



DECEMBER 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	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date								
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM													
																			3-SEC		2-MIN											
																			SPEED	DIR	SPEED	DIR										
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	52	34	43	2	28	37	22	0		0		0.0	0.00	29.91	30.03	6.2	26	7.7	24	29	18	30	01									
02	58	32	45	5	42	44	20	0	RA BR	0		0.0	0.69	29.98	30.01	6.7	14	7.7	43	14	33	13	02									
03	68*	45	57*	17	45	51	8	0	RA BR	0		0.0	0.25	29.53	29.65	10.6	25	14.5	44	24	33	24	03									
04	51	34	43	3	33	39	22	0		0		0.0	0.00	30.02	30.13	3.6	27	4.4	15	29	12	29	04									
05	43	33	38	-1	32	35	27	0	RA SN BR	0		1.0	0.49	29.93	30.01	9.4	35	11.3	23	35	18	33	05									
06	38	28	33	-6	24	30	32	0		0		0.0	0.00	30.16	30.29	7.7	30	8.1	23	33	18	31	06									
07	42	27	35	-4	27	32	30	0	BR HZ	0		0.0	0.00	30.19	30.28	3.1	24	3.9	17	31	15	31	07									
08	44	33	39	0	27	34	26	0	RA	0		0.0	0.02	30.22	30.30	1.3	05	5.0	17	32	14	32	08									
09	56	37	47	9	44	46	18	0	RA BR	0		0.0	2.28	29.47	29.49	4.1	22	12.3	39	22	28	22	09									
10	47	27	37	-1	17	30	28	0		0		0.0	0.00	29.59	29.74	18.4	28	18.5	45	29	33	29	10									
11	34	22	28	-10	5	21	37	0		0		0.0	0.00	30.11	30.24	12.9	28	13.6	38	28	29	29	11									
12	42	27	35	-2	11	26	30	0		0		0.0	0.00	30.42	30.53	5.9	26	7.8	23	29	17	28	12									
13	51	28	40	3	33	37	25	0	RA FG BR	0		0.0	1.18	30.09	30.14	2.0	26	6.1	22	29	18	29	13									
14	49	37	43	6	36	40	22	0		0		0.0	0.00	29.98	30.06	2.9	19	5.4	15	19	12	19	14									
15	54	40	47	11	40	44	18	0	BR	0		0.0	0.00	29.87	29.98	7.4	29	8.8	36	30	28	30	15									
16	40	27	34	-2	17	28	31	0		0		0.0	0.00	30.16	30.28	13.6	31	13.8	31	29	24	30	16									
17	35	24	30	-6	13	24	35	0		0		0.0	0.00	30.24	30.34	10.0	30	10.6	31	32	24	31	17									
18	32	20	26	-10	11	23	39	0	SN	0		T	T	30.14	30.20	3.9	04	4.8	14	07	10	05	18									
19	31	23	27	-8	21	24	38	0	SN FG+ FZFG BR	3		17.0	1.40	29.67	29.72	15.8	02	17.1	36	03	26	02	19									
20	32	24	28	-7	16	24	37	0	SN BR UP	13		T	T	29.72	29.85	12.3	31	13.0	35	31	30	32	20									
21	36	23	30	-5	19	26	35	0		12		0.0	0.00	29.93	30.03	10.4	28	10.8	30	29	24	29	21									
22	37	25	31	-4	22	29	34	0		10		0.0	0.00	30.06	30.17	9.5	28	9.8	29	32	23	31	22									
23	29	18	24*	-10	12	21	41	0		8		0.0	0.00	30.16	30.27	7.5	30	8.0	25	29	21	29	23									
24	38	18	28	-6	18	24	37	0		8		0.0	0.00	30.28	30.38	2.2	32	3.5	13	01	10	02	24									
25	41	23	32	-2	33	35	33	0	RA BR	7		0.0	0.35	30.22	30.28	9.3	05	10.0	25	06	20	06	25									
26	53	40	47	13	48	48	18	0	RA FG+ BR	T		0.0	1.56	29.89	29.97	11.2	08	13.1	32	07	23	08	26									
27	50	31	41	7	29	37	24	0	BR	0		0.0	0.00	29.83	29.92	6.8	28	7.2	24	30	20	29	27									
28	39	30	35	2	20	29	30	0		0		0.0	0.00	29.67	29.76	12.2	28	13.1	33	27	28	28	28									
29	32	18	25	-8	6	22	40	0		0		0.0	0.00	29.98	30.14	19.2	31	19.8	47*	31	36*	32	29									
30	31	18*	25	-8	12	21	40	0		0		0.0	0.00	30.37	30.44	4.2	23	5.8	14	29	12	30	30									
31	34	29	32	-1	29	31	33	0	RA SN BR UP	0		1.7	0.36	30.09	30.15	1.9	16	2.3	12	17	10	17	31									
42.5										28.2	35.4	☼	24.8	32.0	29.4	0.0	< MONTHLY AVERAGES		TOTALS >			19.7	8.58	30.00	30.09	5.1	30	9.6	< MONTHLY AVERAGES			
-1.9										-0.2	-1.0		<----- DEPARTURE FROM NORMAL ----->										5.18	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3								
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 2.30 DATE : 08-09															SEA LEVEL PRESSURE DATE TIME								
MONTHLY									GREATEST 24-HR SNOWFALL : 17.0 DATE : 19															MAXIMUM : 30.59 12 0951								
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 13 DATE : 20															MINIMUM : 29.22 09 1551								
TOTAL DEPARTURE																																
HEATING : 910 38 1698 -87									NUMBER OF ->				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 22				PRECIPITATION >= 0.01 INCH: 10											
COOLING : 0 0 1031 -94													MAXIMUM TEMP <= 32 : 6				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 9											
													THUNDERSTORMS : 0				HEAVY FOG : 2				SNOWFALL >= 1.0 INCH : 3											

DECEMBER 2009
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)
DECEMBER 2009

WBAN # 13781

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water Equiv.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
01 02 03 04 05	0.03	0.14	0.06	0.01	0.01	T							01 02 03 04 05	0.09	0.05	0.07	0.05	0.07	0.02	0.02	0.01	0.06	0.08	0.10	0.12	0.15	01 02 03 04 05	0.00 0.69 0.25 0.00 0.49	0.00 0.69 0.25 0.00 0.49																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
06 07 08 09 10							T	T	T																																	06 07 08 09 10	0.00 0.00 0.02 2.28 0.00	0.00 0.00 0.02 2.28 0.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
11 12 13 14 15																																												11 12 13 14 15	0.00 0.00 1.18 0.00 0.00	0.00 0.00 1.18 0.00 0.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
16 17 18 19 20																																													16 17 18 19 20	0.00 0.00 0.00* 0.43* T	0.00 0.00 T 1.40 T																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
21 22 23 24 25																																													21 22 23 24 25	0.00 0.00 0.00 0.00 0.35	0.00 0.00 0.00 0.00 0.35																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
26 27 28 29 30 31	0.09	0.06	0.05	0.05	0.06	0.09	0.05	0.03	0.09	0.06	0.09	0.12	26 27 28 29 30 31	0.03	0.04	0.08	0.06	0.19	0.23	0.06	0.02	T	0.01					26 27 28 29 30 31	1.56 0.00 0.00 0.00 0.00 0.00	1.56 0.00 0.00 0.00 0.00 0.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hr/Min)												

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

Date and time are not entered for TRACE amounts.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one).

T = Trace precipitation amount.

+ = also occurs on earlier date.

FG+ = Heavy fog, visibility .25 miles or less.

BLANK entries denote missing or unreported data.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971-2000

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing			PO Well-Developed Dust/Sand Whirls
MI Shallow	IC Ice Crystals	FU Smoke	
PR Partial	PL Ice Pellets	HZ Haze	
SH Shower(s)	RA Rain	PY Spray	SQ Squalls
TS Thunderstorm	SG Snow Grains		SS Sandstorm
VC In the Vicinity	SN Snow	SA Sand	
	UP Unkown Precipitation	VA Volcanic Ash	GL Glaze
Intensity (as indicated on pages 4 to 6): '+' = Heavy '' = Moderate '-' = Light			

WILMINGTON, DE DECEMBER 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 C00P
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							5.00	10.00	
03							6.00	10.00	
04							8.00	10.00	
05							1.75	10.00	
06							9.00	10.00	
07							4.00	10.00	
08							7.00	10.00	
09							2.50	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							0.75	10.00	
14							8.00	10.00	
15							2.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							0.25	10.00	
20							4.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							9.00	10.00	
24							9.00	10.00	
25							1.25	10.00	
26							0.25	4.00	
27							8.00	10.00	
28							9.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							0.75	10.00	
MONTHLY AVGS							6.63	9.81	
SUNSHINE (Minutes)									
Total : 0 Possible : 17526									
Percent Possible : 0									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear Partly CLDY Cloudy Missing									
MINIMUM VISIBILITY (MILES)									
<= .25 <= 3.0 >= 7.0									
2 8 19									

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
DECEMBER 2009 KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL		
SUNRISE: 0704 DEC 01 SUNSET: 1639																
01	OVC	055			10.00		39	29	35	67	7	30	29.83	29.90		
04	SCT	060			10.00		37	29	34	73	8	26	29.86	29.95		
07	CLR	NC			10.00		34	25	31	70	6	24	29.93	30.01		
10	FEW	085			10.00		43	27	37	53	13	24	29.96	30.03		
13	CLR	NC			10.00		51	27	41	39	17	30	29.93	30.02		
16	CLR	NC			10.00		51	28	41	41	3	24	29.94	30.02		
19	CLR	NC			10.00		45	30	39	56	9	17	30.01	30.10		
22	CLR	NC			10.00		42	30	37	63	0	00	30.03	30.12		
SUNRISE: 0705 DEC 02 SUNSET: 1639																
01	CLR	NC			10.00		39	32	36	76	0	00	30.06	30.14		
04	CLR	NC			10.00		33	30	32	89	0	00	30.06	30.15		
07	CLR	NC			10.00		35	32	34	89	0	00	30.07	30.16		
10	CLR	NC			10.00		44	40	42	86	3	VR	30.06	30.15		
13	OVC	037			10.00		51	45	48	80	13	15	30.01	30.09		
16	OVC	060			7.00	-RA	51	48	49	90	10	08	29.90	29.98		
19	OVC	085			10.00	-RA	52	50	51	93	9	12	29.80	29.88		
22	OVC	035			7.00	-RA	57	55	56	93	23	15	29.62	29.71		
SUNRISE: 0706 DEC 03 SUNSET: 1639																
01	OVC	006			10.00		58	57	57	97	17	15	29.41	29.49		
04	OVC	029			10.00		67	62	64	84	25	20	29.28	29.36		
07	SCT	055			10.00		56	47	51	72	9	25	29.41	29.50		
10	SCT	055			10.00		60	51	55	72	13	23	29.49	29.58		
13	BKN	055			10.00		62	41	51	46	17	27	29.53	29.61		
16	OVC	055			10.00		55	39	47	55	21	30	29.67	29.75		
19	BKN	050			10.00		51	37	45	59	10	28	29.78	29.87		
22	CLR	NC			10.00		47	36	42	66	6	26	29.85	29.93		
SUNRISE: 0707 DEC 04 SUNSET: 1638																
01	CLR	NC			10.00		42	35	39	76	6	25	29.91	29.99		
04	CLR	NC			10.00		41	35	38	79	5	27	29.96	30.05		
07	CLR	NC			10.00		38	33	36	82	5	27	30.03	30.12		
10	CLR	NC			10.00		48	35	42	61	6	30	30.09	30.17		
13	OVC	055			10.00		50	30	41	46	3	32	30.06	30.15		
16	BKN	060			10.00		48	32	41	54	6	23	30.07	30.16		
19	CLR	NC			10.00		45	32	40	60	0	00	30.09	30.17		
22	CLR	NC			10.00		44	34	40	68	3	34	30.10	30.19		
SUNRISE: 0708 DEC 05 SUNSET: 1638																
01	CLR	NC			10.00		43	34	39	71	6	36	30.06	30.14		
04	BKN	120			10.00		43	31	38	63	8	03	30.02	30.11		
07	OVC	110			10.00	-RA	41	30	37	65	11	04	29.99	30.08		
10	OVC	050			8.00	-RA	40	34	37	79	8	01	29.94	30.03		
13	OVC	010			2.00	-SN BR	34	33	34	96	7	36	29.85	29.93		
16	OVC	024			2.50	-SN BR	33	32	33	96	14	34	29.82	29.90		
19	OVC	016			8.00	-SN	35	32	34	89	14	33	29.83	29.92		
22	BKN	065			10.00		35	32	34	89	14	33	29.88	29.97		
SUNRISE: 0709 DEC 06 SUNSET: 1638																
01	SCT	024			10.00		34	28	32	79	17	32	29.96	30.05		
04	CLR	NC			10.00		31	25	29	78	8	29	30.06	30.14		
07	CLR	NC			10.00		28	22	26	78	5	30	30.15	30.24		
10	CLR	NC			10.00		34	25	31	70	8	31	30.27	30.35		
13	CLR	NC			10.00		38	24	33	57	13	31	30.23	30.32		
16	CLR	NC			10.00		36	22	31	57	10	30	30.23	30.32		
19	CLR	NC			10.00		33	23	29	67	0	00	30.28	30.37		
22	CLR	NC			9.00		31	24	29	75	6	24	30.30	30.40		
SUNRISE: 0709 DEC 07 SUNSET: 1638																
01	CLR	NC			9.00		29	23	27	78	5	35	30.30	30.39		
04	CLR	NC			8.00		30	23	28	75	0	00	30.27	30.36		
07	CLR	NC			6.00	BR	28	26	27	92	0	00	30.27	30.35		
10	CLR	NC			9.00		35	26	32	70	6	25	30.25	30.34		
13	CLR	NC			10.00		41	28	36	60	10	20	30.12	30.21		
16	BKN	090			10.00		41	30	37	65	5	24	30.10	30.19		
19	CLR	NC			10.00		38	29	34	70	3	24	30.12	30.21		
22	CLR	NC			10.00		35	29	33	79	5	27	30.14	30.23		
SUNRISE: 0710 DEC 08 SUNSET: 1638																
01	BKN	050			10.00		36	29	33	76	6	31	30.15	30.24		
04	FEW	055			10.00		37	29	34	73	0	00	30.20	30.29		
07	CLR	NC			9.00		35	27	32	73	0	00	30.27	30.35		
10	CLR	NC			9.00		39	29	35	67	7	34	30.30	30.39		
13	CLR	NC			10.00		44	24	36	45	3	34	30.27	30.36		
16	CLR	NC			10.00		41	25	35	53	0	00	30.23	30.32		
19	CLR	NC			10.00		40	27	35	60	5	14	30.19	30.27		
22	OVC	095			10.00		40	27	35	60	9	10	30.14	30.22		
SUNRISE: 0711 DEC 09 SUNSET: 1638																
01	OVC	024			5.00	RA BR	37	33	35	86	9	07	29.96	30.05		
04	OVC	008			4.00	RA BR	40	39	40	96	17	07	29.70	29.79		
07	OVC	025			3.00	+RA BR	48	46	47	93	10	09	29.47	29.55		
10	OVC	009			10.00		54	52	53	93	11	22	29.35	29.43		
13	BKN	016			10.00		52	46	49	80	9	25	29.27	29.35		
16	CLR	NC			10.00		55	47	51	75	21	20	29.14	29.22		
19	CLR	NC			10.00		50	45	48	83	10	23	29.24	29.32		
22	CLR	NC			10.00		47	43	45	86	8	23	29.31	29.39		
SUNRISE: 0712 DEC 10 SUNSET: 1638																
01	CLR	NC			10.00		47	26	38	44	14	27	29.39	29.47		
04	CLR	NC			10.00		43	22	35	43	13	28	29.44	29.53		
07	CLR	NC			10.00		39	19	32	45	16	28	29.57	29.65		
10	CLR	NC			10.00		40	18	32	41	14	27	29.64	29.72		
13	OVC	055			10.00		39	20	32	46	18	29	29.64	29.72		
16	BKN	065			10.00		38	15	30	39	23	29	29.70	29.79		
19	CLR	NC			10.00		32	10	25	40	20	28	29.80	29.89		
22	CLR	NC			10.00		29	9	23	43	21	28	29.88	29.96		
SUNRISE: 0713 DEC 11 SUNSET: 1638																
01	CLR	NC			10.00		26	5	20	40	18	30	29.96	30.05		
04	CLR	NC			10.00		24	6	19	46	9	27	30.06	30.14		
07	CLR	NC			10.00		22	3	17	44	13	26	30.12	30.22		
10	CLR	NC			10.00		27	4	21	37	21	25	30.16	30.25		
13	CLR	NC			10.00		32	4	24	30	24	28	30.11	30.20		
16	CLR	NC			10.00		33	3	25	28	20	30	30.15	30.24		
19	CLR	NC			10.00		27	5	21	39	6	30	30.24	30.33		
22	CLR	NC			10.00		27	8	22	44	6	24	30.28	30.37		
SUNRISE: 0714 DEC 12 SUNSET: 1639																
01	CLR	NC			10.00		29	10	24	45	10	24	30.31	30.40		
04	CLR	NC			10.00		28	10	23	47	7	24	30.37	30.46		
07	CLR	NC			10.00		28	8	22	43	9	28	30.44	30.53		
10	CLR	NC			10.00		36	11	28	35	15	29	30.50	30.59		
13	CLR	NC			10.00		41	11	31	29	10	32	30.45	30.54		
16	CLR	NC			10.00		39	11	30	31	6	22	30.46	30.55		
19	CLR	NC			10.00		32	13	26	45	6	20	30.47	30.56</		

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
DECEMBER 2009 KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)				
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL			
01	CLR	NC	SUNRISE: 0714			DEC 13	SUNSET: 1639			29	16	25	58	0	00	30.40	30.49
04	CLR	NC			10.00	-RA BR -RA BR -RA BR	32	12	26	43	3	19	30.35	30.43			
07	OVC	036			10.00		35	23	31	62	3	12	30.27	30.35			
10	OVC	029			3.00		36	34	35	92	6	11	30.15	30.24			
13	OVC	006			4.00		46	45	46	96	11	15	29.93	30.02			
16	OVC	031			2.00		50	48	49	93	10	17	29.77	29.85			
19	OVC	007			9.00		44	42	43	93	9	29	29.80	29.89			
22	CLR	NC			10.00	39	36	38	89	10	31	29.88	29.96				
			SUNRISE: 0715			DEC 14	SUNSET: 1639			38	35	37	89	5	31	29.93	30.02
04	BKN	029			10.00		40	36	38	86	7	34	29.96	30.03			
07	CLR	NC			10.00		38	34	36	86	6	25	30.06	30.15			
10	CLR	NC			10.00		46	35	41	66	6	04	30.06	30.15			
13	CLR	NC			10.00		49	35	43	59	6	18	30.01	30.09			
16	BKN	037			10.00		46	37	42	71	9	16	29.98	30.07			
19	CLR	NC			10.00		43	38	41	83	7	16	29.96	30.03			
22	OVC	009			10.00		44	40	42	86	6	20	29.91	29.98			
			SUNRISE: 0716			DEC 15	SUNSET: 1639			45	43	44	93	7	20	29.83	29.91
04	OVC	003			2.50	BR	45	44	45	96	0	00	29.83	29.92			
07	OVC	005			5.00	BR	46	44	45	93	6	24	29.85	29.94			
10	OVC	003			3.00	BR	47	45	46	93	6	23	29.90	29.98			
13	CLR	NC			9.00		53	45	49	74	5	25	29.86	29.95			
16	SCT	060			10.00		49	38	44	66	13	31	29.91	29.99			
19	CLR	NC			10.00		45	33	40	63	14	30	29.96	30.04			
22	CLR	NC			10.00		44	31	39	60	18	30	29.99	30.08			
			SUNRISE: 0716			DEC 16	SUNSET: 1639			39	25	34	57	15	29	30.06	30.15
04	OVC	060			10.00		36	24	32	62	16	33	30.12	30.21			
07	CLR	NC			10.00		31	19	27	61	7	32	30.22	30.30			
10	CLR	NC			10.00		36	15	29	42	21	31	30.25	30.35			
13	CLR	NC			10.00		37	16	30	42	17	30	30.19	30.27			
16	CLR	NC			10.00		34	14	28	44	16	31	30.19	30.27			
19	CLR	NC			10.00		31	13	25	47	11	30	30.22	30.31			
22	CLR	NC			10.00		29	12	24	49	15	30	30.23	30.32			
			SUNRISE: 0717			DEC 17	SUNSET: 1640			27	12	23	53	11	29	30.23	30.32
04	CLR	NC			10.00		26	12	22	55	13	31	30.27	30.35			
07	CLR	NC			10.00		25	11	21	55	9	27	30.28	30.37			
10	CLR	NC			10.00		30	12	25	47	14	30	30.30	30.39			
13	CLR	NC			10.00		33	13	27	44	18	31	30.23	30.32			
16	CLR	NC			10.00		33	14	27	46	11	30	30.23	30.32			
19	CLR	NC			10.00		29	14	24	53	5	26	30.24	30.33			
22	FEW	120			10.00		27	17	24	66	6	34	30.23	30.32			
			SUNRISE: 0718			DEC 18	SUNSET: 1640			24	14	21	66	7	01	30.20	30.29
04	CLR	NC			10.00		23	10	19	57	6	36	30.22	30.31			
07	FEW	095			10.00		21	10	18	62	3	02	30.20	30.29			
10	CLR	NC			10.00		27	9	22	47	5	04	30.22	30.30			
13	CLR	NC			10.00		31	9	25	40	0	00	30.11	30.20			
16	CLR	NC			10.00		31	12	25	45	0	00	30.06	30.15			
19	CLR	NC			10.00		31	10	25	41	3	10	30.04	30.13			
22	CLR	NC			10.00		31	14	26	49	8	07	29.96	30.05			
			SUNRISE: 0718			DEC 19	SUNSET: 1641			31	8	24	38	10	04	29.91	30.00
04	OVC	012			1.50	-SN BR	26	23	25	88	15	04	29.77	29.85			
07	VV	004			0.75	-SN BR	24	22	23	92	18	03	29.70	29.79			
10	OVC	035			1.00	-SN BR	23	20	22	88	23	04	29.64	29.72			
13	OVC	013			0.50	SN FZFG	25	22	24	88	20	02	29.54	29.63			
16	VV	002			0.50	FZFG	23	21	22	92	13	36	29.53	29.61			
19	OVC	007			1.25	BR	24	21	23	88	18	36	29.54	29.63			
22	OVC	010			1.75	-SN BR	26	23	25	88	17	35	29.57	29.65			
			SUNRISE: 0719			DEC 20	SUNSET: 1641			25	20	23	81	15	34	29.59	29.67
04	OVC	048			9.00	-SN	24	19	22	81	16	32	29.65	29.74			
07	OVC	031			10.00	UP	25	14	22	63	14	32	29.70	29.79			
10	OVC	050			10.00		27	14	23	58	18	31	29.77	29.85			
13	OVC	065			10.00		30	17	26	58	22	32	29.75	29.83			
16	CLR	NC			10.00		32	17	27	54	17	31	29.80	29.89			
19	CLR	NC			10.00		28	14	24	56	5	27	29.85	29.94			
22	CLR	NC			10.00		27	15	23	61	9	27	29.90	29.98			
			SUNRISE: 0719			DEC 21	SUNSET: 1641			24	15	21	68	7	26	29.91	29.99
04	CLR	NC			10.00		24	16	22	71	9	27	29.93	30.02			
07	CLR	NC			10.00		23	16	21	74	8	26	29.94	30.03			
10	CLR	NC			10.00		30	19	26	64	10	26	29.98	30.06			
13	CLR	NC			10.00		35	22	30	59	16	31	29.91	30.00			
16	CLR	NC			10.00		36	21	31	55	14	29	29.91	30.01			
19	CLR	NC			10.00		32	20	28	61	11	28	29.96	30.04			
22	CLR	NC			10.00		30	19	26	64	10	26	29.98	30.07			
			SUNRISE: 0720			DEC 22	SUNSET: 1642			33	21	29	61	11	28	30.01	30.09
04	OVC	044			10.00		34	23	30	64	8	28	30.03	30.12			
07	SCT	048			10.00		32	21	28	64	10	28	30.06	30.14			
10	CLR	NC			10.00		35	22	30	59	11	29	30.12	30.21			
13	CLR	NC			10.00		36	23	31	59	16	29	30.07	30.16			
16	BKN	042			10.00		37	24	32	59	11	27	30.06	30.15			
19	CLR	NC			10.00		33	22	29	64	7	28	30.11	30.20			
22	CLR	NC			10.00		28	20	25	72	8	30	30.15	30.24			
			SUNRISE: 0720			DEC 23	SUNSET: 1642			27	20	25	75	5	25	30.15	30.24
04	CLR	NC			9.00		24	18	22	78	5	26	30.16	30.25			
07	CLR	NC			10.00		19	10	17	68	7	31	30.19	30.27			
10	CLR	NC			10.00		24	9	20	53	14	31	30.22	30.31			
13	CLR	NC			10.00		27	12	23	53	15	30	30.16	30.24			
16	CLR	NC			10.00		29	11	24	47	11	30	30.14	30.23			
19	CLR	NC			10.00		26	10	22	51	0	00	30.19	30.27			
22	CLR	NC			10.00		25	11	21	55	3	27	30.22	30.30			
			SUNRISE: 0721			DEC 24	SUNSET: 1643			23	13	20	65	6	31	30.22	30.30
04	CLR	NC			10.00		21	13	19	71	8	29	30.23	30.32			
07	CLR	NC			10.00		20	14	18	77	5	27	30.30	30.39			
10	CLR	NC			10.00		26	17	23	69	6	33	30.33	30.42			
13	CLR	NC			10.00		36	21	31	55	0	00	30.31	30.40			
16	CLR	NC			10.00		36	22	31	57	5	07	30.29	30.39			
19	CLR	NC			10.00		32	22	29	67	3	09	30.30	30.40			
22	CLR	NC			10.00		25	22	24	88	0	00	30.35	30.43			

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
DECEMBER 2009 KILG

WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0721 DEC 25						SUNSET: 1644								
01	OVC	020			8.00		26	22	25	85	3	28	30.32	30.41
04	OVC	024			10.00		30	24	28	78	3	33	30.32	30.41
07	OVC	038			10.00		35	30	33	82	11	05	30.27	30.36
10	OVC	007			7.00		36	33	35	89	9	06	30.27	30.36
13	OVC	005			3.00	BR	37	36	37	96	11	06	30.17	30.27
16	OVC	003			1.25	BR	38	37	38	96	9	05	30.12	30.21
19	OVC	003			2.50	-RA BR	39	38	39	96	10	06	30.10	30.19
22	OVC	010			5.00	-RA BR	40	39	40	96	16	06	30.06	30.14
SUNRISE: 0722 DEC 26						SUNSET: 1644								
01	OVC	010			3.00	-RA BR	41	40	41	96	18	06	29.99	30.08
04	OVC	003			4.00	-RA BR	42	41	42	96	16	06	29.96	30.05
07	OVC	010			2.50	-RA BR	48	47	48	96	17	08	29.94	30.03
10	OVC	012			2.50	-RA BR	50	48	49	93	20	09	29.94	30.03
13	OVC	012			3.00	-RA BR	52	50	51	93	17	10	29.85	29.94
16	OVC	023			2.50	-RA BR	53	51	52	93	16	08	29.83	29.91
19	OVC	009			4.00	-RA BR	52	51	51	96	7	06	29.80	29.88
22	VV	001			0.25	FG	49	49	49	100	6	17	29.80	29.88
SUNRISE: 0722 DEC 27						SUNSET: 1645								
01	BKN	025			8.00		48	47	48	96	8	29	29.78	29.87
04	CLR	NC			10.00		44	33	39	65	14	30	29.82	29.90
07	CLR	NC			10.00		38	29	34	70	6	25	29.86	29.95
10	CLR	NC			10.00		45	29	38	54	10	30	29.91	29.99
13	CLR	NC			10.00		50	26	40	39	15	30	29.85	29.94
16	CLR	NC			10.00		48	24	38	39	8	27	29.83	29.91
19	CLR	NC			10.00		41	25	35	53	3	19	29.85	29.93
22	CLR	NC			10.00		34	26	31	73	0	00	29.80	29.89
SUNRISE: 0722 DEC 28						SUNSET: 1646								
01	OVC	090			10.00		32	28	31	85	0	00	29.70	29.79
04	OVC	100			10.00		35	32	34	89	0	00	29.62	29.71
07	OVC	090			10.00		39	24	33	55	16	28	29.65	29.72
10	CLR	NC			10.00		37	19	31	48	20	29	29.69	29.77
13	OVC	050			10.00		37	18	30	46	21	30	29.65	29.73
16	OVC	049			10.00		34	14	28	44	20	28	29.67	29.75
19	FEW	120			10.00		31	13	25	47	9	26	29.70	29.78
22	FEW	110			10.00		31	16	26	54	15	27	29.72	29.80
SUNRISE: 0723 DEC 29						SUNSET: 1646								
01	BKN	055			10.00		31	17	26	56	13	25	29.72	29.80
04	OVC	060			10.00		31	9	25	40	25	30	29.80	29.88
07	SCT	055			10.00		27	12	23	53	24	31	29.90	29.98
10	CLR	NC			10.00		28	2	21	32	24	33	30.03	30.12
13	CLR	NC			10.00		29	1	22	30	31	31	30.07	30.16
16	CLR	NC			10.00		28	1	21	31	22	32	30.16	30.25
19	CLR	NC			10.00		25	2	19	37	18	32	30.24	30.33
22	CLR	NC			10.00		22	6	18	50	9	32	30.33	30.42
SUNRISE: 0723 DEC 30						SUNSET: 1647								
01	CLR	NC			10.00		19	6	16	57	8	31	30.38	30.47
04	CLR	NC			10.00		19	8	16	62	7	26	30.38	30.47
07	CLR	NC			10.00		20	10	17	65	5	25	30.42	30.51
10	CLR	NC			10.00		25	11	21	55	6	28	30.43	30.52
13	CLR	NC			10.00		29	12	24	49	5	24	30.37	30.47
16	CLR	NC			10.00		30	13	25	49	9	19	30.31	30.40
19	CLR	NC			10.00		29	14	24	53	6	21	30.32	30.41
22	OVC	120			10.00		29	17	25	61	5	18	30.25	30.35

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0723						DEC 31			SUNSET: 1648					
01	OVC	100			10.00		30	19	26	64	10	17	30.20	30.29
04	OVC	095			10.00		30	22	27	72	5	19	30.17	30.27
07	OVC	009			1.50	-SN BR	30	28	29	92	7	15	30.14	30.22
10	OVC	011			3.00	UP BR	32	30	31	92	0	00	30.12	30.21
13	OVC	005			4.00	BR	33	30	32	89	0	00	30.03	30.12
16	OVC	003			0.75	BR	33	32	33	96	3	03	29.99	30.08
19	OVC	003			2.00	-RA BR	33	32	33	96	0	00	29.98	30.07
22	OVC	003			2.00	RA BR	33	32	33	96	0	00	29.96	30.05

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.

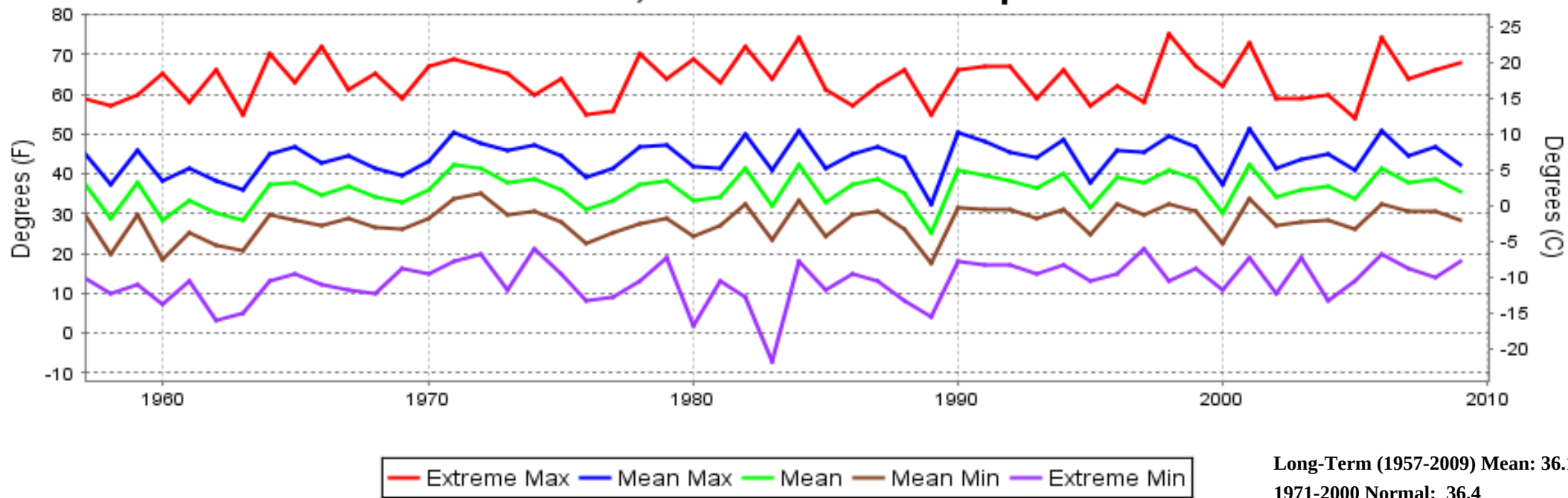
& = Original observation contained additional weather elements.

See page 3 for additional notes.

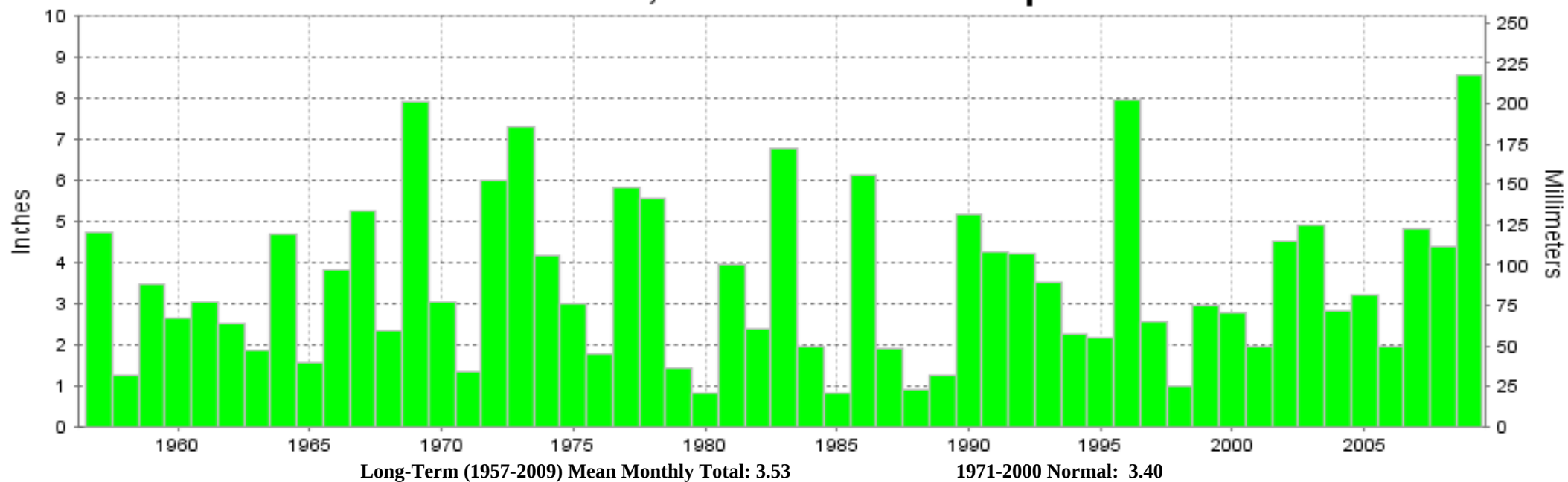
SUMMARY BY HOUR

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			34	25	31	70	29.99	30.08	9.26	9	4	29
02			34	25	31	71	30.00	30.09	8.94	9	4	29
03			33	25	31	73	30.00	30.09	8.77	9	3	29
04			34	25	31	71	30.00	30.08	8.97	9	5	29
05			33	24	30	72	30.00	30.09	8.85	9	5	29
06			33	24	30	72	30.01	30.10	8.60	9	4	29
07			33	24	30	71	30.02	30.11	8.64	9	4	29
08			33	24	30	72	30.03	30.11	8.31	8	5	29
09			35	24	31	68	30.03	30.12	8.60	9	4	29
10			37	25	33	65	30.04	30.13	8.56	11	6	28
11			38	25	34	61	30.03	30.12	8.63	12	6	28
12			39	25	34	59	30.01	30.10	8.46	12	7	28
13			40	25	35	59	29.98	30.07	8.56	13	7	28
14			40	25	35	59	29.97	30.06	8.48	12	8	28
15			40	25	35	59	29.97	30.06	8.23	12	6	28
16			39	25	34	60	29.97	30.06	8.27	11	6	28
17			38	25	34	62	29.99	30.07	8.53	9	5	28
18			37	25	33	64	29.99	30.08	8.85	8	4	29
19			36	25	32	65	30.00	30.09	8.93	8	4	29
20			36	25	32	67	30.00	30.09	9.04	8	4	29
21			35	25	32	68	30.01	30.09	8.94	8	4	29
22			35	25	32	70	30.01	30.09	8.87	9	4	29
23			34	25	31	71	30.01	30.10	8.86	8	4	29
24			34	25	31	71	30.01	30.09	8.64	8	5	29

WILMINGTON, DE DECEMBER Temperatures



WILMINGTON, DE DECEMBER Precipitation





DECEMBER 2009
WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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