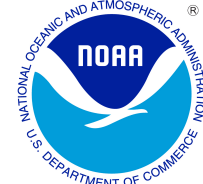




JANUARY 2007 LOCAL CLIMATOLOGICAL DATA

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



JANUARY 2007
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						
																			5-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	54	43	49	16	49	50	16	0	RA FG+ FG BR	0		0.0	1.65	29.83	29.88	1.9	21	8.5	29	14	24	14	01		
02	48	35	42	9	27	37	23	0		0		0.0	0.00	30.08	30.22	13.1	29	13.6	35	29	28	28	02		
03	53	26	40	8	30	36	25	0		0		0.0	0.00	30.27	30.36	5.2	20	5.7	23	22	18	21	03		
04	59	29	44	12	37	41	21	0	BR	0		0.0	0.00	30.11	30.18	2.7	20	3.0	16	24	14	24	04		
05	60	41	51	19	54	55	14	0	RA FG+ FG BR	0		0.0	0.16	29.88	29.95	6.9	17	7.5	16	19	14	19	05		
06	71*	52	62*	30	52	57	3	0	RA BR	0		0.0	0.01	29.70	29.82	10.7	24	13.0	32	28	29	27	06		
07	55	40	48	16	35	42	17	0	RA BR	0		0.0	0.57	30.13	30.20	3.5	02	9.3	23	29	20	31	07		
08	55	37	46	14	35	43	19	0	RA BR	0		0.0	0.74	29.65	29.75	8.9	26	11.4	37	28	30	27	08		
09	48	32	40	8	22	32	25	0	HZ	0		0.0	0.00	29.78	29.88	8.0	25	10.0	23	23	18	29	09		
10	38	27	33	1	14	27	32	0		0		0.0	0.00	30.09	30.24	15.2	28	15.4	32	27	26	28	10		
11	39	22	31	0	19	27	34	0		0		0.0	0.00	30.49	30.59	5.3	17	6.7	17	18	15	15	11		
12	50	34	42	11	32	39	23	0		0		0.0	0.00	30.31	30.38	6.6	20	7.2	18	24	16	23	12		
13	60	47	54	23	47	49	11	0	RA BR	0		0.0	0.07	30.14	30.22	3.2	22	3.8	17	22	14	22	13		
14	59	51	55	24	51	52	10	0	RA FG BR HZ	0		0.0	0.06	30.09	30.18	3.2	05	3.6	14	06	12	04	14		
15	64	47	56	25	50	52	9	0	RA FG+ FG BR HZ	0		0.0	0.07	29.88	29.93	1.8	12	7.9	29	18	22	18	15		
16	63	29	46	15	28	38	19	0	RA	0		0.0	T	29.91	30.06	15.4	30	16.1	35	29	28	29	16		
17	34	19	27	-4	8	22	38	0		0		0.0	0.00	30.54	30.67	7.1	33	9.0	32	30	26	31	17		
18	34	23	29	-2	22	28	36	0	SN BR HZ	0		0.1	0.01	30.43	30.46	1.2	08	3.6	9	10	8	10	18		
19	46	31	39	8	23	32	26	0	RA SN BR	0		T	T	29.85	29.93	13.3	28	13.8	43	29	33	29	19		
20	36	24	30	-1	10	25	35	0	SN	0		T	T	29.99	30.13	18.0	29	18.8	45	30	35	30	20		
21	29	20	25	-6	11	21	40	0	SN BR UP	0		0.3	0.04	30.28	30.35	2.8	30	5.6	18	22	16	22	21		
22	34	26	30	-1	27	29	35	0	RA FZRA SN FG+ FZFG BR HZ	T		0.1	0.06	29.87	29.93	1.0	34	4.3	9	01	9	01	22		
23	40	28	34	3	22	30	31	0	BR	0		0.0	0.00	29.82	29.93	10.1	28	10.8	26	30	22	30	23		
24	42	29	36	5	23	30	29	0	SN HZ	0		T	T	29.90	30.00	5.5	27	6.0	18	29	15	31	24		
25	39	18	29	-2	18	27	36	0	SN FZFG BR HZ	0		0.1	0.01	29.80	29.89	12.7	29	13.3	46*	29	37*	29	25		
26	27	10*	19*	-12	4	16	46	0		T		0.0	0.00	29.96	30.05	12.0	29	13.2	32	29	28	32	26		
27	50	22	36	5	19	30	29	0		0		0.0	0.00	29.75	29.80	1.7	13	5.8	13	24	12	23	27		
28	43	31	37	5	28	34	28	0	RA SN BR HZ	0		T	T	29.57	29.66	5.7	30	6.3	31	31	24	31	28		
29	32	20	26	-6	10	22	39	0	SN FZFG BR	T		0.4	0.03	29.82	29.96	15.2	29	15.4	36	30	29	29	29		
30	41	21	31	-1	15	26	34	0	SN BR	0		0.5	0.04	29.91	29.98	8.1	22	9.5	37	29	30	29	30		
31	33	22	28	-4	10	22	37	0	SN UP	0		T	T	29.97	30.09	11.7	28	13.3	31	30	28	30	31		
										< MONTHLY AVERAGES TOTALS >				1.5	3.52	29.99	30.08	5.7	27	9.4	< MONTHLY AVERAGES				
										<----- DEPARTURE FROM NORMAL ----->				0.09		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 1.65 DATE : 01				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY										GREATEST 24-HR SNOWFALL : 0.5 DATE : 30				MAXIMUM : 30.74				17 2051							
TOTAL DEPARTURE										GREATEST SNOW DEPTH : T DATE : 29+				MINIMUM : 29.60				28 1352							
SEASON TO DATE										NUMBER OF ->				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 21				PRECIPITATION >= 0.01 INCH : 14			
HEATING : 820 -209 2366 -448										MAXIMUM TEMP <= 32 : 3				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 4							
COOLING : 0 0 0 0										THUNDERSTORMS : 0				HEAVY FOG : 4				SNOWFALL >= 1.0 INCH : 0							

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)
JANUARY 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	0.08	0.06	0.06	T	0.03	0.19	0.56	0.35	0.12	T		0.03	01	0.07	0.07	0.02	T	0.01							01	1.65	1.65	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05									T	0.01	0.02	0.02	05	0.03	0.02	T				0.05	0.01			05	0.16	0.16		
06			T	0.01	T								06											06	0.01	0.01		
07													07						0.01	0.05	0.03	0.11	0.17	0.20	07	0.57	0.57	
08	0.07	0.11	0.09	0.05	T	0.05	0.10	0.10	0.05	0.02	0.08	0.02	08											08	0.74	0.74		
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13			0.02	T				T	T				13			T	T			0.02	0.02	T	0.01	T	13	0.07	0.07	
14	T	T	0.01	T		T		T	0.01				14	T	T	T	T	T		0.01	0.01	0.01	T	0.01	14	0.06	0.06	
15	0.01	T	0.01			0.01				0.01			15								0.01	0.01		0.01	15	0.07	0.07	
16		T											16												16	T	T	
17													17												17	0.00	0.00	
18													18	T	T	0.01	T								18	0.01	0.01	
19						T	T						19										T		19	T	T	
20						T	T						20												20	T	T	
21													21			0.01	0.01	T	T	T	0.01			0.01	21	0.04	0.04	
22	0.01	0.02	0.02	0.01	T								22												22	0.06	0.06	
23													23												23	0.00	0.00	
24													24								T	T	T		24	T	T	
25	T												25		T					T	T	T	T		25	T*	0.01	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28		T	T	T	T						T	28	T	T	
29	T	T	T	T									29												29	T*	0.03	
30													30				T	T	0.01	0.01	T				30	0.02*	0.04	
31				T									31												31	T	T	

* 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)	0.11	0.15	0.20	0.25	0.35	0.47	0.60	0.72	0.83	0.91	1.02	1.12
Ending Date	01	01	01	01	01	01	01	01	01	01	01	01
Ending Time (Hr/Min)	0637	0639	0637	0639	0637	0652	0705	0724	0742	0803	0832	0832

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 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							0.25	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							5.00	10.00	
05							0.25	10.00	
06							2.00	10.00	
07							3.00	10.00	
08							2.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							9.00	10.00	
12							10.00	10.00	
13							4.00	10.00	
14							0.50	4.00	
15							0.25	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							1.00	10.00	
19							4.00	10.00	
20							9.00	10.00	
21							1.50	10.00	
22							0.25	7.00	
23							5.00	10.00	
24							4.00	10.00	
25							0.50	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							1.50	10.00	
29							8.00	10.00	
30							6.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							5.39	9.71	
SUNSHINE (Minutes)									
Total :					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0			>= 7.0				
4		12			13				

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
JANUARY 2007 KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL	
														Observation Time (LST)
SUNRISE: 0721 JAN 01 SUNSET: 1647														
01	OVC	027			6.00	-RA BR	44	41	43	89	6	09	30.06	30.15
04	OVC	009			3.00	-RA BR	50	48	49	93	21	15	29.93	30.01
07	OVC	023			1.75	+RA BR	51	51	51	100	0	00	29.86	29.95
10	OVC	013			2.00	-RA BR	52	52	52	100	5	09	29.83	29.91
13	OVC	024			2.00	RA BR	54	54	54	100	0	00	29.72	29.80
16	OVC	003			1.00	-RA BR	54	54	54	100	6	26	29.69	29.77
19	OVC	060			7.00		51	50	50	96	8	30	29.70	29.78
22	OVC	090			6.00	BR	49	45	47	86	11	28	29.75	29.83
SUNRISE: 0721 JAN 02 SUNSET: 1648														
01	BKN	036			10.00		46	37	42	71	14	28	29.82	29.90
04	CLR	NC			10.00		40	31	36	70	15	29	29.91	30.00
07	CLR	NC			10.00		41	31	37	68	17	29	30.02	30.11
10	CLR	NC			10.00		44	28	38	53	18	31	30.14	30.23
13	CLR	NC			10.00		47	24	38	41	20	30	30.17	30.26
16	CLR	NC			10.00		47	24	38	41	16	29	30.23	30.32
19	CLR	NC			10.00		42	24	35	49	6	26	30.30	30.38
22	CLR	NC			10.00		36	24	32	62	5	24	30.33	30.42
SUNRISE: 0721 JAN 03 SUNSET: 1648														
01	CLR	NC			10.00		33	26	30	75	0	00	30.31	30.40
04	CLR	NC			10.00		30	26	29	85	0	00	30.35	30.43
07	CLR	NC			10.00		30	25	28	82	3	23	30.35	30.43
10	CLR	NC			10.00		37	30	34	76	6	18	30.35	30.44
13	CLR	NC			10.00		52	34	44	50	16	21	30.24	30.33
16	CLR	NC			10.00		51	33	43	50	13	22	30.22	30.29
19	CLR	NC			10.00		43	32	38	65	6	18	30.22	30.31
22	CLR	NC			10.00		39	32	36	76	6	18	30.22	30.30
SUNRISE: 0721 JAN 04 SUNSET: 1649														
01	CLR	NC			10.00		34	31	33	89	0	00	30.16	30.25
04	CLR	NC			10.00		31	30	31	96	0	00	30.16	30.24
07	CLR	NC			9.00		32	29	31	89	0	00	30.14	30.22
10	CLR	NC			10.00		44	39	42	83	3	24	30.14	30.23
13	CLR	NC			10.00		56	41	49	57	10	20	30.09	30.16
16	CLR	NC			10.00		57	39	48	51	7	19	30.06	30.14
19	CLR	NC			10.00		51	41	46	69	0	00	30.06	30.15
22	CLR	NC			9.00		44	40	42	86	0	00	30.02	30.11
SUNRISE: 0721 JAN 05 SUNSET: 1650														
01	CLR	NC			7.00		43	41	42	93	3	13	29.96	30.03
04	FEW	041			10.00		50	48	49	93	8	15	29.93	30.01
07	FEW	120			10.00		56	52	54	87	9	19	29.91	30.00
10	BKN	075			10.00	-RA	58	55	56	90	9	20	29.93	30.02
13	OVC	005			2.00	-RA BR	59	58	58	97	5	18	29.85	29.93
16	OVC	001			0.50	BR	57	56	56	96	3	13	29.83	29.91
19	OVC	003			2.50	BR	60	59	59	97	9	18	29.83	29.91
22	OVC	009			0.50	FG	56	56	56	100	7	14	29.78	29.86
SUNRISE: 0721 JAN 06 SUNSET: 1651														
01	OVC	011			2.00	BR	58	58	58	100	8	15	29.72	29.80
04	OVC	050			8.00	-RA	64	62	63	93	10	19	29.67	29.74
07	FEW	120			10.00		64	61	62	90	9	21	29.64	29.72
10	SCT	011			10.00		65	60	62	84	15	23	29.67	29.75
13	CLR	NC			10.00		71	49	59	46	26	27	29.64	29.71
16	FEW	065			10.00		68	44	55	42	18	26	29.72	29.80
19	CLR	NC			10.00		62	42	52	48	15	25	29.83	29.91
22	BKN	080			10.00		57	42	50	57	10	28	29.94	30.03
SUNRISE: 0721 JAN 07 SUNSET: 1652														
01	CLR	NC			10.00		53	38	46	57	13	29	30.04	30.12
04	CLR	NC			10.00		48	34	42	59	15	32	30.14	30.22
07	CLR	NC			10.00		44	32	39	63	8	33	30.22	30.31
10	CLR	NC			10.00		49	32	42	52	9	36	30.28	30.36
13	CLR	NC			10.00		49	30	41	48	0	00	30.22	30.30
16	CLR	NC			10.00		48	35	42	61	13	15	30.12	30.21
19	OVC	100			10.00	-RA	46	39	43	77	11	09	30.07	30.15
22	OVC	026			4.00	-RA BR	44	42	43	93	9	05	29.93	30.02
SUNRISE: 0721 JAN 08 SUNSET: 1653														
01	OVC	008			4.00	RA BR	45	44	45	96	7	02	29.75	29.83
04	OVC	080			4.00	BR	48	47	48	96	5	09	29.62	29.71
07	OVC	024			5.00	RA BR	51	50	50	96	6	19	29.54	29.63
10	OVC	012			10.00	-RA	55	52	53	90	15	24	29.54	29.63
13	SCT	085			10.00		50	37	44	61	16	27	29.57	29.65
16	CLR	NC			10.00		49	19	38	30	16	26	29.65	29.72
19	CLR	NC			10.00		41	21	34	45	11	28	29.78	29.86
22	CLR	NC			10.00		40	16	32	38	14	26	29.83	29.91
SUNRISE: 0721 JAN 09 SUNSET: 1654														
01	CLR	NC			10.00		36	16	29	44	9	25	29.83	29.91
04	CLR	NC			10.00		34	16	28	48	10	23	29.83	29.91
07	CLR	NC			10.00		33	18	28	54	6	22	29.83	29.91
10	BKN	080			10.00		38	22	32	53	9	19	29.83	29.91
13					10.00		46	24	37	42	11	23	29.72	29.80
16					10.00		45	24	37	44	11	25	29.72	29.81
19	CLR	NC			10.00		36	25	32	64	7	29	29.78	29.87
22	CLR	NC			10.00		37	27	33	67	14	29	29.83	29.92
SUNRISE: 0720 JAN 10 SUNSET: 1655														
01	FEW	060			10.00		36	15	29	42	15	30	29.88	29.96
04	CLR	NC			10.00		34	17	28	50	15	28	29.91	30.00
07	CLR	NC			10.00		31	19	27	61	13	28	30.03	30.12
10	FEW	050			10.00		34	14	28	44	22	28	30.14	30.23
13	OVC	060			10.00		37	11	29	34	21	29	30.15	30.24
16	BKN	060			10.00		35	10	27	35	25	28	30.22	30.32
19	CLR	NC			10.00		31	11	25	43	10	28	30.33	30.42
22	CLR	NC			10.00		28	12	23	51	7	29	30.40	30.49
SUNRISE: 0720 JAN 11 SUNSET: 1656														
01	CLR	NC			10.00		26	13	22	58	5	28	30.42	30.51
04	CLR	NC			10.00		25	14	22	63	3	26	30.48	30.57
07	CLR	NC			10.00		23	15	21	71	0	00	30.55	30.64
10	CLR	NC			10.00		32	17	27	54	3	14	30.59	30.68
13	CLR	NC			10.00		37	19	31	48	9	15	30.53	30.62
16	CLR	NC			10.00		38	23	33	55	11	15	30.49	30.58
19	CLR	NC			10.00		35	24	31	64	9	17	30.47	30.56
22	CLR	NC			10.00		35	20	30	54	8	17	30.45	30.54
SUNRISE: 0720 JAN 12 SUNSET: 1657														
01	CLR	NC			10.00		36	26	32	67	10	17	30.39	30.48
04	CLR	NC			10.00		37	30	34	76	9	17	30.33	30.42
07	CLR	NC			10.00		39	30	35	70	5	18	30.32	30.41
10	OVC	060			10.00		45	29	38	54	8	22	30.35	30.43
13	OVC	048			10.00		48	28	40	46	10	23	30.28	30.37
16	FEW	100			10.00		49	30	41	48	6	21	30.27	30.35
19	OVC	085			10.00		49	38	44	66	8	22	30.27	30.35
22	OVC	095			10.00		48	41	45	77	5	22	30.25	30.33

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
JANUARY 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						
SUNRISE: 0720						JAN 13						SUNSET: 1658						SUNRISE: 0717						JAN 19						SUNSET: 1705					
01	OVC	095			10.00		47	42	45	83	3	17	30.19	30.27	01	OVC	060			6.00	BR		33	30	32	89	5	23	29.96	30.03					
04	OVC	090			8.00		48	44	46	86	0	00	30.15	30.24	04	OVC	041			6.00	BR		34	30	32	85	5	27	29.86	29.95					
07	OVC	080			8.00		48	44	46	86	0	00	30.14	30.23	07	SCT	060			5.00	BR		33	29	31	85	3	22	29.80	29.89					
10	BKN	100			10.00		53	47	50	80	5	22	30.14	30.22	10	SCT	055			10.00			40	29	36	65	18	28	29.82	29.90					
13	BKN	060			10.00		57	48	52	72	9	23	30.10	30.19	13	SCT	055			10.00			45	20	36	37	25	29	29.80	29.88					
16	FEW	049			10.00	-RA	58	49	53	72	5	22	30.09	30.18	16	FEW	048			10.00			42	21	34	43	23	30	29.80	29.89					
19	OVC	065			10.00		55	48	51	77	0	00	30.15	30.23	19	BKN	070			10.00			37	19	31	48	17	29	29.88	29.97					
22	OVC	049			5.00	BR	52	50	51	93	0	00	30.15	30.24	22	BKN	060			10.00			34	16	28	48	10	26	29.91	30.00					
SUNRISE: 0719						JAN 14						SUNRISE: 0717						JAN 20						SUNSET: 1706											
01	OVC	055			4.00	BR	52	50	51	93	6	04	30.11	30.20	01	BKN	060			10.00			32	15	27	49	9	21	29.86	29.96					
04	OVC	055			2.50	-RA BR	52	50	51	93	0	00	30.11	30.19	04	OVC	065			10.00			33	15	27	48	14	27	29.86	29.96					
07	OVC	060			1.50	BR	52	51	51	96	3	09	30.12	30.21	07	OVC	075			9.00			29	14	24	53	21	29	29.94	30.03					
10	OVC	001			0.50	FG	52	51	51	96	3	05	30.14	30.22	10	CLR	NC			10.00			31	7	24	36	24	30	30.01	30.09					
13	OVC	003			2.00	BR	54	52	53	93	0	00	30.09	30.16	13	FEW	060			10.00			34	8	26	34	31	29	30.02	30.11					
16	OVC	090			2.50	HZ	58	53	55	84	3	36	30.06	30.14	16	CLR	NC			10.00			34	9	27	35	31	29	30.06	30.15					
19	OVC	100			4.00	BR	55	53	54	93	0	00	30.09	30.16	19	CLR	NC			10.00			31	10	25	41	18	30	30.17	30.27					
22	OVC	050			3.00	-RA BR	52	50	51	93	10	05	30.07	30.16	22	CLR	NC			10.00			28	7	22	41	16	32	30.23	30.32					
SUNRISE: 0719						JAN 15						SUNRISE: 0716						JAN 21						SUNSET: 1707											
01	OVC	004			3.00	BR	50	48	49	93	11	05	30.02	30.11	01	CLR	NC			10.00			24	5	19	44	8	31	30.29	30.38					
04	VV	001			0.25	FG	48	46	47	93	13	04	29.98	30.07	04	CLR	NC			10.00			23	6	19	48	10	31	30.33	30.42					
07	VV	001			0.50	FG	47	46	47	96	7	06	29.96	30.04	07	CLR	NC			10.00			23	6	19	48	9	31	30.36	30.45					
10	VV	001			0.25	FG	48	47	48	96	6	03	29.91	30.00	10	CLR	NC			10.00			25	6	20	44	7	33	30.36	30.45					
13	BKN	100			5.00	BR	54	50	52	86	0	00	29.80	29.89	13	CLR	NC			10.00			27	6	21	41	0	00	30.28	30.37					
16	SCT	085			10.00		63	53	57	70	9	20	29.75	29.83	16	CLR	NC			10.00			29	7	23	39	9	18	30.22	30.30					
19	OVC	065			10.00		63	54	58	73	9	21	29.78	29.86	19	OVC	055			10.00			24	19	22	81	0	00	30.19	30.29					
22	FEW	075			10.00		64	54	58	70	16	18	29.65	29.74	22	OVC	011			5.00	BR		25	21	24	85	5	10	30.11	30.21					
SUNRISE: 0719						JAN 16						SUNRISE: 0715						JAN 22						SUNSET: 1708											
01	OVC	085			10.00		62	54	58	75	13	22	29.69	29.76	01	OVC	014			2.00	-SN BR		26	23	25	88	7	10	30.03	30.12					
04	OVC	047			10.00		57	43	50	60	13	30	29.73	29.82	04	OVC	014			3.00	BR		27	24	26	88	6	04	29.96	30.04					
07	OVC	095			10.00		50	36	44	59	17	31	29.85	29.93	07	OVC	003			5.00	BR		28	26	27	92	5	03	29.90	29.98					
10	CLR	NC			10.00		45	28	38	51	14	30	29.93	30.02	10	OVC	003			0.50	FZFG		30	27	29	89	0	00	29.88	29.96					
13	CLR	NC			10.00		45	27	38	49	16	30	29.96	30.03	13	OVC	005			6.00	BR		32	29	31	89	5	30	29.82	29.90					
16	FEW	048			10.00		41	20	33	43	18	28	30.03	30.11	16	OVC	011			4.00	HZ		34	29	32	82	5	27	29.78	29.86					
19	SCT	055			10.00		36	19	30	50	16	32	30.15	30.24	19	OVC	060			6.00	BR		33	29	31	85	6	26	29.77	29.85					
22	SCT	050			10.00		33	16	28	50	11	33	30.24	30.33	22	OVC	038			6.00	BR		33	30	32	89	6	27	29.75	29.84					
SUNRISE: 0718						JAN 17						SUNRISE: 0715						JAN 23						SUNSET: 1709											
01	CLR	NC			10.00		28	8	22	43	17	32	30.36	30.45	01	OVC	085			5.00	BR		33	30	32	89	6	26	29.75	29.84					
04	CLR	NC			10.00		24	2	19	38	17	32	30.46	30.55	04	OVC	085			7.00			34	29	32	82	7	29	29.75	29.84					
07	CLR	NC			10.00		20	4	16	50	8	33	30.56	30.65	07	OVC	031			8.00			34	27	31	76	9	30	29.83	29.92					
10	CLR	NC			10.00		27	7	22	43	15	34	30.64	30.73	10	BKN	055			10.00			35	18	29	50	16	30	29.88	29.97					
13	CLR	NC			10.00		31	8	24	38	5	VR	30.61	30.70	13	OVC	046			10.00			36	22	31	57	15	29	29.85	29.94					
16	CLR	NC			10.00		32	9	25	38	3	23	30.61	30.70	16	OVC	050			10.00			38	18	31	44	13	27	29.83	29.92					
19	CLR	NC			10.00		29	12	24	49	3	34	30.65	30.74	19	OVC	050			10.00			35	19	30	52	7	24	29.86	29.95					
22	CLR	NC			10.00		27	15	23	61	3	08	30.64	30.73	22	CLR	NC			10.00			31	20	27	64	8	27	29.88	29.98					
SUNRISE: 0718						JAN 18						SUNRISE: 0714						JAN 24						SUNSET: 1711											
01	CLR	NC			10.00		28	14	24	56	7	13	30.61	30.70	01	CLR	NC			10.00			31	20	27	64	5	23	29.91	29.99					
04	CLR	NC			10.00		25	17	23	72	0	00	30.59	30.68	04	CLR	NC			9.00			30	22	27	72	3	27	29.91	30.00					
07	CLR	NC			10.00		25	17	23	72	3	04	30.55	30.64	07	BKN	055			10.00			31	22	28	69	6	25	29.93	30.02					
10	FEW	047			10.00		31	16	26	54	5	09	30.51	30.60	10	OVC	060			9.00			36	23	31	59	11	28	29.98	30.07					
13	OVC	020			3.00	SN	33	20	29	59	0	00	30.38	30.47	13	BKN	050			10.00			39	21	32	48	11	30	29.90	29.98					
16	OVC	029			3.00	HZ	33	28	31	82	5	36	30.28	30.37	16	OVC	060			9.00			39	23	33	53	10	28	29.91	29.99					
19	OVC	017			10.00		34	28	32	79	0	00	30.20	30.29	19	BKN	065			8.00			35	24	31	64	0	00	29.90	29.98					
22	OVC	004			4.00	BR	34	31	33	89	0	00	30.09	30.17	22	OVC	055			6.00	HZ		34	25	31	70	0	00	29.88	29.97					

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
JANUARY 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)							
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL					
SUNRISE: 0713						JAN 25						SUNSET: 1712					
01	OVC	070			6.00	HZ	34	27	31	76	0	00	29.85	29.94			
04	OVC	070			5.00	HZ	32	27	30	82	3	24	29.83	29.92			
07	OVC	045			10.00		32	23	29	69	7	26	29.83	29.92			
10	FEW	070			10.00		34	19	29	54	15	30	29.82	29.90			
13	OVC	050			10.00		34	19	29	54	21	30	29.75	29.84			
16	BKN	055			10.00		32	14	26	47	18	29	29.73	29.82			
19	OVC	065			10.00		29	14	24	53	7	30	29.77	29.85			
22	BKN	040			0.50	SN	23	16	21	74	28	32	29.83	29.92			
SUNRISE: 0713						JAN 26						SUNSET: 1713					
01	CLR	NC			10.00		17	3	14	54	18	31	29.93	30.01			
04	CLR	NC			10.00		13	-4	10	46	14	30	29.98	30.06			
07	CLR	NC			10.00		10	-3	8	55	8	29	30.01	30.10			
10	CLR	NC			10.00		18	2	14	49	15	28	30.02	30.11			
13	FEW	050			10.00		24	4	19	42	18	27	29.96	30.05			
16	CLR	NC			10.00		27	5	21	39	24	29	29.93	30.01			
19	OVC	085			10.00		25	10	21	53	8	29	29.96	30.04			
22	OVC	050			10.00		26	12	22	55	6	36	29.96	30.04			
SUNRISE: 0712						JAN 27						SUNSET: 1714					
01	OVC	060			10.00		25	12	21	58	8	11	29.91	29.98			
04	FEW	065			10.00		23	12	20	63	7	13	29.85	29.93			
07	CLR	NC			10.00		23	12	20	63	5	08	29.78	29.88			
10	CLR	NC			10.00		30	18	26	61	5	18	29.73	29.82			
13	FEW	055			10.00		45	22	36	40	7	25	29.65	29.75			
16	CLR	NC			10.00		49	24	39	38	7	21	29.62	29.70			
19	OVC	070			10.00		43	24	36	47	3	36	29.65	29.74			
22	OVC	080			10.00		41	26	35	55	6	04	29.64	29.72			
SUNRISE: 0711						JAN 28						SUNSET: 1715					
01	OVC	090			10.00		40	28	35	62	5	03	29.61	29.68			
04	OVC	065			10.00		39	29	35	67	5	26	29.62	29.70			
07	OVC	065			10.00		39	28	35	65	3	30	29.62	29.70			
10	OVC	070			10.00		41	30	37	65	3	20	29.62	29.70			
13	BKN	060			10.00		42	24	35	49	3	32	29.56	29.64			
16	BKN	027			6.00	HZ	37	29	34	73	8	27	29.54	29.62			
19	OVC	080			5.00	BR	34	31	33	89	6	25	29.56	29.64			
22	OVC	090			10.00		34	26	31	73	13	30	29.57	29.65			
SUNRISE: 0710						JAN 29						SUNSET: 1716					
01	OVC	034			9.00	-SN	32	24	29	72	16	30	29.59	29.67			
04	OVC	110			10.00		27	15	23	61	21	29	29.70	29.79			
07	CLR	NC			10.00		23	9	19	55	17	30	29.83	29.92			
10	CLR	NC			10.00		26	10	21	51	18	29	29.93	30.01			
13	FEW	055			10.00		30	7	24	38	24	29	29.91	30.00			
16	FEW	055			10.00		30	5	23	34	17	27	29.93	30.01			
19	CLR	NC			10.00		25	5	20	42	9	29	29.98	30.06			
22	BKN	100			10.00		24	6	19	46	5	26	29.99	30.08			
SUNRISE: 0709						JAN 30						SUNSET: 1718					
01	CLR	NC			10.00		22	6	18	50	5	21	30.01	30.09			
04	OVC	090			10.00		23	9	19	55	3	23	29.98	30.07			
07	BKN	080			10.00		23	12	20	63	6	19	29.98	30.07			
10	CLR	NC			10.00		31	13	25	47	10	20	29.96	30.06			
13	FEW	100			10.00		39	14	31	36	13	20	29.85	29.94			
16	CLR	NC			10.00		40	16	32	38	17	21	29.78	29.86			
19	OVC	070			10.00		34	25	31	70	7	22	29.80	29.89			
22	OVC	110			7.00		32	29	31	89	10	26	29.82	29.90			

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 Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL					
SUNRISE: 0708						JAN 31						SUNSET: 1719					
01	CLR	NC			10.00		26	10	21	51	15	28	29.85	29.93			
04	OVC	075			10.00		25	11	21	55	24	30	29.88	29.96			
07	CLR	NC			10.00		23	10	19	57	20	30	29.96	30.04			
10	CLR	NC			10.00		27	10	22	49	21	30	30.04	30.14			
13	CLR	NC			10.00		32	9	25	38	17	29	30.04	30.14			
16	CLR	NC			10.00		33	8	26	35	14	24	30.06	30.14			
19	CLR	NC			10.00		28	8	22	43	6	24	30.06	30.15			
22	CLR	NC			10.00		26	10	21	51	3	19	30.07	30.16			

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.

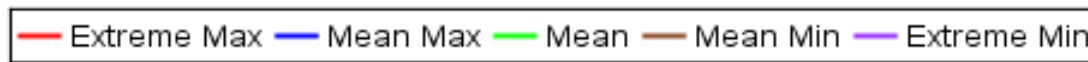
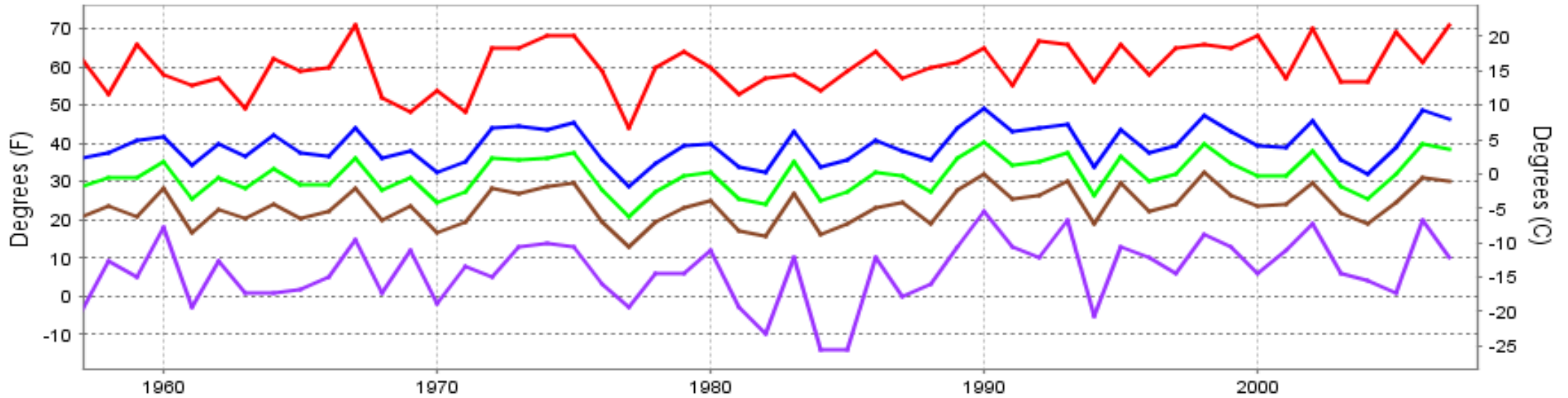
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

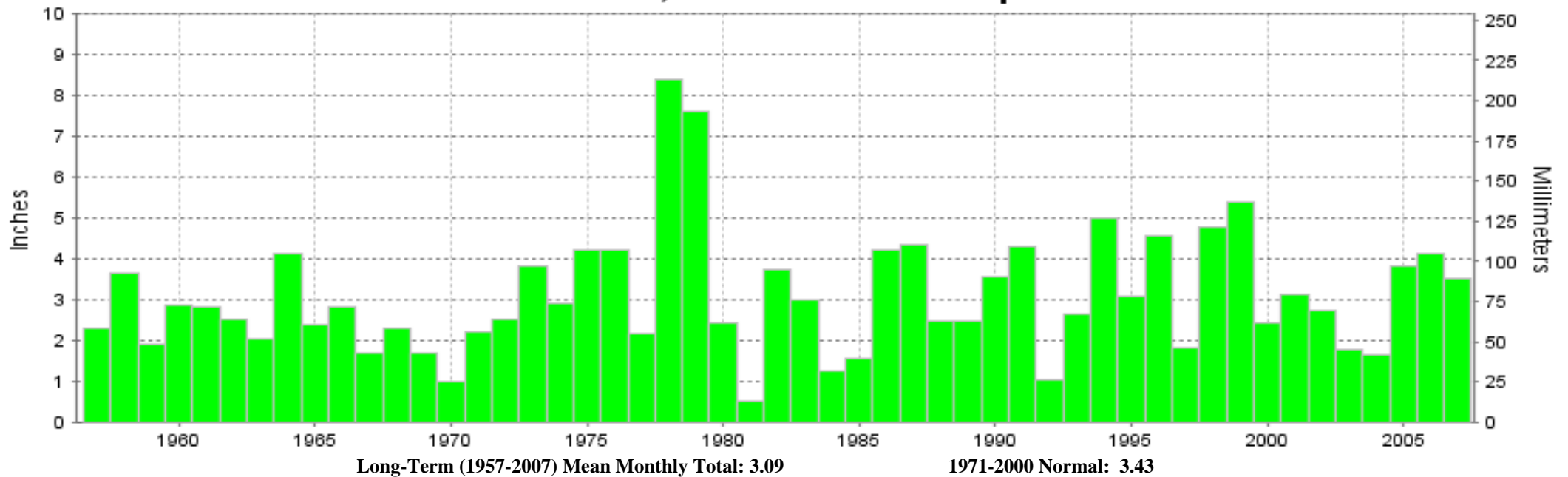
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			37	27	33	70	30.00	30.08	8.19	8	3	29
02			36	27	33	70	29.99	30.08	8.28	9	5	29
03			36	27	33	71	30.00	30.09	8.30	9	5	28
04			36	27	33	71	29.99	30.08	8.25	9	5	28
05			35	27	33	72	29.99	30.08	8.40	9	4	29
06			35	26	32	72	30.00	30.09	8.42	9	5	28
07			35	27	32	72	30.01	30.10	8.48	8	5	28
08			35	26	32	71	30.02	30.11	8.31	8	5	28
09			37	27	34	67	30.03	30.11	8.49	9	6	28
10			39	27	35	64	30.04	30.12	8.78	11	7	28
11			41	27	36	60	30.03	30.12	8.82	12	8	28
12			42	27	37	57	30.01	30.09	8.63	11	9	28
13			43	26	37	54	29.98	30.07	8.71	12	12	28
14			44	26	38	52	29.97	30.05	8.80	12	9	28
15			44	27	37	53	29.97	30.05	8.60	11	9	28
16			43	26	37	53	29.98	30.06	8.58	12	9	28
17			42	27	36	57	29.98	30.07	8.66	10	8	28
18			41	27	36	61	30.00	30.08	8.84	8	7	28
19			40	28	35	64	30.01	30.09	9.11	7	6	28
20			39	27	35	65	30.01	30.09	8.69	8	6	28
21			38	28	35	67	30.01	30.10	8.59	8	5	28
22			38	28	34	69	30.01	30.09	7.94	8	4	29
23			37	27	34	68	30.01	30.09	8.46	9	4	28
24			36	27	33	69	30.00	30.09	7.84	9	4	29

WILMINGTON, DE JANUARY Temperatures



Long-Term (1957-2007) Mean: 31.6
1971-2000 Normal: 31.5

WILMINGTON, DE JANUARY Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.09

1971-2000 Normal: 3.43



**JANUARY 2007
WILMINGTON, DE**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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