



FEBRUARY 2008

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																									
																			5-SEC		2-MIN																							
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	51	31	41	9	36	39	24	0	RA FG+ FG BR	0		0.0	1.32	30.04	30.07	4.1	06	12.9	29	22	25	06	01																					
02	46	30	38	6	29	35	27	0	BR	0		0.0	0.00	30.06	30.18	7.5	27	8.7	23	23	20	24	02																					
03	51	25	38	6	29	34	27	0	BR HZ	0		0.0	0.00	30.14	30.24	0.8	02	2.8	10	16	9	16	03																					
04	50	37	44	12	36	40	21	0	RA HZ	0		0.0	T	30.16	30.25	8.0	07	8.4	18	06	15	04	04																					
05	58	42	50	18	45	46	15	0	RA FG+ FG BR HZ	0		0.0	T	29.89	29.96	2.4	23	5.2	21	22	16	28	05																					
06	71	46	59*	27	52	56	6	0	RA BR	0		0.0	0.01	29.55	29.58	12.5	20	13.7	38	22	28	21	06																					
07	67	36	52	19	31	40	13	0	RA	0		0.0	0.03	29.63	29.78	12.2	29	12.8	36	30	28	30	07																					
08	51	32	42	9	28	35	23	0	HZ	0		0.0	0.00	29.90	29.99	2.9	33	4.3	21	28	15	28	08																					
09	51	31	41	8	34	38	24	0	RA BR HZ	0		0.0	0.06	29.87	29.94	2.4	13	4.8	24	31	16	31	09																					
10	49	16	33	0	17	30	32	0	SN	0		T	T	29.71	29.84	16.7	27	19.0	52*	28	40*	27	10																					
11	26	12*	19*	-14	-3	14	46	0		0		0.0	0.00	30.24	30.35	13.7	29	14.3	39	28	32	29	11																					
12	33	20	27	-6	13	22	38	0	RA FZRA SN BR UP	0		T	0.42	30.27	30.32	5.0	06	6.9	18	01	15	09	12																					
13	44	33	39	5	36	37	26	0	RA FG BR	0		0.0	1.57	29.58	29.65	9.2	32	10.4	26	32	21	32	13																					
14	40	27	34	0	20	28	31	0	SN	0		T	T	29.94	30.08	11.6	31	12.4	35	32	25	31	14																					
15	55	26	41	7	27	35	24	0	BR	0		0.0	0.00	30.04	30.14	6.2	27	9.0	26	32	22	32	15																					
16	39	25	32	-2	15	27	33	0		0		0.0	0.00	30.22	30.33	6.5	32	7.7	28	30	22	32	16																					
17	51	23	37	3	33	37	28	0	RA BR	0		0.0	0.02	30.10	30.12	7.7	14	8.1	23	15	18	14	17																					
18	72*	36	54	19	46	50	11	0	TS RA BR VCTS	0		0.0	0.29	29.51	29.62	7.0	23	15.2	38	33	30	31	18																					
19	46	26	36	1	16	30	29	0		0		0.0	0.00	29.78	29.90	13.1	27	14.1	37	25	29	31	19																					
20	33	21	27	-8	14	24	38	0	SN FZFG BR HZ	0		1.1	0.06	30.03	30.14	6.5	30	7.7	25	28	20	29	20																					
21	33	17	25	-11	9	22	40	0	SN	1		T	T	30.29	30.40	4.9	29	7.6	22	32	18	31	21																					
22	35	26	31	-5	27	30	34	0	RA FZRA SN BR UP	1		1.2	0.43	29.99	30.03	2.2	04	7.0	16	17	14	17	22																					
23	35	27	31	-5	29	32	34	0	RA BR HZ	1		0.0	T	29.85	29.97	6.0	34	6.5	14	32	12	32	23																					
24	41	20	31	-5	20	28	34	0	RA BR HZ	0		0.0	T	30.08	30.16	3.9	29	4.6	17	31	13	31	24																					
25	50	32	41	4	26	34	24	0	BR HZ	0		0.0	0.00	29.88	29.96	4.0	27	5.2	18	30	16	30	25																					
26	48	35	42	5	39	41	23	0	RA BR HZ	0		0.0	0.11	29.53	29.58	5.4	17	8.2	29	15	23	14	26																					
27	44	25	35	-2	23	32	30	0		0		0.0	0.00	29.45	29.59	18.1	30	18.4	36	29	29	28	27																					
28	33	19	26	-12	5	20	39	0		0		0.0	0.00	30.03	30.17	14.2	30	14.5	35	30	26	28	28																					
29	41	19	30	-8	16	26	35	0	RA UP	0		0.0	T	30.33	30.41	9.1	15	9.8	29	16	22	16	29																					
46.3				27.4		36.9		☼	25.8		33.2		27.9		0.0		< MONTHLY AVERAGES TOTALS >								2.3		4.32		29.93		30.02		4.2		28		9.7		< MONTHLY AVERAGES					
3.8			1.6		2.7		<-----DEPARTURE FROM NORMAL----->																1.51		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.94 DATE : 12-13									SEA LEVEL PRESSURE																										
MONTHLY									GREATEST 24-HR SNOWFALL : 1.2 DATE : 22									MAXIMUM : 30.57 29 0951																										
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 1 DATE : 23+									MINIMUM : 29.31 26 1951																										
SEASON TO DATE									NUMBER OF ->									MAXIMUM TEMP >= 90 : 0									MINIMUM TEMP <= 32 : 22									PRECIPITATION >= 0.01 INCH : 11								
HEATING : 809 -55 3291 -387									THUNDERSTORMS : 1									MAXIMUM TEMP <= 32 : 1									MINIMUM TEMP <= 0 : 0									PRECIPITATION >= 0.10 INCH : 6								
COOLING : 0 0 0 0																											HEAVY FOG : 2									SNOWFALL >= 1.0 INCH : 2								

FEBRUARY 2008
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)
FEBRUARY 2008

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						0.02	0.01	0.13	0.11	0.23	0.21	0.14	01	0.03	0.01	T	0.02	0.32	0.08	T			T	0.01	01	1.32	1.32	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04									T	T	T		04												04	T	T	
05													05				T								05	T	T	
06													06	T			T	T							06	0.01	0.01	
07	0.03									0.01			07												07	0.03	0.03	
08													08												08	0.00	0.00	
09													09								0.03	0.03	T		09	0.06	0.06	
10													10			T									10	T	T	
11													11												11	0.00	0.00	
12												T	12			T	0.03	0.05	0.05	0.08	0.14	0.01	0.03	0.03	12	0.42	0.42	
13	0.01	0.03	0.08	0.14	0.25	0.23	0.16	0.03	0.08	0.05	0.05	0.16	13	0.17	0.04	0.04	T	0.02	0.03					13	1.57	1.57		
14	T	T											14								T	T			14	T	T	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17					T	0.02	T		T			17	0.02	0.02	
18	0.01		0.05	0.03	0.05	0.01	0.02	0.01	0.01	0.01			18			0.02	0.07	T						18	0.29	0.29		
19													19												19	0.00	0.00	
20													20			T	0.02	0.02	0.02	T	T				20	0.06	0.06	
21													21												21	T	T	
22			T	0.03	0.07	0.08	0.07	0.04	0.02	0.02	T	0.02	22	0.01	0.02	0.02	0.01			T	0.02		T		22	0.43	0.43	
23									T				23												23	T	T	
24										T			24	T		T									24	T	T	
25													25												25	0.00	0.00	
26										T	0.01		26	T	T	0.02	0.01	0.02	0.03	0.02				26	0.11	0.11		
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29										T	T	T	29	T									T		29	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)	0.06	0.11	0.14	0.18	0.24	0.31	0.34	0.38	0.46	0.52	0.61	0.70
Ending Date	01	01	01	01	01	01	01	13	13	13	13	13
Ending Time (Hr/Min)	1647	1651	1653	1650	1655	1655	1708	0534	0527	0543	0630	0641

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 FEBRUARY 2008

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							6.00	10.00	
03							4.00	10.00	
04							4.00	10.00	
05							0.00	10.00	
06							2.50	10.00	
07							10.00	10.00	
08							6.00	10.00	
09							5.00	10.00	
10							6.00	10.00	
11							10.00	10.00	
12							3.00	10.00	
13							0.75	10.00	
14							9.00	10.00	
15							6.00	10.00	
16							10.00	10.00	
17							3.00	10.00	
18							4.00	10.00	
19							10.00	10.00	
20							0.50	10.00	
21							9.00	10.00	
22							0.75	10.00	
23							3.00	10.00	
24							6.00	10.00	
25							5.00	10.00	
26							2.00	8.00	
27							9.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
MONTHLY AVGS							5.34	9.93	
SUNSHINE (Minutes)									
Total : 0			Possible : 18020						
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY		Cloudy		Missing			
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0				>= 7.0			
2		10				9			

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
FEBRUARY 2008
KILG

WBAN # 13781

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
			SUNRISE: 0642		FEB 25			SUNSET: 1750						
01	BKN	110			10.00		34	23	30	64	0	00	29.93	30.02
04	OVC	075			10.00		33	24	30	70	3	20	29.91	30.00
07	SCT	080			6.00	HZ	34	27	31	76	3	24	29.91	30.00
10	CLR	NC			10.00		42	29	37	60	11	30	29.93	30.02
13	CLR	NC			10.00		46	23	37	40	7	29	29.86	29.95
16	CLR	NC			10.00		49	24	39	38	9	30	29.83	29.91
19	CLR	NC			10.00		44	26	37	49	5	24	29.85	29.93
22	CLR	NC			10.00		39	28	35	65	5	23	29.83	29.91
			SUNRISE: 0640		FEB 26			SUNSET: 1751						
01	CLR	NC			7.00		36	29	33	76	0	00	29.80	29.88
04	CLR	NC			7.00		37	30	34	76	0	00	29.80	29.88
07	OVC	055			4.00	BR	38	34	36	86	6	13	29.72	29.80
10	OVC	044			2.50	HZ	43	38	41	83	13	13	29.64	29.72
13	SCT	085			8.00		47	41	44	80	21	14	29.41	29.49
16	OVC	031			5.00	-RA BR	47	43	45	86	13	15	29.28	29.37
19	OVC	110			2.00	BR	46	46	46	100	3	32	29.23	29.31
22	CLR	NC			4.00	BR	46	46	46	100	8	25	29.26	29.34
			SUNRISE: 0639		FEB 27			SUNSET: 1752						
01	OVC	085			9.00		43	39	41	86	10	28	29.30	29.38
04	OVC	035			10.00		41	33	38	73	14	32	29.34	29.42
07	OVC	040			10.00		38	28	34	67	15	29	29.41	29.49
10	BKN	032			10.00		38	24	33	57	17	31	29.46	29.54
13	OVC	046			10.00		40	23	34	51	21	31	29.47	29.55
16	BKN	065			10.00		39	24	33	55	17	30	29.54	29.62
19	CLR	NC			10.00		32	11	26	42	22	29	29.67	29.75
22	CLR	NC			10.00		28	10	23	47	17	29	29.75	29.83
			SUNRISE: 0637		FEB 28			SUNSET: 1753						
01	CLR	NC			10.00		24	5	19	44	18	29	29.85	29.93
04	CLR	NC			10.00		21	5	17	50	15	30	29.90	29.98
07	FEW	033			10.00		19	6	16	57	10	29	29.98	30.06
10	CLR	NC			10.00		25	6	20	44	14	31	30.06	30.15
13	SCT	055			10.00		30	5	23	34	22	28	30.07	30.16
16	CLR	NC			10.00		30	4	23	33	16	29	30.12	30.21
19	CLR	NC			10.00		28	5	22	37	11	29	30.22	30.32
22	CLR	NC			10.00		24	6	19	46	8	29	30.32	30.41
			SUNRISE: 0633		FEB 29			SUNSET: 1752						
01	CLR	NC			10.00		20	6	17	54	6	31	30.37	30.46
04	CLR	NC			10.00		20	10	17	65	0	00	30.41	30.50
07	CLR	NC			10.00		19	11	17	71	0	00	30.46	30.55
10	CLR	NC			10.00		28	6	22	39	0	00	30.48	30.57
13	CLR	NC			10.00	-RA	33	12	27	42	15	15	30.39	30.48
16	BKN	065			10.00		35	19	30	52	18	15	30.27	30.36
19	BKN	100			10.00		36	27	33	70	15	13	30.19	30.28
22	OVC	065			10.00		40	31	36	70	21	15	30.12	30.21

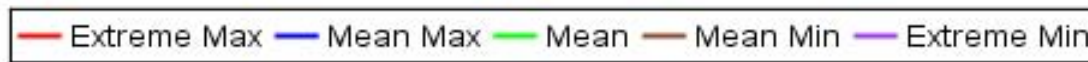
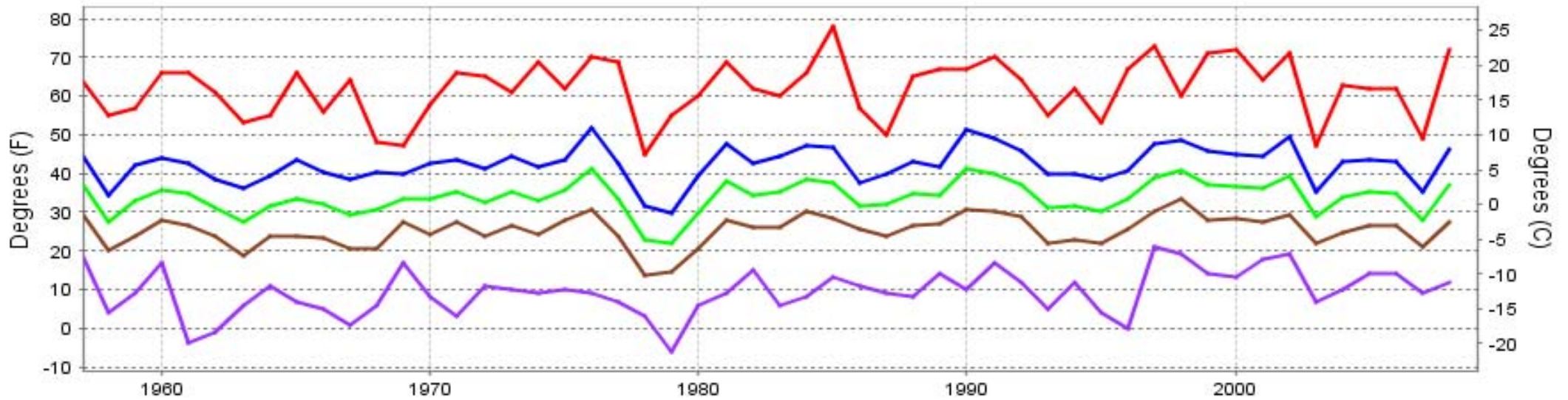
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL

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

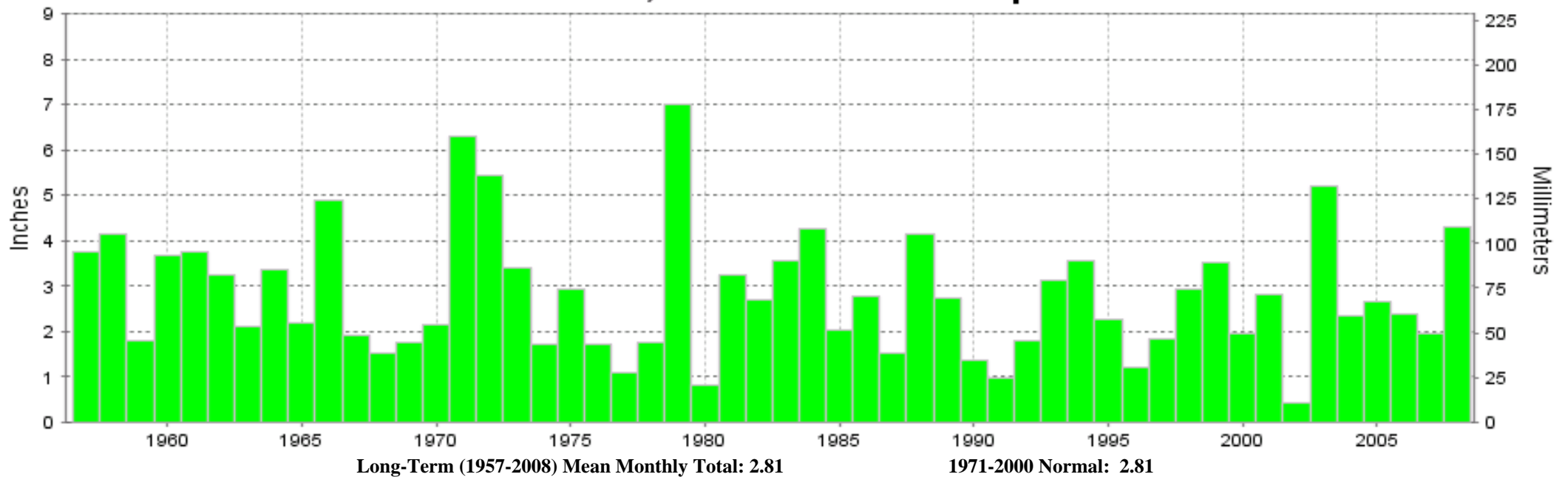
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			34	25	31	71	29.95	30.04	8.21	8	4	28
02			34	24	31	70	29.96	30.04	8.37	8	3	28
03			33	24	30	70	29.95	30.04	8.20	8	5	28
04			33	24	30	71	29.95	30.04	7.97	8	4	28
05			32	24	30	72	29.96	30.04	7.85	7	3	28
06			32	24	30	72	29.96	30.05	7.93	7	2	28
07			33	24	30	71	29.97	30.06	8.19	9	4	28
08			34	25	31	70	29.98	30.07	7.73	9	4	28
09			36	25	32	67	29.99	30.07	7.78	11	5	28
10			38	26	34	63	29.98	30.07	8.34	11	4	28
11			40	26	35	60	29.97	30.06	8.62	12	5	28
12			41	26	35	58	29.95	30.04	8.71	12	5	28
13			42	26	36	56	29.92	30.01	9.39	13	6	28
14			43	27	37	57	29.90	29.98	9.07	13	6	28
15			43	28	37	57	29.89	29.98	8.85	12	5	28
16			43	28	37	58	29.88	29.97	8.51	11	5	28
17			42	28	36	61	29.89	29.98	8.16	11	6	28
18			40	27	35	64	29.90	29.99	8.22	9	5	28
19			39	27	35	66	29.92	30.00	8.64	10	5	28
20			38	27	34	67	29.93	30.02	8.98	9	5	28
21			36	27	33	69	29.94	30.03	9.10	9	5	28
22			36	26	33	70	29.94	30.03	8.59	9	5	28
23			36	26	32	71	29.94	30.03	8.34	8	4	28
24			35	26	32	71	29.94	30.03	8.21	8	4	28

WILMINGTON, DE FEBRUARY Temperatures



Long-Term (1957-2008) Mean: 33.8
1971-2000 Normal: 34.2

WILMINGTON, DE FEBRUARY Precipitation



Long-Term (1957-2008) Mean Monthly Total: 2.81

1971-2000 Normal: 2.81



**FEBRUARY 2008
WILMINGTON, DE**

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

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Thomas R. Karl
DIRECTOR

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