DECEMBER 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

Date	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITIATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES							Date
										0700 LST	1300 LST	2400 LST	2400 LST						MAXIMUM 5-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	40	29	35	-6	14	28	30	0		0		0.0	0.00	30.32	30.45	8.1	32	10.4	23	30	20	31	01
02	45	29	37	-3	26	31	28	0	RA FZRA BR UP	0		0.0	1.04	30.25	30.27	6.0	07	6.8	15	09	13	04	02
03	52	34	43	3	33	39	22	0	RA SN BR	0		T	0.15	29.59	29.68	16.8	27	17.8	51*	29	38*	27	03
04	38	28	33	-7	14	27	32	0		0		0.0	0.00	29.64	29.74	19.0	28	19.3	40	27	33	28	04
05	31	23	27	-12	21	26	38	0	SN BR	0		4.0	0.15	29.72	29.82	2.8	31	6.2	14	01	12	25	05
06	31	16	24*	-15	13	21	41	0		3		0.0	0.00	30.14	30.28	6.0	30	6.7	18	34	15	33	06
07	35	16*	26	-13	23	27	39	0	RA SN BR	1		0.1	0.03	30.25	30.33	1.7	21	2.4	14	22	12	21	07
08	50	33	42	3	34	37	23	0	SN BR HZ	T		T	0.15	30.20	30.31	3.3	29	3.8	16	29	14	30	08
09	41	34	38	0	32	35	27	0	RA BR HZ	0		0.0	0.11	30.32	30.39	4.8	05	5.3	15	05	13	05	09
10	47	38	43	5	39	41	22	0	RA BR HZ	0		0.0	0.14	30.13	30.24	3.2	36	3.6	12	04	10	04	10
11	50	41	46	8	40	42	19	0	FG+ FG BR HZ	0		0.0	0.00	30.22	30.28	3.1	14	6.7	16	20	14	15	11
12	58	37	48	11	42	46	17	0	BR HZ	0		0.0	0.00	29.95	30.07	4.9	30	10.4	26	30	23	31	12
13	38	33	36	-1	29	33	29	0	RA BR	0		0.0	0.28	30.08	30.15	4.6	03	6.6	21	07	17	07	13
14	48	31	40	3	30	34	25	0	FG+ FG BR HZ	0		0.0	0.00	30.08	30.20	7.4	30	8.1	25	32	22	31	14
15	37	27	32	-4	22	30	33	0	RA BR	0		0.0	0.03	30.28	30.34	8.5	05	10.4	24	07	21	07	15
16	45	33	39	3	33	37	26	0	RA BR	0		0.0	1.00	29.44	29.48	5.1	32	18.4	44	25	37	28	16
17	39	30	35	-1	16	28	30	0		0		0.0	0.00	29.83	29.99	17.7	28	18.4	43	30	33	29	17
18	39	25	32	-4	18	27	33	0		0		0.0	0.00	30.26	30.36	5.9	26	7.0	21	27	17	29	18
19	45	29	37	2	27	34	28	0		0		0.0	0.00	30.11	30.18	4.6	18	6.6	16	16	14	14	19
20	46	30	38	3	25	33	27	0	HZ	0		0.0	0.00	30.09	30.20	7.5	31	8.3	18	29	15	33	20
21	43	29	36	1	33	36	29	0	RA BR	0		0.0	0.01	30.24	30.36	9.8	05	10.3	20	05	17	06	21
22	44	35	40	5	36	39	25	0	FG BR HZ	0		0.0	0.00	30.37	30.46	12.1	05	12.1	22	05	18	05	22
23	64*	41	53*	19	48	50	12	0	RA FG+ FG BR	0		0.0	0.54	29.96	30.01	5.5	16	14.3	39	28	32	28	23
24	47	36	42	8	20	34	23	0		0		0.0	0.00	29.89	30.01	9.2	25	10.2	30	25	24	24	24
25	48	31	40	6	26	34	25	0		0		0.0	0.00	30.16	30.27	4.5	30	5.4	17	30	14	29	25
26	38	27	33	-1	29	33	32	0	RA BR	0		0.0	0.14	30.06	30.14	8.0	02	8.4	23	03	20	02	26
27	45	33	39	5	36	38	26	0	RA BR	0		0.0	0.01	29.95	30.06	2.8	31	5.7	16	31	13	01	27
28	47	28	38	5	34	37	27	0	RA BR HZ	0		0.0	0.24	30.20	30.28	3.0	13	4.5	15	06	13	06	28
29	54	38	46	13	39	43	19	0	RA FG BR	0		0.0	0.39	29.91	30.01	5.5	29	8.6	23	32	20	31	29
30	43	30	37	4	32	35	28	0	RA BR	0		0.0	0.23	30.01	30.07	4.0	05	5.5	18	08	15	09	30
31	48	32	40	7	32	36	25	0	RA BR	0		0.0	0.18	29.89	30.01	6.3	28	8.5	28	29	23	28	31
	44.4	30.8	37.6	¤	28.9	34.5	27.1	0.0	< MONTHLY AVERAGES | TOTALS >			4.1	4.82	30.05	30.13	3.1	31	8.9	< MONTHLY AVERAGES				
	0.0	2.4	1.2		<---------- DEPARTURE FROM NORMAL ---------->								1.42	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DECEMBER 2007
WILMINGTON, DE

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING :	840	-32	1581	-204
COOLING :	0	0	1377	252

GREATEST 24-HR PRECIPITATION : 1.18 DATE : 02-03
GREATEST 24-HR SNOWFALL : 4.0 DATE : 05
GREATEST SNOW DEPTH : 3 DATE : 06

SEA LEVEL PRESSURE	DATE	TIME
MAXIMUM :	01	2151
MIMIMUM :	16	1251

NUMBER OF -> DAYS WITH

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

PRECIPITATION >= 0.01 INCH:	18
PRECIPITATION >= 0.10 INCH:	14
SNOWFALL >= 1.0 INCH :	1

HOURLY PRECIPITATION
(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)
DECEMBER 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													01													01	0.00	0.00
02			T							0.01	T	T	02	0.01	0.02	0.03	0.01	0.06	0.11	0.03	0.05	0.12	0.04	0.14	0.41	02	1.04	1.04
03	0.10	0.04	T				T						03								0.01	T			T	03	0.15	0.15
04													04													04	0.00	0.00
05											T	T	05	0.03	0.02	T	0.01	0.02	0.02	0.02	0.02	0.01	T	T		05	0.15	0.15
06													06													06	0.00	0.00
07												T	07	T	T	0.01	0.02	T	T	T	T	T	T	T	T	07	0.03	0.03
08	T	T	0.04	0.04	0.04	0.02	0.01	T	T	T			08													08	0.15	0.15
09	T	T		T	0.01	T	T		T	0.01	T	T	09	T								T	0.07	0.02		09	0.11	0.11
10					0.01	0.05	0.02						10				T		0.01	0.03	0.01	T	T	0.01		10	0.14	0.14
11													11													11	0.00	0.00
12													12													12	0.00	0.00
13							T	0.04	0.02	0.05	0.03	T	13	0.01	0.02	0.04	0.07		T							13	0.28	0.28
14													14													14	0.00	0.00
15													15								T		T	T	0.03	15	0.03	0.03
16	0.09	0.19	0.21	0.14	0.14	0.04	0.03	0.03	0.02	0.01	0.02	0.02	16	0.05	0.01	T										16	1.00	1.00
17													17													17	0.00	0.00
18													18													18	0.00	0.00
19													19													19	0.00	0.00
20													20													20	0.00	0.00
21													21				T	T	0.01	T	T					21	0.01	0.01
22													22													22	0.00	0.00
23				0.01	T	0.01							23		0.01	0.04	T	0.18	0.08	0.20		0.01				23	0.54	0.54
24													24													24	0.00	0.00
25													25													25	0.00	0.00
26												T	26	T		T	0.01	0.04	0.04	T	0.01	0.04	T	T	T	26	0.14	0.14
27	T					T	T	0.01					27													27	0.01	0.01
28													28								T	T	0.09	0.09	0.06	28	0.24	0.24
29	0.17	0.17	0.03		0.01	0.01							29													29	0.39	0.39
30													30			0.01	0.04	0.04	0.01	0.03	0.01	T		0.02	0.07	30	0.23	0.23
31	0.11	0.07											31													31	0.18	0.18

*** Indicates sum of Hourly and Daily disagree.**

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.08	0.10	0.14	0.18	0.24	0.33	0.41	0.50	0.55	0.58	0.62	0.66
Ending Date	29	29	02	02	02	02	03	03	03	03	03	03
Ending Time (Hr/Min)	0126	0130	2323	2323	2332	2349	0001	0001	0018	0036	0054	0116

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 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:

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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							10.00	10.00	
02							1.50	10.00	
03							1.50	10.00	
04							10.00	10.00	
05							0.75	10.00	
06							8.00	10.00	
07							3.00	10.00	
08							1.25	10.00	
09							2.00	10.00	
10							1.50	10.00	
11							0.25	10.00	
12							1.50	10.00	
13							1.50	10.00	
14							0.00	10.00	
15							5.00	10.00	
16							1.00	10.00	
17							10.00	10.00	
18							9.00	10.00	
19							8.00	10.00	
20							5.00	10.00	
21							3.00	10.00	
22							0.50	10.00	
23							0.12	10.00	
24							10.00	10.00	
25							8.00	10.00	
26							6.00	10.00	
27							1.50	10.00	
28							0.75	10.00	
29							0.50	10.00	
30							1.75	10.00	
31							3.00	10.00	
MONTHLY AVGS							3.74	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
3	20	8

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
DECEMBER 2007 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	CLR	NC			10.00		34	22	30	62	5	23	30.15	30.24
04	CLR	NC			10.00		33	18	28	54	10	28	30.20	30.29
07	CLR	NC			10.00		33	16	28	50	13	29	30.29	30.39
10	CLR	NC			10.00		37	16	30	42	16	30	30.39	30.48
13	CLR	NC			10.00		39	13	31	34	14	30	30.37	30.46
16	CLR	NC			10.00		38	12	30	34	11	36	30.39	30.48
19	CLR	NC			10.00		35	11	28	37	9	36	30.47	30.56
22	BKN	095			10.00		33	9	26	36	10	02	30.49	30.58
						SUNRISE: 0705 DEC 02 SUNSET: 1639								
01	OVC	090			10.00		31	8	24	38	5	03	30.45	30.54
04	OVC	100			10.00		31	11	25	43	9	08	30.40	30.49
07	OVC	080			10.00		29	20	26	69	9	09	30.37	30.46
10	BKN	085			8.00	UP	30	24	28	78	8	08	30.36	30.45
13	OVC	070			10.00	UP	32	28	31	85	8	05	30.22	30.31
16	OVC	055			2.50	-RA BR	33	31	32	92	7	06	30.10	30.19
19	OVC	003			2.00	-RA BR	36	34	35	92	3	08	29.98	30.06
22	OVC	003			1.50	RA BR	39	38	39	96	5	06	29.83	29.91
						SUNRISE: 0706 DEC 03 SUNSET: 1639								
01	OVC	010			1.50	-RA BR	45	44	45	96	7	19	29.65	29.72
04	OVC	090			1.50		46	42	44	86	11	23	29.52	29.60
07	BKN	090			1.50	BR	45	42	44	89	10	25	29.49	29.57
10	CLR	NC			10.00		51	34	43	52	25	30	29.56	29.64
13	BKN	060					45	26	37	47	32	27	29.59	29.67
16	OVC	055					41	26	35	55	21	29	29.62	29.70
19	FEW	047					39	23	33	53	21	28	29.67	29.75
22	OVC	080					35	25	31	67	9	28	29.67	29.75
						SUNRISE: 0707 DEC 04 SUNSET: 1638								
01	CLR	NC					35	16	29	46	25	29	29.64	29.72
04	OVC	060					34	13	27	42	22	28	29.64	29.72
07	FEW	060			10.00		32	13	26	45	14	27	29.64	29.72
10	SCT	050					35	15	28	44	21	28	29.65	29.73
13	OVC	060			10.00		37	14	29	39	26	29	29.59	29.69
16	FEW	065			10.00		36	13	29	39	18	28	29.62	29.71
19	BKN	065			10.00		33	15	27	48	9	26	29.69	29.77
22	BKN	060			10.00		31	15	26	51	11	26	29.72	29.80
						SUNRISE: 0708 DEC 05 SUNSET: 1638								
01	CLR	NC			10.00		29	15	25	56	10	25	29.73	29.83
04	CLR	NC			10.00		28	15	24	58	7	27	29.73	29.83
07	SCT	100			10.00		28	15	24	58	5	24	29.75	29.83
10	SCT	030			10.00		31	16	26	54	0	00	29.73	29.82
13	VV	007			0.75	-SN BR	28	25	27	89	0	00	29.70	29.79
16	OVC	017			1.25	-SN BR	29	25	28	85	8	05	29.65	29.73
19	OVC	008			1.25	-SN BR	29	26	28	89	10	01	29.70	29.79
22	OVC	024			3.00	-SN BR	29	26	28	89	9	33	29.82	29.90
						SUNRISE: 0709 DEC 06 SUNSET: 1638								
01	CLR	NC			8.00		22	19	21	88	9	31	29.91	30.00
04	CLR	NC			10.00		22	13	19	68	9	32	30.03	30.11
07	CLR	NC			10.00		16	8	14	71	8	29	30.15	30.24
10	CLR	NC			10.00		24	10	20	55	8	31	30.24	30.33
13	CLR	NC			10.00		29	13	24	51	8	33	30.23	30.32
16	CLR	NC			10.00		29	13	24	51	8	29	30.24	30.33
19	CLR	NC			10.00		26	15	23	63	0	00	30.28	30.37
22	CLR	NC			10.00		24	14	21	66	3	24	30.32	30.41

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	CLR	NC			9.00		20	15	19	81	0	00	30.31	30.40
04	CLR	NC			9.00		20	16	19	84	0	00	30.31	30.40
07	CLR	NC			10.00		22	16	20	78	5	31	30.30	30.39
10	OVC	070			10.00		28	20	25	72	0	00	30.30	30.39
13	BKN	065			10.00		35	24	31	64	7	18	30.19	30.29
16	OVC	060			5.00	-SN	33	29	31	85	3	20	30.19	30.28
19	OVC	075			6.00	-SN	34	31	33	89	0	00	30.20	30.29
22	OVC	055			4.00	-SN	34	32	33	92	0	00	30.20	30.29
						SUNRISE: 0710 DEC 08 SUNSET: 1638								
01	CLR	NC			4.00	-SN	34	32	33	92	0	00	30.19	30.28
04	OVC	060			2.00	-SN	34	33	34	96	0	00	30.16	30.25
07	OVC	055			2.50	-SN	34	33	34	96	0	00	30.17	30.26
10	OVC	090			2.00	BR	36	34	35	92	5	26	30.22	30.31
13	CLR	NC			9.00		48	40	44	74	7	28	30.19	30.27
16	CLR	NC			10.00		48	37	43	66	9	28	30.20	30.28
19	CLR	NC			7.00		41	34	38	76	3	27	30.27	30.37
22	CLR	NC			3.00	BR	36	33	35	89	3	31	30.31	30.40
						SUNRISE: 0711 DEC 09 SUNSET: 1638								
01	BKN	110			3.00	-RA BR	35	33	34	92	3	36	30.35	30.42
04	OVC	065			4.00	-RA BR	38	35	37	89	5	01	30.35	30.43
07	OVC	043			10.00		36	27	33	70	7	07	30.39	30.48
10	OVC	031			10.00		36	29	33	76	3	02	30.41	30.50
13	OVC	021			9.00		38	30	35	73	7	06	30.33	30.42
16	OVC	021			7.00		39	32	36	76	7	06	30.24	30.34
19	OVC	020			8.00		40	34	37	79	7	01	30.24	30.33
22	OVC	010			3.00	-RA BR	39	36	38	89	6	10	30.19	30.28
						SUNRISE: 0712 DEC 10 SUNSET: 1638								
01	OVC	011			2.00	BR	39	37	38	93	5	02	30.11	30.20
04	OVC	003			1.75	BR	39	37	38	93	5	35	30.11	30.20
07	OVC	100			3.00	BR	39	37	38	93	0	00	30.11	30.20
10	OVC	060			2.00	BR	43	40	42	89	0	00	30.14	30.23
13	OVC	017			6.00	HZ	45	40	43	83	0	00	30.12	30.20
16	OVC	021			5.00	HZ	46	41	44	83	5	03	30.15	30.24
19	OVC	044			4.00	-RA BR	43	42	43	96	0	00	30.20	30.29
22	OVC	017			7.00	-RA	43	40	42	89	5	01	30.24	30.32
						SUNRISE: 0713 DEC 11 SUNSET: 1638								
01	OVC	034			10.00		42	39	41	89	5	03	30.27	30.34
04	OVC	040			10.00		42	37	40	83	3	01	30.27	30.35
07	OVC	038			10.00		42	37	40	83	5	07	30.31	30.40
10	OVC	028			8.00		42	38	40	86	8	08	30.32	30.41
13	OVC	022			6.00	HZ	44	39	42	83	7	15	30.22	30.31
16	OVC	005			0.75	BR	43	42	43	96	11	17	30.15	30.24
19	OVC	001			0.75	BR	44	43	44	96	5	18	30.12	30.21
22	VV	001			0.25	FG	47	46	47	96	6	21	30.01	30.10
						SUNRISE: 0714 DEC 12 SUNSET: 1639								
01	OVC	003			2.50	BR	50	49	49	96	13	21	29.91	29.98
04	OVC	005			3.00	BR	53	50	51	90	11	22	29.85	29.92
07	OVC	005			2.50	BR	53	51	52	93	11	22	29.82	29.90
10	OVC	045			3.00	BR	55	52	53	90	5	20	29.91	29.99
13	SCT	026			10.00		54	45	49	72	13	34	29.96	30.04
16	BKN	080			10.00		50	38	44	64	15	31	30.06	30.14
19	CLR	NC			10.00		45	33	40	63	8	35	30.14	30.22
22	CLR	NC			10.00		41	28	36	60	10	35	30.20	30.29

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
DECEMBER 2007 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		37	21	31	52	8	03	30.25	30.33
04	OVC	048			10.00		37	23	32	57	0	00	30.23	30.32
07	OVC	046			10.00	-RA	37	23	32	57	7	05	30.19	30.28
10	OVC	024			5.00	-RA BR	34	31	33	89	8	03	30.15	30.24
13	OVC	024			2.00	-RA BR	36	34	35	92	15	09	29.94	30.03
16	OVC	048			2.50	BR	36	34	35	92	9	33	29.93	30.01
19	OVC	022			10.00		36	33	35	89	6	33	29.93	30.02
22	OVC	014			8.00		36	34	35	92	0	00	29.96	30.05
						SUNRISE: 0715 DEC 14 SUNSET: 1639								
01	VV	001			0.25	FG	34	32	33	92	8	28	29.98	30.07
04	VV	001			0.25	FG	34	34	34	100	0	00	30.01	30.09
07	VV	001			0.25	FG	34	32	33	92	5	22	30.06	30.15
10	VV	001			0.25	FG	36	35	36	96	3	26	30.10	30.19
13	SCT	031			10.00		48	34	42	59	16	31	30.09	30.17
16	SCT	041			10.00		42	27	36	55	13	32	30.14	30.23
19	CLR	NC			10.00		37	26	33	65	8	31	30.20	30.29
22	CLR	NC			10.00		35	24	31	64	7	27	30.23	30.32
						SUNRISE: 0716 DEC 15 SUNSET: 1639								
01	CLR	NC			10.00		32	23	29	69	5	29	30.27	30.35
04	CLR	NC			9.00		29	23	27	78	6	33	30.28	30.37
07	CLR	NC			10.00		31	19	27	61	10	01	30.33	30.42
10	CLR	NC			10.00		34	18	29	52	14	04	30.37	30.46
13	CLR	NC			10.00		36	19	30	50	9	05	30.35	30.44
16	OVC	080			10.00		37	18	31	46	10	10	30.27	30.36
19	OVC	060			10.00		35	22	30	59	14	07	30.19	30.28
22	OVC	050			10.00	-RA	35	26	32	70	15	06	30.06	30.14
						SUNRISE: 0716 DEC 16 SUNSET: 1639								
01	OVC	011			2.50	RA BR	36	33	35	89	14	03	29.88	29.96
04	OVC	013			4.00	RA BR	39	37	38	93	25	05	29.64	29.72
07	OVC	011			3.00	-RA BR	42	40	41	93	20	06	29.46	29.54
10	OVC	008			1.00	-RA BR	43	41	42	93	18	04	29.27	29.35
13	OVC	015			5.00	-RA BR	45	43	44	93	5	35	29.11	29.18
16	FEW	016			10.00		40	35	38	82	16	27	29.21	29.29
19	OVC	060			10.00		38	22	32	53	25	26	29.32	29.40
22	OVC	055			10.00		35	18	29	50	24	26	29.43	29.51
						SUNRISE: 0717 DEC 17 SUNSET: 1640								
01	OVC	055			10.00		33	17	28	52	24	27	29.53	29.61
04	OVC	055			10.00		34	17	28	50	24	27	29.62	29.72
07	FEW	049			10.00		33	17	28	52	23	29	29.77	29.85
10	CLR	NC			10.00		36	13	29	39	28	31	29.91	30.00
13	BKN	055			10.00		37	14	29	39	24	29	29.94	30.03
16	BKN	050			10.00		37	17	30	44	26	29	30.01	30.09
19	CLR	NC			10.00		33	18	28	54	8	26	30.09	30.18
22	BKN	044			10.00		30	18	26	61	8	25	30.14	30.23
						SUNRISE: 0718 DEC 18 SUNSET: 1640								
01	OVC	042			10.00		32	16	27	52	15	28	30.20	30.29
04	FEW	042			10.00		28	15	24	58	11	29	30.25	30.35
07	CLR	NC			10.00		26	16	23	66	5	25	30.30	30.39
10	CLR	NC			10.00		32	16	27	52	9	27	30.33	30.42
13	CLR	NC			10.00		38	17	31	43	6	26	30.28	30.37
16	CLR	NC			10.00		37	19	31	48	7	23	30.27	30.36
19	CLR	NC			10.00		34	21	30	59	6	19	30.27	30.35
22	CLR	NC			10.00		31	20	27	64	3	19	30.25	30.34
						SUNRISE: 0718 DEC 19 SUNSET: 1641								
01	CLR	NC			10.00		32	22	29	67	0	00	30.22	30.31
04	FEW	120			9.00		32	27	30	82	6	15	30.19	30.27
07	CLR	NC			8.00		34	28	32	79	8	15	30.15	30.24
10	CLR	NC			10.00		39	31	36	73	11	17	30.12	30.22
13	CLR	NC			10.00		42	31	37	65	11	14	30.02	30.11
16	OVC	065			10.00		42	27	36	55	6	23	30.01	30.09
19	OVC	048			10.00		41	26	35	55	5	25	30.02	30.11
22	OVC	055			10.00		39	24	33	55	8	24	30.04	30.13
						SUNRISE: 0719 DEC 20 SUNSET: 1641								
01	FEW	055			10.00		35	23	31	62	5	28	30.04	30.13
04	CLR	NC			8.00		34	25	31	70	10	32	30.04	30.13
07	CLR	NC			7.00		33	24	30	70	3	25	30.09	30.19
10	CLR	NC			7.00		40	27	35	60	11	29	30.14	30.23
13	CLR	NC			10.00		46	26	38	46	13	33	30.09	30.16
16	SCT	047			10.00		44	24	36	45	13	34	30.10	30.19
19	CLR	NC			10.00		38	24	33	57	5	33	30.15	30.24
22	CLR	NC			8.00		33	24	30	70	5	27	30.19	30.27
						SUNRISE: 0719 DEC 21 SUNSET: 1641								
01	CLR	NC			6.00	HZ	31	25	29	78	3	35	30.19	30.28
04	CLR	NC			7.00		30	25	28	82	5	01	30.19	30.28
07	CLR	NC			9.00		36	29	33	76	11	05	30.24	30.33
10	CLR	NC			9.00		38	32	36	79	14	05	30.28	30.37
13	BKN	048			10.00		42	35	39	76	11	05	30.27	30.36
16	OVC	042			4.00	-RA BR	40	37	39	89	11	05	30.27	30.36
19	OVC	048			7.00	-RA	41	38	40	89	9	06	30.31	30.40
22	OVC	045			10.00		40	36	38	86	14	05	30.32	30.41
						SUNRISE: 0720 DEC 22 SUNSET: 1642								
01	OVC	041			10.00		38	35	37	89	14	05	30.36	30.45
04	OVC	037			8.00		36	33	35	89	11	05	30.38	30.47
07	OVC	009			9.00		37	34	36	89	11	05	30.40	30.49
10	OVC	009			9.00		40	36	38	86	14	05	30.43	30.52
13	OVC	019			10.00		43	36	40	76	13	04	30.37	30.46
16	OVC	029			8.00		43	37	40	79	14	05	30.38	30.47
19	OVC	024			5.00	BR	41	38	40	89	14	04	30.35	30.45
22	OVC	002			0.75	BR	41	40	41	96	13	05	30.30	30.39
						SUNRISE: 0720 DEC 23 SUNSET: 1642								
01	VV	001			0.50	FG	42	41	42	96	9	04	30.24	30.33
04	OVC	012			1.75	-RA BR	45	43	44	93	14	05	30.20	30.29
07	OVC	001			1.25	BR	46	45	46	96	9	07	30.11	30.19
10	VV	001			0.12	FG	51	51	51	100	16	16	30.06	30.13
13	OVC	013			3.00	FG	56	55	55	96	20	15	29.86	29.95
16	OVC	001			0.25	RA	53	53	53	100	20	16	29.73	29.82
19	OVC	044			1.00	-RA	63	60	61	90	18	19	29.65	29.74
22	CLR	NC			10.00		54	40	47	59	22	28	29.72	29.81
						SUNRISE: 0721 DEC 24 SUNSET: 1643								
01	CLR	NC			10.00		43	22	35	43	14	30	29.80	29.88
04	CLR	NC			10.00		40	19	33	43	15	29	29.85	29.93
07	CLR	NC			10.00		37	18	30	46	9	26	29.88	29.97
10	CLR	NC			10.00		43	18	34	37	14	26	29.94	30.03
13	CLR	NC			10.00		47	19	37	33	15	22	29.91	30.00
16	CLR	NC			10.00		47	20	37	34	8	21	29.93	30.01
19	CLR	NC			10.00		43	22	35	43	5	22	29.98	30.07
22	CLR	NC			10.00		39	24	33	55	0	00	30.02	30.11

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
DECEMBER 2007 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	CLR	NC			10.00		39	23	33	53	3	25	30.07	30.16
04	CLR	NC			10.00		32	23	29	69	7	30	30.12	30.21
07	CLR	NC			10.00		32	24	29	72	0	00	30.17	30.27
10	CLR	NC			10.00		41	27	36	58	5	28	30.23	30.32
13	CLR	NC			10.00		47	26	39	44	11	28	30.19	30.26
16	CLR	NC			10.00		46	27	38	48	8	32	30.19	30.28
19	CLR	NC			10.00		39	27	34	62	0	00	30.22	30.30
22	CLR	NC			10.00		35	27	32	73	6	05	30.20	30.29
						SUNRISE: 0722 DEC 26 SUNSET: 1644								
01	CLR	NC			7.00		30	27	29	89	3	03	30.17	30.26
04	CLR	NC			6.00	BR	28	25	27	89	5	32	30.19	30.27
07	FEW	120			10.00		33	27	31	79	5	03	30.14	30.24
10	CLR	NC			9.00		37	29	34	73	8	04	30.14	30.23
13	FEW	080			10.00		38	29	34	70	13	35	30.02	30.11
16	OVC	060			8.00	-RA	37	30	34	76	15	02	29.98	30.06
19	OVC	080			10.00	-RA	37	32	35	82	15	02	29.93	30.02
22	OVC	080			9.00		37	34	36	89	8	36	29.91	29.99
						SUNRISE: 0722 DEC 27 SUNSET: 1645								
01	OVC	046			9.00		37	34	36	89	8	35	29.88	29.96
04	OVC	041			9.00		37	34	36	89	9	35	29.88	29.96
07	OVC	028			7.00		38	35	37	89	8	28	29.96	30.05
10	OVC	027			4.00	BR	39	37	38	93	0	00	29.98	30.07
13	BKN	010			10.00		43	38	41	83	7	19	29.93	30.01
16	BKN	085			8.00		45	38	42	77	6	26	29.98	30.05
19	CLR	NC			7.00		40	37	39	89	0	00	30.02	30.11
22	BKN	050			3.00		37	36	37	96	3	31	30.09	30.17
						SUNRISE: 0722 DEC 28 SUNSET: 1646								
01	CLR	NC			2.50		34	33	34	96	0	00	30.14	30.22
04	CLR	NC			2.00		33	31	32	92	0	00	30.19	30.28
07	CLR	NC			1.25	BR	30	29	30	96	3	31	30.25	30.34
10	CLR	NC			3.00	BR	41	37	39	86	0	00	30.27	30.36
13	CLR	NC			10.00		47	32	41	56	5	17	30.24	30.33
16	BKN	060			10.00		45	34	40	65	9	18	30.22	30.31
19	BKN	055			10.00		45	33	40	63	8	12	30.19	30.28
22	OVC	037			4.00	RA BR	43	39	41	86	0	00	30.11	30.20
						SUNRISE: 0723 DEC 29 SUNSET: 1646								
01	OVC	006			2.50	+RA BR	46	45	46	96	9	11	29.91	30.00
04	VV	001			0.50	FG	47	46	47	96	3	22	29.85	29.93
07	OVC	015			10.00		50	48	49	93	11	27	29.88	29.97
10	SCT	050			8.00		50	45	48	83	7	31	29.93	30.02
13	FEW	080			10.00		53	37	46	55	13	29	29.90	29.97
16	CLR	NC			10.00		50	34	43	54	9	30	29.93	30.01
19	CLR	NC			10.00		41	30	37	65	8	30	29.98	30.07
22	CLR	NC			10.00		39	29	35	67	6	30	30.03	30.12
						SUNRISE: 0723 DEC 30 SUNSET: 1647								
01	CLR	NC			10.00		36	29	33	76	3	19	30.06	30.14
04	CLR	NC			7.00		30	27	29	89	3	32	30.07	30.16
07	CLR	NC			9.00		32	28	31	85	0	00	30.10	30.19
10	CLR	NC			7.00		36	31	34	82	0	00	30.14	30.23
13	OVC	060			10.00		42	29	37	60	7	05	30.03	30.12
16	OVC	055			3.00	-RA	39	33	37	79	8	08	29.98	30.07
19	OVC	009			8.00	-RA	38	36	37	93	11	08	29.85	29.94
22	OVC	005			6.00	BR	39	37	38	93	9	03	29.73	29.82

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	OVC	035			3.00	RA BR	38	36	37	93	15	30	29.75	29.84
04	FEW	110			8.00		36	34	35	92	8	27	29.78	29.86
07	CLR	NC			7.00		34	32	33	92	8	25	29.85	29.94
10	CLR	NC			10.00		40	35	38	82	9	25	29.94	30.03
13	CLR	NC			10.00		47	31	40	54	15	29	29.94	30.03
16	CLR	NC			10.00		47	29	40	50	10	28	30.01	30.09
19	CLR	NC			10.00		42	29	37	60	5	06	30.03	30.12
22	CLR	NC			9.00		32	27	30	82	6	06	30.03	30.12

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

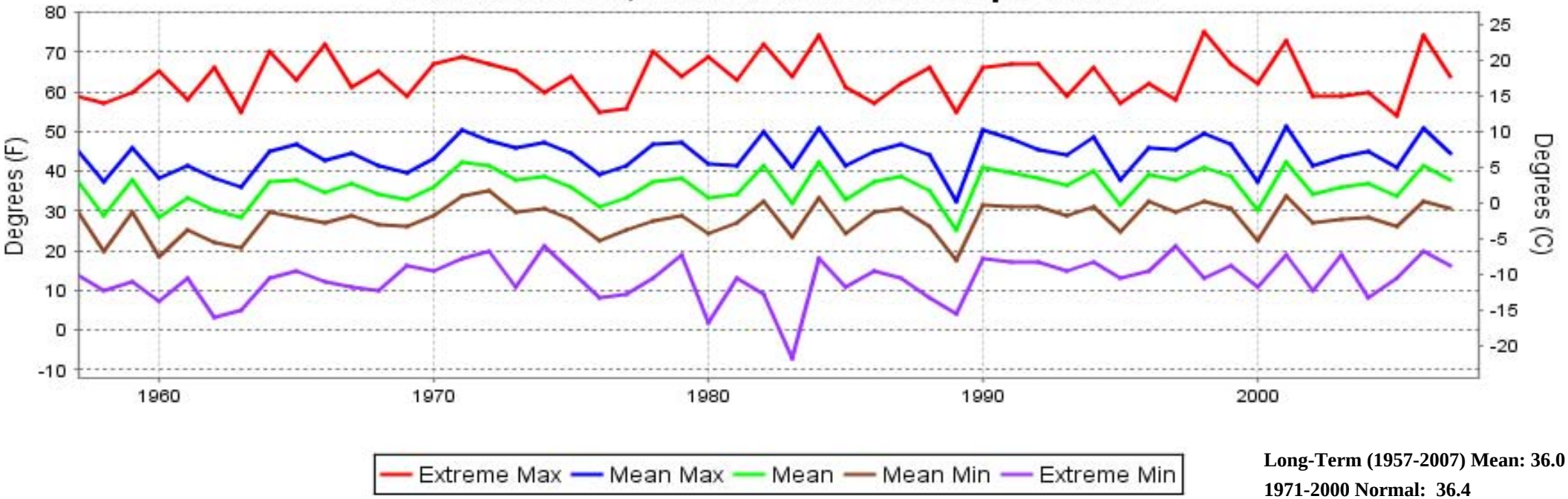
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = 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			36	28	33	76	30.05	30.14	6.78	8	4	31
02			35	28	33	77	30.05	30.14	7.17	8	4	31
03			35	28	33	77	30.06	30.15	7.11	8	5	30
04			35	28	32	77	30.05	30.14	6.69	8	4	31
05			35	28	33	76	30.05	30.14	6.86	8	4	31
06			35	28	33	77	30.06	30.15	7.35	8	3	32
07			35	28	33	77	30.07	30.16	7.46	8	3	32
08			35	28	33	78	30.08	30.17	6.77	8	3	32
09			37	29	34	76	30.09	30.17	7.02	8	3	32
10			39	30	35	72	30.10	30.18	7.18	9	4	31
11			40	30	36	68	30.09	30.17	7.39	10	4	31
12			42	30	37	65	30.06	30.15	8.24	12	4	30
13			42	30	37	64	30.04	30.12	8.69	12	4	30
14			42	30	37	64	30.03	30.11	8.47	12	5	30
15			42	30	37	65	30.03	30.11	8.24	12	5	30
16			41	29	37	66	30.04	30.12	7.51	11	4	31
17			40	29	36	69	30.04	30.13	8.09	10	3	31
18			39	29	35	70	30.05	30.13	7.88	9	3	33
19			39	30	35	71	30.05	30.14	7.90	8	3	33
20			38	30	35	74	30.06	30.15	7.81	8	3	32
21			38	29	35	74	30.05	30.14	8.05	8	3	34
22			37	29	34	75	30.06	30.14	7.32	8	3	32
23			37	29	34	75	30.05	30.14	7.44	7	3	33
24			36	28	33	76	30.05	30.14	7.08	8	4	32

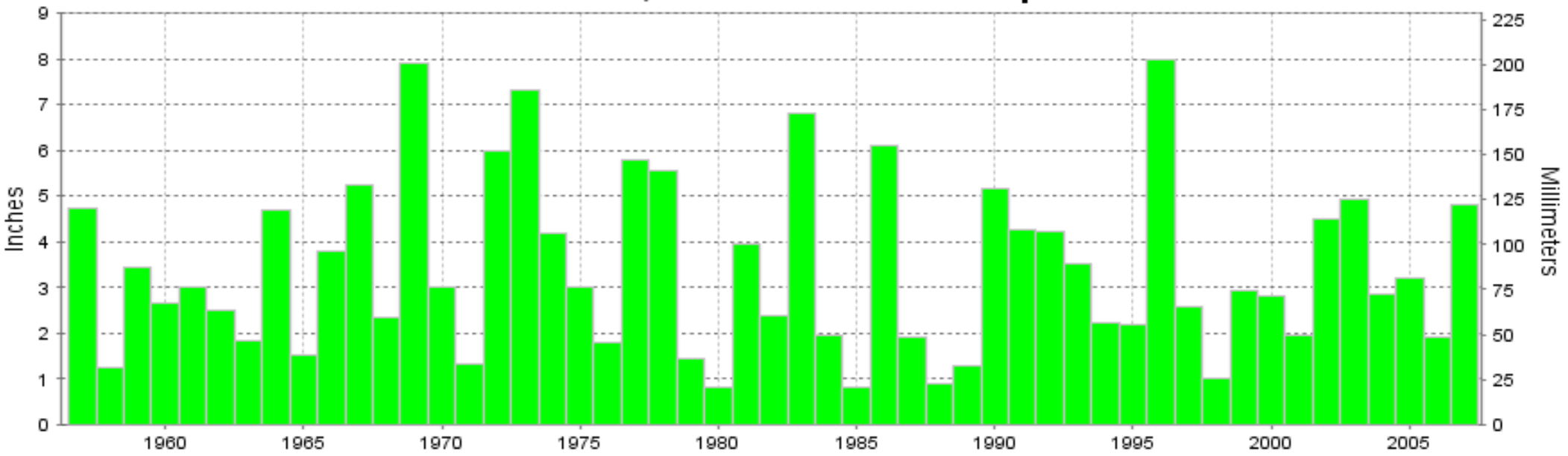
WILMINGTON, DE DECEMBER Temperatures



Long-Term (1957-2007) Mean: 36.0

1971-2000 Normal: 36.4

WILMINGTON, DE DECEMBER Precipitation



Long-Term (1957-2007) Mean Monthly Total: 3.42

1971-2000 Normal: 3.40

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LOCAL CLIMATOLOGICAL DATA
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