



JULY 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					
																			3-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	85	64	75	0	61	66	0	10	RA	0		0.0	0.02	29.79	29.90	7.4	28	7.9	29	28	25	28	01	
02	87	64	76	0	56	64	0	11		0		0.0	0.00	29.92	30.01	6.5	25	8.3	22	28	18	28	02	
03	92	64	78	2	58	67	0	13	BR HZ	0		0.0	0.00	29.90	29.98	9.0	23	10.6	25	24	20	24	03	
04	84	68	76	0	66	69	0	11	RA BR	0		0.0	0.07	29.92	30.00	4.0	32	5.9	16	28	13	30	04	
05	81	69	75	-1	68	71	0	10	RA BR HZ	0		0.0	T	29.91	30.00	2.0	17	5.2	14	16	12	14	05	
06	83	71	77	1	69	72	0	12	RA BR HZ	0		0.0	T	29.95	30.04	4.9	10	7.1	21	17	18	16	06	
07	89	73	81	5	70	73	0	16	BR HZ	0		0.0	0.00	29.95	30.03	3.9	18	6.4	21	25	16	22	07	
08	91	72	82	6	68	72	0	17	BR	0		0.0	0.00	29.89	29.96	8.1	20	8.8	20	21	16	21	08	
09	87	72	80	4	70	72	0	15	TS TSRA RA BR VCTS	0		0.0	0.29	29.77	29.85	8.3	21	8.7	30	25	23	26	09	
10	85	70	78	2	62	68	0	13	BR	0		0.0	0.00	29.88	29.98	6.8	29	8.1	20	28	16	28	10	
11	89	63	76	0	62	68	0	11	BR	0		0.0	0.00	29.97	30.06	2.9	18	4.9	15	28	13	16	11	
12	89	69	79	2	65	70	0	14		0		0.0	0.00	29.99	30.07	9.9	16	10.1	25	14	21	16	12	
13	87	69	78	1	68	71	0	13		0		0.0	0.00	29.80	29.86	11.4	16	12.0	24	15	22	16	13	
14	84	67	76	-1	64	68	0	11	RA BR	0		0.0	0.44	29.77	29.88	4.3	29	5.7	16	36	14	34	14	
15	90	66	78	1	60	67	0	13	BR HZ	0		0.0	0.00	29.96	30.06	1.6	30	4.6	15	15	14	16	15	
16	93	62	78	1	59	67	0	13		0		0.0	0.00	30.05	30.14	2.0	31	4.8	15	18	12	15	16	
17	94	66	80	3	63	70	0	15	BR HZ	0		0.0	0.00	30.03	30.10	1.6	17	4.2	17	26	13	24	17	
18	96	71	84	7	67	73	0	19	BR HZ	0		0.0	0.00	29.96	30.04	6.9	23	7.3	22	21	17	23	18	
19	96*	71	84	7	67	72	0	19		0		0.0	0.00	29.91	30.00	8.2	23	8.5	23	23	17	24	19	
20	95	73	84*	7	70	75	0	19	TS TSRA RA BR	0		0.0	0.59	29.85	29.92	9.5	21	10.6	30	26	24	25	20	
21	91	72	82	5	68	73	0	17	RA BR	0		0.0	T	29.75	29.85	5.4	28	7.2	20	30	17	30	21	
22	91	73	82	5	67	72	0	17	TSRA RA HZ VCTS	0		0.0	0.28	29.79	29.89	5.6	24	7.1	24	27	18	25	22	
23	85	68	77	0	70	71	0	12	TS TSRA RA FG+ FG BR HZ	0		0.0	2.57	29.83	29.92	2.1	07	6.9	47*	24	39*	25	23	
24	82	65	74	-3	62	67	0	9	TS TSRA RA BR	0		0.0	0.24	29.88	29.98	5.2	25	7.9	17	29	12	32	24	
25	87	61*	74	-3	56	64	0	9		0		0.0	0.00	30.02	30.11	3.3	22	5.2	16	22	13	24	25	
26	87	66	77	0	63	68	0	12		0		0.0	0.00	29.91	29.97	7.4	20	8.0	22	20	17	20	26	
27	86	65	76	-1	67	69	0	11	TSRA RA BR SQ	0		0.0	0.19	29.73	29.82	3.1	18	4.7	44	27	35	29	27	
28	86	62	74*	-3	60	66	0	9	RA BR	0		0.0	T	29.80	29.89	3.2	26	4.5	14	27	10	25	28	
29	89	68	79	2	65	70	0	14	HZ	0		0.0	0.00	29.83	29.91	4.6	23	6.3	15	22	14	22	29	
30	87	70	79	2	71	74	0	14	RA BR HZ	0		0.0	T	29.73	29.79	4.2	17	5.2	20	16	16	17	30	
31	86	72	79	2	69	72	0	14	BR HZ	0		0.0	0.00	29.59	29.68	7.4	27	7.8	17	27	16	28	31	
88.2			67.9	78.1	☼	64.9	69.7	0.0	13.3	< MONTHLY AVERAGES TOTALS >			0.0	4.69	29.87	29.96	3.7	22	7.1	< MONTHLY AVERAGES				
2.2		0.6	1.5	<----- DEPARTURE FROM NORMAL ----->								0.41	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 2.85 DATE : 22-23					SEA LEVEL PRESSURE					DATE TIME					
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :					MAXIMUM :					30.17 16 1051					
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 0 DATE :					MINIMUM :					29.63 31 1940					
SEASON TO DATE																								
TOTAL DEPARTURE																								
HEATING :				0	-1	0	-1	NUMBER OF ->		MAXIMUM TEMP >= 90 : 10				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH: 9						
COOLING :				413	45	753	97	DAYS WITH		MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 7						
									THUNDERSTORMS : 6				HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 0							

JULY 2008
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)
JULY 2008

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													01							0.01	0.01	T			01	0.02	0.02	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04						T	0.03	0.01	0.01				04					0.01	T	T	T	0.01	T	T	04	0.07	0.07	
05			T								T	T	05												05	T	T	
06										T			06					T							06	T	T	
07													07												07	0.00	0.00	
08													08					T							08	0.00	0.00	
09								T	T		T	T	09					T	0.29						09	0.29	0.29	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14		T	0.02	T	0.13	0.21	0.04	0.04	T				14												14	0.44	0.44	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20									0.33	0.26		20	0.59	0.59	
21													21												21	T	T	
22													22								T			0.28	22	0.28	0.28	
23	0.55	0.04											23	0.01	0.49	0.02		0.01	0.98	0.28	0.09	0.07	0.03	T	23	2.57	2.57	
24	0.05	0.02	0.09	0.06	0.02								24												24	0.24	0.24	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27	0.19	T						T				27	0.19	0.19	
28													28												28	T	T	
29													29												29	0.00	0.00	
30													30										T	T	30	T	T	
31													31												31	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)	0.43	0.70	0.91	0.92	0.92	0.97	0.98	1.21	1.25	1.28	1.35	1.36
Ending Date	23	23	23	23	23	23	23	23	23	23	23	23
Ending Time (Hr/Min)	1816	1821	1824	1824	1824	1853	1853	1928	1949	2009	2032	2032

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 JULY 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 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							8.00	10.00	
02							10.00	10.00	
03							6.00	10.00	
04							5.00	10.00	
05							4.00	10.00	
06							2.00	10.00	
07							3.00	10.00	
08							5.00	10.00	
09							5.00	10.00	
10							5.00	10.00	
11							5.00	10.00	
12							8.00	10.00	
13							10.00	10.00	
14							3.00	10.00	
15							4.00	10.00	
16							10.00	10.00	
17							5.00	10.00	
18							4.00	10.00	
19							8.00	10.00	
20							1.50	10.00	
21							5.00	10.00	
22							2.00	10.00	
23							0.50	10.00	
24							5.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							3.00	10.00	
28							4.00	10.00	
29							6.00	10.00	
30							2.50	9.00	
31							3.00	10.00	
MONTHLY AVGS							5.24	9.97	
SUNSHINE (Minutes)									
Total : 0 Possible : 27255									
Percent Possible : 0									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear Partly CLDY Cloudy Missing									
MINIMUM VISIBILITY (MILES)									
<= .25 <= 3.0 >= 7.0									
0 9 8									

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
JULY 2008 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: 0438 JUL 01 SUNSET: 1934														
01	CLR	NC			10.00		70	64	66	81	5	24	29.73	29.82
04	CLR	NC			10.00		65	60	62	84	10	28	29.75	29.83
07	CLR	NC			8.00		70	61	64	73	7	30	29.78	29.87
10	CLR	NC			10.00		77	59	66	54	5	VR	29.83	29.91
13	SCT	044			10.00		81	59	67	47	11	29	29.83	29.91
16	CLR	NC			10.00		84	57	67	40	11	29	29.80	29.89
19	CLR	NC			10.00		78	59	66	52	7	29	29.83	29.91
22	BKN	120			10.00		70	66	67	87	5	26	29.88	29.96
SUNRISE: 0439 JUL 02 SUNSET: 1934														
01	FEW	100			10.00		68	63	65	84	3	24	29.90	29.98
04	CLR	NC			10.00		64	60	62	87	5	30	29.90	29.98
07	CLR	NC			10.00		70	59	63	68	6	30	29.94	30.03
10	CLR	NC			10.00		81	55	65	41	10	29	29.96	30.04
13	FEW	075			10.00		85	50	64	30	16	29	29.94	30.02
16	CLR	NC			10.00		85	50	64	30	9	24	29.91	29.99
19	CLR	NC			10.00		81	52	64	37	9	22	29.93	30.00
22	CLR	NC			10.00		74	56	63	54	8	20	29.93	30.01
SUNRISE: 0439 JUL 03 SUNSET: 1934														
01	CLR	NC			10.00		70	60	64	71	6	21	29.93	30.01
04	CLR	NC			8.00		67	62	64	84	5	22	29.91	29.98
07	CLR	NC			10.00		74	62	67	66	9	22	29.93	30.01
10	CLR	NC			10.00		85	58	68	40	11	22	29.91	30.00
13	CLR	NC			10.00		90	55	68	31	18	22	29.88	29.96
16	CLR	NC			10.00		91	53	68	27	15	24	29.85	29.93
19	CLR	NC			10.00		86	57	68	37	11	21	29.86	29.94
22	SCT	085			10.00		79	61	68	54	10	30	29.91	30.00
SUNRISE: 0440 JUL 04 SUNSET: 1934														
01	CLR	NC			10.00		73	61	66	66	0	00	29.91	30.00
04	CLR	NC			10.00		68	63	65	84	3	31	29.91	29.99
07	BKN	046			7.00	-RA	71	67	68	87	3	03	29.93	30.01
10	OVC	046			9.00		72	68	69	87	7	33	29.96	30.04
13	OVC	048			10.00		80	65	70	60	9	25	29.93	30.01
16	CLR	NC			10.00		81	64	70	56	7	29	29.90	29.98
19	FEW	110			9.00	-RA	74	69	71	84	6	36	29.91	30.00
22	OVC	100			6.00	-RA BR	72	68	69	87	8	05	29.91	30.00
SUNRISE: 0440 JUL 05 SUNSET: 1933														
01	OVC	012			4.00	BR	73	69	70	87	0	00	29.91	30.00
04	BKN	070			10.00		70	66	67	87	6	21	29.90	29.98
07	FEW	110			6.00	BR	71	68	69	90	3	29	29.91	30.00
10	FEW	018			9.00		76	67	70	74	7	30	29.93	30.01
13	SCT	021			9.00		78	67	71	69	0	00	29.93	30.01
16	SCT	065			10.00		81	67	72	63	5	14	29.91	29.99
19	CLR	NC			6.00	HZ	78	70	73	77	10	17	29.91	30.00
22	CLR	NC			5.00	BR	75	71	72	87	6	14	29.96	30.03
SUNRISE: 0441 JUL 06 SUNSET: 1933														
01	SCT	065			3.00	BR	73	71	72	93	0	00	29.93	30.02
04	CLR	NC			3.00	BR	73	71	72	93	6	07	29.93	30.01
07	BKN	006			2.50	BR	74	70	71	87	10	06	29.96	30.04
10	OVC	008			3.00	HZ	75	70	72	85	7	07	29.98	30.07
13	BKN	023			10.00		79	68	72	69	3	19	29.98	30.06
16	SCT	030			10.00		80	69	73	69	15	15	29.96	30.04
19	CLR	NC			10.00		76	69	71	79	9	14	29.96	30.03
22	CLR	NC			10.00		74	69	71	84	7	10	29.98	30.06
SUNRISE: 0442 JUL 07 SUNSET: 1933														
01	OVC	100			8.00		74	71	72	90	0	00	29.98	30.06
04	OVC	005			6.00	BR	73	71	72	93	5	10	29.96	30.04
07	OVC	003			3.00	BR	74	72	73	94	0	00	29.96	30.05
10	BKN	028			7.00		81	70	74	69	5	VR	29.98	30.06
13	SCT	050			10.00		85	70	75	61	10	15	29.96	30.04
16	SCT	090			10.00		85	70	75	61	7	VR	29.93	30.00
19	SCT	048			10.00		83	66	72	57	13	22	29.93	30.00
22	CLR	NC			8.00		77	69	72	76	7	19	29.96	30.03
SUNRISE: 0442 JUL 08 SUNSET: 1933														
01	CLR	NC			6.00	HZ	75	70	72	85	5	18	29.93	30.01
04	CLR	NC			5.00	BR	73	70	71	90	5	24	29.93	30.01
07	CLR	NC			10.00		76	66	70	71	6	22	29.94	30.02
10	FEW	027			10.00		83	68	73	61	11	19	29.93	30.01
13	SCT	039			10.00		88	68	74	52	10	25	29.90	29.97
16	CLR	NC			10.00		89	65	73	45	10	23	29.83	29.91
19	CLR	NC			10.00		86	66	73	51	11	21	29.83	29.91
22	CLR	NC			10.00		79	66	71	65	10	21	29.83	29.91
SUNRISE: 0443 JUL 09 SUNSET: 1932														
01	CLR	NC			10.00		73	68	70	84	6	18	29.80	29.88
04	CLR	NC			8.00		72	69	70	90	7	19	29.78	29.86
07	CLR	NC			8.00		75	70	72	85	7	21	29.80	29.87
10	CLR	NC			10.00		79	70	73	74	11	22	29.80	29.87
13	BKN	065			10.00		82	69	73	65	10	21	29.77	29.84
16	BKN	041			10.00		84	70	74	63	17	21	29.70	29.78
19	FEW	070			9.00		74	71	72	90	9	22	29.73	29.82
22	CLR	NC			9.00		73	71	72	93	7	24	29.77	29.84
SUNRISE: 0443 JUL 10 SUNSET: 1932														
01	BKN	090			5.00	BR	74	72	73	94	6	24	29.78	29.86
04	CLR	NC			6.00	BR	71	68	69	90	7	30	29.80	29.89
07	CLR	NC			10.00		75	64	68	69	7	32	29.90	29.98
10	CLR	NC			10.00		81	57	66	44	9	31	29.93	30.01
13	CLR	NC			10.00		82	57	67	43	11	27	29.94	30.02
16	CLR	NC			10.00		83	57	67	41	13	28	29.93	30.01
19	CLR	NC			10.00		80	59	67	49	6	25	29.93	30.01
22	CLR	NC			10.00		73	63	67	71	6	23	29.96	30.03
SUNRISE: 0444 JUL 11 SUNSET: 1932														
01	CLR	NC			10.00		68	63	65	84	0	00	29.96	30.03
04	CLR	NC			10.00		66	62	64	87	0	00	29.94	30.03
07	CLR	NC			8.00		72	64	67	76	0	00	29.99	30.08
10	CLR	NC			10.00		82	65	71	56	6	VR	30.01	30.08
13	FEW	065			10.00		87	58	69	37	9	22	29.98	30.05
16	CLR	NC			10.00		88	56	68	34	3	VR	29.96	30.04
19	CLR	NC			10.00		81	68	72	65	11	16	29.98	30.05
22	CLR	NC			10.00		77	65	69	67	7	18	30.01	30.09
SUNRISE: 0445 JUL 12 SUNSET: 1931														
01	CLR	NC			10.00		74	62	67	66	0	00	30.01	30.09
04	CLR	NC			10.00		71	62	65	73	3	15	30.01	30.10
07	CLR	NC			9.00		75	68	70	79	6	18	30.02	30.11
10	CLR	NC			10.00		81	70	74	69	8	16	30.02	30.11
13	CLR	NC			9.00		88	67	74	50	16	14	30.01	30.09
16	CLR	NC			10.00		87	67	74	52	13	17	29.96	30.03
19	FEW	047			10.00		79	60	67	52	18	15	29.94	30.03

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
JULY 2008 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: 0446 JUL 13 SUNSET: 1931														
01	CLR	NC			10.00		71	63	66	76	6	17	29.93	30.01
04	CLR	NC			10.00		70	66	67	87	10	16	29.88	29.95
07	CLR	NC			10.00		74	67	69	79	10	18	29.86	29.95
10	CLR	NC			10.00		79	67	71	67	15	16	29.83	29.92
13	CLR	NC			10.00		86	67	73	53	20	15	29.77	29.84
16	CLR	NC			10.00		85	67	73	55	18	15	29.69	29.76
19	SCT	047			10.00		80	70	73	72	16	17	29.69	29.76
22	BKN	120			10.00		79	69	72	72	5	22	29.70	29.78
SUNRISE: 0446 JUL 14 SUNSET: 1930														
01	OVC	100			10.00	-RA	77	69	72	76	6	22	29.69	29.77
04	OVC	060			10.00		73	69	70	87	9	33	29.70	29.78
07	FEW	029			10.00		68	64	66	87	0	00	29.77	29.85
10	BKN	080			10.00		70	66	67	87	6	29	29.82	29.90
13	CLR	NC			10.00		79	62	68	56	9	30	29.80	29.88
16	CLR	NC			10.00		83	58	67	43	10	28	29.80	29.88
19	CLR	NC			10.00		81	57	66	44	0	00	29.83	29.91
22	CLR	NC			10.00		73	63	67	71	0	00	29.88	29.96
SUNRISE: 0447 JUL 15 SUNSET: 1930														
01	CLR	NC			8.00	BR HZ	68	66	67	93	0	00	29.90	29.98
04	CLR	NC			5.00		66	65	65	97	0	00	29.91	30.00
07	FEW	075			4.00		72	66	68	82	8	31	29.96	30.05
10	CLR	NC			10.00		85	58	68	40	6	35	29.99	30.08
13	SCT	080			10.00		87	54	67	32	5	VR	29.99	30.08
16	FEW	080			10.00		88	53	67	30	6	29	29.98	30.06
19	CLR	NC			10.00		83	57	67	41	8	32	29.98	30.06
22	FEW	080			10.00		76	61	67	60	6	16	30.04	30.12
SUNRISE: 0448 JUL 16 SUNSET: 1929														
01	CLR	NC			10.00		68	62	64	81	5	31	30.03	30.11
04	CLR	NC			10.00		65	62	63	90	3	30	30.04	30.12
07	CLR	NC			10.00		72	64	67	76	0	00	30.09	30.16
10	CLR	NC			10.00		87	56	68	35	6	35	30.09	30.17
13	FEW	075			10.00		90	54	68	29	6	VR	30.07	30.15
16	CLR	NC			10.00		92	55	69	29	9	02	30.04	30.12
19	CLR	NC			10.00		84	58	68	41	8	31	30.02	30.11
22	CLR	NC			10.00		76	63	68	64	7	17	30.06	30.14
SUNRISE: 0449 JUL 17 SUNSET: 1929														
01	CLR	NC			10.00	HZ	72	62	66	71	0	00	30.06	30.13
04	CLR	NC			10.00		69	62	65	79	0	00	30.03	30.12
07	CLR	NC			6.00		74	63	67	69	0	00	30.06	30.14
10	CLR	NC			10.00		87	63	71	45	5	VR	30.06	30.13
13	CLR	NC			10.00		91	64	73	41	9	15	30.03	30.11
16	FEW	065			10.00		93	64	74	38	10	24	29.98	30.06
19	CLR	NC			10.00		86	68	74	55	10	15	29.98	30.06
22	CLR	NC			10.00		81	66	71	60	3	13	30.01	30.08
SUNRISE: 0449 JUL 18 SUNSET: 1928														
01	CLR	NC			8.00	HZ HZ	76	67	70	74	0	00	29.98	30.06
04	CLR	NC			5.00		74	69	71	84	5	22	29.96	30.05
07	CLR	NC			6.00		78	70	73	77	8	23	29.99	30.08
10	CLR	NC			8.00		88	70	76	55	6	22	29.99	30.07
13	CLR	NC			10.00		94	65	74	38	15	23	29.96	30.04
16	CLR	NC			9.00		94	65	74	38	14	23	29.93	30.02
19	CLR	NC			8.00		88	66	73	48	8	22	29.93	30.01
22	CLR	NC			9.00		82	65	71	56	7	21	29.94	30.02
SUNRISE: 0450 JUL 19 SUNSET: 1927														
01	CLR	NC			10.00		77	62	68	60	8	23	29.94	30.03
04	CLR	NC			10.00		73	67	69	82	0	00	29.93	30.01
07	CLR	NC			10.00		78	72	74	82	8	22	29.96	30.04
10	CLR	NC			10.00		88	68	74	52	10	23	29.96	30.04
13	FEW	060			10.00		94	61	72	33	15	20	29.91	29.99
16	CLR	NC			10.00		94	63	73	36	11	24	29.88	29.97
19	CLR	NC			10.00		88	67	74	50	8	21	29.88	29.96
22	CLR	NC			10.00		83	69	74	63	9	20	29.91	29.98
SUNRISE: 0451 JUL 20 SUNSET: 1927														
01	CLR	NC			10.00		78	72	74	82	6	22	29.91	29.98
04	CLR	NC			10.00		76	73	74	90	5	17	29.88	29.96
07	CLR	NC			10.00		80	74	76	82	9	22	29.91	29.98
10	CLR	NC			10.00		89	70	76	54	8	21	29.90	29.97
13	FEW	049			10.00		94	68	76	43	11	22	29.83	29.92
16	CLR	NC			10.00		93	66	75	41	15	21	29.78	29.87
19	CLR	NC			10.00		89	67	74	48	13	19	29.78	29.85
22	OVC	045			1.50	TS+RA BR	74	71	72	90	24	26	29.83	29.91
SUNRISE: 0452 JUL 21 SUNSET: 1926														
01	CLR	NC			10.00		76	74	75	94	3	27	29.77	29.85
04	CLR	NC			10.00		74	70	71	87	7	26	29.75	29.84
07	CLR	NC			7.00		76	69	71	79	8	31	29.78	29.85
10	CLR	NC			10.00		84	68	73	59	6	32	29.78	29.87
13	FEW	045			10.00		89	66	74	47	15	31	29.78	29.85
16	CLR	NC			10.00		89	66	74	47	10	30	29.75	29.83
19	CLR	NC			10.00		86	66	73	51	0	00	29.73	29.81
22	CLR	NC			9.00		82	68	73	63	6	19	29.78	29.85
SUNRISE: 0453 JUL 22 SUNSET: 1925														
01	CLR	NC			9.00		79	68	72	69	0	00	29.77	29.85
04	FEW	090			8.00		77	67	70	71	6	25	29.77	29.84
07	CLR	NC			7.00		79	67	71	67	10	28	29.82	29.89
10	CLR	NC			10.00		86	67	73	53	13	27	29.85	29.94
13	CLR	NC			9.00		88	69	75	53	9	17	29.80	29.88
16	CLR	NC			10.00		90	67	74	47	10	24	29.80	29.88
19	CLR	NC			10.00		86	67	73	53	7	22	29.80	29.88
22	CLR	NC			10.00		81	66	71	60	3	24	29.85	29.92
SUNRISE: 0453 JUL 23 SUNSET: 1925														
01	OVC	070			5.00	TSRA	72	67	69	84	8	33	29.88	29.95
04	OVC	070			8.00		73	70	71	90	6	03	29.86	29.95
07	CLR	NC			10.00		74	69	71	84	6	09	29.88	29.96
10	CLR	NC			10.00		80	70	73	72	8	10	29.86	29.94
13	FEW	021			6.00	HZ	84	74	77	72	8	13	29.83	29.91
16	OVC	041			5.00	TS HZ	78	70	73	77	6	07	29.80	29.88
19	BKN	075			1.25	TS+RA BR	71	67	68	87	0	00	29.78	29.87
22	OVC	070			7.00	-TSRA	70	68	69	93	6	30	29.85	29.93
SUNRISE: 0454 JUL 24 SUNSET: 1924														
01	OVC	032			8.00	-TSRA	70	69	69	97	8	11	29.82	29.90
04	OVC	085			6.00	-TSRA BR	70	68	69	93	6	19	29.80	29.89
07	BKN	041			10.00	BR	70	68	69	93	8	24	29.85	29.94
10	SCT	024			10.00		75	63	67	66	10	27	29.88	29.97
13	BKN	041			10.00		78	61	67	56	7	29	29.91	29.99
16	FEW	046			10.00		82	61	69	49	10	25	29.91	29.99
19	CLR	NC			10.00		77	57	65	50	9	32	29.94	30.03
22	CLR	NC			10.00		71	55	62	57	0	00	30.01	30.09

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE
JULY 2008 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: 0455						JUL 25	SUNSET: 1923							
01	CLR	NC			10.00		65	58	61	78	3	28	30.01	30.08
04	CLR	NC			10.00		63	58	60	84	0	00	30.02	30.11
07	CLR	NC			10.00		68	58	62	71	0	00	30.07	30.15
10	CLR	NC			10.00		80	58	66	47	3	VR	30.06	30.14
13	CLR	NC			10.00		85	60	69	43	7	VR	30.04	30.13
16	CLR	NC			10.00		86	50	65	29	10	22	30.01	30.10
19	CLR	NC			10.00		81	55	65	41	5	23	29.99	30.08
22	CLR	NC			10.00		74	58	64	58	5	18	30.01	30.09
SUNRISE: 0456						JUL 26	SUNSET: 1922							
01	CLR	NC			10.00		71	60	64	68	6	21	29.99	30.07
04	BKN	080			10.00		68	60	63	76	0	00	29.96	30.05
07	CLR	NC			10.00		73	62	66	69	6	19	29.96	30.05
10	CLR	NC			10.00		82	65	71	56	8	21	29.93	30.01
13	SCT	080			10.00		86	64	72	48	11	20	29.88	29.96
16	FEW	095			10.00		86	65	72	50	11	18	29.82	29.90
19	CLR	NC			10.00		82	65	71	56	11	18	29.80	29.88
22	CLR	NC			10.00		77	62	68	60	11	17	29.80	29.88
SUNRISE: 0457						JUL 27	SUNSET: 1921							
01	BKN	095			10.00		74	59	65	60	6	18	29.78	29.86
04	CLR	NC			10.00		71	64	67	79	0	00	29.75	29.83
07	FEW	100			8.00		74	68	70	82	5	VR	29.75	29.83
10	CLR	NC			7.00		81	71	74	72	6	21	29.75	29.84
13	BKN	055			7.00		83	72	75	70	11	16	29.70	29.78
16	SCT	100			10.00		73	67	69	82	3	16	29.70	29.79
19	CLR	NC			9.00		73	67	69	82	6	20	29.72	29.81
22	CLR	NC			6.00	BR	68	66	67	93	3	30	29.77	29.85
SUNRISE: 0458						JUL 28	SUNSET: 1920							
01	CLR	NC			4.00	BR	65	64	64	97	3	29	29.77	29.85
04	CLR	NC			6.00	BR	62	60	61	93	3	30	29.75	29.84
07	CLR	NC			7.00		70	64	66	81	5	34	29.80	29.88
10	CLR	NC			10.00		77	62	68	60	0	00	29.83	29.91
13	CLR	NC			8.00		85	57	68	39	7	31	29.82	29.90
16	CLR	NC			9.00		85	57	68	39	5	25	29.78	29.87
19	CLR	NC			8.00		80	59	67	49	6	23	29.80	29.89
22	CLR	NC			8.00		75	59	65	58	5	21	29.83	29.92
SUNRISE: 0459						JUL 29	SUNSET: 1919							
01	CLR	NC			7.00		70	63	66	79	6	25	29.85	29.93
04	SCT	110			7.00		70	64	66	81	3	28	29.83	29.92
07	FEW	120			7.00		74	64	68	71	7	26	29.86	29.94
10	CLR	NC			9.00		83	64	71	53	7	27	29.86	29.95
13	CLR	NC			10.00		88	64	72	45	9	23	29.83	29.91
16	CLR	NC			10.00		87	63	71	45	7	22	29.82	29.89
19	CLR	NC			7.00		83	69	74	63	10	17	29.80	29.87
22	CLR	NC			8.00		79	69	72	72	7	21	29.82	29.89
SUNRISE: 0459						JUL 30	SUNSET: 1918							
01	CLR	NC			6.00	HZ	75	69	71	82	0	00	29.80	29.87
04	CLR	NC			5.00	BR	72	69	70	90	0	00	29.77	29.85
07	CLR	NC			2.50	BR	74	70	71	87	0	00	29.78	29.86
10	CLR	NC			3.00	HZ	81	74	76	79	0	00	29.77	29.84
13	FEW	085			6.00	HZ	85	72	76	65	11	16	29.72	29.81
16	CLR	NC			8.00		83	70	74	65	10	17	29.67	29.75
19	SCT	038			7.00		80	74	76	82	14	17	29.64	29.72
22	CLR	NC			5.00	BR	78	75	76	91	6	21	29.62	29.71

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: 0500						JUL 31			SUNSET: 1917					
01	BKN	080			5.00	BR	76	73	74	90	5	25	29.61	29.69
04	CLR	NC			6.00	HZ	74	69	71	84	6	29	29.59	29.67
07	CLR	NC			5.00	HZ	76	69	71	79	5	27	29.62	29.69
10	CLR	NC			8.00		80	70	73	72	9	27	29.62	29.70
13	CLR	NC			9.00		84	71	75	65	9	26	29.61	29.69
16	FEW	034			10.00		85	69	74	59	8	30	29.57	29.65
19	CLR	NC			10.00		82	65	71	56	6	26	29.56	29.63
22	CLR	NC			9.00		76	71	73	85	6	22	29.62	29.69

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.

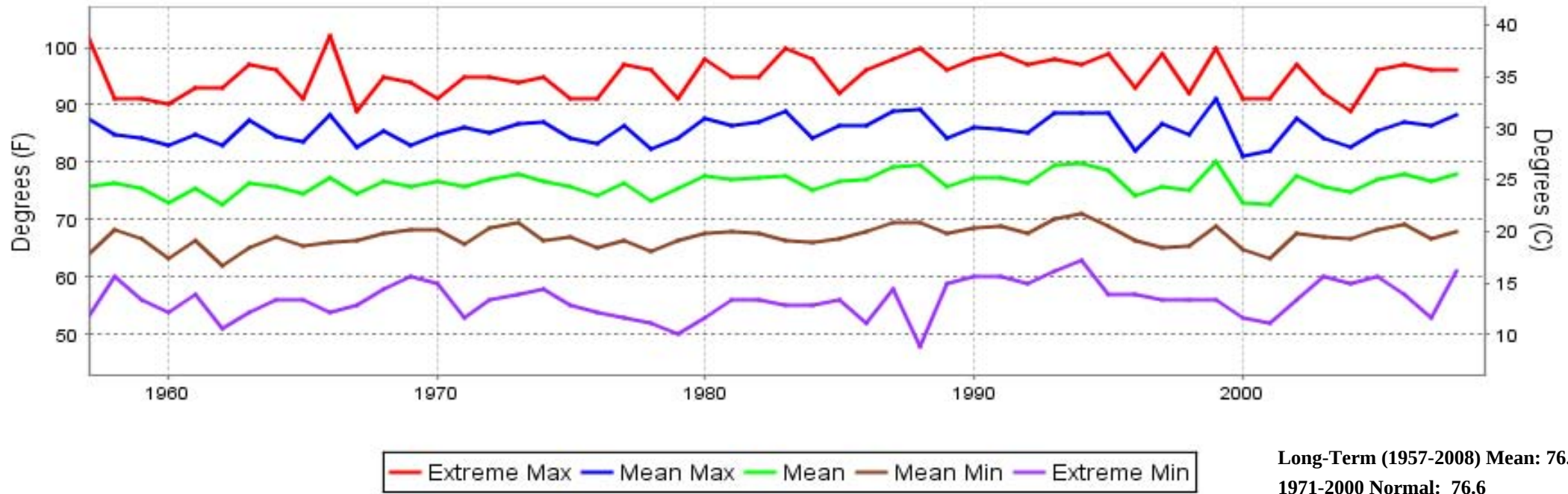
& = Original observation contained additional weather elements.

See page 3 for additional notes.

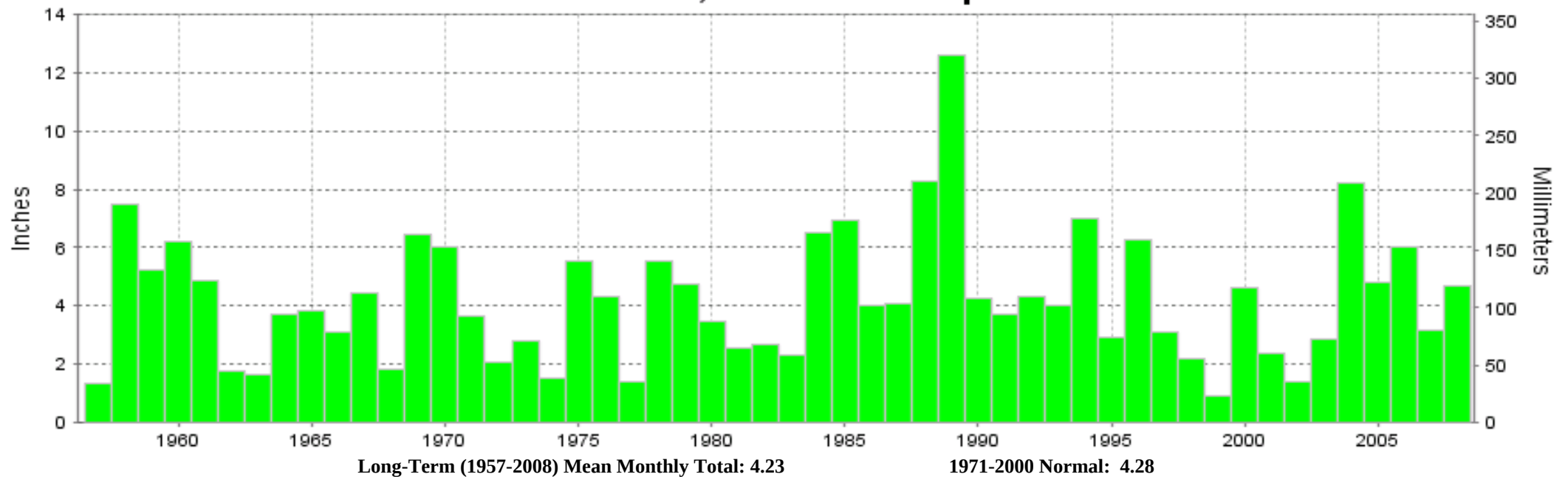
SUMMARY BY HOUR

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			72	66	68	81	29.88	29.96	8.26	4	4	21
02			71	66	68	84	29.87	29.95	8.29	4	4	21
03			71	66	68	84	29.87	29.95	8.10	5	5	23
04			70	66	67	86	29.87	29.95	8.13	4	4	21
05			70	65	67	86	29.88	29.96	7.56	4	4	20
06			71	66	68	86	29.89	29.97	6.56	4	4	21
07			74	66	69	79	29.90	29.98	7.77	5	5	22
08			77	66	70	71	29.90	29.98	8.35	6	4	22
09			79	66	70	65	29.90	29.99	9.10	7	4	22
10			81	65	71	61	29.91	29.99	9.13	7	5	23
11			83	64	71	55	29.90	29.98	9.39	8	5	23
12			84	63	71	51	29.89	29.97	9.74	9	5	23
13			86	64	71	50	29.88	29.96	9.45	10	5	23
14			86	63	71	49	29.87	29.95	9.35	10	5	24
15			86	62	71	48	29.86	29.94	9.53	11	6	24
16			86	63	71	48	29.85	29.93	9.71	10	5	24
17			85	63	71	49	29.85	29.93	9.84	10	4	23
18			84	63	71	53	29.85	29.93	9.45	10	5	24
19			81	64	70	58	29.85	29.93	9.17	9	3	22
20			79	65	70	65	29.86	29.94	9.35	8	3	20
21			78	66	70	68	29.87	29.95	9.26	7	3	20
22			76	65	69	71	29.88	29.96	8.73	7	3	22
23			75	66	69	74	29.88	29.96	8.97	6	3	21
24			74	66	69	78	29.88	29.96	8.58	5	3	21

WILMINGTON, DE JULY Temperatures



WILMINGTON, DE JULY Precipitation





JULY 2008
WILMINGTON, DE

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

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

Thomas R. Karl
DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost for online delivery (including back issues) is significantly less than the cost for offline delivery.** To order this and other subscriptions online with your credit card, go to: **www.ncdc.noaa.gov** and choose subscriptions.

We welcome your questions or comments, please contact us at:
Toll Free Number (866) 742-3322 (voice)
Fax Number : (304) 726-4409
TDD : (828) 271-4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

United States
Department of Commerce
National Oceanic and
Atmospheric Administration
National Environmental Satellite
Atmospheric Administration

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726

OFFICIAL BUSINESS, PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19