



# MAY 2003

## 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 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					
																			5-SEC	2-MIN	SPEED		DIR	SPEED
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
01	78	54	66	8	57	60	0	1	RA HZ	0		0.0	0.01	29.91	30.00	8.3	15	9.2	24	20	20	20	01	02
02	76	59	68	10	58	61	0	3		0		0.0	0.00	29.70	29.79	4.7	14	10.1	29	36	23	35	02	03
03	63	50	57	-1	45	51	8	0		0		0.0	0.00	29.94	30.02	3.1	05	9.2	24	01	21	02	03	04
04	64	46	55	-3	38	47	10	0		0		0.0	0.00	30.09	30.18	2.1	07	4.8	15	06	13	16	04	05
05	55	40	48*	-11	39	44	17	0	RA BR	0		0.0	0.04	30.05	30.14	4.4	12	6.6	21	13	17	13	05	06
06	60	47	54	-5	51	52	11	0	RA BR HZ	0		0.0	0.03	29.88	29.97	3.6	07	5.4	14	06	12	05	06	07
07	76	52	64	5	58	60	1	0	RA FG+ BR HZ	0		0.0	0.22	29.82	29.91	3.3	15	4.8	16	02	14	16	07	08
08	70	56	63	3	59	60	2	0	RA BR HZ	0		0.0	0.06	29.84	29.92	1.8	08	5.0	15	10	13	10	08	09
09	58	54	56	-4	54	55	9	0	RA BR	0		0.0	0.16	29.88	29.97	3.8	13	5.8	18	04	15	04	09	10
10	69	49	59	-2	58	59	6	0	FG+ BR HZ	0		0.0	0.00	29.79	29.88	3.2	17	4.8	17	16	15	15	10	11
11	77	60	69*	8	64	66	0	4	RA FG+ BR HZ	0		0.0	0.06	29.55	29.64	6.0	17	8.1	20	15	16	16	11	12
12	71	54	63	2	45	53	2	0	RA	0		0.0	0.02	29.53	29.62	15.0	25	15.2	41*	24	32*	25	12	13
13	61	51	56	-5	43	49	9	0	RA	0		0.0	T	29.66	29.75	15.8	27	16.6	37	28	31	28	13	14
14	68	45	57	-5	43	50	8	0		0		0.0	0.00	29.84	29.93	5.9	30	8.9	25	27	21	29	14	15
15	68	46	57	-6	45	52	8	0		0		0.0	0.00	30.02	30.10	10.3	08	10.8	24	09	21	09	15	16
16	58	47	53	-10	49	51	12	0	RA BR	0		0.0	0.55	30.14	30.23	15.6	06	15.9	32	06	26	06	16	17
17	54	45	50	-13	45	47	15	0	RA	0		0.0	T	30.27	30.35	9.6	06	10.2	24	05	21	05	17	18
18	57	43	50	-13	41	46	15	0	RA	0		0.0	0.03	30.25	30.33	5.1	04	5.8	16	36	14	01	18	19
19	74	39*	57	-6	43	50	8	0		0		0.0	0.00	30.24	30.33	2.0	07	7.1	18	15	16	15	19	20
20	74	43	59	-5	45	52	6	0		0		0.0	0.00	30.16	30.25	3.9	16	6.3	18	16	16	16	20	21
21	60	55	58	-6	53	55	7	0	RA BR	0		0.0	0.41	30.06	30.15	2.7	35	4.2	17	36	15	36	21	22
22	59	53	56	-9	52	54	9	0	RA	0		0.0	T	30.12	30.20	10.3	04	10.9	21	06	17	04	22	23
23	56	52	54	-11	52	53	11	0	RA BR	0		0.0	0.20	30.06	30.15	9.6	06	9.8	16	05	14	04	23	24
24	64	53	59	-6	55	56	6	0	RA BR	0		0.0	0.02	29.90	29.98	9.0	06	9.6	18	06	16	06	24	25
25	60	55	58	-7	56	56	7	0	RA BR	0		0.0	0.43	29.94	30.02	6.5	13	7.1	15	16	13	16	25	26
26	60	49	55	-11	53	54	10	0	RA BR	0		0.0	1.47	29.86	29.94	8.0	01	9.2	31	05	25	04	26	27
27	65	45	55	-11	53	55	10	0	RA BR	0		0.0	T	29.93	30.02	2.2	15	4.1	14	17	12	16	27	28
28	66	54	60	-7	55	56	5	0	RA BR HZ	0		0.0	0.01	29.74	29.83	5.5	22	5.8	16	25	14	26	28	29
29	72	51	62	-5	54	57	3	0	BR	0		0.0	0.00	29.58	29.66	4.4	20	5.8	21	16	17	16	29	30
30	79*	54	67	0	55	61	0	2	BR HZ	0		0.0	0.00	29.53	29.62	4.9	28	6.0	20	24	16	29	30	31
31	72	58	65	-2	59	61	0	0	RA BR HZ VCTS	0		0.0	0.20	29.42	29.50	5.6	15	6.3	26	19	20	16	31	

65.9	50.3	58.1	■ ■	50.9	54.3	6.9	0.3	< MONTHLY AVERAGES	TOTALS->	0.0	3.92	29.89	29.98	1.7	09	8.1	<- MONTHLY AVERAGES
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-6.6	-2.1	-4.4	■ ■	->-----DEPARTURE FROM NORMAL-----<						- .23	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3					
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 1.87 DATE: 25-26				SEA LEVEL PRESSURE DATE TIME			
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 0.0 DATE:			
HEATING: 215 83 5364 491				GREATEST SNOW DEPTH: 0 DATE:				MAXIMUM MINIMUM : 30.38 17 0851			
COOLING: 10 -52 18 -55				NUMBER OF DAYS WITH →				PRECIPITATION ≥ 0.01 INCH : 17			
				MAXIMUM TEMP ≥ 90: 0				PRECIPITATION ≥ 0.10 INCH : 8			
				MAXIMUM TEMP ≤ 32 : 0				SNOWFALL ≥ 1.0 INCH : 0			
				THUNDERSTORMS : 0				MINIMUM TEMP ≤ 0 : 0			
				HEAVY FOG : 3							

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# WILMINGTON, DE

MAY 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	T	0.01	T	T									01												01		0.01	
02													02												02		0.00	
03													03												03		0.00	
04													04												04		0.00	
05												T	05	T	0.01	0.01	T	T	T	0.01				0.01	05		0.04	
06	T	0.01		0.01		0.01							06												06		0.03	
07													07							T	T	0.10	0.04	0.03	0.05	07	0.22	
08	T	T			0.01							T	08	0.03	0.02										08		0.06	
09												T	09	0.09	0.01		T	0.01	T						09		0.16	
10													10												10		0.00	
11						T	0.06						11												11		0.06	
12													12			0.01	T	0.01	T						12		0.02	
13													13		T	T									13		T	
14													14												14		0.00	
15													15												15		0.00	
16						T			0.02	0.13	0.01	0.12	16	0.02	0.01	0.05	0.01	0.07	0.06	0.02	0.01	T	T	0.01	0.01	16	0.55	
17	T	T	T										17												17		T	
18													18	T	T	T									18		0.03	
19													19												19		0.00	
20													20												20		0.00	
21			T	0.08	T		0.01	0.02	0.02	0.02	0.05	0.03	21	T	0.01	0.02	0.01	0.02	0.08	0.03	T	0.01			T	21	0.41	
22													22												22		T	
23				T	T							T	23	0.06	0.01	T	T	0.02	0.02	T	0.02	0.04	0.01		T	23	0.20	
24	0.01	T	T	T	T								24				T		0.01	T				T	24		0.02	
25				T	0.02		0.01					0.01	25	0.01	0.03	0.03	T	T	0.01	0.01	0.02	0.09	0.10	0.10	T	25	0.43	
26		0.02	0.14	0.18	0.27	0.30	0.05	0.24	0.26	0.01	T		26												26		1.47	
27													27				T	T	T	T					27		T	
28													28	T	0.01										28		0.01	
29													29												29		0.00	
30													30												30		0.00	
31										T	T	T	31			T	0.08	T	T	0.01	0.03	0.05	0.03	T	31		0.20	

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.10	.12	.15	.18	.24	.35	.40	.44	.52	.59	.68	.84
Ending Date	26	26	26	26	26	26	26	26	26	26	26	26
Ending Time (Hour/Min)	0245	0247	0758	0800	0800	0817	0831	0839	0542	0542	0542	0539

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 2003

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							4.00	10.00	
02							7.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							3.00	10.00	
06							2.00	7.00	
07							.25	10.00	
08							1.75	9.00	
09							.75	10.00	
10							<.25	3.00	
11							.50	10.00	
12							8.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							7.00	10.00	
16							3.00	10.00	
17							9.00	10.00	
18							8.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							4.00	10.00	
22							10.00	10.00	
23							1.50	10.00	
24							2.50	10.00	
25							1.50	10.00	
26							1.50	10.00	
27							.75	10.00	
28							2.00	10.00	
29							4.00	10.00	
30							1.75	10.00	
31							4.00	10.00	
<b>MONTHLY AVGS</b>							4.83	9.61	
<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                      14                      12									





# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

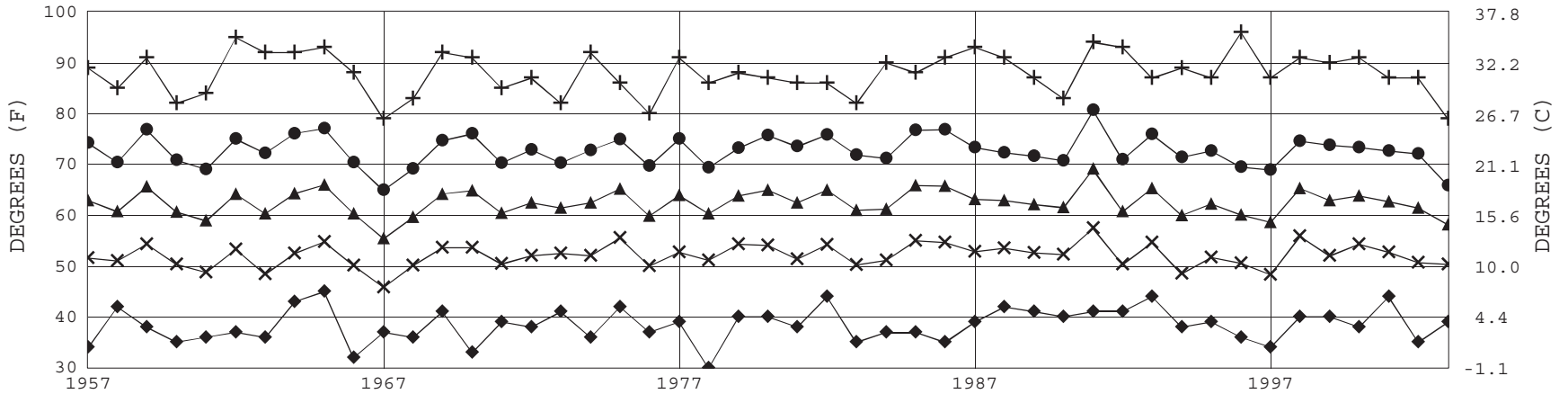
MAY 2003

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: 0441								MAY 25								SUNSET: 1918								SUNRISE: 0437								MAY 31								SUNSET: 1922							
01	OVC	006				5.00	BR	55	54	54	96	6	11	29.91	29.99	01	CLR	NC					9.00				61	57	59	87	0	00	29.56	29.64													
04	OVC	004				5.00	-RA BR	55	54	54	96	6	11	29.90	29.99	04	CLR	NC					7.00				60	57	58	90	0	00	29.54	29.62													
07	OVC	002				2.00	BR	56	55	55	97	7	14	29.94	30.03	07	OVC	100					7.00				63	59	61	87	7	14	29.52	29.60													
10	OVC	002				1.50	BR	56	56	56	100	8	12	29.95	30.04	10	BKN	080					5.00	-RA			67	61	63	81	6	16	29.48	29.57													
13	OVC	002				2.50	-RA BR	57	57	57	100	8	14	29.95	30.03	13	SCT	NC					10.00				70	58	63	66	12	18	29.42	29.51													
16	OVC	008				10.00		59	57	58	93	5	15	29.94	30.02	16	OVC	050					4.00	-RA BR			66	62	64	87	9	13	29.34	29.43													
19	OVC	004				2.00	-RA BR	58	57	57	97	9	15	29.95	30.03	19	OVC	039					5.00	VCTS BR			65	62	63	90	8	11	29.27	29.36													
22	OVC	004				4.00	-RA BR	57	56	56	96	7	10	29.94	30.02	22	OVC	095					10.00	-RA			60	58	59	93	7	14	29.28	29.36													
SUNRISE: 0440								MAY 26								SUNSET: 1919								3-HOURLY OBSERVATION NOTES																							
01	OVC	004				9.00		56	55	55	97	7	08	29.88	29.97	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	004				5.00	RA BR	54	54	54	100	9	03	29.84	29.93	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
07	OVC	007				6.00	RA BR	54	53	53	97	15	03	29.82	29.91	NC = No ceiling detected.																															
10	OVC	009				10.00	-RA	55	53	54	93	21	03	29.79	29.88	& = Original observation contained additional weather elements.																															
13	OVC	013				10.00		58	53	55	84	10	35	29.82	29.91	See page 3 for additional notes.																															
16	OVC	018				10.00		60	54	57	80	9	34	29.85	29.93																																
19	CLR	NC				10.00		58	53	55	84	7	35	29.87	29.96																																
22	CLR	NC				5.00	BR	53	51	52	93	3	33	29.93	30.01																																
SUNRISE: 0439								MAY 27								SUNSET: 1919								SUMMARY BY HOUR																							
01	CLR	NC				9.00		51	50	51	96	3	02	29.93	30.02	AVERAGES																															
04	CLR	NC				1.25	BR	48	48	48	100	5	32	29.94	30.03	RESULTANT WIND (MPH)																															
07	FEW	NC				7.00		53	52	52	96	5	27	29.97	30.06	HOUR (LST)																															
10	FEW	NC				10.00		61	53	57	75	0	00	29.97	30.06	CEILOMETER																															
13	FEW	NC				10.00		64	54	58	70	5	VR	29.93	30.02	EFF CLD AMT																															
16	FEW	NC				10.00		63	53	57	70	0	00	29.90	29.99	DRY BULB																															
19	SCT	NC				10.00		58	56	57	93	12	15	29.91	29.99	DEW POINT																															
22	BKN	009				10.00		57	55	56	93	10	15	29.89	29.98	WET BULB																															
SUNRISE: 0439								MAY 28								SUNSET: 1920								RELATIVE HUMIDITY																							
01	OVC	022				7.00		56	54	55	93	3	22	29.87	29.95	PRESSURE (INCHES, HG)																															
04	OVC	070				4.00	BR	54	53	53	97	3	18	29.82	29.90	STATION																															
07	BKN	019				2.50	BR	56	54	55	93	5	19	29.80	29.89	SEA LEVEL																															
10	OVC	022				7.00		61	55	58	81	7	22	29.77	29.85	VISIBILITY (MILES)																															
13	BKN	016				7.00	-RA	60	55	57	84	10	23	29.72	29.81	WIND SPEED (MPH)																															
16	BKN	022				10.00		63	54	58	73	7	21	29.68	29.76	SPEED																															
19	CLR	NC				10.00		61	55	58	81	8	22	29.67	29.76	DIRECTION																															
22	CLR	NC				10.00		57	54	55	90	5	22	29.67	29.75																																
SUNRISE: 0438								MAY 29								SUNSET: 1921																															
01	CLR	NC				7.00		54	53	53	97	7	24	29.63	29.72																																
04	CLR	NC				6.00	BR	52	51	52	97	3	24	29.62	29.70																																
07	CLR	NC				6.00	BR	56	53	54	90	0	00	29.61	29.70																																
10	SCT	NC				10.00		66	54	59	65	8	16	29.60	29.69																																
13	BKN	080				10.00		67	51	58	57	3	19	29.56	29.64																																
16	CLR	NC				10.00		66	53	59	63	10	19	29.53	29.62																																
19	CLR	NC				10.00		63	55	58	76	7	22	29.54	29.62																																
22	CLR	NC				7.00		59	56	57	90	5	25	29.55	29.64																																
SUNRISE: 0438								MAY 30								SUNSET: 1922																															
01	FEW	NC				3.00	BR	56	54	55	93	8	28	29.51	29.60																																
04	FEW	NC				3.00	BR	55	54	54	96	5	24	29.50	29.58																																
07	FEW	NC				4.00	HZ	62	57	59	84	6	32	29.52	29.61																																
10	CLR	NC				10.00		73	56	63	55	0	00	29.54	29.63																																
13	FEW	NC				10.00		76	57	64	52	9	27	29.52	29.61																																
16	CLR	NC				10.00		78	54	64	43	13	29	29.52	29.60																																
19	CLR	NC				10.00		73	54	62	51	7	28	29.54	29.62																																
22	BKN	085				10.00		66	58	61	75	3	20	29.57	29.66																																

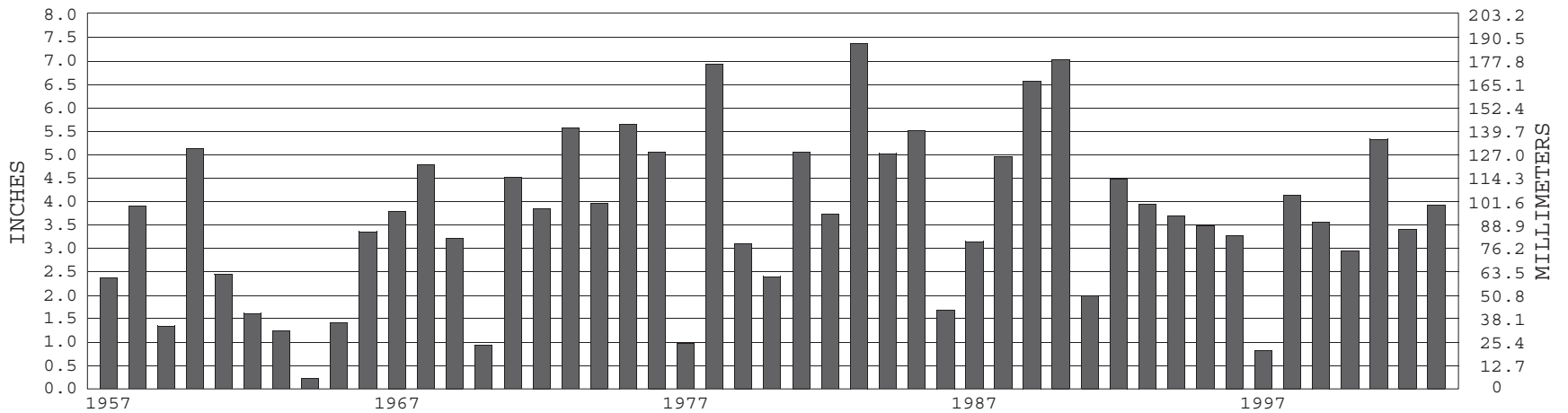
### WILMINGTON, DE MAY TEMPERATURES



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

Long-Term (1957-2003) Mean: 62.4      1961-1990 Normal: 62.5

### WILMINGTON, DE MAY PRECIPITATION



Long-Term (1957-2003) Mean Monthly Total: 3.68

1961-1990 Normal: 4.15



MAY 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.*

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