

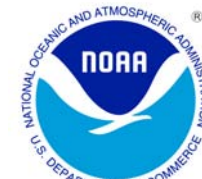


MAY 2007

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE
 NEW CASTLE COUNTY AIRPORT (KILG)
 Lat:39° 40'N Long: 75° 36'W Elev (Ground) 75 Feet
 Time Zone : EASTERN WBAN: 13781 ISSN#: 0198-117X



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST 11	1300 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
01	69	50	60	2	37	49	5	0		0		0.0	0.00	29.89	29.96	3.2	13	6.1	21	16	17	16	01	
02	75	52	64	6	47	55	1	0	RA	0		0.0	0.00	29.80	29.92	4.0	32	8.2	22	30	18	32	02	
03	68	48	58	0	36		7	0		0		0.0	0.00	30.09		3.1	09	8.0	21	16	17	16	03	
04	69	43	56	-2	35	47	9	0		0		0.0	0.00	30.12	30.21	3.7	10	8.5	20	16	17	15	04	
05	71	45	58	-1	42	51	7	0		0		0.0	0.00	30.04	30.12	4.1	23	6.7	23	24	18	23	05	
06	62	46	54	-5	29	43	11	0		0		0.0	0.00	30.22	30.34	12.4	03	14.6	32	03	28	01	06	
07	67	40	54*	-5	35	45	11	0		0		0.0	0.00	30.32	30.41	6.5	05	9.4	25	07	20	06	07	
08	71	39*	55	-5	46	52	10	0	FG+ FG BR	0		0.0	0.00	30.16	30.24	5.2	15	7.4	21	15	18	15	08	
09	78	57	68	8	60	62	0	3	FG+ FG BR	0		0.0	0.00	30.03	30.10	4.5	16	5.1	21	17	16	16	09	
10	78	61	70	9	62	64	0	5	FG+ BR HZ	0		0.0	0.00	29.90	29.98	8.3	16	8.4	23	16	20	17	10	
11	83	62	73	12	59	64	0	8	RA BR HZ	0		0.0	T	29.80	29.88	2.7	26	6.6	21	29	17	24	11	
12	81	57	69	8	56	61	0	4	RA BR	0		0.0	0.26	29.87	29.96	3.1	07	8.9	25	16	22	16	12	
13	72	50	61	0	36	49	4	0	RA	0		0.0	T	30.02	30.14	9.9	35	10.7	24	01	21	01	13	
14	68	45	57	-5	36	48	8	0		0		0.0	0.00	30.19	30.27	5.9	15	10.0	21	14	18	16	14	
15	82	56	69	6	52	60	0	4		0		0.0	0.00	29.93	29.99	12.4	21	12.7	29	21	23	21	15	
16	84	60	72	9	58	63	0	7	RA BR	0		0.0	0.75	29.70	29.79	10.4	22	11.5	32	22	25	20	16	
17	71	53	62	-1	50	56	3	0	RA	0		0.0	0.01	29.91	30.03	1.7	36	6.5	20	10	16	10	17	
18	64	50	57	-6	45	50	8	0		0		0.0	0.00	30.02	30.03	9.2	03	10.9	24	07	18	07	18	
19	72	45	59	-4	41	49	6	0	RA	0		0.0	T	29.93	30.00	6.9	31	9.7	43*	31	29	31	19	
20	77	53	65	1	50	57	0	0	RA	0		0.0	T	29.80	29.88	9.8	28	10.5	29	27	23	28	20	
21	73	52	63	-1	44		2	0		0		0.0	0.00	29.98		7.2	33	8.4	25	30	18	34	21	
22	76	47	62	-3	45	54	3	0		0		0.0	0.00	30.20	30.31	2.8	14	5.6	15	16	14	16	22	
23	74	54	64	-1	51	57	1	0		0		0.0	0.00	30.34	30.43	9.4	16	10.0	22	14	18	16	23	
24	80	54	67	2	51	58	0	2		0		0.0	0.00	30.34	30.41	6.2	21	6.9	18	25	15	25	24	
25	85	56	71	6	56	63	0	6		0		0.0	0.00	30.16	30.23	4.5	23	5.9	20	22	14	23	25	
26	90	64	77	11	61	67	0	12	TS HZ	0		0.0	0.00	30.04	30.12	4.1	28	6.3	23	28	20	28	26	
27	88	65	77	11	64	68	0	12	TS TSRA RA BR HZ VCTS	0		0.0	T	30.03	30.11	3.2	19	5.4	36	24	29*	23	27	
28	84	64	74	7	62	67	0	9	BR HZ	0		0.0	0.00	30.03	30.12	5.2	27	6.0	22	27	16	27	28	
29	82	60	71	4	50	60	0	6		0		0.0	0.00	30.12	30.22	3.7	35	7.8	21	03	16	02	29	
30	85	55	70	3	57	63	0	5	BR	0		0.0	0.00	30.10	30.18	5.0	16	6.2	18	16	16	16	30	
31	90*	65	78*	11	62	67	0	13		0		0.0	0.00	30.03	30.11	6.2	18	7.4	20	17	17	16	31	

MAY 2007
WILMINGTON, DE

76.4	53.2	64.8	☼	48.9	56.9	3.1	3.1	< MONTHLY AVERAGES TOTALS >				0.0	1.02	30.04	30.12	0.9	21	8.3	< MONTHLY AVERAGES				
3.9	0.8	2.3		-----DEPARTURE FROM NORMAL -----								-3.13	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 0.75 DATE : 16				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY								GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.50				24 0551							
TOTAL DEPARTURE								GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.67				16 1451							
SEASON TO DATE								NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 2				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH: 3			
HEATING : 96 -36 4581 -292								MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 2							
COOLING : 96 34 105 32								THUNDERSTORMS : 2				HEAVY FOG : 3				SNOWFALL >= 1.0 INCH : 0							

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)
MAY 2007

WBAN # 13781

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	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													01												01	0.00	0.00	
02				T	T								02												02	T	T	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11				T									11												11	T	T	
12													12					T	0.17	0.02	T	0.02	0.05	12	0.26	0.26		
13	T												13											13	T	T		
14													14											14	0.00	0.00		
15													15											15	0.00	0.00		
16													16			T	0.56	0.12	0.07					16	0.75	0.75		
17													17									0.01	T	17	0.01	0.01		
18													18											18	0.00	0.00		
19													19		T	T		T	T	T	T			19	T	T		
20									T	T			20											20	T	T		
21													21											21	0.00	0.00		
22													22											22	0.00	0.00		
23													23											23	0.00	0.00		
24													24											24	0.00	0.00		
25													25											25	0.00	0.00		
26													26											26	0.00	0.00		
27													27							T	T	T		27	T	T		
28													28											28	0.00	0.00		
29													29											29	0.00	0.00		
30													30											30	0.00	0.00		
31													31											31	0.00	0.00		

* Indicates sum of Hourly and Daily disagree.

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 (Hr/Min)												

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

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		
DESCRIPTOR	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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy '' = Moderate '-' = Light

WILMINGTON, DE MAY 2007

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:

Station Augmentation-BEAR 2 SW COOP
Lat/Lon:39.59167/-75.7325 Elevation:80
Distance:4 MI Dir:SE
Augmented Elements:Precip, Snow
Equipment:SRG, Snowfall

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							10.00	10.00	
02							9.00	10.00	
03							7.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							0.25	10.00	
09							0.00	10.00	
10							0.25	10.00	
11							2.50	10.00	
12							4.00	10.00	
13							7.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							2.00	10.00	
17							7.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							9.00	10.00	
21							10.00	10.00	
22							9.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							5.00	10.00	
27							4.00	9.00	
28							3.00	7.00	
29							10.00	10.00	
30							4.00	10.00	
31							9.00	10.00	
MONTHLY AVGS							7.16	9.87	
SUNSHINE (Minutes)									
Total : 0					Possible : 26709				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
3			6				21		

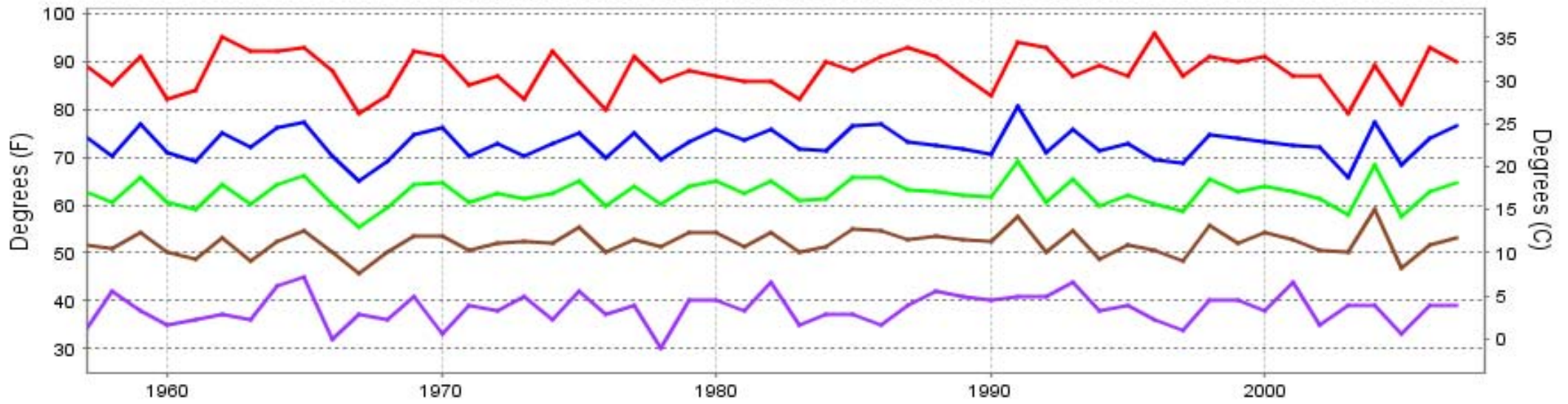
OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
MAY 2007
KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)																																																																																																						
			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: 0504						MAY 01						SUNSET: 1856						SUNRISE: 0457						MAY 07						SUNSET: 1901																																																																																																
01	CLR	NC			10.00	58	31	46	36	7	35	29.91	29.98	01	CLR	NC			10.00	44	37	41	77	7	04	30.35	30.44	04	CLR	NC			10.00	42	36	39	79	6	34	30.36	30.45	07	FEW	110			10.00	48	37	43	66	9	36	30.39	30.47	10	OVC	080			10.00	57	30	45	36	15	05	30.38	30.47	13	CLR	NC			10.00	64	34	50	33	13	02	30.32	30.41	16	CLR	NC			10.00	67	29	50	24	13	05	30.27	30.35	19	CLR	NC			10.00	59	41	50	51	7	15	30.25	30.33	22	FEW	110			10.00	52	32	43	47	6	12	30.28	30.36	
SUNRISE: 0502						MAY 02						SUNSET: 1857						SUNRISE: 0455						MAY 08						SUNSET: 1902																																																																																																
01	CLR	NC			10.00	58	37	48	46	9	11	29.73	29.82	01	CLR	NC			10.00	49	33	42	54	5	12	30.24	30.33	04	BKN	110			10.00	42	37	40	83	3	34	30.22	30.30	07	SCT	060			10.00	47	38	43	71	3	32	30.22	30.30	10	CLR	NC			10.00	62	41	52	46	0	00	30.22	30.29	13	SCT	049			10.00	69	51	59	53	8	15	30.14	30.23	16	CLR	NC			10.00	70	53	60	55	15	16	30.09	30.18	19	CLR	NC			10.00	63	52	57	68	13	15	30.07	30.16	22	CLR	NC			10.00	59	54	56	84	9	16	30.09	30.18	
SUNRISE: 0501						MAY 03						SUNSET: 1858						SUNRISE: 0454						MAY 09						SUNSET: 1903																																																																																																
01	CLR	NC			7.00	51	47	49	86	6	32	30.06	30.14	01	VV	001			0.25	FG	58	57	57	97	3	19	30.06	30.15	04	BKN	090			10.00	57	57	57	100	0	00	30.06	30.14	07	CLR	NC			10.00	57	57	57	100	3	08	30.09	30.17	10	CLR	NC			10.00	67	60	63	78	0	00	30.07	30.15	13	CLR	NC			10.00	74	62	67	66	3	VR	30.02	30.11	16	CLR	NC			10.00	77	64	69	64	6	15	29.96	30.05	19	CLR	NC			10.00	68	63	65	84	11	16	29.96	30.05	22	CLR	NC			10.00	54	46	50	75	3	20	30.12	30.21
SUNRISE: 0500						MAY 04						SUNSET: 1859						SUNRISE: 0453						MAY 10						SUNSET: 1904																																																																																																
01	CLR	NC			10.00	48	44	46	86	6	36	30.14	30.21	01	VV	001			0.25	FG	61	60	60	97	3	15	29.94	30.03	04	CLR	NC			10.00	62	61	61	97	5	15	29.93	30.02	07	CLR	NC			10.00	64	63	63	97	3	18	29.96	30.04	10	CLR	NC			10.00	69	64	66	84	7	14	29.94	30.03	13	CLR	NC			10.00	77	64	69	64	10	13	29.90	29.98	16	CLR	NC			10.00	73	63	67	71	20	16	29.85	29.94	19	CLR	NC			10.00	69	64	66	84	9	16	29.83	29.92	22	CLR	NC			10.00	55	41	48	59	7	17	30.10	30.18
SUNRISE: 0459						MAY 05						SUNSET: 1900						SUNRISE: 0452						MAY 11						SUNSET: 1905																																																																																																
01	CLR	NC			10.00	51	34	43	52	5	17	30.10	30.19	01	CLR	NC			10.00	63	60	61	90	8	14	29.83	29.90	04	CLR	NC			10.00	63	61	62	93	9	14	29.80	29.89	07	CLR	NC			10.00	65	62	63	90	7	16	29.83	29.91	10	BKN	080			10.00	72	64	67	76	0	00	29.82	29.90	13	BKN	060			10.00	80	59	67	49	11	28	29.78	29.87	16	CLR	NC			10.00	80	59	67	49	10	31	29.77	29.85	19	CLR	NC			10.00	75	55	63	50	8	29	29.78	29.85	22	OVC	085			10.00	57	49	53	75	5	26	30.02	30.11	
SUNRISE: 0458						MAY 06						SUNSET: 1900						SUNRISE: 0451						MAY 12						SUNSET: 1906																																																																																																
01	FEW	110			10.00	57	23	43	27	13	35	30.04	30.13	01	CLR	NC			10.00	63	55	58	75	5	31	29.83	29.91	04	CLR	NC			10.00	66	54	59	65	11	36	29.85	29.93	07	CLR	NC			10.00	68	55	60	63	10	02	29.91	29.98	10	SCT	055			10.00	72	56	63	57	8	03	29.91	30.00	13	FEW	085			10.00	77	57	65	50	6	VR	29.88	29.96	16	CLR	NC			10.00	74	59	65	60	17	16	29.83	29.92	19	CLR	NC			10.00	58	29	45	33	7	09	30.31	30.40	22	CLR	NC			10.00	48	38	43	68	7	06	30.38	30.47	

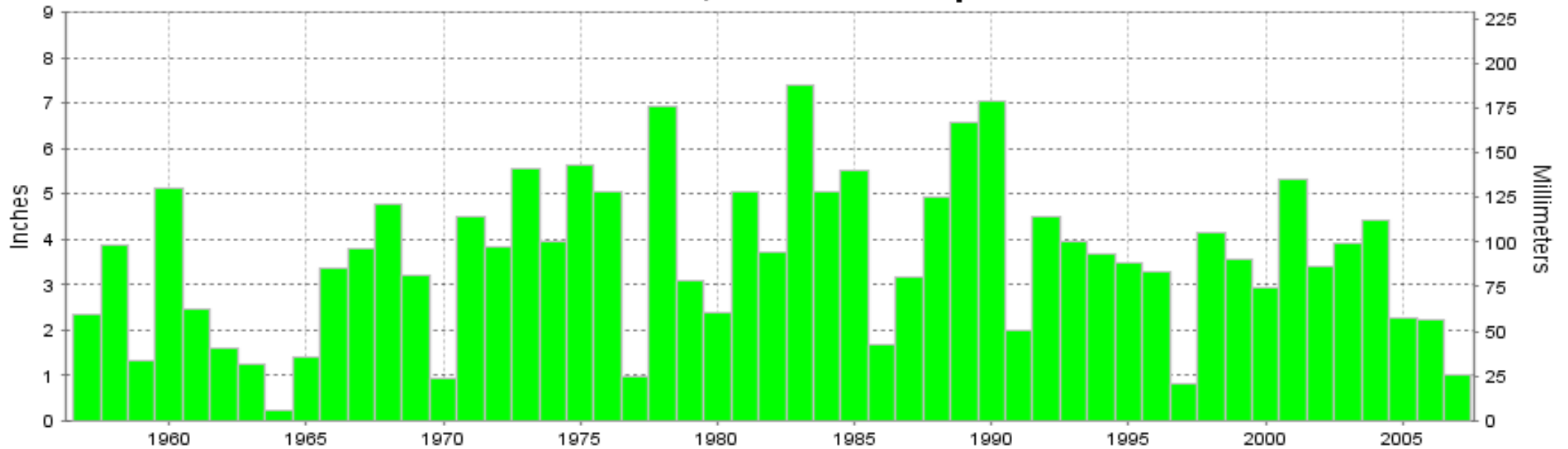
WILMINGTON, DE MAY Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1957-2007) Mean: 62.5
1971-2000 Normal: 62.5

WILMINGTON, DE MAY Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.58

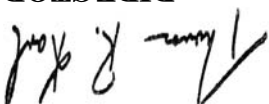
1971-2000 Normal: 4.15



MAY 2007
WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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DIRECTOR

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Local Climatological Data is available at www.ncdc.noaa.gov

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