DECEMBER 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
										0700 LST	1300 LST	2400 LST	2400 LST						MAXIMUM 3-SEC		2-MIN		
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		DEPTH	WATER-EQUIV	SNOW-FALL	WATER EQUIV	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	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	57	38	48	7	40	44	17	0	RA FG BR	0		0.0	0.03	29.46	29.60	11.0	22	12.0	35	28	26	28	01
02	45	32	39	-1	27	34	26	0		0		0.0	0.00	29.98	30.11	5.1	26	6.8	20	24	15	30	02
03	45	27	36	-4	24	31	29	0		0		0.0	0.00	30.19	30.28	5.0	23	6.0	17	24	14	24	03
04	52	35	44	4	33	39	21	0	RA	0		0.0	0.02	30.03	30.13	4.8	24	8.3	24	31	18	32	04
05	41	27	34	-5	19	29	31	0		0		0.0	0.00	30.14	30.24	8.3	31	8.5	24	33	18	32	05
06	35	20	28	-11	22	27	37	0	SN BR	0		1.0	0.04	30.04	30.09	1.8	20	3.3	13	17	10	16	06
07	34	23	29	-10	18	27	36	0	SN BR	1		T	T	29.80	29.93	17.0	29	17.3	47	30	35	28	07
08	27	18	23	-16			42	0		0		0.0	0.00	30.29		3.0	30	5.1	18	29	15	29	08
09	59	44	52	14			13	0	RA BR	0		0.0	0.03	30.24		5.8	16	6.3	24	20	17	19	09
10	66	45	56	18	54	56	9	0	RA FG+ FG BR	0		0.0	0.20	29.88	29.97	8.0	21	12.6	35	20	22	20	10
11	45	40	43	5	40	41	22	0	RA BR	0		0.0	2.14	29.81	29.85	11.6	04	11.9	30	05	23	06	11
12	45	32	39	2	31	36	26	0	RA BR	0		0.0	0.26	29.57	29.72	12.8	31	13.7	37	32	30	31	12
13	36	25	31	-6	15	26	34	0		0		0.0	0.00	30.22	30.36	8.4	31	8.6	31	32	24	32	13
14	48	25	37	0	28	34	28	0		0		0.0	0.00	30.40	30.49	6.6	18	7.0	22	20	18	21	14
15	65	42	54	18	47	51	11	0	RA	0		0.0	0.01	30.24	30.30	8.3	21	9.2	30	22	21	22	15
16	58	33	46	10	33	37	19	0	RA BR	0		0.0	0.47	30.32	30.43	7.8	36	10.1	33	32	25	32	16
17	43	33	38	2	35	36	27	0	RA BR	0		0.0	0.22	30.07	30.16	2.5	29	4.6	20	25	16	26	17
18	42	29	36	0	30	34	29	0	BR	0		0.0	0.00	30.21	30.32	2.9	32	3.8	13	34	10	35	18
19	39	35	37	2	34	36	28	0	RA BR HZ	0		0.0	0.72	29.96	30.00	5.3	05	6.2	24	34	20	34	19
20	36	27	32	-3	26	29	33	0		0		0.0	0.00	29.93	30.04	8.7	02	9.2	22	02	17	01	20
21	38	26	32	-3	21	28	33	0	RA FZRA SN BR UP	0		T	0.20	29.67	29.74	8.7	31	12.2	41	29	33	29	21
22	27	15	21*	-14	1	16	44	0		0		0.0	0.00	30.01	30.19	18.0	29	18.3	44	29	33	29	22
23	31	14*	23	-11	11	20	42	0	UP	0		0.0	T	30.55	30.64	4.5	21	7.3	17	18	14	17	23
24	61	31	46	12	38	41	19	0	RA	0		0.0	0.04	30.19	30.21	8.7	19	9.5	36	20	26	20	24
25	61	26	44	10	25	35	21	0	RA	0		0.0	0.01	30.11	30.28	12.1	30	12.9	39	30	31	29	25
26	42	25	34	0	26	31	31	0	RA	0		0.0	T	30.44	30.53	1.1	12	3.2	13	16	10	17	26
27	57	38	48	14	41	43	17	0	RA FG+ FG BR	0		0.0	T	30.24	30.30	2.6	19	3.5	23	20	16	21	27
28	66*	46	56*	23	46	53	9	0		0		0.0	0.00	29.91	30.00	11.6	23	13.8	36	23	26	22	28
29	50	35	43	10	24	35	22	0		0		0.0	0.00	29.93	30.00	7.0	28	8.2	25	27	21	28	29
30	47	33	40	7	18	33	25	0		0		0.0	0.00	29.80	29.90	10.1	29	12.4	35	29	28	30	30
31	46	23	35	2	16	27	30	0	RA	0		0.0	T	29.63	29.75	14.4	32	17.6	59*	32	45*	31	31
	46.6	30.4	38.5	¤	28.4	34.8	26.2	0.0	< MONTHLY AVERAGES | TOTALS >			1.0	4.39	30.04	30.13	4.3	28	9.3	< MONTHLY AVERAGES				
	2.2	2.0	2.1		<---------- DEPARTURE FROM NORMAL ---------->								0.99	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DECEMBER 2008
WILMINGTON, DE

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING :	811	-61	1709	-76
COOLING :	0	0	1190	65

GREATEST 24-HR PRECIPITATION :	2.38	DATE :	11-12
GREATEST 24-HR SNOWFALL :	1.0	DATE :	06
GREATEST SNOW DEPTH :	1	DATE :	07

SEA LEVEL PRESSURE		DATE	TIME
MAXIMUM :	30.73	23	1108
MIMIMUM :	29.32	01	0051

NUMBER OF -> DAYS WITH

MAXIMUM TEMP >= 90 :	0	MINIMUM TEMP <= 32 :	18
MAXIMUM TEMP <= 32 :	3	MINIMUM TEMP <= 0 :	0
THUNDERSTORMS :	0	HEAVY FOG :	2

PRECIPITATION >= 0.01 INCH:	14
PRECIPITATION >= 0.10 INCH:	7
SNOWFALL >= 1.0 INCH :	1

HOURLY PRECIPITATION
(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)
DECEMBER 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	T	0.01	T										01					0.02	T							01	0.03	0.03
02													02													02	0.00	0.00
03													03													03	0.00	0.00
04													04						T	T	T	0.01	0.01			04	0.02	0.02
05													05													05	0.00	0.00
06													06					T	0.01	0.02	0.01	T				06	0.04	0.04
07	T	T							T	T			07													07	T	T
08													08													08	0.00	0.00
09													09											T	0.03	09	0.03	0.03
10		T				T		T		T	0.01		10		T	0.02	0.04	0.07	0.04	0.01	T	T	T	0.01	10	0.20	0.20
11	0.01	0.01	T	0.01	0.02	0.02	0.01	T	0.08	0.11	0.02	0.06	11	0.01	0.05	0.19	0.07	0.04	0.26	0.21	0.33	0.15	0.24	0.13	0.11	11	2.14	2.14
12	0.12	0.12	0.02	T				T	T				12													12	0.26	0.26
13													13													13	0.00	0.00
14													14													14	0.00	0.00
15													15												0.01	15	0.01	0.01
16	0.02		T		T	T	T	0.01			T	0.01	16	0.03	T	T	T	0.03	T	T	0.02	T	0.06	0.08	0.21	16	0.47	0.47
17	0.09	0.04	0.02	0.05	0.01	0.01							17													17	0.22	0.22
18													18													18	0.00	0.00
19						T	T	T	0.01	0.03	0.05	0.09	19	0.03	0.17	0.12	0.05	0.14	0.03							19	0.72	0.72
20													20													20	0.00	0.00
21				T	0.01	0.01	0.03	0.07	0.05	0.03	T		21													21	0.20	0.20
22													22													22	0.00	0.00
23													23												T	23	T	T
24	0.01	T	T	T	T	T					T		24		0.01			T	T	T		T	0.01		0.01	24	0.04	0.04
25	T	0.01											25													25	0.01	0.01
26													26											T	T	26	T	T
27					T								27													27	T	T
28													28													28	0.00	0.00
29													29													29	0.00	0.00
30													30													30	0.00	0.00
31												T	31	T												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)	0.09	0.12	0.15	0.16	0.22	0.28	0.36	0.45	0.50	0.57	0.71	0.82
Ending Date	11	11	11	11	11	11	11	11	11	11	11	11
Ending Time (Hr/Min)	1935	1938	1943	1943	2000	1938	1943	2002	2007	1935	2002	2134

Date and time are not entered for TRACE amounts.

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.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

*** = Extreme for the month (last occurence 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
DECEMBER 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:

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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
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Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
			SR-SS		MN-MN				
	TOTAL MINUTES	PERCENT POSSIBLE	Sky Cover	Satellite	Sky Cover	Satellite	MINIMUM	MAXIMUM	
01							1.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							7.00	10.00	
05							10.00	10.00	
06							1.25	10.00	
07							2.00	10.00	
08							10.00	10.00	
09							9.00	10.00	
10							0.50	10.00	
11							1.75	10.00	
12							5.00	10.00	
13							10.00	10.00	
14							9.00	10.00	
15							7.00	10.00	
16							4.00	10.00	
17							2.50	10.00	
18							5.00	10.00	
19							1.00	10.00	
20							5.00	10.00	
21							2.50	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							9.00	10.00	
26							10.00	10.00	
27							0.25	10.00	
28							9.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							7.00	10.00	
MONTHLY AVGS							6.41	10.00	

SUNSHINE (Minutes)

Total : 0 **Possible : 17526**
Percent Possible : 0

NUMBER OF DAYS WITH :

SKY CONDITION

Clear	Partly CLDY	Cloudy	Missing

MINIMUM VISIBILTY (MILES)

<= .25	<= 3.0	>= 7.0
1	9	18

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

DECEMBER 2008 KILG WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0704 DEC 01 SUNSET: 1639								
01	OVC	055			1.00		53	53	53	100	15	17	29.25	29.32
04	OVC	015			1.00		48	45	47	89	17	22	29.35	29.42
07	BKN	019			10.00		44	42	43	93	9	23	29.46	29.54
10	OVC	016			10.00		47	41	44	80	13	20	29.49	29.58
13	BKN	055			10.00		51	40	46	66	13	22	29.49	29.57
16	SCT	070			10.00		49	35	43	59	13	22	29.54	29.62
19	BKN	070			10.00		41	37	39	86	6	20	29.67	29.76
22	FEW	085			10.00		40	35	38	82	7	23	29.77	29.84
						SUNRISE: 0705 DEC 02 SUNSET: 1639								
01	CLR	NC			10.00		40	33	37	76	8	23	29.82	29.90
04	CLR	NC			10.00		37	30	34	76	7	22	29.90	29.98
07	CLR	NC			10.00		35	29	33	79	6	22	29.96	30.05
10	CLR	NC			10.00		42	29	37	60	7	27	30.04	30.13
13	FEW	045			10.00		43	25	36	49	10	28	30.03	30.12
16	OVC	047			10.00		41	24	35	51	9	32	30.06	30.15
19	CLR	NC			10.00		37	23	32	57	0	00	30.09	30.19
22	OVC	055			10.00		32	26	30	79	3	29	30.14	30.22
						SUNRISE: 0706 DEC 03 SUNSET: 1639								
01	BKN	055			10.00		32	25	29	75	5	25	30.16	30.25
04	CLR	NC			10.00		30	23	28	75	6	26	30.19	30.27
07	CLR	NC			10.00		27	20	25	75	3	25	30.23	30.32
10	CLR	NC			10.00		36	23	31	59	6	25	30.27	30.36
13	CLR	NC			10.00		43	24	36	47	5	VR	30.19	30.28
16	CLR	NC			10.00		44	24	36	45	9	23	30.17	30.26
19	CLR	NC			10.00		38	24	33	57	5	21	30.16	30.26
22	CLR	NC			10.00		36	26	32	67	7	19	30.15	30.24
						SUNRISE: 0707 DEC 04 SUNSET: 1638								
01	CLR	NC			10.00		36	30	34	79	7	19	30.09	30.18
04	CLR	NC			10.00		36	32	34	85	6	18	30.06	30.14
07	FEW	100			10.00		36	31	34	82	5	17	30.02	30.11
10	OVC	080			10.00		45	33	40	63	8	21	30.03	30.12
13	CLR	NC			10.00		51	34	43	52	8	22	29.98	30.07
16	OVC	080			10.00		49	34	42	56	6	24	30.01	30.09
19	OVC	030			10.00	-RA	46	38	42	74	6	31	30.06	30.14
22	OVC	046			10.00		41	35	38	79	9	29	30.10	30.19
						SUNRISE: 0708 DEC 05 SUNSET: 1638								
01	OVC	055			10.00		40	28	35	62	10	31	30.10	30.19
04	CLR	NC			10.00		34	22	30	62	10	32	30.14	30.22
07	CLR	NC			10.00		32	19	28	59	10	31	30.17	30.27
10	CLR	NC			10.00		37	21	31	52	11	30	30.22	30.30
13	CLR	NC			10.00		37	19	31	48	16	30	30.16	30.25
16	CLR	NC			10.00		36	15	29	42	10	30	30.14	30.22
19	CLR	NC			10.00		30	16	26	56	5	33	30.16	30.25
22	CLR	NC			10.00		28	15	24	58	5	30	30.16	30.25
						SUNRISE: 0709 DEC 06 SUNSET: 1638								
01	CLR	NC			10.00		25	16	22	69	3	28	30.14	30.22
04	CLR	NC			10.00		23	17	21	78	6	31	30.14	30.22
07	CLR	NC			10.00		23	14	20	68	0	00	30.14	30.22
10	CLR	NC			10.00		29	14	24	53	0	00	30.11	30.20
13	BKN	036			10.00		34	18	29	52	0	00	30.01	30.09
16	SCT	042			10.00		35	24	31	64	3	21	29.94	30.03
19	OVC	010			1.25	-SN BR	32	30	31	92	3	21	29.91	29.99
22	OVC	006			4.00	BR	33	31	32	92	6	19	29.83	29.91

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0709 DEC 07 SUNSET: 1638								
01	OVC	011			3.00	BR	34	34	34	100	5	23	29.72	29.81
04	OVC	090			6.00	BR	33	33	33	100	6	27	29.67	29.75
07	OVC	090			10.00		33	31	32	92	7	25	29.69	29.77
10	CLR	NC			10.00		33	23	29	67	26	30	29.77	29.85
13	FEW	055			10.00		33	15	27	48	30	29	29.78	29.87
16	CLR	NC			10.00		31	8	24	38	29	29	29.88	29.96
19	CLR	NC			10.00		27	6	21	41	18	30	30.01	30.09
22	CLR	NC			10.00		25	7	20	46	16	30	30.09	30.18
						SUNRISE: 0710 DEC 08 SUNSET: 1638								
01	CLR	NC			10.00		22	8	18	55	11	29	30.19	30.27
04	CLR	NC			10.00		19	8	16	62	7	30	30.22	30.31
07	CLR	NC			10.00		21	4	17	48	9	33	30.29	30.39
10	OVC	085			10.00		23	3	18	42	7	33	30.36	30.45
13	OVC	070			10.00		25	4	20	40	6	28	30.35	30.43
16	OVC	070			10.00		26	4	20	39	0	00	30.35	30.44
19	OVC	075			10.00		27	6	21	41	0	00	30.38	30.47
22	OVC	055			10.00						5	12	30.40	
						SUNRISE: 0711 DEC 09 SUNSET: 1638								
01	CLR	NC			10.00						6	12	30.37	
04	BKN	100			10.00						3	09	30.35	
07	SCT	110			10.00						5	14	30.31	
10	OVC	040			10.00						8	17	30.28	
13	OVC	050			10.00		47	35	42	63	5	15	30.19	
16	OVC	075			10.00		50	39	45	66	6	16	30.10	
19	OVC	085			10.00		50	41	46	71	0	00	30.11	
22	OVC	085			10.00		59	51	55	75	11	18	30.06	
						SUNRISE: 0712 DEC 10 SUNSET: 1638								
01	OVC	060			10.00		51	49	50	93	6	15	29.99	30.08
04	OVC	055			10.00		62	53	57	73	18	20	29.93	30.01
07	OVC	034			10.00		62	55	58	78	18	20	29.90	29.98
10	OVC	023			10.00	-RA	62	57	59	84	14	20	29.88	29.96
13	OVC	037			10.00		66	58	61	76	21	20	29.80	29.88
16	OVC	030			7.00	-RA	57	56	56	96	8	30	29.83	29.92
19	OVC	070			4.00	-RA BR	56	55	55	96	0	00	29.86	29.95
22	OVC	006			8.00	-RA	51	51	51	100	10	04	29.91	29.98
						SUNRISE: 0713 DEC 11 SUNSET: 1638								
01	OVC	012			10.00	-RA	44	42	43	93	11	01	29.90	29.98
04	OVC	010			8.00	-RA	42	40	41	93	8	02	29.91	29.98
07	OVC	008			6.00	-RA BR	41	39	40	93	13	03	29.88	29.97
10	OVC	018			1.75	RA BR	40	38	39	93	13	04	29.91	29.98
13	OVC	006			4.00	-RA BR	40	39	40	96	9	03	29.82	29.90
16	OVC	007			2.00		40	39	40	96	11	04	29.73	29.82
19	OVC	007			4.00	+RA BR	41	40	41	96	11	03	29.67	29.75
22	OVC	017			6.00	RA BR	41	40	41	96	20	06	29.49	29.58
						SUNRISE: 0714 DEC 12 SUNSET: 1639								
01	OVC	021			5.00	+RA BR	40	39	40	96	14	33	29.40	29.48
04	OVC	005			10.00		40	39	40	96	10	28	29.34	29.42
07	OVC	009			10.00		40	38	39	93	9	29	29.40	29.47
10	BKN	095			10.00		41	34	38	76	11	33	29.53	29.61
13	BKN	032			10.00		44	31	39	60	25	32	29.62	29.71
16	OVC	036			10.00		38	26	33	62	21	31	29.78	29.87
19	CLR	NC			10.00		34	25	31	70	8	29	29.88	29.97
22	OVC	050			10.00		36	25	32	64	11	30	29.96	30.05

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

DECEMBER 2008 KILG WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0714 DEC 13				SUNSET: 1639				
01	CLR	NC			10.00		32	17	27	54	14	30	30.02	30.11
04	CLR	NC			10.00		30	13	25	49	15	30	30.11	30.20
07	FEW	047			10.00		25	14	22	63	7	30	30.20	30.29
10	CLR	NC			10.00		32	11	26	42	23	32	30.30	30.39
13	CLR	NC			10.00		34	12	27	40	13	31	30.28	30.37
16	CLR	NC			10.00		33	14	27	46	10	32	30.33	30.42
19	CLR	NC			10.00		30	18	26	61	0	00	30.38	30.47
22	CLR	NC			10.00		26	18	24	72	3	26	30.43	30.52
						SUNRISE: 0715 DEC 14				SUNSET: 1639				
01	CLR	NC			10.00		27	19	24	72	0	00	30.41	30.50
04	CLR	NC			9.00		27	21	25	78	0	00	30.44	30.53
07	CLR	NC			10.00		30	20	27	66	3	22	30.46	30.55
10	CLR	NC			10.00		39	25	34	57	13	19	30.46	30.55
13	CLR	NC			10.00		45	28	38	51	11	21	30.39	30.49
16	CLR	NC			10.00		45	32	40	60	10	16	30.35	30.44
19	CLR	NC			10.00		44	35	40	71	11	17	30.36	30.45
22	OVC	060			10.00		44	38	41	80	6	17	30.35	30.44
						SUNRISE: 0716 DEC 15				SUNSET: 1639				
01	OVC	080			10.00		43	39	41	86	5	14	30.33	30.42
04	OVC	065			9.00		44	40	42	86	5	17	30.32	30.41
07	OVC	055			8.00		45	42	44	89	0	00	30.30	30.39
10	CLR	NC			10.00		51	45	48	80	0	00	30.27	30.35
13	BKN	110			10.00		64	51	57	63	20	22	30.19	30.27
16	OVC	110			10.00		64	52	57	65	11	20	30.14	30.23
19	OVC	120			10.00		63	52	57	68	15	19	30.14	30.22
22	OVC	095			10.00		62	52	57	70	11	22	30.14	30.22
						SUNRISE: 0716 DEC 16				SUNSET: 1639				
01	OVC	032			10.00		53	49	51	86	10	33	30.19	30.27
04	OVC	048			10.00		47	33	41	58	11	31	30.28	30.37
07	OVC	065			10.00		40	36	38	86	8	34	30.36	30.45
10	OVC	070			10.00		41	32	37	70	8	33	30.42	30.51
13	OVC	080			10.00		39	33	37	79	9	36	30.38	30.47
16	OVC	040			8.00	-RA	35	30	33	82	9	02	30.39	30.47
19	OVC	034			5.00	BR	33	31	32	92	11	04	30.37	30.46
22	OVC	013			5.00	RA BR	33	31	32	92	9	07	30.29	30.38
						SUNRISE: 0717 DEC 17				SUNSET: 1640				
01	OVC	026			7.00	-RA	33	32	33	96	8	05	30.19	30.28
04	OVC	004			4.00	-RA BR	34	33	34	96	5	01	30.11	30.20
07	OVC	004			8.00		35	34	35	96	0	00	30.03	30.12
10	OVC	019			8.00		38	36	37	93	8	21	30.01	30.10
13	OVC	007			10.00		41	38	40	89	7	24	29.98	30.07
16	SCT	011			10.00		42	38	40	86	6	31	30.01	30.10
19	CLR	NC			10.00		38	34	36	86	5	33	30.09	30.18
22	CLR	NC			8.00		37	34	36	89	0	00	30.11	30.20
						SUNRISE: 0718 DEC 18				SUNSET: 1640				
01	CLR	NC			8.00		35	31	33	85	3	33	30.17	30.26
04	CLR	NC			9.00		32	28	31	85	6	31	30.22	30.31
07	CLR	NC			7.00		30	27	29	89	6	32	30.24	30.34
10	CLR	NC			10.00		37	30	34	76	9	35	30.30	30.40
13	CLR	NC			10.00		40	30	36	68	0	00	30.23	30.32
16	CLR	NC			9.00		41	32	37	70	3	21	30.19	30.28
19	CLR	NC			9.00		36	30	34	79	3	34	30.22	30.31
22	OVC	025			8.00		38	32	36	79	0	00	30.22	30.30

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0718 DEC 19				SUNSET: 1641				
01	OVC	030			7.00		38	33	36	82	0	00	30.19	30.28
04	OVC	038			6.00	HZ	38	33	36	82	0	00	30.19	30.27
07	OVC	025			6.00	HZ	38	33	36	82	3	04	30.12	30.21
10	OVC	035			3.00	-RA BR	36	33	35	89	17	07	30.01	30.10
13	OVC	004			2.00	-RA BR	36	34	35	92	7	36	29.88	29.98
16	OVC	004			2.00	-RA BR	38	38	38	100	6	01	29.62	29.71
19	OVC	024			10.00		37	35	36	93	7	02	29.67	29.76
22	OVC	006			10.00		36	34	35	92	8	05	29.72	29.80
						SUNRISE: 0719 DEC 20				SUNSET: 1641				
01	OVC	004			5.00	BR	36	34	35	92	8	04	29.78	29.87
04	OVC	039			7.00		35	33	34	92	9	01	29.85	29.95
07	OVC	039			10.00		33	30	32	89	13	36	29.93	30.02
10	CLR	NC			10.00		32	26	30	79	13	01	29.99	30.08
13	OVC	017			10.00		30	23	28	75	11	01	29.99	30.08
16	OVC	021			10.00		29	22	27	75	8	01	30.01	30.10
19	OVC	019			10.00		28	21	26	75	10	36	30.03	30.12
22	OVC	050			10.00		27	21	25	78	8	05	29.99	30.08
						SUNRISE: 0719 DEC 21				SUNSET: 1641				
01	OVC	013			10.00		27	21	25	78	10	06	29.91	30.00
04	OVC	009			2.50	-FZRA BR	27	25	26	92	8	34	29.85	29.93
07	OVC	004			5.00	-FZRA BR	29	27	28	92	6	36	29.67	29.76
10	OVC	042			3.00	-FZRA BR	30	29	30	96	9	32	29.62	29.72
13	OVC	060			6.00	BR	34	32	33	92	10	30	29.52	29.60
16	CLR	NC			8.00		37	29	34	73	14	30	29.52	29.60
19	CLR	NC			10.00		35	10	27	35	13	27	29.59	29.68
22	CLR	NC			10.00		31	5	24	33	28	28	29.62	29.71
						SUNRISE: 0720 DEC 22				SUNSET: 1642				
01	CLR	NC			10.00		24	-2	18	32	23	28	29.72	29.81
04	CLR	NC			10.00		18	-1	14	43	17	29	29.83	29.92
07	CLR	NC			10.00		15	-2	12	47	24	29	29.94	30.03
10	CLR	NC			10.00		19	-0	15	43	21	28	30.06	30.14
13	CLR	NC			10.00		25	1	19	35	22	29	30.09	30.18
16	CLR	NC			10.00		26	1	20	34	16	28	30.19	30.27
19	CLR	NC			10.00		23	5	18	46	14	29	30.31	30.40
22	CLR	NC			10.00		21	5	17	50	15	30	30.41	30.50
						SUNRISE: 0720 DEC 23				SUNSET: 1642				
01	CLR	NC			10.00		18	6	15	59	7	27	30.48	30.58
04	CLR	NC			10.00		17	7	15	65	7	26	30.58	30.67
07	CLR	NC			10.00		14	7	12	74	7	28	30.58	30.68
10	CLR	NC			10.00		23	8	19	52	5	33	30.61	30.71
13	CLR	NC			10.00		27	11	22	51	8	15	30.59	30.68
16	SCT	110			10.00		29	11	24	47	6	17	30.54	30.63
19	OVC	120			10.00		29	13	24	51	9	18	30.53	30.62
22	OVC	090			10.00		30	15	25	54	11	17	30.46	30.55
						SUNRISE: 0721 DEC 24				SUNSET: 1643				
01	OVC	075			10.00	UP	31	25	29	78	9	17	30.38	30.47
04	OVC	025			10.00		33	29	31	85	5	19	30.36	30.45
07	OVC	060			10.00		35	31	33	85	6	17	30.30	30.39
10	OVC	036			10.00		38	31	35	76	10	16	30.27	30.37
13	OVC	070			10.00		42	35	39	76	6	16	30.16	30.25
16	BKN	095			10.00		45	40	43	83	3	18	30.01	30.10
19	BKN	120			10.00		57	49	53	75	17	20	29.91	30.00
22	OVC	039			10.00		60	53	56	78	23	21	29.80	29.88

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
DECEMBER 2008 KILG WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
	SUNRISE: 0721		DEC 25		SUNSET: 1644									
01	OVC	033			9.00	-RA	56	51	53	83	25	25	29.83	29.91
04	CLR	NC			10.00		51	21	39	31	25	29	29.96	30.05
07	CLR	NC			10.00		45	23	37	42	10	30	30.09	30.17
10	CLR	NC			10.00		44	23	36	44	13	31	30.22	30.29
13	CLR	NC			10.00		45	22	36	40	15	31	30.22	30.29
16	CLR	NC			10.00		42	22	35	45	15	31	30.27	30.35
19	CLR	NC			10.00		33	21	29	61	6	30	30.36	30.45
22	CLR	NC			10.00		32	22	29	67	6	31	30.43	30.52
	SUNRISE: 0722		DEC 26		SUNSET: 1644									
01	CLR	NC			10.00		29	21	26	72	7	35	30.42	30.51
04	CLR	NC			10.00		29	20	26	69	3	36	30.45	30.54
07	CLR	NC			10.00		27	22	25	81	5	32	30.48	30.57
10	CLR	NC			10.00		35	24	31	64	8	08	30.50	30.59
13	CLR	NC			10.00		40	27	35	60	0	00	30.46	30.55
16	CLR	NC			10.00		40	28	35	62	6	16	30.42	30.51
19	BKN	085			10.00		38	29	34	70	3	18	30.41	30.50
22	BKN	037			10.00		38	32	36	79	7	13	30.36	30.45
	SUNRISE: 0722		DEC 27		SUNSET: 1645									
01	OVC	035			10.00		39	33	37	79	0	00	30.35	30.45
04	OVC	023			10.00		39	36	38	89	5	17	30.31	30.40
07	OVC	009			6.00	BR	40	37	39	89	7	19	30.29	30.38
10	OVC	001			0.75	BR	41	40	41	96	3	16	30.27	30.36
13	OVC	008			6.00	BR	47	43	45	86	0	00	30.19	30.27
16	SCT	011			7.00		51	47	49	86	3	13	30.14	30.22
19	CLR	NC			2.50	BR	46	45	46	96	0	00	30.14	30.22
22	OVC	010			0.75	BR	43	43	43	100	0	00	30.09	30.17
	SUNRISE: 0722		DEC 28		SUNSET: 1646									
01	OVC	010			10.00		57	55	56	93	13	21	30.02	30.11
04	OVC	008			9.00		57	54	55	90	17	22	30.01	30.09
07	OVC	024			10.00		60	56	58	87	16	22	29.96	30.04
10	OVC	028			10.00		62	56	59	81	18	20	29.86	29.95
13	OVC	033			10.00		65	56	60	73	20	20	29.78	29.87
16	OVC	044			10.00		64	55	59	73	9	27	29.83	29.91
19	CLR	NC			10.00		58	28	45	32	7	25	29.91	29.99
22	CLR	NC			10.00		51	25	40	36	8	28	29.96	30.05
	SUNRISE: 0723		DEC 29		SUNSET: 1646									
01	CLR	NC			10.00		44	27	37	51	11	31	29.98	30.07
04	CLR	NC			10.00		38	26	33	62	7	30	30.01	30.09
07	CLR	NC			10.00		36	26	32	67	5	27	30.02	30.11
10	CLR	NC			10.00		39	27	34	62	7	27	30.02	30.11
13	CLR	NC			10.00		48	24	38	39	14	29	29.91	29.99
16	CLR	NC			10.00		48	20	37	33	16	30	29.86	29.95
19	CLR	NC			10.00		41	20	33	43	5	22	29.85	29.93
22	CLR	NC			10.00		38	22	32	53	5	21	29.75	29.83
	SUNRISE: 0723		DEC 30		SUNSET: 1647									
01	CLR	NC			10.00		38	25	33	60	10	24	29.70	29.78
04	CLR	NC			10.00		41	23	34	49	10	28	29.72	29.81
07	CLR	NC			10.00		41	22	34	47	18	29	29.80	29.88
10	CLR	NC			10.00		42	16	33	35	23	30	29.88	29.97
13	CLR	NC			10.00		46	14	35	27	18	31	29.85	29.93
16	CLR	NC			10.00		45	13	34	27	9	30	29.86	29.95
19	CLR	NC			10.00		39	14	31	36	0	00	29.90	29.98
22	CLR	NC			10.00		35	23	31	62	3	10	29.82	29.91

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
	SUNRISE: 0723		DEC 31		SUNSET: 1648									
01	CLR	NC			10.00		34	19	29	54	5	13	29.70	29.80
04	CLR	NC			10.00		35	21	30	57	7	07	29.51	29.59
07	BKN	110			10.00		35	27	32	73	6	36	29.39	29.47
10	BKN	095			10.00		43	26	36	51	13	28	29.41	29.50
13	SCT	043			7.00		35	15	28	44	40	31	29.54	29.63
16	SCT	070			10.00		33	10	26	38	22	32	29.75	29.83
19	FEW	070			10.00		28	3	21	34	18	33	29.91	30.00
22	CLR	NC			10.00		23	4	18	44	13	30	30.01	30.09

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

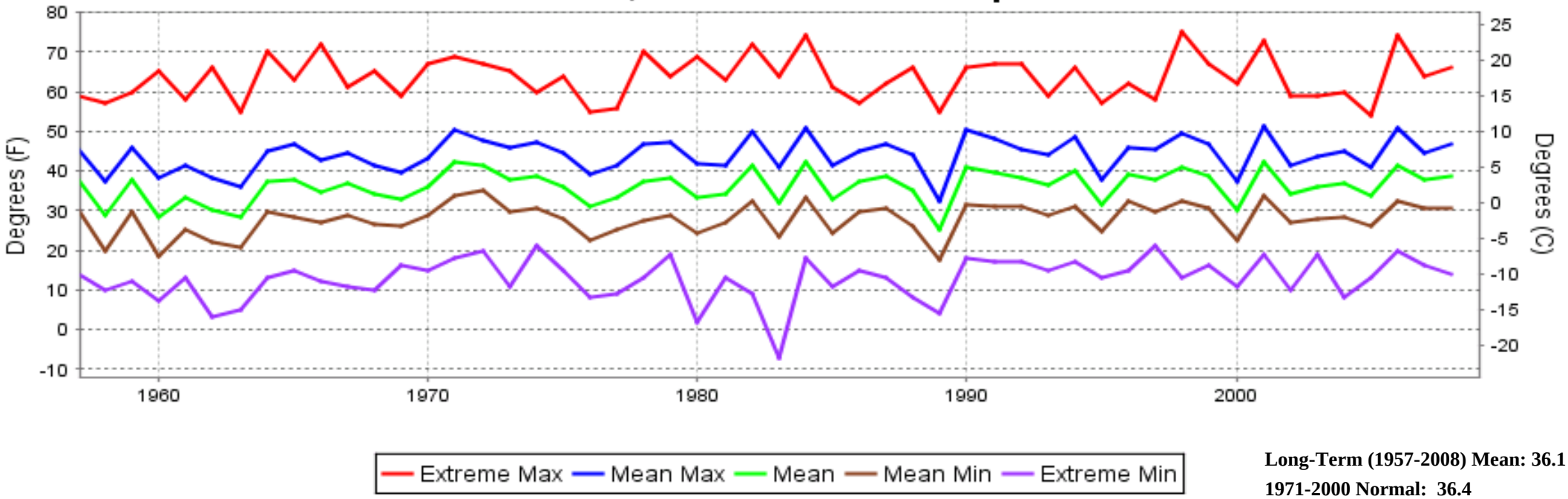
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation containted additional weather elements.
See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG) STATION	PRESSURE (Inches, HG) SEA LEVEL	VISIBILITY (Miles)	WIND SPEED (MPH)	RESULTANT WIND (MPH) SPEED	RESULTANT WIND (MPH) DIRECTION
01			37	30	34	76	30.03	30.11	8.87	9	3	28
02			37	29	34	75	30.03	30.11	8.92	9	4	27
03			36	28	34	74	30.04	30.11	8.90	8	4	27
04			36	28	33	75	30.04	30.12	8.73	9	5	27
05			35	28	33	77	30.04	30.11	8.81	8	3	28
06			35	28	33	77	30.04	30.12	8.90	7	4	28
07			35	28	32	77	30.05	30.13	9.23	8	4	27
08			35	28	33	77	30.06	30.14	8.97	8	4	28
09			37	28	34	72	30.07	30.15	8.58	10	5	27
10			39	28	35	67	30.08	30.16	8.92	11	5	27
11			40	28	36	64	30.07	30.15	9.16	12	6	27
12			41	28	36	62	30.05	30.13	9.45	12	8	27
13			42	28	37	61	30.03	30.12	9.19	12	8	27
14			43	28	37	60	30.02	30.11	9.32	13	6	27
15			42	28	37	60	30.02	30.11	9.07	12	6	27
16			41	28	36	61	30.03	30.12	9.13	10	5	27
17			40	27	35	64	30.05	30.13	9.10	9	4	27
18			39	27	34	65	30.06	30.14	9.07	8	4	28
19			39	27	34	66	30.07	30.15	8.90	7	3	28
20			38	27	34	67	30.07	30.15	8.61	7	3	28
21			38	28	35	70	30.07	30.14	8.56	8	3	28
22			38	28	34	72	30.07	30.14	9.02	9	3	28
23			37	28	34	72	30.06	30.14	8.94	8	3	28
24			37	29	34	74	30.06	30.14	9.00	8	3	28

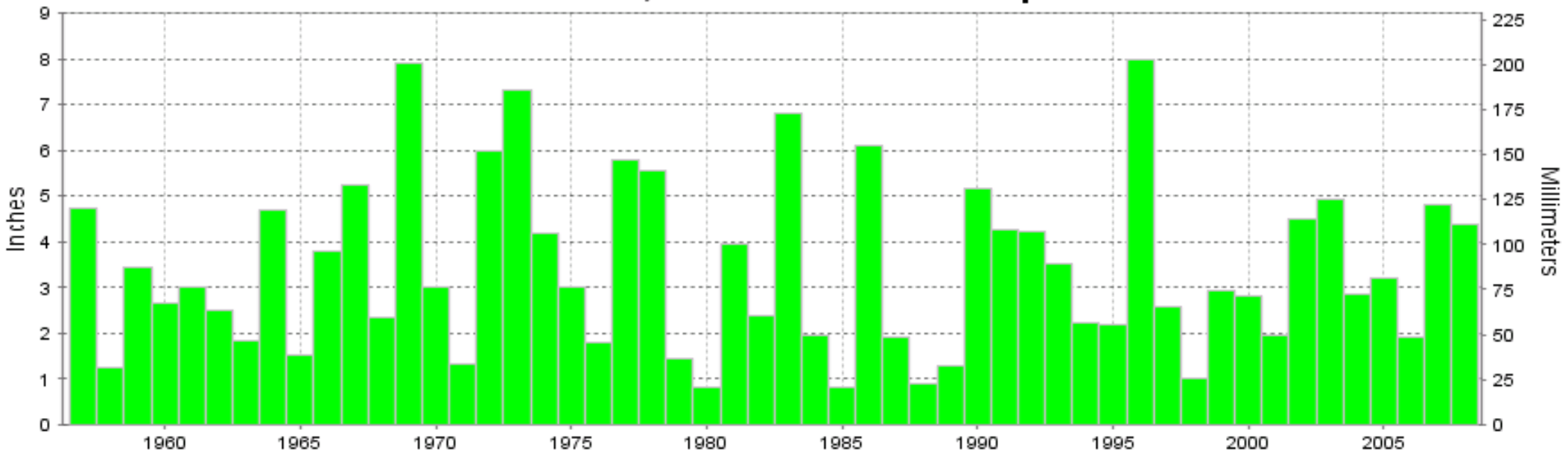
WILMINGTON, DE DECEMBER Temperatures



Long-Term (1957-2008) Mean: 36.1

1971-2000 Normal: 36.4

WILMINGTON, DE DECEMBER Precipitation



Long-Term (1957-2008) Mean Monthly Total: 3.44

1971-2000 Normal: 3.40

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DECEMBER 2008
WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

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