



# JANUARY 2010 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



JANUARY 2010  
WILMINGTON, DE

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						
																			3-SEC		2-MIN				
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 17	DIR 18	AVERAGE SPEED 19	SPEED 20	DIR 21	SPEED 22	DIR 23				
01	42	30	36	3	30	33	29	0	RA SN BR	0		T	0.02	29.84	29.92	8.2	30	8.5	33	31	26	31	01		
02	30	20	25	-8	9	21	40	0		0		0.0	0.00	29.72	29.82	23.3	31	23.4	48	29	35	30	02		
03	28	19	24	-8	8	19	41	0		0		0.0	0.00	29.65	29.73	23.1	30	23.4	49*	30	38*	30	03		
04	31	23	27	-5	14	23	38	0	SN	0		T	T	29.70	29.81	13.8	31	14.0	30	32	23	30	04		
05	33	24	29	-3	14	24	36	0		0		0.0	0.00	29.72	29.82	14.2	31	14.4	31	31	24	30	05		
06	38	28	33	1	20	28	32	0	SN	0		0.1	0.01	29.72	29.83	14.5	30	14.6	38	29	28	32	06		
07	38	27	33	1	19		32	0		0		0.0	0.00	29.85		10.2	30	10.6	26	29	21	32	07		
08	33	22	28	-4	19		37	0	SN FG+ FZFG BR	1		1.4	0.05			11.3	30	11.8	37	29	29	30	08		
09	31	20	26	-6	9	20	39	0		T		0.0	0.00	30.01	30.13	13.6	32	13.8	29	33	24	33	09		
10	30	14	22	-10	4	18	43	0		0		0.0	0.00	30.19	30.29	9.8	32	10.4	23	32	18	32	10		
11	33	16	25	-6	12	21	40	0	SN BR	0		0.3	0.02	30.11	30.20	5.2	26	5.8	18	29	14	29	11		
12	36	25	31	0	16	25	34	0	SN	0		T	T	30.04	30.14	10.6	31	10.9	28	33	21	32	12		
13	38	25	32	1	17	26	33	0		0		0.0	0.00	30.14	30.23	7.1	29	7.9	22	32	16	33	13		
14	47	23	35	4	21	29	30	0		0		0.0	0.00	30.15	30.25	2.4	18	3.5	13	24	12	16	14		
15	55	24	40	9	27	34	25	0		0		0.0	0.00	30.10	30.20	4.7	29	5.6	25	29	22	29	15		
16	50	30	40	9	32	37	25	0	BR HZ	0		0.0	0.00	30.12	30.21	4.0	24	4.6	17	20	14	22	16		
17	45	34	40	9	38	39	25	0	RA BR	0		0.0	0.77	29.82	29.84	9.4	05	10.6	29	06	22	04	17		
18	53	33	43	12	37	40	22	0	RA BR	0		0.0	0.01	29.64	29.78	8.9	32	9.1	24	31	20	33	18		
19	50	28	39	8	34	37	26	0	FZFG BR HZ	0		0.0	0.00	29.82	29.91	1.3	29	2.5	13	34	10	33	19		
20	44	28	36	5	23	31	29	0		0		0.0	0.00	29.88	30.00	6.1	33	6.9	18	31	15	34	20		
21	43	25	34	3	24	30	31	0		0		0.0	0.00	30.08	30.17	4.0	06	6.1	16	05	14	05	21		
22	45	30	38	7	21	32	27	0		0		0.0	0.00	29.86	29.96	9.5	03	10.2	23	03	18	04	22		
23	42	25	34	3	21	29	31	0		0		0.0	0.00	30.12	30.24	2.5	08	5.8	20	04	16	06	23		
24	53	31	42	11	38	40	23	0	RA BR	0		0.0	0.07	29.99	30.04	5.0	11	6.6	22	15	16	15	24		
25	62*	42	52*	21	48	50	13	0	RA FG BR	0		0.0	1.37	29.36	29.42	10.3	17	15.8	41	15	32	16	25		
26	44	33	39	8	26	34	26	0	RA	0		0.0	T	29.60	29.74	10.4	27	11.0	32	27	24	27	26		
27	41	27	34	3	19	29	31	0		0		0.0	0.00	30.00	30.13	8.3	27	8.6	32	25	23	26	27		
28	47	21	34	2	18	29	31	0		0		0.0	0.00	29.99	30.09	9.0	29	11.8	39	32	30	32	28		
29	25	16	21	-11	1	16	44	0		0		0.0	0.00	30.24	30.35	13.0	31	13.2	30	33	23	32	29		
30	21	15	18*	-14	5	15	47	0	SN FZFG BR UP	0		4.3	0.20	30.14	30.19	8.9	36	9.5	22	02	16	01	30		
31	28	12*	20	-12	4	16	45	0		4		0.0	0.00	30.02	30.14	6.7	30	8.8	18	33	15	32	31		
										< MONTHLY AVERAGES   TOTALS >						< MONTHLY AVERAGES									
										0.6 1.1 0.9				☼				<-----DEPARTURE FROM NORMAL----->							
										0.91				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.42 DATE : 24-25				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY										GREATEST 24-HR SNOWFALL : 4.3 DATE : 30				MAXIMUM : 30.40				29 0951							
SEASON TO DATE										GREATEST SNOW DEPTH : 4 DATE : 31				MINIMUM : 29.22				25 1351							
TOTAL DEPARTURE										NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 27				PRECIPITATION >= 0.01 INCH : 9			
HEATING : 1005 -24 2703 -111										THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 8				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 3			
COOLING : 0 0														HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 2							

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)  
JANUARY 2010

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	0.01	T	T	0.01									01												01	0.02	0.02	
02													02								T				02	0.00	0.00	
03													03												03	0.00	0.00	
04													04				T								04	T	T	
05													05												05	0.00	0.00	
06							T	0.01	T	T			06												06	0.01	0.01	
07													07												07	0.00	0.00	
08		T	0.01	0.02	0.01	0.01	T						08												08	0.05	0.05	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11											0.02	11	0.02	0.02	
12	T												12												12	T	T	
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	0.14	0.17	0.08	0.07	0.02	0.03	0.01	0.01	0.01	T	0.01	T	17	0.77	0.77
18	0.01	T		T									18												18	0.01	0.01	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24				T	T	T	T	T	0.05	0.02	T	24	0.07	0.07	
25	0.01	0.03	T	0.02	0.03	0.04	0.07	0.13	0.22	0.29	0.27	0.19	25	0.01		0.03	T	T			0.01	0.01		T	0.01	25	1.37	1.37
26	T	T	T	T									26		T				T						26	T	T	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30	0.01	0.02	0.01	0.01	0.02	T	0.01	T	T	T	T	30	0.08*	0.20	
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)	0.06	0.10	0.14	0.17	0.22	0.29	0.34	0.46	0.58	0.64	0.72	0.81
Ending Date	25	25	25	25	25	25	25	25	25	25	25	25
Ending Time (Hr/Min)	0951	0954	0957	1000	1005	1017	1046	1050	1114	1114	1143	1114

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 JANUARY 2010

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							1.25	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							1.75	10.00	
07							10.00	10.00	
08							0.25	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							2.00	10.00	
12							8.00	10.00	
13							10.00	10.00	
14							7.00	10.00	
15							7.00	10.00	
16							5.00	10.00	
17							1.00	6.00	
18							4.00	10.00	
19							2.50	10.00	
20							7.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							5.00	10.00	
25							0.50	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							0.50	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.86	9.87	
<b>SUNSHINE (Minutes)</b>									
Total : 0			Possible : 18136						
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				
1		8			20				

# OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE  
JANUARY 2010  
KILG

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)			
			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	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: 0723 JAN 01 SUNSET: 1649														SUNRISE: 0723 JAN 07 SUNSET: 1654															
01	OVC	005			1.25	-RA BR	33	32	33	96	0	00	29.91	29.99	01	FEW	039			10.00		30	18	26	61	11	30	29.82	29.90
04	OVC	024			3.00	-RA BR	33	32	33	96	0	00	29.90	29.98	04	SCT	035			10.00		30	18	26	61	13	30	29.85	29.94
07	OVC	075			3.00	BR	33	32	33	96	0	00	29.90	29.98	07	BKN	033			10.00		30	19	26	64	14	30	29.88	29.97
10	SCT	065			3.00	BR	34	32	33	92	3	26	29.88	29.97	10	CLR	NC			10.00		34	20	29	57	17	32	29.91	30.00
13	OVC	070			8.00		42	34	39	73	11	31	29.82	29.90	13	CLR	NC			10.00		38	20	32	48	15	31	29.88	29.96
16	OVC	065			9.00		40	31	36	70	9	31	29.80	29.88	16	CLR	NC			10.00		37	18	30	46	8	32	29.85	29.94
19	OVC	065			10.00		38	29	34	70	10	30	29.78	29.86	19	CLR	NC			10.00		30	18	26	61	3	33	29.85	29.94
22	OVC	065			10.00		33	18	28	54	21	30	29.77	29.85	22	OVC	065			10.00		31	20			5	25		
SUNRISE: 0723 JAN 02 SUNSET: 1650														SUNRISE: 0723 JAN 08 SUNSET: 1655															
01	CLR	NC			10.00		29	17	25	61	15	31	29.73	29.82	01	OVC	036			10.00		30	20			3	23		
04	FEW	070			10.00		27	15	23	61	16	31	29.73	29.82	04	OVC	038			2.00	-SN BR	28	26			0	00		
07	OVC	080			10.00		27	13	23	55	18	31	29.72	29.81	07	BKN	110			4.00	-SN BR	27	25			5	26		
10	BKN	085			10.00		28	9	23	45	18	31	29.72	29.81	10	OVC	090			9.00		30	25	28	82	13	28	29.72	29.80
13	SCT	090			10.00		29	7	23	39	25	31	29.69	29.77	13	FEW	041			10.00		33	18	28	54	14	28	29.69	29.77
16	CLR	NC			10.00		27	5	21	39	22	31	29.72	29.80	16	CLR	NC			10.00		30	14	25	51	16	30	29.75	29.83
19	CLR	NC			10.00		23	5	18	46	31	31	29.78	29.86	19	CLR	NC			10.00		26	12	22	55	17	30	29.83	29.91
22	CLR	NC			10.00		22	5	18	48	31	31	29.75	29.83	22	CLR	NC			10.00		24	12	21	60	14	29	29.88	29.97
SUNRISE: 0723 JAN 03 SUNSET: 1651														SUNRISE: 0723 JAN 09 SUNSET: 1656															
01	FEW	042			10.00		20	5	16	52	24	30	29.72	29.81	01	CLR	NC			10.00		23	14	20	68	11	31	29.91	29.99
04	CLR	NC			10.00		19	5	16	54	25	30	29.70	29.78	04	SCT	032			10.00		23	11	20	60	15	32	29.96	30.03
07	CLR	NC			10.00		19	4	15	52	25	29	29.65	29.74	07	CLR	NC			10.00		22	11	19	63	13	33	30.01	30.10
10	CLR	NC			10.00		23	5	18	46	31	28	29.61	29.70	10	CLR	NC			10.00		26	12	22	55	20	32	30.06	30.14
13	SCT	046			10.00		26	8	21	46	24	29	29.56	29.64	13	CLR	NC			10.00		30	10	24	43	14	31	30.04	30.13
16	OVC	046			10.00		26	8	21	46	28	30	29.59	29.68	16	CLR	NC			10.00		29	6	23	37	16	31	30.06	30.14
19	FEW	095			10.00		26	11	22	53	23	30	29.65	29.74	19	CLR	NC			10.00		24	6	19	46	11	32	30.10	30.19
22	CLR	NC			10.00		26	12	22	55	20	32	29.69	29.77	22	CLR	NC			10.00		22	3	17	44	13	34	30.14	30.23
SUNRISE: 0723 JAN 04 SUNSET: 1651														SUNRISE: 0723 JAN 10 SUNSET: 1657															
01	CLR	NC			10.00		25	13	21	60	15	31	29.69	29.77	01	CLR	NC			10.00		19	4	15	52	8	34	30.16	30.24
04	CLR	NC			10.00		24	12	21	60	14	31	29.70	29.79	04	CLR	NC			10.00		17	3	14	54	11	34	30.19	30.27
07	CLR	NC			10.00		24	13	21	63	11	31	29.72	29.80	07	CLR	NC			10.00		14	4	12	64	10	33	30.22	30.32
10	OVC	032			10.00		27	14	23	58	14	32	29.75	29.83	10	CLR	NC			10.00		22	6	18	50	11	33	30.27	30.36
13	OVC	036			10.00		30	16	26	56	16	30	29.70	29.78	13	CLR	NC			10.00		28	2	21	32	15	30	30.20	30.29
16	BKN	075			10.00		29	17	25	61	17	30	29.72	29.80	16	CLR	NC			10.00		29	-0	22	28	9	31	30.19	30.27
19	OVC	041			10.00		29	18	25	63	13	29	29.73	29.82	19	CLR	NC			10.00		25	5	20	42	7	28	30.20	30.29
22	BKN	048			10.00		27	13	23	55	14	31	29.75	29.83	22	CLR	NC			10.00		22	9	19	57	10	30	30.19	30.29
SUNRISE: 0723 JAN 05 SUNSET: 1652														SUNRISE: 0723 JAN 11 SUNSET: 1658															
01	OVC	041			10.00		27	13	23	55	10	32	29.73	29.82	01	CLR	NC			10.00		21	9	18	60	8	30	30.19	30.27
04	OVC	039			10.00		25	12	21	58	11	31	29.75	29.83	04	CLR	NC			10.00		18	9	16	68	6	27	30.16	30.25
07	OVC	031			10.00		25	13	21	60	11	30	29.77	29.85	07	CLR	NC			10.00		16	9	14	74	6	24	30.16	30.25
10	OVC	060			10.00		27	13	23	55	14	30	29.77	29.85	10	CLR	NC			10.00		23	11	20	60	9	28	30.17	30.26
13	BKN	039			10.00		31	14	26	49	18	32	29.70	29.79	13	CLR	NC			10.00		30	11	24	45	9	28	30.09	30.18
16	OVC	041			10.00		31	15	26	51	16	31	29.70	29.78	16	CLR	NC			10.00		31	12	25	45	5	23	30.03	30.13
19	OVC	047			10.00		31	15	26	51	13	29	29.72	29.80	19	CLR	NC			10.00		28	13	24	53	3	20	30.04	30.13
22	BKN	039			10.00		29	16	25	58	10	30	29.72	29.81	22	OVC	065			10.00		28	14	24	56	6	26	30.06	30.14
SUNRISE: 0723 JAN 06 SUNSET: 1653														SUNRISE: 0722 JAN 12 SUNSET: 1659															
01	OVC	080			10.00		29	15	25	56	13	30	29.70	29.80	01	OVC	085			9.00		27	24	26	88	5	24	30.04	30.14
04	OVC	090			10.00		29	18	25	63	11	29	29.70	29.79	04	OVC	100			10.00		28	18	25	66	8	31	30.03	30.12
07	OVC	100			5.00	-SN	28	21	26	75	13	30	29.72	29.80	07	OVC	060			10.00		27	14	23	58	11	31	30.06	30.14
10	OVC	038			10.00		31	22	28	69	10	30	29.75	29.84	10	OVC	065			10.00		29	15	25	56	11	31	30.07	30.16
13	OVC	037			10.00		36	22	31	57	15	31	29.70	29.78	13	CLR	NC			10.00		35	15	28	44	16	32	30.02	30.11
16	CLR	NC			10.00		36	20	30	52	17	31	29.72	29.80	16	CLR	NC			10.00		33	15	27	48	16	30	30.01	30.09
19	BKN	046			10.00		33	20	29	59	14	29	29.78	29.87	19	CLR	NC			10.00		28	15	24	58	6	30	30.06	30.15
22	CLR	NC			10.00		32	18	27	56	14	30	29.80	29.90	22	CLR	NC			10.00		26	17	23	69	8	30	30.09	30.18

# OBSERVATIONS AT 3-HOURLY INTERVALS

**WILMINGTON, DE**  
**JANUARY 2010**  
**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								
																												Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION
<b>SUNRISE: 0722</b>						<b>JAN 13</b>						<b>SUNSET: 1700</b>						<b>SUNRISE: 0720</b>						<b>JAN 19</b>						<b>SUNSET: 1707</b>					
01	CLR	NC			10.00		27	14	23	58	6	30	30.14	30.22	01	CLR	NC			6.00	BR		33	32	33	96	0	00	29.86	29.95					
04	CLR	NC			10.00		27	14	23	58	6	30	30.14	30.23	04	SCT	046			6.00	BR		31	30	31	96	0	00	29.86	29.95					
07	CLR	NC			10.00		27	14	23	58	10	31	30.19	30.27	07	CLR	NC			4.00	BR		30	30	30	100	0	00	29.85	29.94					
10	FEW	090			10.00		29	16	25	58	8	29	30.22	30.31	10	CLR	NC			4.00	BR		40	38	39	93	0	00	29.85	29.94					
13	CLR	NC			10.00		35	18	29	50	13	29	30.14	30.24	13	OVC	080			10.00			46	39	43	77	6	15	29.78	29.86					
16	CLR	NC			10.00		37	18	30	46	13	28	30.11	30.20	16	OVC	046			10.00			50	39	45	66	6	25	29.78	29.85					
19	CLR	NC			10.00		33	19	28	56	3	24	30.11	30.20	19	SCT	070			9.00			41	34	38	76	7	33	29.80	29.90					
22	CLR	NC			10.00		29	19	26	66	7	27	30.12	30.21	22	FEW	065			8.00			38	32	36	79	7	32	29.85	29.93					
<b>SUNRISE: 0722</b>						<b>JAN 14</b>						<b>SUNRISE: 0719</b>						<b>JAN 20</b>						<b>SUNSET: 1708</b>											
01	CLR	NC			10.00		28	18	25	66	3	27	30.14	30.22	01	SCT	065			9.00			33	27	31	79	6	33	29.83	29.93					
04	CLR	NC			10.00		28	18	25	66	0	00	30.14	30.23	04	SCT	070			10.00			32	25	29	75	3	27	29.85	29.93					
07	CLR	NC			10.00		23	18	21	81	0	00	30.17	30.27	07	SCT	095			9.00			30	24	28	78	3	25	29.88	29.97					
10	CLR	NC			9.00		36	21	31	55	0	00	30.22	30.30	10	CLR	NC			10.00			39	26	34	60	9	34	29.93	30.01					
13	CLR	NC			10.00		43	21	35	42	6	15	30.15	30.24	13	FEW	045			10.00			43	23	35	45	10	31	29.88	29.97					
16	CLR	NC			10.00		45	18	35	34	8	24	30.14	30.24	16	CLR	NC			10.00			42	20	34	41	7	32	29.90	29.98					
19	CLR	NC			10.00		32	24	29	72	6	16	30.15	30.24	19	CLR	NC			10.00			36	23	31	59	10	01	29.96	30.05					
22	CLR	NC			7.00		30	26	29	85	0	00	30.16	30.25	22	CLR	NC			10.00			33	22	29	64	5	31	30.02	30.11					
<b>SUNRISE: 0721</b>						<b>JAN 15</b>						<b>SUNRISE: 0719</b>						<b>JAN 21</b>						<b>SUNSET: 1709</b>											
01	CLR	NC			8.00		27	23	26	85	0	00	30.14	30.22	01	CLR	NC			10.00			28	20	25	72	6	33	30.03	30.12					
04	CLR	NC			10.00		26	21	24	81	3	20	30.09	30.18	04	CLR	NC			10.00			28	21	26	75	6	35	30.07	30.16					
07	CLR	NC			10.00		26	21	24	81	0	00	30.10	30.19	07	CLR	NC			10.00			26	20	24	78	3	34	30.12	30.21					
10	OVC	070			9.00		38	28	34	67	0	00	30.12	30.21	10	CLR	NC			10.00			36	25	32	64	6	05	30.19	30.27					
13	CLR	NC			10.00		54	27	43	35	8	27	30.06	30.15	13	CLR	NC			10.00			41	23	34	49	8	05	30.09	30.18					
16	CLR	NC			10.00		53	33	44	47	21	29	30.06	30.15	16	CLR	NC			10.00			42	22	35	45	5	05	30.06	30.16					
19	OVC	042			10.00		44	32	39	63	8	34	30.14	30.22	19	CLR	NC			10.00			35	28	32	76	6	16	30.06	30.15					
22	OVC	042			9.00		42	31	37	65	6	32	30.17	30.26	22	CLR	NC			10.00			35	26	32	70	6	10	30.06	30.14					
<b>SUNRISE: 0721</b>						<b>JAN 16</b>						<b>SUNRISE: 0718</b>						<b>JAN 22</b>						<b>SUNSET: 1710</b>											
01	OVC	040			10.00		40	29	36	65	5	31	30.14	30.23	01	OVC	070			10.00			36	24	32	62	10	05	29.93	30.02					
04	CLR	NC			8.00		35	27	32	73	0	00	30.14	30.23	04	OVC	070			10.00			36	27	33	70	14	05	29.88	29.96					
07	BKN	038			6.00	BR	31	27	30	85	5	26	30.19	30.27	07	OVC	080			10.00			36	25	32	64	13	05	29.83	29.91					
10	SCT	037			8.00		44	32	39	63	9	25	30.19	30.27	10	CLR	NC			10.00			38	21	32	50	14	02	29.83	29.93					
13	CLR	NC			10.00		50	35	43	57	10	23	30.09	30.18	13	CLR	NC			10.00			43	18	34	37	11	01	29.80	29.89					
16	CLR	NC			10.00		49	36	43	61	8	23	30.09	30.16	16	CLR	NC			10.00			44	20	35	38	9	01	29.83	29.92					
19	CLR	NC			9.00		41	34	38	76	3	19	30.10	30.19	19	CLR	NC			10.00			38	20	32	48	5	34	29.91	30.00					
22	CLR	NC			8.00		38	33	36	82	0	00	30.11	30.19	22	CLR	NC			10.00			32	19	28	59	5	34	29.98	30.07					
<b>SUNRISE: 0721</b>						<b>JAN 17</b>						<b>SUNRISE: 0717</b>						<b>JAN 23</b>						<b>SUNSET: 1711</b>											
01	CLR	NC			6.00	BR	35	32	34	89	3	20	30.06	30.14	01	CLR	NC			10.00			31	19	27	61	5	35	30.02	30.11					
04	CLR	NC			5.00	BR	36	33	35	89	0	00	30.01	30.09	04	CLR	NC			10.00			30	18	26	61	6	36	30.09	30.16					
07	CLR	NC			5.00	BR	37	34	36	89	6	05	29.96	30.06	07	CLR	NC			10.00			29	19	26	66	8	04	30.14	30.23					
10	OVC	080			2.50	RA BR	39	36	38	89	8	07	29.93	30.01	10	CLR	NC			10.00			36	20	30	52	13	07	30.22	30.30					
13	OVC	005			1.00	+RA BR	40	39	40	96	13	05	29.77	29.85	13	CLR	NC			10.00			41	16	32	36	0	00	30.16	30.25					
16	OVC	006			1.25	-RA BR	44	43	44	96	10	07	29.64	29.72	16	CLR	NC			10.00			40	19	33	43	7	18	30.19	30.27					
19	OVC	013			4.00	-RA BR	44	42	43	93	18	06	29.53	29.60	19	CLR	NC			10.00			34	27	31	76	8	16	30.19	30.28					
22	OVC	007			3.00	-RA BR	42	41	42	96	15	03	29.44	29.52	22	CLR	NC			10.00			31	28	30	89	5	15	30.20	30.29					
<b>SUNRISE: 0720</b>						<b>JAN 18</b>						<b>SUNRISE: 0717</b>						<b>JAN 24</b>						<b>SUNSET: 1712</b>											
01	OVC	012			4.00	-RA BR	40	38	39	93	10	34	29.43	29.51	01	CLR	NC			10.00			32	28	31	85	5	13	30.16	30.25					
04	OVC	019			6.00	BR	38	37	38	96	9	33	29.52	29.60	04	CLR	NC			10.00			33	29	31	85	5	08	30.12	30.22					
07	OVC	034			10.00		39	37	38	93	11	31	29.61	29.69	07	OVC	034			10.00			34	30	32	85	3	05	30.09	30.18					
10	OVC	047			10.00		44	38	41	80	11	33	29.72	29.80	10	OVC	032			10.00			37	33	35	86	6	05	30.04	30.13					
13	CLR	NC			10.00		52	39	46	61	17	32	29.72	29.81	13	OVC	065			10.00			43	38	41	83	7	07	29.93	30.01					
16	CLR	NC			10.00		50	38	44	64	10	31	29.78	29.85	16	OVC	090			10.00	-RA		46	41	44	83	5	07	29.85	29.94					
19	CLR	NC			10.00		44	37	41	77	3	28	29.83	29.92	19	OVC	075			10.00	-RA		51	46	49	83	11	15	29.82	29.90					
22	CLR	NC			10.00		40	36	38	86	0	00	29.86	29.95	22	OVC	085			10.00	-RA		52	50	51	93	14	14	29.75	29.83					

# OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE  
JANUARY 2010 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)				
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL	
														WEATHER
<b>SUNRISE: 0716      JAN 25      SUNSET: 1714</b>														
01	OVC	019			10.00	-RA	54	51	52	90	16	14	29.62	29.71
04	OVC	006			8.00	-RA	53	51	52	93	21	15	29.51	29.58
07	OVC	006			4.00	RA BR	54	52	53	93	26	15	29.36	29.44
10	OVC	002			0.75	+RA BR	51	50	50	96	18	17	29.25	29.33
13	OVC	020			10.00		57	56	56	96	14	16	29.14	29.22
16	BKN	075			10.00		58	47	52	67	10	29	29.21	29.28
19	BKN	100			10.00		50	43	47	77	3	29	29.31	29.39
22	OVC	090			10.00		48	36	43	63	14	32	29.39	29.47
<b>SUNRISE: 0715      JAN 26      SUNSET: 1715</b>														
01	OVC	085			10.00		42	36	39	79	0	00	29.44	29.53
04	OVC	080			10.00		42	31	37	65	8	27	29.49	29.58
07	CLR	NC			10.00		37	25	32	62	8	23	29.59	29.67
10	CLR	NC			10.00		42	24	35	49	13	26	29.64	29.72
13	SCT	047			10.00		43	25	36	49	10	27	29.65	29.74
16	CLR	NC			10.00		40	29	36	65	9	26	29.70	29.77
19	OVC	090			10.00		37	27	33	67	8	27	29.77	29.85
22	BKN	060			10.00		35	21	30	57	10	29	29.82	29.90
<b>SUNRISE: 0715      JAN 27      SUNSET: 1716</b>														
01	CLR	NC			10.00		31	17	26	56	9	30	29.88	29.97
04	CLR	NC			10.00		28	17	25	63	7	27	29.93	30.02
07	CLR	NC			10.00		28	19	25	69	3	25	29.99	30.08
10	CLR	NC			10.00		34	20	29	57	11	26	30.09	30.17
13	BKN	041			10.00		37	19	31	48	17	29	30.06	30.15
16	CLR	NC			10.00		41	20	33	43	16	28	30.06	30.15
19	CLR	NC			10.00		37	19	31	48	3	27	30.09	30.18
22	CLR	NC			10.00		31	20	27	64	0	00	30.10	30.19
<b>SUNRISE: 0714      JAN 28      SUNSET: 1717</b>														
01	CLR	NC			10.00		32	19	28	59	3	22	30.11	30.19
04	SCT	110			10.00		29	21	26	72	0	00	30.09	30.17
07	OVC	085			10.00		34	28	32	79	7	17	29.99	30.09
10	BKN	060			10.00		38	26	33	62	5	23	29.96	30.05
13	OVC	070			10.00		44	27	37	51	11	25	29.85	29.94
16	BKN	080			10.00		46	19	36	34	23	29	29.85	29.93
19	CLR	NC			10.00		33	8	26	35	29	32	30.01	30.09
22	CLR	NC			10.00		25	1	19	35	23	32	30.15	30.24
<b>SUNRISE: 0713      JAN 29      SUNSET: 1718</b>														
01	CLR	NC			10.00		20	-1	15	39	14	33	30.20	30.29
04	CLR	NC			10.00		18	-1	14	43	11	31	30.25	30.35
07	CLR	NC			10.00		17	-0	13	47	10	31	30.27	30.36
10	CLR	NC			10.00		19	-0	15	43	18	31	30.31	30.40
13	CLR	NC			10.00		22	2	17	42	15	31	30.25	30.34
16	CLR	NC			10.00		24	1	18	37	18	32	30.24	30.33
19	CLR	NC			10.00		22	2	17	42	10	30	30.24	30.34
22	CLR	NC			10.00		21	3	17	45	7	30	30.27	30.35
<b>SUNRISE: 0712      JAN 30      SUNSET: 1720</b>														
01	CLR	NC			10.00		21	3	17	45	15	31	30.27	30.35
04	CLR	NC			10.00		20	-0	16	41	11	34	30.24	30.33
07	CLR	NC			10.00		19	-0	15	43	10	36	30.22	30.30
10	FEW	090			10.00		20	-1	15	39	9	03	30.17	30.27
13	OVC	017			1.25	-SN	17	6	14	62	0	00	30.12	30.21
16	VV	009			1.00	-SN	16	11	15	81	10	36	30.03	30.13
19	OVC	017			2.50	-SN	16	11	15	81	14	36	29.98	30.06
22	OVC	030			9.00	-SN	18	8	15	65	10	01	29.93	30.02

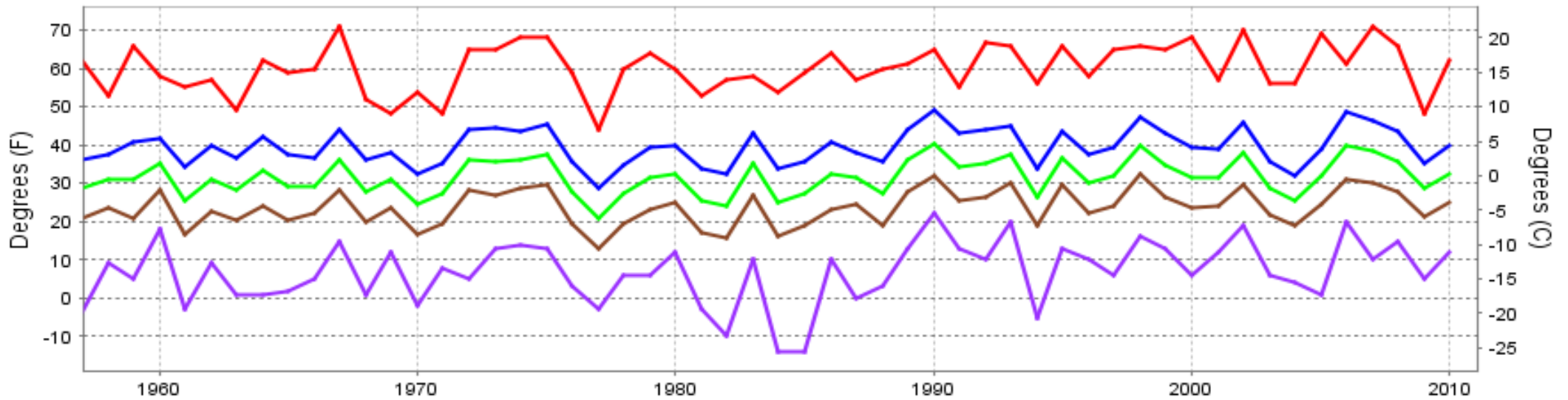
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)				
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL	
														WEATHER
<b>SUNRISE: 0711      JAN 31      SUNSET: 1721</b>														
01	OVC	075			10.00		19	5	16	54	10	34	29.91	30.00
04	CLR	NC			10.00		17	3	14	54	11	34	29.96	30.05
07	CLR	NC			10.00		13	1	10	58	14	33	30.03	30.12
10	CLR	NC			10.00		18	1	14	47	9	32	30.09	30.18
13	CLR	NC			10.00		25	3	19	38	10	29	30.09	30.17
16	CLR	NC			10.00		27	4	21	37	11	25	30.06	30.16
19	CLR	NC			10.00		23	4	18	44	6	19	30.07	30.16
22	CLR	NC			10.00		21	7	17	55	5	24	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)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			30	20	27	68	29.93	30.02	9.14	8	7	32
02			30	20	27	67	29.93	30.02	9.00	9	8	31
03			29	19	26	68	29.94	30.03	9.07	8	8	32
04			29	19	26	69	29.94	30.02	8.97	8	8	32
05			28	19	26	68	29.93	30.02	8.97	9	8	32
06			28	19	25	70	29.94	30.02	8.96	9	7	32
07			28	19	25	71	29.95	30.03	8.71	9	7	32
08			28	19	25	71	29.94	30.03	8.16	10	7	32
09			30	20	27	68	29.95	30.04	8.58	10	7	32
10			33	21	29	62	29.96	30.04	8.88	11	8	31
11			35	21	30	58	29.95	30.03	9.03	12	7	31
12			36	21	31	55	29.92	30.01	9.20	13	8	31
13			38	21	32	53	29.90	29.98	9.36	12	9	30
14			38	21	32	52	29.89	29.97	9.43	14	9	30
15			38	21	32	52	29.89	29.97	9.22	13	10	30
16			38	21	32	52	29.89	29.98	9.40	12	9	30
17			36	21	31	55	29.90	29.99	9.45	12	8	30
18			34	21	30	58	29.91	30.00	9.52	9	8	31
19			33	21	29	61	29.92	30.01	9.50	10	7	31
20			32	21	29	64	29.93	30.02	9.47	10	7	31
21			32	20	28	64	29.94	30.02	9.29	9	7	32
22			31	20	28	64	29.94	30.03	9.48	10	8	31
23			31	20	27	65	29.95	30.03	9.48	10	8	31
24			30	19	27	67	29.94	30.03	9.16	9	7	32

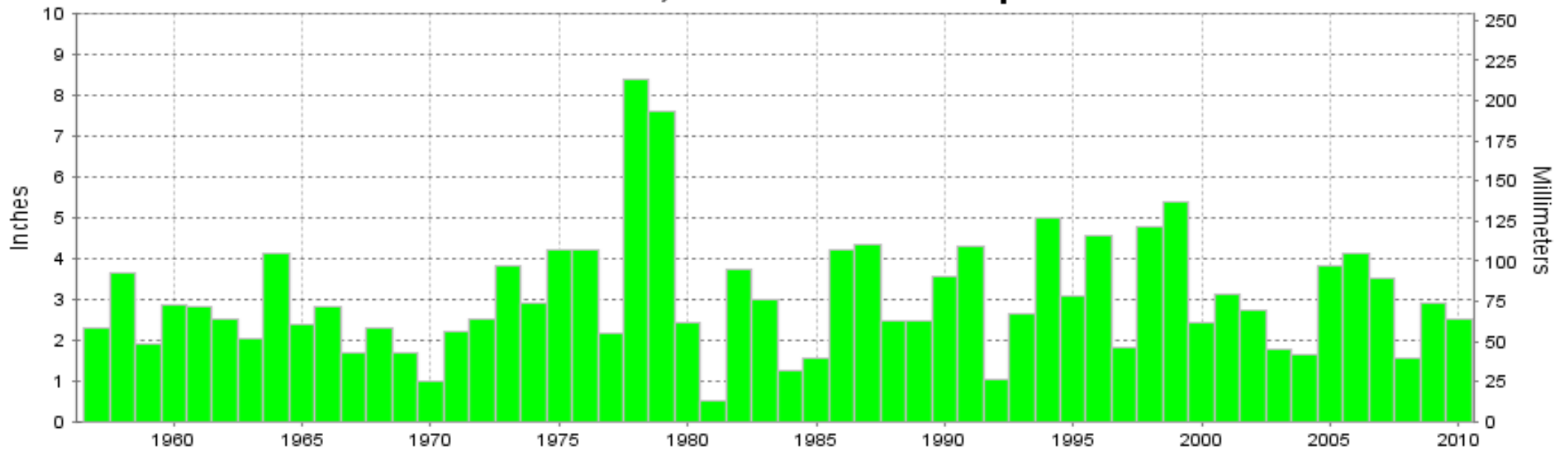
## WILMINGTON, DE JANUARY Temperatures



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

Long-Term (1957-2010) Mean: 31.6  
1971-2000 Normal: 31.5

## WILMINGTON, DE JANUARY Precipitation



Long-Term (1957-2010) Mean Monthly Total: 3.05

1971-2000 Normal: 3.43



JANUARY 2010  
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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