



# OCTOBER 2009 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					
																			3-SEC		2-MIN			
20	21	22	23	24																				
01	60	44	52	-10	41	47	13	0		0		0.0	0.00	29.96	30.04	5.4	30	6.4	24	31	18	33	01	
02	68	48	58	-3	53	57	7	0	RA	0		0.0	0.03	29.88	29.95	10.0	15	10.7	31	15	24	16	02	
03	74	58	66	5	62	63	0	1	RA FG+ MIFG BR	0		0.0	T	29.77	29.86	2.0	16	2.4	16	23	13	31	03	
04	74	51	63	2	48	54	2	0	MIFG	0		0.0	0.00	29.83	29.93	6.7	29	7.3	24	29	18	29	04	
05	69	48	59	-1	44	50	6	0		0		0.0	0.00	29.91	30.01	6.7	29	7.6	22	28	18	30	05	
06	67	43	55	-5	47	52	10	0		0		0.0	0.00	29.90	29.95	5.3	17	6.5	28	16	22	17	06	
07	72	54	63	4	47	55	2	0	RA	0		0.0	0.04	29.60	29.72	15.1	27	18.1	52*	29	38*	29	07	
08	67	47	57	-2	45	51	8	0		0		0.0	0.00	29.99	30.09	5.5	28	6.6	24	29	17	28	08	
09	79*	59	69*	11	58	63	0	4	RA	0		0.0	0.07	29.78	29.83	9.6	20	11.1	30	21	22	24	09	
10	71	47	59	1	53	57	6	0	RA BR	0		0.0	0.01	29.79	29.93	6.9	32	7.9	33	32	25	32	10	
11	65	41	53	-5	42	48	12	0		0		0.0	0.00	30.12	30.23	4.5	31	4.8	18	32	15	32	11	
12	55	44	50	-7	37	44	15	0		0		0.0	0.00	30.24	30.32	6.0	04	7.3	17	03	14	03	12	
13	68	44	56	-1	43	49	9	0		0		0.0	0.00	30.01	30.10	8.0	32	8.7	33	31	25	31	13	
14	53	38	46	-10	35	42	19	0	RA	0		0.0	T	30.14	30.21	2.6	34	3.6	16	03	13	03	14	
15	49	41	45	-11	41	43	20	0	RA BR	0		0.0	0.44	29.88	29.93	12.4	04	12.9	30	03	24	04	15	
16	45	40	43*	-13	39	41	22	0	RA BR	0		0.0	0.02	29.80	29.91	13.2	03	13.2	25	03	21	03	16	
17	46	42	44	-11	41	43	21	0	RA BR	0		0.0	1.19	29.91	30.00	14.6	03	14.8	28	03	20	03	17	
18	51	36	44	-11	39	42	21	0	RA BR	0		0.0	0.22	29.96	30.06	11.0	36	11.4	31	01	24	02	18	
19	57	35*	46	-8	33	40	19	0		0		0.0	0.00	30.09	30.19	5.6	31	6.3	18	31	14	31	19	
20	67	36	52	-2	40	46	13	0		0		0.0	0.00	30.10	30.19	3.1	25	3.2	16	25	12	24	20	
21	75	42	59	5	46	51	6	0		0		0.0	0.00	30.09	30.17	1.5	28	2.5	16	28	10	31	21	
22	73	48	61	8	49	54	4	0		0		0.0	0.00	29.94	30.02	3.6	23	4.2	13	21	10	21	22	
23	67	51	59	6	53	55	6	0	RA BR	0		0.0	0.16	29.94	30.02	8.3	09	8.7	25	10	20	11	23	
24	73	60	67	14	62	63	0	2	RA BR	0		0.0	1.66	29.67	29.74	8.2	20	13.0	44	23	33	24	24	
25	62	44	53	1	40	47	12	0		0		0.0	0.00	29.96	30.09	7.5	31	7.7	25	32	20	32	25	
26	62	41	52	0	42	47	13	0		0		0.0	0.00	30.19	30.29	4.1	07	5.9	18	07	15	07	26	
27	60	52	56	4	54	55	9	0	RA BR	0		0.0	0.66	30.01	30.07	7.6	04	8.2	20	04	14	04	27	
28	68	56	62	10	55	57	3	0	RA BR	0		0.0	1.22	29.77	29.88	5.6	36	8.3	28	30	23	30	28	
29	57	51	54	3	48	50	11	0		0		0.0	0.00	30.14	30.25	4.3	07	6.1	15	03	13	03	29	
30	58	48	53	2	49	52	12	0	BR	0		0.0	0.00	30.16	30.23	4.9	15	5.9	18	17	16	17	30	
31	71	57	64	13	59	60	1	0	RA BR	0		0.0	0.18	29.83	29.91	7.0	21	11.0	32	18	24	19	31	
64.0		46.6	55.3	Σ	46.6	50.9	9.7	0.2	< MONTHLY AVERAGES   TOTALS >			0.0	5.90	29.95	30.03	1.8	34	8.1	< MONTHLY AVERAGES					
-1.9	1.0	-0.5	<----- DEPARTURE FROM NORMAL ----->						2.82	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 1.82 DATE : 23-24				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY				SEASON TO DATE					GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.40 12 1038											
TOTAL DEPARTURE				TOTAL DEPARTURE					GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.54 07 0452											
HEATING :		302		5		335		-14		NUMBER OF ->		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 13								
COOLING :		7		-9		1031		-93		THUNDERSTORMS : 0		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 8								
												HEAVY FOG : 1		SNOWFALL >= 1.0 INCH : 0										

OCTOBER 2009  
WILMINGTON, DE

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)  
OCTOBER 2009

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	0.03	0.03		
03											T	T	03												03	T	T		
04													04												04	0.00	0.00		
05													05												05	0.00	0.00		
06													06												06	0.00	0.00		
07	T	T	T		T	0.04							07												07	0.04	0.04		
08													08												08	0.00	0.00		
09					T	T	0.07						09												09	0.07	0.07		
10	T									T	0.01	T	T	10										T	10	0.01	0.01		
11													11												11	0.00	0.00		
12													12												12	0.00	0.00		
13													13												13	0.00	0.00		
14													14												14	T	T		
15				T		T	T	T	0.05	0.03	0.07	0.10	15	0.03	0.06	0.07	0.02	0.01	T	T	T	T	T	T	15	0.44	0.44		
16	T	T	T	T	T	T	T	T	T	T	T	T	16		T	0.01	0.01							16	0.02	0.02			
17		0.01	0.05	0.01	0.02	0.10	0.28	0.14	0.05	0.05	T	0.03	17	0.01	0.01	0.02	0.01	0.02	0.05	0.06	0.07	0.11	0.05	0.04	T	17	1.19	1.19	
18	0.01	0.03	0.01	0.05	0.07	0.01	0.01	0.02	0.01	T			18												18	0.22	0.22		
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		T	T	T	T	T					0.01	0.11	0.04	23	0.16	0.16
24		0.01	0.01					T	0.04			0.11	0.12	24	0.01		0.02	0.01	0.21	0.81	0.29	0.02				24	1.66	1.66	
25													25												25	0.00	0.00		
26													26												26	0.00	0.00		
27			0.04	T	0.04	0.02	0.16	0.06	0.07	0.01		T	27		0.02	T	0.01	T	T	0.01	0.03	0.04	0.01	0.03	0.11	27	0.66	0.66	
28	0.12	0.29	0.31	0.30	0.09	0.02	0.02	0.04	0.01	0.02	T		28										T		28	1.22	1.22		
29													29												29	0.00	0.00		
30													30												30	0.00	0.00		
31	T	T	T	0.01	0.01		0.01		0.01	0.02	0.02	0.02	31	0.01	0.01	0.01			T	T	0.04	0.01		T	T	31	0.18	0.18	

\* 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	0.33	0.42	0.53	0.63	0.78	0.88	1.02	1.14	1.29	1.33	1.33
Ending Date	24	24	24	24	24	24	24	24	24	24	24	24
Ending Time (Hr/Min)	1735	1740	1745	1750	1752	1752	1751	1757	1826	1845	1908	1908

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 2009

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							10.00	10.00	
03							2.50	10.00	
04							2.00	10.00	
05							10.00	10.00	
06							9.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							9.00	10.00	
10							6.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							2.00	10.00	
16							2.50	10.00	
17							2.50	10.00	
18							6.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							7.00	10.00	
22							8.00	10.00	
23							5.00	10.00	
24							1.50	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							2.50	10.00	
28							2.50	10.00	
29							10.00	10.00	
30							4.00	10.00	
31							1.25	10.00	
MONTHLY AVGS							6.88	10.00	
<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		
0			9				18		





# OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE  
OCTOBER 2009  
KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	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	BKN	060				58	46	52	65	10	31	29.78	29.86	
04	CLR	NC				51	40	46	66	9	30	29.86	29.95	
07	CLR	NC				48	38	43	68	10	32	29.98	30.06	
10	CLR	NC				55	40	48	57	14	32	30.04	30.12	
13	CLR	NC				60	40	50	48	8	32	30.02	30.11	
16	CLR	NC				60	39	50	46	10	31	30.02	30.11	
19	CLR	NC				54	41	48	62	0	00	30.09	30.16	
22	CLR	NC				48	43	46	83	0	00	30.12	30.20	
<b>SUNRISE: 0624      OCT 26      SUNSET: 1708</b>														
01	CLR	NC				44	41	43	89	3	35	30.14	30.23	
04	CLR	NC				45	39	42	80	5	35	30.19	30.27	
07	CLR	NC				44	38	41	80	3	02	30.22	30.31	
10	CLR	NC				54	41	48	62	13	08	30.28	30.36	
13	CLR	NC				60	39	50	46	3	02	30.22	30.31	
16	CLR	NC				61	42	51	50	5	10	30.19	30.28	
19	CLR	NC				54	48	51	80	3	13	30.19	30.28	
22	CLR	NC				51	45	48	80	7	07	30.17	30.26	
<b>SUNRISE: 0625      OCT 27      SUNSET: 1707</b>														
01	OVC	065				52	46	49	80	7	06	30.14	30.21	
04	OVC	065			-RA	52	49	50	90	7	09	30.09	30.16	
07	OVC	008			+RA BR	54	52	53	93	9	02	30.04	30.13	
10	OVC	025				56	54	55	93	11	04	30.01	30.09	
13	OVC	007				59	56	57	90	10	05	29.93	30.01	
16	OVC	007			-RA BR	59	57	58	93	7	01	29.93	30.02	
19	OVC	005			-RA	57	56	56	96	9	03	29.93	30.01	
22	OVC	005			-RA	57	55	56	93	6	07	29.93	30.01	
<b>SUNRISE: 0626      OCT 28      SUNSET: 1706</b>														
01	OVC	010			RA BR	56	55	55	96	6	07	29.85	29.93	
04	OVC	004			+RA BR	56	55	55	96	8	07	29.78	29.86	
07	OVC	009			-RA BR	58	56	57	93	14	08	29.70	29.79	
10	OVC	009			-RA BR	60	59	59	97	3	35	29.70	29.79	
13	BKN	030				65	58	61	78	11	31	29.69	29.77	
16	BKN	065				65	54	59	68	9	33	29.75	29.84	
19	OVC	060				60	55	57	84	8	01	29.88	29.96	
22	OVC	025				58	51	54	78	3	02	29.96	30.04	
<b>SUNRISE: 0627      OCT 29      SUNSET: 1705</b>														
01	OVC	038				54	49	51	83	7	02	30.01	30.09	
04	OVC	014				53	48	50	83	9	03	30.06	30.15	
07	OVC	018				53	48	50	83	7	05	30.16	30.24	
10	OVC	015				54	47	50	77	8	07	30.20	30.29	
13	OVC	019				56	47	51	72	3	02	30.19	30.27	
16	BKN	055				56	48	52	75	3	09	30.19	30.27	
19	BKN	022				54	48	51	80	7	12	30.22	30.30	
22	BKN	018				51	47	49	86	8	15	30.23	30.32	
<b>SUNRISE: 0628      OCT 30      SUNSET: 1703</b>														
01	BKN	022				50	46	48	86	0	00	30.22	30.30	
04	OVC	021				48	46	47	93	3	04	30.22	30.29	
07	OVC	021				51	47	49	86	3	11	30.22	30.31	
10	OVC	027				54	48	51	80	3	19	30.22	30.31	
13	OVC	027				57	48	52	72	8	12	30.15	30.24	
16	OVC	029				58	50	54	75	10	16	30.09	30.17	
19	OVC	027				57	50	53	78	6	15	30.09	30.17	
22	OVC	023				58	54	56	87	10	16	30.04	30.13	

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)								
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	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	OVC	017				6.00				-RA	BR	57	55	56	93	5	17	29.98	30.06
04	OVC	010				4.00				-RA	BR	57	56	56	96	8	18	29.91	29.99
07	OVC	003				3.00				BR		59	58	58	97	10	18	29.88	29.97
10	OVC	005				5.00				BR		63	61	62	93	9	18	29.85	29.93
13	OVC	014				10.00						68	66	67	93	17	20	29.75	29.83
16	OVC	032				10.00						71	65	67	81	13	21	29.73	29.82
19	OVC	060				10.00						71	66	68	84	13	23	29.75	29.83
22	OVC	037				10.00						59	50	54	72	13	32	29.83	29.92

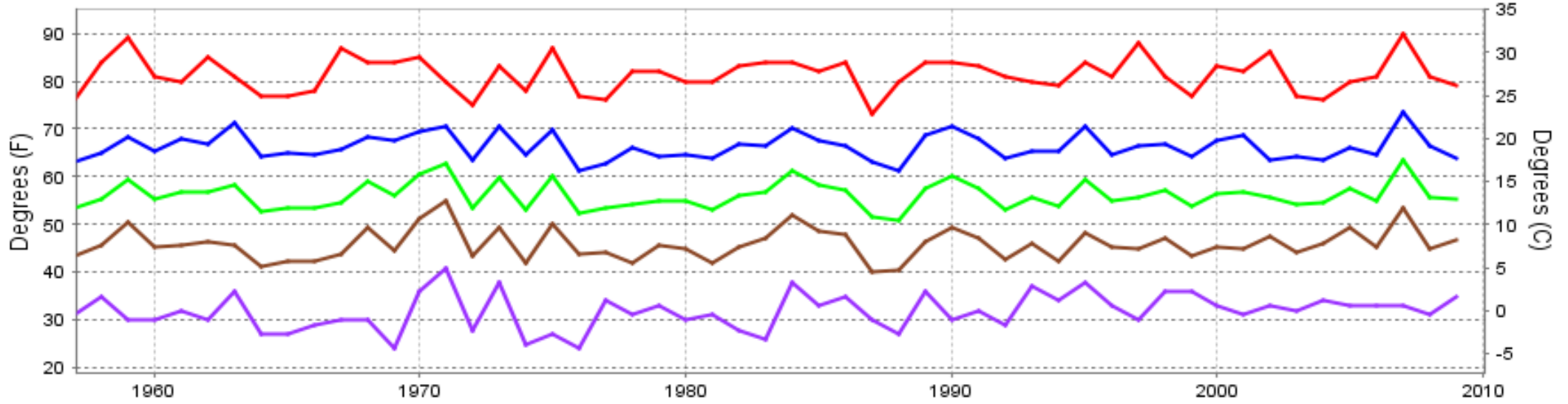
**3-HOURLY OBSERVATION NOTES**

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			51	46	49	83	29.96	30.04	9.35	5	3	36
02			51	46	48	85	29.95	30.04	9.10	5	3	35
03			50	46	48	86	29.95	30.03	9.48	6	3	35
04			50	46	48	86	29.95	30.03	8.87	6	3	01
05			50	45	48	86	29.95	30.03	9.32	7	3	36
06			50	45	48	85	29.96	30.04	9.03	6	3	36
07			51	46	48	84	29.97	30.05	8.69	7	3	01
08			53	47	50	81	29.98	30.07	9.02	7	3	01
09			56	47	51	75	29.98	30.07	9.20	9	3	01
10			58	47	52	69	29.98	30.06	9.21	10	3	33
11			60	47	53	65	29.97	30.05	9.29	11	3	34
12			61	47	54	62	29.96	30.04	9.28	11	3	32
13			62	47	54	60	29.94	30.02	9.65	11	3	32
14			62	46	54	60	29.93	30.01	9.61	12	4	31
15			62	47	54	59	29.92	30.01	9.47	11	4	31
16			61	47	54	61	29.92	30.01	9.65	11	3	32
17			60	47	53	65	29.93	30.01	9.31	9	3	33
18			58	47	53	69	29.94	30.02	9.60	9	3	34
19			57	47	52	72	29.95	30.03	9.61	8	3	01
20			56	47	51	74	29.96	30.04	9.29	8	3	36
21			54	47	51	79	29.96	30.04	9.48	8	3	35
22			54	47	50	79	29.96	30.04	9.45	7	3	36
23			53	47	50	80	29.96	30.04	9.45	7	3	35
24			52	47	49	82	29.96	30.04	9.42	6	3	34

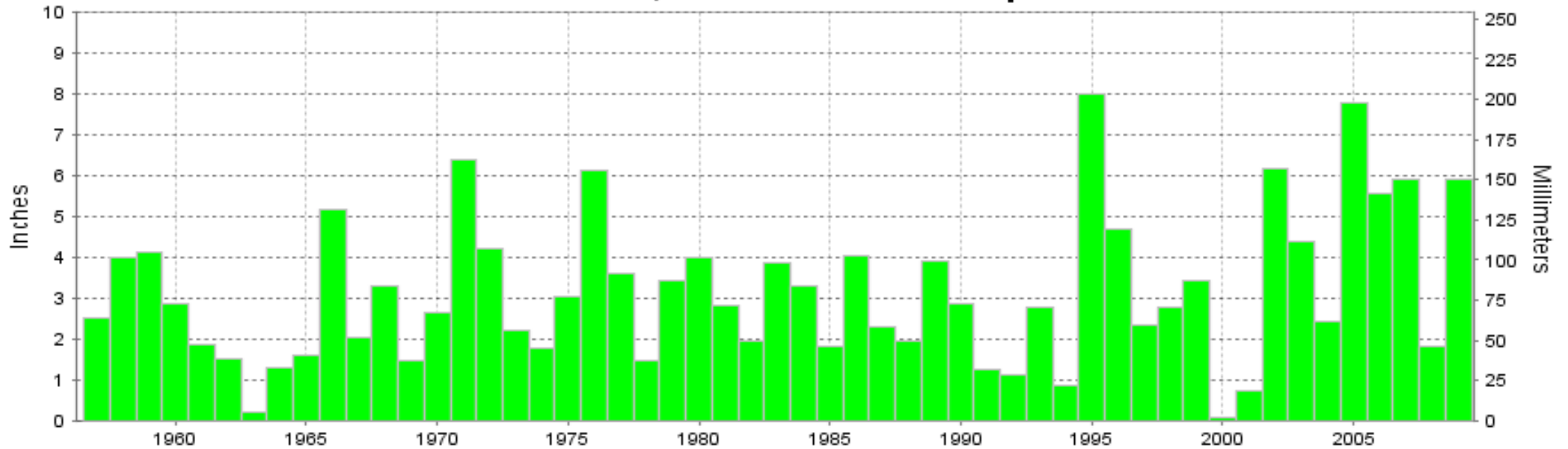
## WILMINGTON, DE OCTOBER Temperatures



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

Long-Term (1957-2009) Mean: 56.1  
1971-2000 Normal: 55.8

## WILMINGTON, DE OCTOBER Precipitation



Long-Term (1957-2009) Mean Monthly Total: 3.17

1971-2000 Normal: 3.08



OCTOBER 2009  
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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