



# OCTOBER 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	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 20	DIR 21	SPEED 22	DIR 23						
01	75	53	64	2	54	58	1	0		0		0.0	0.00	30.35	30.43	6.4	13	8.1	23	14	20	16	01	
02	78	51	65	4	57	61	0	0		0		0.0	0.00	30.23	30.30	3.4	12	6.9	20	15	16	16	02	
03	81	65	73	12	66	68	0	8	FG BR HZ	0		0.0	0.00	30.06	30.14	3.3	14	5.9	14	16	13	17	03	
04	79	66	73	12	67	68	0	8	FG+ FG BR HZ	0		0.0	0.00	30.09	30.19	3.7	16	4.4	14	16	13	16	04	
05	74	62	68	8	67	67	0	3	FG+ FG BR HZ	0		0.0	0.00	30.20	30.29	1.6	18	2.3	9	15	8	15	05	
06	84	63	74	14	65	67	0	9	FG+ FG BR	0		0.0	0.00	30.11	30.17	3.7	23	5.0	17	25	14	26	06	
07	90*	65	78	19	64	69	0	13	BR	0		0.0	0.00	29.96	30.04	2.8	32	7.5	24	01	18	01	07	
08	88	67	78*	19	66	70	0	13	BR HZ	0		0.0	0.00	29.90	29.96	6.5	23	8.1	22	25	15	23	08	
09	87	66	77	19	66	68	0	12	TSRA RA BR HZ VCTS	0		0.0	1.53	29.73	29.81	1.8	11	7.3	21	01	18	01	09	
10	80	64	72	14	58	63	0	7	BR	0		0.0	0.00	29.64	29.72	1.4	16	6.3	15	14	12	14	10	
11	67	51	59	1	51	54	6	0	RA BR	0		0.0	0.60	29.53	29.61	11.6	30	13.4	30	30	25	30	11	
12	66	46	56	-1	42	49	9	0	RA BR	0		0.0	0.17	29.62	29.75	13.2	30	14.3	37	29	30	28	12	
13	65	41	53	-4	39	46	12	0		0		0.0	0.00	29.90	29.99	5.3	28	5.7	24	27	17	28	13	
14	69	43	56	0	41	49	9	0		0		0.0	0.00	30.01	30.11	6.3	30	7.0	22	31	18	30	14	
15	71	45	58	2	46	52	7	0		0		0.0	0.00	30.09	30.18	1.8	26	4.3	17	31	13	28	15	
16	72	54	63	7	52	57	2	0	BR	0		0.0	0.00	30.06	30.16	3.3	10	5.6			12	06	16	
17	79	58	69	14	59	62	0	4	BR HZ	0		0.0	0.00	30.01	30.10	3.7	16	4.6	16	16	14	17	17	
18	79	61	70	15	63	65	0	5	FG+ FG BR HZ	0		0.0	0.00	29.88	29.94	5.0	16	5.6	20	16	16	16	18	
19	79	60	70	16	68	69	0	5	TS TSRA RA BR	0		0.0	0.27	29.62	29.69	8.1	16	10.1	46*	30	37*	29	19	
20	73	54	64	10	49	55	1	0	TS	0		0.0	0.00	29.70	29.83	9.4	26	9.9	31	27	24	27	20	
21	76	47	62	8	47	54	3	0		0		0.0	0.00	30.09	30.21	3.8	21	5.7	15	17	13	17	21	
22	79	49	64	11	54	59	1	0	BR	0		0.0	0.00	30.11	30.19	6.5	19	7.3	21	23	17	20	22	
23	81	66	74	21	62	66	0	9	RA BR	0		0.0	0.03	29.81	29.87	11.6	19	12.7	32	19	25	20	23	
24	70	57	64	11	60	62	1	0	RA BR	0		0.0	0.56	29.82	29.92	4.3	36	6.8	23	01	20	36	24	
25	57	52	55	3	50	52	10	0	RA BR	0		0.0	0.22	30.14	30.26	15.2	04	15.6	32	04	24	05	25	
26	63	53	58	6	55	56	7	0	RA BR	0		0.0	1.69	30.24	30.30	11.8	05	11.7	24	05	18	04	26	
27	71	53	62	10	57	60	3	0	RA BR	0		0.0	0.85	29.98	30.06	5.6	22	11.0	24	16	21	16	27	
28	58	38	48	-4	35	44	17	0		0		0.0	0.00	30.25	30.37	10.2	31	11.0	30	30	24	31	28	
29	56	33*	45*	-6	32	40	20	0		0		0.0	0.00	30.41	30.49	4.1	30	5.0	14	26	12	28	29	
30	64	36	50	-1	36	44	15	0		0		0.0	0.00	30.33	30.42	2.9	25	3.8	13	21	10	21	30	
31	67	38	53	2	45	49	12	0	BR	0		0.0	0.00	30.22	30.29	6.2	17	7.0	21	17	17	16	31	
73.5		53.5	63.5	Σ	54.0	58.2	4.4	3.1	< MONTHLY AVERAGES   TOTALS >			0.0	5.92	30.00	30.09	1.3	24	7.7	< MONTHLY AVERAGES					
7.6		7.9	7.7		-----DEPARTURE FROM NORMAL -----						2.84		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 2.42 DATE : 26-27				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY				SEASON TO DATE					GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.57				29		0928					
TOTAL DEPARTURE				TOTAL DEPARTURE					GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.55				19		1951					
HEATING :		136		-161		159		-190		NUMBER OF ->		MAXIMUM TEMP >= 90 : 1		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 9								
COOLING :		96		180		1377		253		THUNDERSTORMS : 3		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 8								
												HEAVY FOG : 4		SNOWFALL >= 1.0 INCH : 0										

OCTOBER 2007  
WILMINGTON, DE

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)  
OCTOBER 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													02												02	0.00	0.00	
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		T	0.45	T			0.02	0.64	0.41	T	09	1.53	1.53		
10													10												10	0.00	0.00	
11	0.15	0.34	0.06										11	0.03									T	11	0.60	0.60		
12	0.03	0.13	0.01										12											12	0.17	0.17		
13													13											13	0.00	0.00		
14													14											14	0.00	0.00		
15													15											15	0.00	0.00		
16													16											16	0.00	0.00		
17													17											17	0.00	0.00		
18													18											18	0.00	0.00		
19													19	0.01	T									19	0.27	0.27		
20													20							T	T	0.19	0.06	0.01	20	0.00	0.00	
21													21											21	0.00	0.00		
22													22											22	0.00	0.00		
23													23											23	0.03	0.03		
24	0.03	T		T	0.01	0.02	0.11	0.07	0.03	T			24	T		0.01	T	0.03	0.03	0.01	0.02	0.11	0.08	T	T	24	0.56	0.56
25	0.01	0.14	0.01		T	T	T	T	T	T	0.01	0.04	25	T	T	T	0.01	T				T	T	25	0.22	0.22		
26		T	0.02	0.03	0.01	0.02	0.03	T	T	T	0.01	0.08	26	0.26	0.07	0.09	0.23	0.17	0.10	0.07	0.03	0.12	0.19	0.10	0.06	26	1.69	1.69
27	0.04	0.05	0.03	0.02	0.13	0.12	0.04	0.10	0.05	0.07	0.20		27											27	0.85	0.85		
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)	0.24	0.42	0.52	0.61	0.63	0.65	0.75	1.03	1.06	1.06	1.07	1.07
Ending Date	09	09	09	09	09	09	09	09	09	09	09	09
Ending Time (Hr/Min)	2024	2029	2029	2031	2031	2031	2119	2128	2133	2133	2157	2157

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 OCTOBER 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							7.00	10.00	
03							0.50	10.00	
04							0.25	10.00	
05							0.75	8.00	
06							0.00	10.00	
07							4.00	10.00	
08							3.00	9.00	
09							4.00	10.00	
10							2.00	10.00	
11							2.00	10.00	
12							6.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							7.00	10.00	
16							5.00	10.00	
17							2.50	10.00	
18							0.00	10.00	
19							3.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							5.00	10.00	
23							9.00	10.00	
24							2.50	10.00	
25							2.00	10.00	
26							2.00	10.00	
27							2.50	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							8.00	10.00	
31							5.00	10.00	
MONTHLY AVGS							4.94	9.90	
<b>SUNSHINE (Minutes)</b>									
Total : 0					Possible : 20712				
Percent Possible : 0									
<b>NUMBER OF DAYS WITH : SKY CONDITION</b>									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25			<= 3.0				>= 7.0		
3			14				11		

# OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE  
OCTOBER 2007  
KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)													
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL								
																												WEATHER	WEATHER						
<b>SUNRISE: 0558</b>						<b>OCT 01</b>						<b>SUNSET: 1745</b>						<b>SUNRISE: 0604</b>						<b>OCT 07</b>						<b>SUNSET: 1736</b>					
01	CLR	NC			10.00		61	55	58	81	5	10	30.37	30.45	01	CLR	NC			6.00	BR		69	66	67	90	3	23	29.98	30.07					
04	CLR	NC			10.00		55	52	53	90	3	36	30.37	30.45	04	CLR	NC			4.00	BR		67	65	66	93	3	23	29.96	30.05					
07	CLR	NC			10.00		60	55	57	84	6	09	30.39	30.48	07	CLR	NC			7.00			68	65	66	90	6	27	29.96	30.05					
10	FEW	031			10.00		71	55	62	57	10	16	30.38	30.47	10	CLR	NC			10.00			82	66	71	58	6	32	29.96	30.04					
13	CLR	NC			10.00		73	55	62	53	11	16	30.35	30.43	13	FEW	045			10.00			87	64	72	46	10	34	29.93	30.01					
16	CLR	NC			10.00		71	53	61	53	16	16	30.30	30.38	16	FEW	065			10.00			88	59	70	38	14	36	29.93	30.01					
19	CLR	NC			10.00		65	53	58	65	8	12	30.30	30.39	19	CLR	NC			10.00			76	66	70	71	9	15	29.96	30.04					
22	CLR	NC			10.00		60	53	56	78	8	08	30.31	30.40	22	CLR	NC			9.00			71	65	67	81	6	14	29.98	30.06					
<b>SUNRISE: 0559</b>						<b>OCT 02</b>						<b>SUNRISE: 0605</b>						<b>OCT 08</b>						<b>SUNSET: 1734</b>											
01	CLR	NC			10.00		57	53	55	87	5	04	30.28	30.37	01	OVC	008			5.00	HZ		70	65	67	84	7	10	29.99	30.08					
04	CLR	NC			10.00		52	50	51	93	7	31	30.27	30.36	04	OVC	010			6.00	BR		70	66	67	87	5	16	29.98	30.06					
07	CLR	NC			10.00		56	53	54	90	0	00	30.28	30.37	07	BKN	017			3.00	BR		69	66	67	90	6	25	29.98	30.06					
10	SCT	070			10.00		71	59	64	66	9	09	30.27	30.36	10	CLR	NC			8.00			76	65	69	69	11	21	29.96	30.04					
13	CLR	NC			10.00		77	59	66	54	11	16	30.22	30.29	13	CLR	NC			8.00			85	66	72	53	9	27	29.86	29.94					
16	BKN	050			10.00		75	61	66	62	14	16	30.16	30.25	16	CLR	NC			8.00			86	67	73	53	14	22	29.78	29.87					
19	CLR	NC			10.00		70	59	63	68	7	11	30.17	30.26	19	CLR	NC			9.00			79	66	71	65	6	23	29.78	29.86					
22	CLR	NC			10.00		66	59	62	78	3	08	30.14	30.23	22	CLR	NC			8.00			76	67	70	74	8	24	29.78	29.85					
<b>SUNRISE: 0600</b>						<b>OCT 03</b>						<b>SUNRISE: 0606</b>						<b>OCT 09</b>						<b>SUNSET: 1733</b>											
01	VV	001			0.50	FG	65	64	64	97	6	05	30.12	30.20	01	SCT	120			8.00			73	66	69	79	5	26	29.77	29.85					
04	OVC	001			0.75	BR	67	66	66	97	5	04	30.09	30.17	04	FEW	120			8.00			72	66	68	82	5	26	29.75	29.83					
07	OVC	003			1.00	BR	68	67			0	00			07	CLR	NC			5.00	HZ		71	65	67	81	3	23	29.77	29.85					
10	OVC	005			1.00	HZ	72	67	69	84	3	VR	30.09	30.17	10	FEW	060			8.00			84	66	72	55	8	28	29.75	29.84					
13	CLR	NC			10.00		80	65	70	60	7	19	30.04	30.12	13	CLR	NC			9.00			86	67	73	53	10	11	29.72	29.79					
16	CLR	NC			10.00		80	64	70	58	10	14	29.98	30.07	16	BKN	009			4.00	BR		73	69	70	87	15	11	29.69	29.77					
19	BKN	060			10.00		74	67	69	79	7	17	30.03	30.11	19	OVC	007			6.00	BR		70	66	67	87	8	10	29.70	29.78					
22	CLR	NC			10.00		70	68	69	93	6	14	30.06	30.14	22	OVC	100			10.00	VCTS -RA		66	64	65	93	8	10	29.72	29.80					
<b>SUNRISE: 0601</b>						<b>OCT 04</b>						<b>SUNRISE: 0607</b>						<b>OCT 10</b>						<b>SUNSET: 1731</b>											
01	OVC	005			2.00	BR	68	66	67	93	0	00	30.06	30.14	01	OVC	005			10.00			66	63	64	90	5	14	29.70	29.78					
04	OVC	003			0.50	FG	67	66	66	97	0	00	30.06	30.15	04	OVC	003			5.00	BR		65	64	64	97	7	27	29.69	29.77					
07	OVC	002			0.50	FG	68	67	67	97	0	00	30.10	30.19	07	BKN	005			2.00	BR		66	64	64	93	8	29	29.67	29.75					
10	OVC	004			2.00	BR	71	68	69	90	0	00	30.14	30.23	10	CLR	NC			10.00			73	56	63	55	5	32	29.67	29.76					
13	CLR	NC			4.00	HZ	77	68	71	74	5	16	30.11	30.19	13	CLR	NC			10.00			79	50	62	36	6	VR	29.62	29.70					
16	CLR	NC			10.00		78	69	72	74	8	15	30.09	30.17	16	CLR	NC			10.00			76	52	62	43	7	13	29.57	29.66					
19	VV	001			0.25	FG	70	69	69	97	10	15	30.11	30.19	19	CLR	NC			10.00			70	60	64	71	8	13	29.59	29.68					
22	OVC	001			1.00	BR	69	68	68	97	9	15	30.15	30.24	22	FEW	095			10.00			67	59	62	76	9	11	29.59	29.67					
<b>SUNRISE: 0602</b>						<b>OCT 05</b>						<b>SUNRISE: 0608</b>						<b>OCT 11</b>						<b>SUNSET: 1730</b>											
01	OVC	003			4.00	BR	69	68	68	97	3	24	30.19	30.27	01	OVC	018			2.00	+RA BR		64	61	62	90	13	32	29.59	29.67					
04	OVC	003			7.00		68	67	67	97	0	00	30.19	30.27	04	OVC	110			10.00			60	56	58	87	14	36	29.56	29.64					
07	OVC	003			5.00	BR	69	67	68	93	0	00	30.22	30.31	07	OVC	016			10.00			59	54	56	84	10	36	29.54	29.63					
10	OVC	003			2.50	BR	71	68	69	90	0	00	30.24	30.33	10	OVC	026			8.00	-RA		60	55	57	84	9	29	29.53	29.61					
13	OVC	005			2.50	BR	71	68	69	90	6	15	30.22	30.31	13	OVC	020			10.00			55	51	53	86	15	29	29.49	29.58					
16	BKN	016			8.00		74	67	69	79	5	16	30.19	30.27	16	BKN	055			10.00			58	48	53	70	16	30	29.49	29.58					
19	CLR	NC			6.00	BR	69	66	67	90	0	00	30.19	30.27	19	OVC	028			10.00			56	44	50	64	13	27	29.51	29.59					
22	FEW	006			4.00	BR	66	64	65	93	0	00	30.19	30.27	22	OVC	028			10.00			54	45	49	72	15	27	29.51	29.58					
<b>SUNRISE: 0603</b>						<b>OCT 06</b>						<b>SUNRISE: 0609</b>						<b>OCT 12</b>						<b>SUNSET: 1728</b>											
01	OVC	002			4.00	BR	64	63	63	97	0	00	30.17	30.26	01	OVC	024			6.00	RA BR		52	49	50	90	10	25	29.48	29.56					
04	VV	001			0.25	FG	64	63	63	97	0	00	30.15	30.23	04	OVC	050			7.00			54	49	51	83	13	27	29.49	29.57					
07	VV	001			0.00	FG	65	64	64	97	5	31	30.16	30.24	07	BKN	095			10.00			57	47	52	69	16	29	29.59	29.67					
10	SCT	035			7.00		72	67	69	84	3	VR	30.15	30.24	10	BKN	044			10.00			62	42	52	48	25	30	29.65	29.74					
13	BKN	040			10.00		81	66	71	60	11	23	30.09	30.18	13	SCT	055			10.00			66	39	52	37	21	32	29.67	29.75					
16	FEW	040			10.00		83	64	71	53	10	23	30.02	30.11	16	CLR	NC			10.00			63	36	50	37	17	30	29.72	29.80					
19	CLR	NC			10.00		74	68	70	82	9	16	30.01	30.10	19	CLR	NC			10.00			55	37	47	51	5	29	29.78	29.85					
22	CLR	NC			10.00		70	66	67	87	0	00	30.01	30.09	22	CLR	NC			10.00			48	39	44	71	8	01	29.85	29.93					

# OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE  
OCTOBER 2007  
KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)													
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		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
<b>SUNRISE: 0610</b>						<b>OCT 13</b>						<b>SUNSET: 1727</b>						<b>SUNRISE: 0616</b>						<b>OCT 19</b>						<b>SUNSET: 1718</b>					
01	CLR	NC			10.00		46	39	43	77	3	30	29.88	29.96	01	BKN	012			6.00	BR	67	65	66	93	3	07	29.75	29.83						
04	CLR	NC			10.00		43	39	41	86	0	00	29.90	29.98	04	OVC	010			9.00		71	68	69	90	0	00	29.73	29.82						
07	CLR	NC			10.00		43	39	41	86	0	00	29.93	30.01	07	OVC	017			4.00	BR	71	69	70	93	9	15	29.70	29.78						
10	CLR	NC			10.00		59	39	49	48	9	29	29.94	30.03	10	OVC	027			10.00		75	71	72	87	13	15	29.67	29.76						
13	CLR	NC			10.00		64	37	51	37	13	32	29.88	29.97	13	BKN	065			3.00	RA	76	71	73	85	20	14	29.56	29.64						
16	CLR	NC			10.00		64	36	50	36	14	28	29.88	29.96	16	FEW	075			10.00		79	67	71	67	14	19	29.49	29.58						
19	CLR	NC			10.00		58	38	48	48	3	23	29.90	29.98	19	OVC	080			10.00		73	69	70	87	11	16	29.48	29.56						
22	CLR	NC			10.00		48	41	45	77	9	31	29.96	30.04	22	OVC	090			9.00	-TSRA	60	56	58	87	15	28	29.54	29.62						
<b>SUNRISE: 0611</b>						<b>OCT 14</b>						<b>SUNRISE: 0618</b>						<b>OCT 20</b>						<b>SUNSET: 1717</b>											
01	CLR	NC			10.00		50	37	44	61	6	28	29.98	30.06	01	OVC	100			10.00	TS	62	58	60	87	7	23	29.59	29.68						
04	CLR	NC			10.00		46	38	42	74	5	27	29.98	30.06	04	CLR	NC			10.00	TS	59	57	58	93	6	26	29.62	29.71						
07	CLR	NC			10.00		46	40	43	80	6	26	30.01	30.09	07	CLR	NC			10.00	TS	59	53	56	81	11	29	29.69	29.76						
10	CLR	NC			10.00		62	42	52	48	9	29	30.04	30.12	10	CLR	NC			10.00		68	49	58	51	10	27	29.72	29.80						
13	CLR	NC			10.00		67	41	54	39	14	29	30.01	30.09	13	FEW	060			10.00		72	47	58	41	20	26	29.70	29.79						
16	CLR	NC			10.00		67	40	53	37	14	30	30.01	30.09	16	SCT	085			10.00		70	42	55	36	15	28	29.75	29.83						
19	CLR	NC			10.00		57	43	50	60	9	01	30.06	30.14	19	CLR	NC			10.00		62	43	52	50	6	23	29.83	29.92						
22	CLR	NC			10.00		50	44	47	80	5	31	30.09	30.18	22	CLR	NC			10.00		57	44	50	62	3	23	29.93	30.00						
<b>SUNRISE: 0612</b>						<b>OCT 15</b>						<b>SUNRISE: 0619</b>						<b>OCT 21</b>						<b>SUNSET: 1715</b>											
01	CLR	NC			10.00		48	45	47	89	0	00	30.10	30.19	01	CLR	NC			10.00		54	46	50	75	7	25	29.98	30.07						
04	CLR	NC			10.00		45	42	44	89	3	31	30.10	30.19	04	CLR	NC			10.00		50	45	48	83	5	28	30.04	30.12						
07	CLR	NC			10.00		48	44	46	86	3	31	30.15	30.24	07	CLR	NC			10.00		51	46	49	83	0	00	30.11	30.19						
10	CLR	NC			10.00		62	45	53	54	6	14	30.14	30.23	10	CLR	NC			10.00		68	47	57	47	7	22	30.16	30.24						
13	CLR	NC			10.00		70	44	56	39	11	28	30.09	30.17	13	CLR	NC			10.00		75	44	58	33	3	VR	30.14	30.22						
16	CLR	NC			10.00		69	47	57	46	8	21	30.06	30.14	16	CLR	NC			10.00		74	47	59	38	11	17	30.14	30.22						
19	CLR	NC			10.00		63	48	55	58	0	00	30.06	30.14	19	CLR	NC			10.00		66	48	56	52	8	16	30.15	30.24						
22	CLR	NC			10.00		57	49	53	75	5	26	30.06	30.14	22	CLR	NC			10.00		62	47	54	58	5	21	30.17	30.26						
<b>SUNRISE: 0613</b>						<b>OCT 16</b>						<b>SUNRISE: 0620</b>						<b>OCT 22</b>						<b>SUNSET: 1714</b>											
01	FEW	120			10.00		55	51	53	86	3	36	30.06	30.15	01	CLR	NC			10.00		53	50	51	90	0	00	30.17	30.26						
04	CLR	NC			10.00		56	51	53	83	3	01	30.09	30.18	04	CLR	NC			10.00		52	49	50	90	0	00	30.16	30.25						
07	CLR	NC			10.00		56	48	52	75	0	00	30.11	30.19	07	CLR	NC			7.00		51	48	49	90	3	33	30.17	30.26						
10	CLR	NC			10.00		65	46	55	50	7	09	30.11	30.20	10	CLR	NC			10.00		70	54	61	57	9	20	30.17	30.26						
13	CLR	NC			10.00		70	49	58	47	8	17	30.06	30.15	13	CLR	NC			10.00		77	52	62	42	10	22	30.09	30.18						
16	CLR	NC			10.00		70	56	62	61	8	14	30.03	30.11	16	CLR	NC			10.00		77	51	62	40	10	20	30.06	30.14						
19	CLR	NC			8.00		65	60	62	84	8	14	30.04	30.13	19	CLR	NC			10.00		71	57	63	61	11	17	30.04	30.12						
22	CLR	NC			8.00		63	59	61	87	5	10	30.06	30.15	22	CLR	NC			10.00		68	60	63	76	14	17	30.02	30.11						
<b>SUNRISE: 0614</b>						<b>OCT 17</b>						<b>SUNRISE: 0621</b>						<b>OCT 23</b>						<b>SUNSET: 1712</b>											
01	CLR	NC			3.00	BR	58	56	57	93	0	00	30.06	30.15	01	CLR	NC			10.00		66	60	62	81	14	17	29.96	30.05						
04	CLR	NC			4.00	BR	60	58	59	93	0	00	30.06	30.14	04	CLR	NC			10.00		66	62	64	87	10	17	29.91	30.00						
07	FEW	008			2.50	BR	61	58	59	90	3	18	30.06	30.14	07	CLR	NC			9.00		67	63	65	87	10	16	29.88	29.97						
10	CLR	NC			6.00	HZ	69	61	64	76	7	26	30.06	30.14	10	FEW	028			10.00		75	63	67	66	15	20	29.85	29.94						
13	CLR	NC			10.00		77	59	66	54	9	19	29.99	30.08	13	CLR	NC			10.00		77	60	66	56	16	20	29.75	29.83						
16	CLR	NC			10.00		75	59	65	58	10	16	29.98	30.05	16	OVC	045			10.00		79	61	68	54	11	20	29.67	29.76						
19	CLR	NC			10.00		68	61	64	78	7	14	29.96	30.05	19	CLR	NC			10.00		76	64	68	67	14	19	29.65	29.74						
22	CLR	NC			7.00		65	62	63	90	0	00	29.98	30.06	22	BKN	039			10.00		73	64	67	74	5	20	29.67	29.76						
<b>SUNRISE: 0615</b>						<b>OCT 18</b>						<b>SUNRISE: 0622</b>						<b>OCT 24</b>						<b>SUNSET: 1711</b>											
01	CLR	NC			9.00		63	56	59	78	0	00	29.96	30.03	01	OVC	032			10.00		66	63	64	90	7	32	29.72	29.81						
04	CLR	NC			8.00		62	57	59	84	5	15	29.93	30.00	04	OVC	042			10.00		67	64	65	90	5	11	29.72	29.80						
07	VV	001			0.00	FG	62	62	62	100	5	19	29.93	30.01	07	OVC	046			3.00	RA BR	66	64	65	93	6	29	29.80	29.88						
10	OVC	005			4.00	BR	67	65	66	93	8	21	29.91	29.99	10	OVC	050			10.00		66	62	64	87	5	23	29.83	29.91						
13	FEW	034			10.00		76	65	69	69	8	16	29.85	29.93	13	BKN	065			10.00		68	63	65	84	7	32	29.82	29.90						
16	FEW	050			10.00		75	66	69	74	11	16	29.80	29.88	16	SCT	085			10.00	-RA	67	63	65	87	18	01	29.83	29.91						
19	CLR	NC			10.00		71	67	68	87	9	16	29.80	29.88	19	OVC	022			10.00	-RA	58	55	56	90	13	36	29.93	30.01						
22	FEW	015			6.00	BR	68	66	67	93	0	00	29.78	29.87	22	OVC	023			10.00	-RA	57	53	55	87	13	01	29.99	30.08						

# OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE  
OCTOBER 2007 KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		
			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
<b>SUNRISE: 0623      OCT 25      SUNSET: 1710</b>													
01	OVC	022				57	54	55	90	10	01	30.01	30.10
04	OVC	055				52	47	49	83	17	03	30.03	30.12
07	OVC	025			-RA	52	47	49	83	17	02	30.09	30.18
10	OVC	020			-RA BR	52	49	50	90	17	04	30.19	30.27
13	OVC	015			BR	54	51	52	90	16	04	30.19	30.28
16	OVC	014			-RA BR	54	51	52	90	14	02	30.22	30.29
19	OVC	025				55	50	52	83	17	04	30.25	30.34
22	OVC	009			-RA BR	54	52	53	93	16	05	30.28	30.37
<b>SUNRISE: 0624      OCT 26      SUNSET: 1708</b>													
01	OVC	023				55	51	53	86	16	06	30.28	30.37
04	OVC	034			-RA BR	54	51	52	90	13	05	30.27	30.36
07	OVC	029			-RA BR	54	52	53	93	13	05	30.29	30.37
10	OVC	009			-RA BR	56	53	54	90	14	06	30.27	30.36
13	OVC	016			-RA BR	58	57	57	97	9	06	30.23	30.31
16	OVC	014			+RA BR	60	58	59	93	9	05	30.17	30.26
19	OVC	005			-RA BR	60	59	59	97	10	06	30.16	30.24
22	OVC	019			RA BR	62	60	61	93	9	06	30.11	30.19
<b>SUNRISE: 0625      OCT 27      SUNSET: 1707</b>													
01	OVC	004			-RA BR	63	62	62	97	7	07	30.03	30.12
04	OVC	002			-RA BR	67	66	66	97	10	16	29.98	30.06
07	OVC	065			-RA BR	68	66	67	93	11	14	29.94	30.02
10	OVC	013			RA BR	70	68	69	93	18	16	29.88	29.96
13	SCT	060				68	60	63	76	13	27	29.93	30.00
16	FEW	065				68	52	59	57	14	26	29.93	30.02
19	CLR	NC				61	46	53	58	13	29	30.03	30.11
22	CLR	NC				56	43	50	62	9	25	30.06	30.14
<b>SUNRISE: 0626      OCT 28      SUNSET: 1706</b>													
01	CLR	NC				54	44	49	69	8	24	30.09	30.17
04	CLR	NC				51	45	48	80	8	25	30.14	30.23
07	CLR	NC				51	34	43	52	13	32	30.25	30.34
10	CLR	NC				55	34	45	45	17	32	30.32	30.41
13	CLR	NC				58	31	46	36	21	30	30.30	30.39
16	CLR	NC				56	29	44	36	14	32	30.32	30.40
19	CLR	NC				47	29	40	50	6	31	30.37	30.46
22	CLR	NC				41	33	38	73	7	31	30.40	30.49
<b>SUNRISE: 0627      OCT 29      SUNSET: 1705</b>													
01	CLR	NC				39	32	36	76	3	36	30.43	30.51
04	CLR	NC				35	32	34	89	6	30	30.43	30.51
07	CLR	NC				36	32	34	85	6	31	30.46	30.55
10	CLR	NC				50	29	41	44	7	31	30.47	30.56
13	CLR	NC				54	29	43	38	9	26	30.40	30.49
16	CLR	NC				55	29	44	37	7	27	30.35	30.43
19	CLR	NC				50	32	42	50	0	00	30.35	30.44
22	CLR	NC				41	34	38	76	0	00	30.35	30.43
<b>SUNRISE: 0628      OCT 30      SUNSET: 1703</b>													
01	CLR	NC				39	36	38	89	0	00	30.35	30.43
04	CLR	NC				37	33	35	86	6	29	30.33	30.42
07	CLR	NC				39	33	37	79	0	00	30.36	30.45
10	CLR	NC				55	38	47	53	5	30	30.38	30.47
13	CLR	NC				63	36	50	37	5	VR	30.33	30.42
16	CLR	NC				62	37	50	40	9	22	30.28	30.37
19	CLR	NC				56	35	46	45	6	23	30.30	30.39
22	CLR	NC				47	41	44	80	0	00	30.31	30.40

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		
			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
<b>SUNRISE: 0630      OCT 31      SUNSET: 1702</b>													
01	CLR	NC				44	40	42	86	0	00	30.29	30.38
04	CLR	NC				42	39	41	89	0	00	30.28	30.37
07	CLR	NC			BR	40	37	39	89	0	00	30.29	30.38
10	CLR	NC				58	49	53	72	6	19	30.27	30.36
13	CLR	NC				65	43	54	45	10	20	30.19	30.28
16	CLR	NC				64	49	56	58	14	15	30.12	30.21
19	CLR	NC				57	51	54	80	8	18	30.12	30.20
22	CLR	NC				56	48	52	75	11	18	30.09	30.18

## 3-HOURLY OBSERVATION NOTES

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, W = 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.

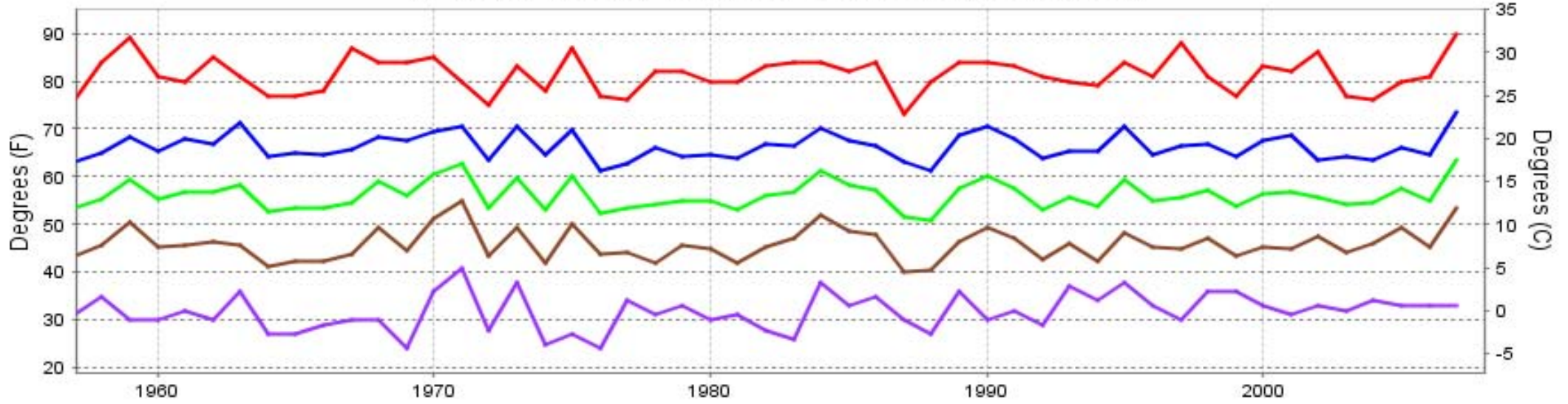
& = Original observation contained additional weather elements.

See page 3 for additional notes.

## SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		WIND SPEED (MPH)	DIRECTION		
						STATION	SEA LEVEL	VISIBILITY (Miles)				
01			59	54	56	86	30.01	30.10	7.79	5	0	30
02			58	54	56	87	30.01	30.09	7.48	5	1	28
03			58	55	56	88	30.00	30.09	7.41	5	1	28
04			57	54	55	89	30.01	30.09	7.60	5	1	28
05			57	54	55	89	30.02	30.10	7.88	5	3	28
06			57	54	55	87	30.02	30.11	7.19	6	2	28
07			58	54	55	86	30.03	30.11	6.61	6	2	28
08			61	55	58	81	30.04	30.12	7.06	6	1	28
09			64	55	59	74	30.04	30.13	7.38	8	2	28
10			67	55	60	67	30.04	30.12	7.92	9	2	27
11			68	54	60	62	30.03	30.12	8.81	10	3	27
12			70	54	61	58	30.02	30.10	9.03	10	5	27
13			71	53	61	56	29.99	30.08	8.82	11	4	27
14			72	53	61	55	29.98	30.06	9.32	11	4	27
15			72	53	61	54	29.97	30.05	9.40	12	2	28
16			71	53	61	57	29.97	30.05	9.32	12	2	28
17			68	53	60	61	29.97	30.06	9.42	10	1	28
18			66	54	59	66	29.98	30.06	9.48	9	1	07
19			65	54	59	70	29.99	30.07	9.17	8	1	08
20			63	54	58	73	30.00	30.08	8.99	7	1	07
21			62	54	58	77	30.00	30.09	8.77	6	1	08
22			60	54	57	80	30.00	30.09	8.81	7	0	34
23			60	54	57	81	30.00	30.09	8.67	6	0	30
24			59	54	56	84	30.00	30.08	8.52	6	1	28

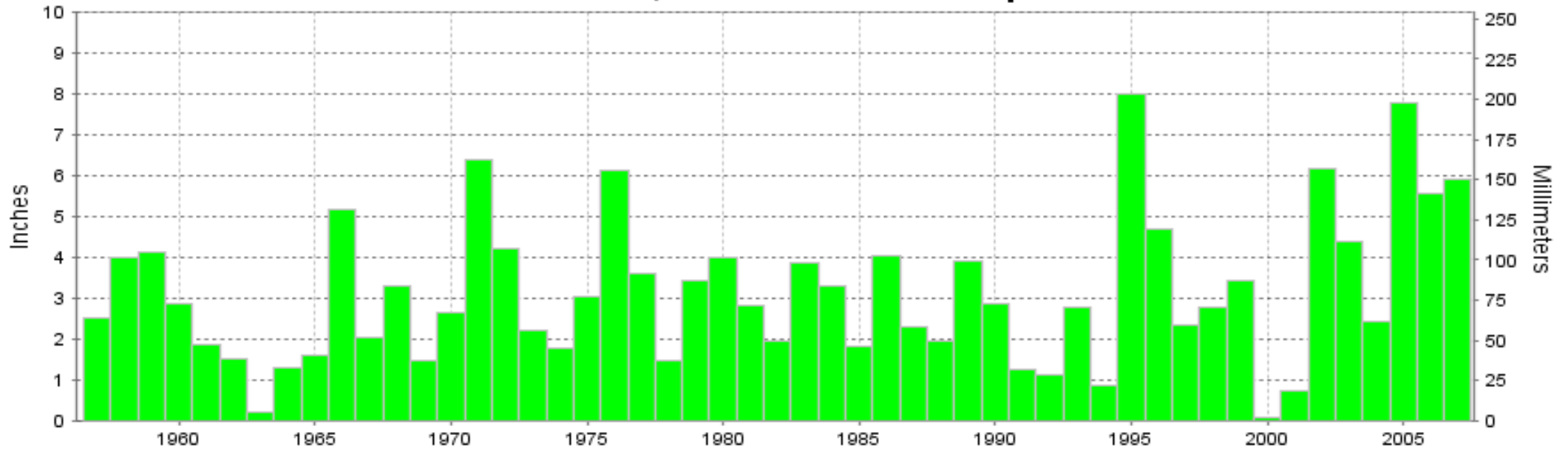
## WILMINGTON, DE OCTOBER Temperatures



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

Long-Term (1957-2007) Mean: 56.1  
1971-2000 Normal: 55.8

## WILMINGTON, DE OCTOBER Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.14

1971-2000 Normal: 3.08



OCTOBER 2007  
WILMINGTON, DE

# LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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