		58	35	47	42	7	11	30.13	30.22	19	CLR	NC		10.00		69	38	53	32	10	35	29.98	30.06
22	CLR	NC		10.00		53	36	45	52	6	09	30.17	30.26	22	CLR	NC		10.00		60	38	49	44	6	02	30.03	30.12
<b>SUNRISE: 0449 MAY 15 SUNSET: 1909</b>																											
01	CLR	NC		10.00		45	40	43	83	5	32	30.17	30.25	01	CLR	NC		10.00		56	39	48	53	0	00	30.03	30.12
04	CLR	NC		10.00		43	38	41	82	6	33	30.17	30.26	04	CLR	NC		10.00		51	37	45	59	7	36	30.04	30.13
07	CLR	NC		10.00		54	39	47	57	8	02	30.21	30.30	07	CLR	NC		10.00		57	41	49	55	5	30	30.09	30.18
10	CLR	NC		10.00		67	40	53	37	14	03	30.22	30.31	10	FEW	NC		10.00		67	40	53	37	6	26	30.08	30.17
13	CLR	NC		10.00		69	36	53	30	12	07	30.21	30.29	13	CLR	NC		10.00		75	42	57	31	9	29	30.00	30.09
16	CLR	NC		10.00		69	36	53	30	14	09	30.18	30.27	16	CLR	NC		10.00		77	45	59	32	7	31	29.94	30.03
19	CLR	NC		10.00		60	35	48	39	9	09	30.21	30.30	19	CLR	NC		10.00		72	49	59	44	5	16	29.95	30.03
22	CLR	NC		10.00		54	33	45	45	7	06	30.24	30.33	22	CLR	NC		10.00		64	50	56	61	3	17	29.96	30.05
<b>SUNRISE: 0448 MAY 16 SUNSET: 1910</b>																											
01	CLR	NC		10.00		50	40	45	68	8	04	30.22	30.31	01	CLR	NC		10.00		60	51	55	72	0	00	29.94	30.03
04	CLR	NC		10.00		47	41	44	80	8	02	30.20	30.29	04	CLR	NC		10.00		53	51	52	93	3	35	29.92	30.01
07	BKN	043		10.00		56	46	51	70	15	04	30.24	30.32	07	CLR	NC		9.00		62	57	59	84	0	00	29.93	30.01
10	CLR	NC		10.00		64	50	56	61	10	04	30.25	30.34	10	CLR	NC		10.00		75	59	65	58	7	VR	29.91	30.00
13	BKN	060		10.00		68	51	59	55	10	05	30.23	30.31	13	CLR	NC		10.00		79	55	65	44	14	18	29.87	29.96
16	OVC	060		10.00		69	49	58	49	12	08	30.17	30.26	16	CLR	NC		10.00		75	60	66	60	16	18	29.83	29.91
19	OVC	060		10.00		65	49	56	56	10	10	30.18	30.27	19	CLR	NC		10.00		71	58	63	63	7	14	29.81	29.90
22	CLR	NC		10.00		58	50	54	75	9	07	30.21	30.30	22	OVC	100		10.00		68	58	62	70	8	08	29.80	29.88
<b>SUNRISE: 0447 MAY 17 SUNSET: 1911</b>																											
01	CLR	NC		10.00		54	48	51	80	8	05	30.18	30.27	01	FEW	NC		3.00	BR	63	61	62	93	5	04	29.75	29.84
04	OVC	055		10.00		51	49	50	92	6	36	30.16	30.25	04	OVC	014		2.50	-RA BR	63	62	62	97	5	18	29.74	29.83
07	BKN	050		10.00		57	51	54	81	7	04	30.20	30.29	07	OVC	005		2.50	-RA BR	64	63	63	96	8	16	29.73	29.81
10	BKN	050		10.00		67	56	61	68	9	07	30.19	30.28	10	OVC	038		6.00	HZ	69	64	66	84	8	19	29.71	29.80
13	BKN	041		10.00		72	54	62	53	5	03	30.16	30.25	13	OVC	049		10.00		71	62	65	73	12	24	29.69	29.78
16	FEW	NC		10.00		71	57	63	61	9	16	30.12	30.21	16	OVC	085		8.00		71	63	66	76	13	28	29.68	29.76
19	CLR	NC		10.00		66	56	60	70	10	15	30.10	30.19	19	CLR	NC		6.00	HZ	67	60	63	79	9	29	29.68	29.77
22	CLR	NC		10.00		61	55	58	81	5	11	30.12	30.21	22	CLR	NC		5.00	HZ	65	60	62	84	3	11	29.66	29.75
<b>SUNRISE: 0446 MAY 18 SUNSET: 1912</b>																											
01	BKN	022		10.00		57	54	55	90	0	00	30.11	30.20	01	BKN	055		3.00	BR	63	61	62	93	0	00	29.63	29.72
04	OVC	050		10.00		56	54	55	93	3	35	30.07	30.16	04	CLR	NC		4.00	BR	62	60	61	93	6	09	29.56	29.64
07	OVC	008		10.00		61	56	58	84	8	06	30.09	30.18	07	BKN	027		2.00	-RA BR	64	63	63	96	10	10	29.50	29.58
10	CLR	NC		10.00		70	58	63	66	9	06	30.06	30.15	10	OVC	017		0.50	+RA FG	65	65	65	100	9	19	29.43	29.52
13	BKN	049		10.00		75	59	65	58	9	03	30.02	30.10	13	BKN	085		8.00		69	66	67	90	8	21	29.41	29.50
16	OVC	049		10.00		75	62	67	64	13	06	29.95	30.04	16	FEW	NC		10.00		65	60	62	84	6	24	29.43	29.52
19	OVC	018		10.00		67	65	66	93	9	07	29.93	30.02	19	OVC	110		10.00		64	47	55	54	21	28	29.55	29.64
22	OVC	008		10.00		65	63	64	93	8	06	29.95	30.04	22	CLR	NC		10.00		58	44	51	60	6	23	29.63	29.71

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

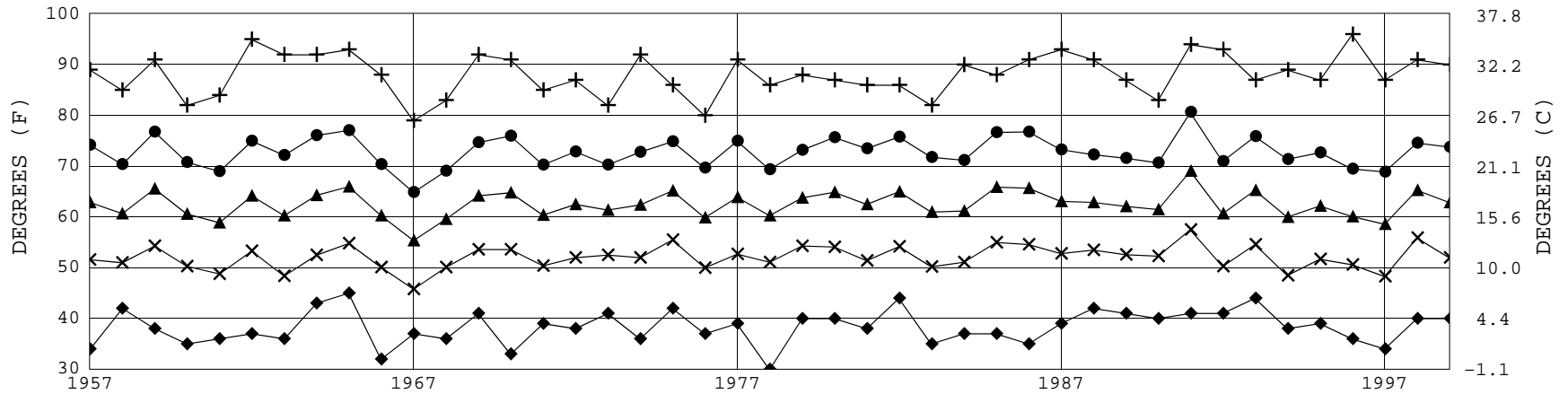
MAY 1999

ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER		CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Ok/as	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG
SUNRISE: 0441							MAY 25			SUNSET: 1918					SUNRISE: 0437							MAY 31			SUNSET: 1922				
01	CLR	NC			10.00		54	44	49	69	7	24	29.64	29.72	01	CLR	NC			10.00		68	62	64	81	0	00	30.05	30.13
04	CLR	NC			10.00		52	45	48	77	6	25	29.65	29.74	04	CLR	NC			10.00		63	60	61	90	0	00	30.04	30.12
07	CLR	NC			10.00		58	49	53	72	10	18	29.70	29.79	07	CLR	NC			10.00		70	62	65	76	0	00	30.05	30.13
10	BKN	060			10.00		68	47	57	47	15	21	29.70	29.79	10	CLR	NC			10.00		82	65	71	56	5	17	30.04	30.12
13	SCT	NC			10.00		70	45	57	41	17	22	29.68	29.77	13	BKN	080			10.00		88	58	69	36	8	22	30.00	30.08
16	SCT	NC			10.00		70	43	56	38	17	25	29.67	29.75	16	SCT	NC			10.00		86	57	68	37	10	23	29.96	30.05
19	CLR	NC			10.00		67	39	53	36	5	24	29.71	29.80	19	CLR	NC			10.00		77	62	68	60	8	15	29.96	30.04
22	CLR	NC			10.00		61	41	51	48	6	20	29.76	29.85	22	CLR	NC			10.00		71	65	67	81	5	17	29.97	30.05
SUNRISE: 0440							MAY 26			SUNSET: 1918					<b>3-HOURLY OBSERVATION NOTES</b>														
01	CLR	NC			10.00		56	46	51	70	6	19	29.74	29.83	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.														
04	OVC	100			10.00		58	45	51	62	10	22	29.73	29.81	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.														
07	CLR	NC			10.00		62	48	55	60	7	22	29.74	29.83	NC= No ceiling detected.														
10	CLR	NC			10.00		72	44	57	37	18	22	29.73	29.81	& = Original observation contained additional weather elements.														
13	BKN	085			10.00		74	43	57	33	17	25	29.69	29.78	See page 3 for additional notes.														
16	OVC	090			10.00		73	46	58	38	10	24	29.68	29.77															
19	OVC	110			10.00		67	46	56	47	12	32	29.73	29.82															
22	BKN	100			10.00		60	46	53	60	8	29	29.80	29.88															
SUNRISE: 0440							MAY 27			SUNSET: 1919																			
01	CLR	NC			10.00		53	45	49	74	7	29	29.80	29.89															
04	OVC	065			10.00		54	46	50	75	8	29	29.80	29.89															
07	OVC	055			10.00		56	47	51	72	10	30	29.84	29.92															
10	SCT	NC			10.00		63	48	55	58	13	31	29.84	29.93															
13	BKN	060			10.00		69	45	56	42	13	31	29.82	29.91															
16	FEW	NC			10.00		72	44	57	37	13	31	29.78	29.87															
19	CLR	NC			10.00		69	40	54	35	6	25	29.80	29.88															
22	CLR	NC			10.00		61	43	52	52	6	25	29.86	29.94															
SUNRISE: 0439							MAY 28			SUNSET: 1920																			
01	CLR	NC			10.00		57	43	50	60	6	26	29.89	29.97															
04	CLR	NC			10.00		52	43	48	72	8	29	29.90	29.99															
07	CLR	NC			10.00		63	43	53	48	10	30	29.94	30.03															
10	CLR	NC			10.00		74	47	59	38	12	29	29.95	30.03															
13	CLR	NC			10.00		80	47	61	31	12	32	29.92	30.01															
16	CLR	NC			10.00		83	50	64	32	14	30	29.90	29.99															
19	CLR	NC			10.00		76	52	62	43	7	28	29.92	30.01															
22	CLR	NC			10.00		68	54	60	61	7	24	29.96	30.05															
SUNRISE: 0438							MAY 29			SUNSET: 1921																			
01	CLR	NC			10.00		64	53	58	68	7	26	29.98	30.06															
04	CLR	NC			10.00		61	50	55	67	3	26	29.99	30.07															
07	CLR	NC			10.00		65	53	58	66	7	25	30.04	30.13															
10	CLR	NC			10.00		80	55	65	42	3	23	30.06	30.15															
13	CLR	NC			10.00		86	50	65	29	8	35	30.04	30.13															
16	SCT	NC			10.00		86	52	66	31	9	31	30.01	30.09															
19	CLR	NC			10.00		80	52	64	38	8	23	30.01	30.10															
22	CLR	NC			10.00		72	55	62	55	6	24	30.05	30.13															
SUNRISE: 0438							MAY 30			SUNSET: 1922																			
01	CLR	NC			10.00		68	57	62	68	6	23	30.06	30.14															
04	CLR	NC			10.00		62	56	59	81	0	00	30.07	30.16															
07	CLR	NC			10.00		70	57	62	64	0	00	30.11	30.20															
10	CLR	NC			10.00		82	61	69	49	5	18	30.12	30.20															
13	CLR	NC			10.00		88	57	69	35	9	26	30.10	30.18															
16	CLR	NC			10.00		88	56	68	34	6	32	30.05	30.13															
19	CLR	NC			10.00		83	58	67	43	5	22	30.03	30.11															
22	CLR	NC			10.00		73	63	67	71	0	00	30.05	30.14															

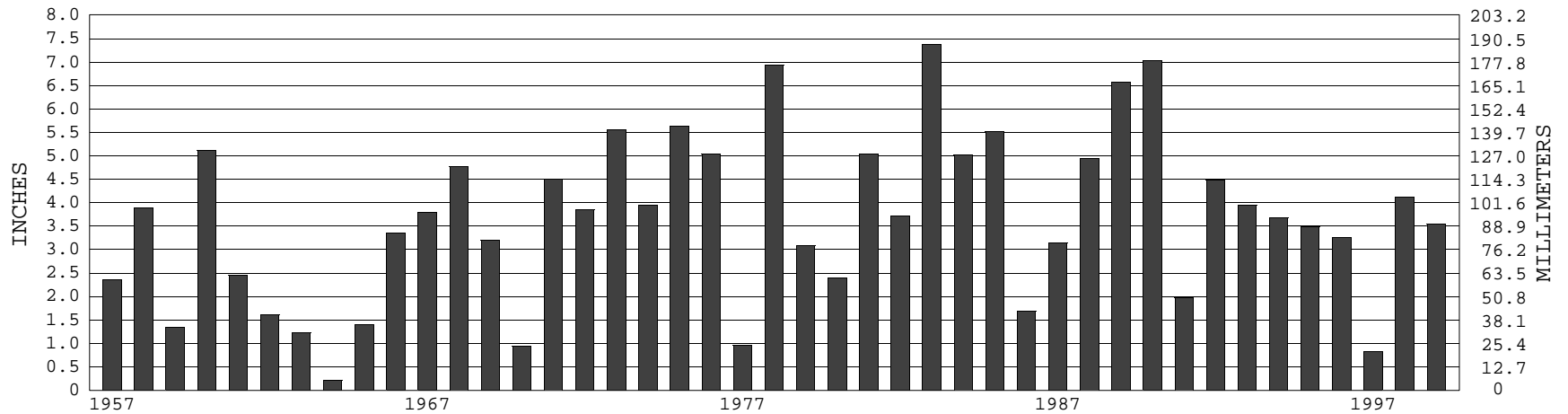
### WILMINGTON, DE MAY TEMPERATURES



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

Long-Term (1957-1999) Mean: 62.5      1961-1990 Normal: 62.5

### WILMINGTON, DE MAY PRECIPITATION



Long-Term (1957-1999) Mean Monthly Total: 3.65

1961-1990 Normal: 3.84



**MAY 1999  
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

### **NOTICE**

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

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