



DECEMBER 2005

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE

NEW CASTLE COUNTY AIRPORT (ILG)
 Lat: 39° 40' N Long: 75° 36' W Elev (Ground): 92 Feet
 Time Zone: EASTERN WBAN: 13781 ISSN #: 0198-117X

DECEMBER 2005
WILMINGTON, DE

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND (IN)		PRECIPITATION (INCHES)		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	SPEED		DIR	SPEED	DIR																																
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																			
01	44	30	37	-4	29	35	28	0		0	0.0	0.00	29.80	29.89	4.9	29	6.8	22	26	18	27	01																																			
02	42	29	36	-4	21	30	29	0		0	0.0	0.00	29.72	29.81	16.5	26	16.7	40	26	32	28	02																																			
03	36	26	31	-9	13	26	34	0		0	0.0	0.00	30.03	30.11	11.0	26	11.6	28	28	24	28	03																																			
04	43	29	36	-4	30	33	29	0	RA FZRA SN BR UP HZ	T	0.2	0.33	29.84	29.92	4.2	31	8.3	32	29	26	29	04																																			
05	35	30	33	-6	23	30	32	0	SN BR HZ	0	1.7	0.08	30.05	30.14	5.0	36	5.9	14	01	12	01	05																																			
06	35	25	30	-9	19	26	35	0	RA SN BR	4	2.5	0.11	30.04	30.13	7.6	29	8.5	23	26	20	30	06																																			
07	33	21	27	-12	14	23	38	0		1	0.0	0.00	30.37	30.46	11.0	28	11.6	32	28	28	28	07																																			
08	33	17	25	-14	12	22	40	0		T	0.0	0.00	30.55	30.64	2.1	26	5.4	14	34	12	01	08																																			
09	36	25	31	-7	22	28	34	0	RA FZRA SN BR	2	2.6	0.49	30.04	30.13	10.9	29	14.1	39	29	32	28	09																																			
10	35	21	28	-10	20	26	37	0		1	0.0	0.00	29.95	30.04	4.5	21	5.7	17	15	15	15	10																																			
11	41	21	31	-7	25	30	34	0	BR	1	0.0	0.00	29.58	29.67	5.5	24	5.8	22	27	18	27	11																																			
12	38	25	32	-5	20	28	33	0		T	0.0	0.00	29.75	29.84	8.6	28	9.8	28	27	22	27	12																																			
13	29	16	23	-14	8	18	42	0		T	0.0	0.00	30.18	30.27	8.0	32	8.4	18	33	16	33	13																																			
14	25	13*	19*	-18	4	16	46	0		T	0.0	0.00	30.39	30.48	6.5	01	7.2	16	02	14	02	14																																			
15	47	14	31	-5	21	26	34	0	RA FZRA SN BR	T	0.1	0.69	30.10	30.19	9.7	05	10.4	30	06	23	06	15																																			
16	53	35	44	8	33	39	21	0	RA BR	0	0.0	0.51	29.79	29.87	8.8	26	15.0	41*	13	32*	13	16																																			
17	43	27	35	-1	22	30	30	0		0	0.0	0.00	30.36	30.45	4.5	27	5.7	24	29	21	29	17																																			
18	42	27	35	-1	23	30	30	0	HZ	0	0.0	0.00	30.37	30.46	2.9	29	3.6	17	26	12	28	18																																			
19	39	20	30	-5	18	26	35	0		0	0.0	0.00	30.16	30.25	9.6	29	10.1	31	31	24	28	19																																			
20	36	18	27	-8	6	21	38	0		0	0.0	0.00	30.08	30.17	9.6	26	10.3	24	28	18	29	20																																			
21	35	22	29	-6	15	25	36	0		0	0.0	0.00	30.12	30.21	6.7	28	8.1	21	29	17	30	21																																			
22	39	30	35	0	20	29	30	0		0	0.0	0.00	30.13	30.22	6.1	22	6.5	16	22	13	20	22																																			
23	50	29	40	6	26	33	25	0		0	0.0	0.00	29.91	30.00	3.6	17	4.5	14	16	12	17	23																																			
24	54*	29	42	8	27	35	23	0		0	0.0	0.00	29.84	29.93	1.8	17	2.2	9	16	8	16	24																																			
25	50	25	38	4	35	36	27	0	RA FG+ BR	0	0.0	0.53	29.60	29.68	2.7	05	4.6	24	23	20	22	25																																			
26	49	40	45*	11	36	40	20	0	RA FG+ BR	0	0.0	0.01	29.37	29.46	13.6	28	14.3	35	30	28	29	26																																			
27	46	36	41	7	27	35	24	0		0	0.0	0.00	29.78	29.87	12.2	29	12.8	37	27	28	29	27																																			
28	50	31	41	8	34	38	24	0		0	0.0	0.00	29.72	29.80	4.6	13	5.1	15	15	13	15	28																																			
29	48	40	44	11	43	45	21	0	RA BR	0	0.0	0.45	29.36	29.45	5.7	30	8.6	30	28	24	28	29																																			
30	47	31	39	6	32	38	26	0		0	0.0	0.00	29.71	29.79	12.9	30	13.1	32	28	25	29	30																																			
31	40	32	36	3	32	35	29	0	RA BR HZ	0	0.0	0.02			3.4	04	6.4	14	32	13	29	31																																			
41.1										26.3		33.7		■ ■		22.9		30.1		31.1		0.0		< MONTHLY AVERAGES		TOTALS->				7.1		3.22						5.1		28		8.6		<- MONTHLY AVERAGES													
-3.3										-2.1		-2.7		■ ■		<-----DEPARTURE FROM NORMAL----->																				- .18		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.20 DATE :15-16										SEA LEVEL PRESSURE DATE TIME																																					
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 2.6 DATE :09										MAXIMUM : 30.74 08 0951																																					
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 4 DATE :06										MINIMUM : 29.33 29 1351																																					
HEATING: 964 92 1729 -56										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 27										PRECIPITATION ≥ 0.01 INCH : 10																	
COOLING: 0 0 1306 181																				MAXIMUM TEMP ≤ 32 : 2										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 7																	
																				THUNDERSTORMS : 0										HEAVY FOG : 2										SNOWFALL ≥ 1.0 INCH : 3																	

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

DECEMBER 2005

ILG

WBAN # 13781

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	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												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04	T	0.02	0.04	0.04	0.07	0.10	0.06	T					04												04		0.33		
05													05			T	T	T	0.02	0.01	0.02	0.01	0.01	0.01	05		0.08		
06	0.05	0.04	0.02	T	T								06	T	T										06		0.11		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.49		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15	T		0.01	0.02	0.01	0.03	0.03	0.01	0.07	0.09	0.12	0.30	15		0.69	
16	0.14	0.12	0.08	0.11	0.06	T							16												16		0.51		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25	0.05	0.16	0.18	0.06	0.01	0.02	0.04	0.01	T			25		0.53		
26	T	T				T	T	0.01	T				26												26		0.01		
27													27												27		0.00		
28													28												28		0.00		
29													29	0.05	0.01	0.04	0.08	0.08	0.04	T	T				29		0.45		
30													30												30		0.00		
31													31				.02								31		0.02		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.06	.06	.09	.11	.16	.22	.29	.35	.41	.45	.53	.60
Ending Date	16	16	25	25	25	15	16	16	16	16	16	16
Ending Time (Hour/Min)	0324	0324	1454	1454	1452	2350	0005	0017	0017	0017	0108	0118

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. 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 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		
	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	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '- ' = Light

WILMINGTON, DE DECEMBER 2005

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:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							1.00	10.00	
05							1.75	10.00	
06							1.75	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							.75	10.00	
10							10.00	10.00	
11							6.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							2.50	10.00	
16							4.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							9.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							9.00	10.00	
25							.25	10.00	
26							.25	10.00	
27							10.00	10.00	
28							9.00	10.00	
29							1.50	10.00	
30							10.00	10.00	
31							5.00	10.00	
MONTHLY AVGS							7.15	10.00	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 2 8 20									

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

DECEMBER 2005

ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0704 DEC 01								SUNSET: 1639								SUNRISE: 0710 DEC 07								SUNSET: 1638								
01	CLR	NC				10.00		33	27	31	78	7	29	29.97	30.06	01	CLR	NC					10.00		26	13	22	57	8	25	30.20	30.29
04	CLR	NC				10.00		31	25	29	79	6	29	29.94	30.03	04	CLR	NC					10.00		24	15	21	68	5	21	30.24	30.34
07	OVC	030				10.00		35	28	32	76	8	33	29.92	30.01	07	CLR	NC					10.00		22	14	20	71	5	24	30.30	30.39
10	OVC	034				10.00		40	30	36	68	10	35	29.89	29.98	10	CLR	NC					10.00		30	16	26	56	17	28	30.35	30.44
13	OVC	038				10.00		44	31	39	60	3	02	29.77	29.86	13	BKN	050					10.00		30	16	26	56	16	29	30.34	30.43
16	OVC	042				10.00		43	30	38	60	3	23	29.70	29.79	16	FEW	NC					10.00		31	14	26	49	14	28	30.37	30.46
19	OVC	035				10.00		41	31	37	67	9	27	29.66	29.75	19	CLR	NC					10.00		28	12	23	51	13	29	30.46	30.55
22	OVC	090				10.00		40	31	36	70	9	25	29.64	29.73	22	CLR	NC					10.00		26	11	22	53	10	27	30.55	30.64
SUNRISE: 0705 DEC 02								SUNSET: 1639								SUNRISE: 0711 DEC 08								SUNSET: 1638								
01	BKN	090				10.00		36	30	34	79	12	27	29.61	29.70	01	CLR	NC					10.00		22	10	19	60	7	29	30.55	30.64
04	OVC	044				10.00		35	29	33	78	9	24	29.63	29.72	04	CLR	NC					10.00		20	10	17	65	6	30	30.61	30.70
07	CLR	NC				10.00		33	25	30	72	10	24	29.65	29.74	07	CLR	NC					10.00		20	10	17	65	7	33	30.63	30.72
10	CLR	NC				10.00		40	23	34	51	24	26	29.68	29.78	10	CLR	NC					10.00		26	13	22	57	9	34	30.65	30.74
13	OVC	060				10.00		40	19	32	43	21	26	29.67	29.76	13	CLR	NC					10.00		30	12	25	47	5	VR	30.58	30.67
16	FEW	NC				10.00		37	15	30	41	23	26	29.72	29.81	16	CLR	NC					10.00		30	15	25	54	8	17	30.53	30.62
19	CLR	NC				10.00		32	14	26	47	16	26	29.81	29.90	19	FEW	NC					10.00		29	15	25	56	6	18	30.49	30.58
22	CLR	NC				10.00		30	14	25	51	15	27	29.86	29.96	22	OVC	110					10.00		29	16	25	58	8	16	30.39	30.48
SUNRISE: 0706 DEC 03								SUNSET: 1638								SUNRISE: 0712 DEC 09								SUNSET: 1638								
01	CLR	NC				10.00		28	15	24	58	12	25	29.92	30.01	01	OVC	090					10.00		29	17	25	61	7	08	30.25	30.34
04	CLR	NC				10.00		27	13	23	55	14	25	30.00	30.09	04	OVC	033					5.00	-SN	29	21	26	72	12	05	30.06	30.16
07	CLR	NC				10.00		26	12	22	55	14	26	30.05	30.14	07	OVC	015					1.00	FZRA BR	27	26	27	96	13	09	29.94	30.03
10	CLR	NC				10.00		30	12	25	47	15	27	30.08	30.17	10	BKN	006					3.00		33	30	32	89	13	27	29.95	30.04
13	CLR	NC				10.00		35	13	28	40	16	26	30.02	30.11	13	CLR	NC					10.00		35	23	31	61	21	28	29.94	30.03
16	CLR	NC				10.00		34	11	27	38	17	27	30.03	30.12	16	CLR	NC					10.00		34	20	29	56	22	29	29.97	30.06
19	OVC	100				10.00		33	13	27	43	6	26	30.05	30.14	19	CLR	NC					10.00		31	18	27	59	17	29	30.06	30.15
22	OVC	080				10.00		33	15	27	48	3	15	30.01	30.11	22	CLR	NC					10.00		29	18	25	64	8	27	30.10	30.19
SUNRISE: 0707 DEC 04								SUNSET: 1638								SUNRISE: 0712 DEC 10								SUNSET: 1638								
01	OVC	032				9.00	-SN	34	18	29	52	8	13	29.94	30.03	01	CLR	NC					10.00		27	18	24	69	7	27	30.10	30.19
04	OVC	006				7.00	-FZRA	31	29	30	92	10	08	29.81	29.90	04	CLR	NC					10.00		24	16	22	71	6	21	30.10	30.19
07	OVC	002				5.00	-FZRA BR	33	32	33	96	6	04	29.71	29.80	07	CLR	NC					10.00		22	16	20	78	5	24	30.10	30.19
10	OVC	002				1.00	BR	34	33	34	97	6	33	29.70	29.79	10	CLR	NC					10.00		28	18	25	66	8	26	30.09	30.18
13	OVC	006				2.00	BR	38	36	37	93	5	25	29.70	29.79	13	CLR	NC					10.00		34	20	29	56	7	21	29.96	30.05
16	FEW	NC				10.00		39	30	35	70	23	29	29.83	29.92	16	CLR	NC					10.00		35	23	31	61	9	16	29.87	29.96
19	CLR	NC				10.00		33	27	31	78	7	30	29.97	30.06	19	CLR	NC					10.00		32	24	29	73	5	21	29.81	29.90
22	CLR	NC				10.00		32	26	30	79	7	29	30.00	30.09	22	CLR	NC					10.00		32	26	30	79	7	16	29.72	29.81
SUNRISE: 0708 DEC 05								SUNSET: 1638								SUNRISE: 0713 DEC 11								SUNSET: 1638								
01	FEW	NC				10.00		35	25	31	67	0	00	30.05	30.14	01	CLR	NC					9.00		28	24	27	85	0	00	29.63	29.72
04	CLR	NC				10.00		34	25	31	70	8	30	30.08	30.17	04	CLR	NC					6.00	BR	25	23	24	92	3	23	29.58	29.67
07	FEW	NC				10.00		32	21	28	64	6	01	30.12	30.22	07	CLR	NC					9.00		25	22	24	88	3	19	29.57	29.66
10	CLR	NC				10.00		35	19	30	52	7	34	30.14	30.23	10	CLR	NC					10.00		34	27	31	76	3	24	29.57	29.67
13	FEW	NC				10.00		35	20	30	54	9	01	30.04	30.13	13	FEW	NC					10.00		40	26	35	58	6	24	29.53	29.62
16	OVC	095				10.00		34	21	29	59	5	03	30.04	30.13	16	FEW	NC					10.00		40	27	35	60	8	24	29.54	29.63
19	OVC	007				1.75	-SN BR	30	28	29	92	7	01	30.00	30.09	19	CLR	NC					10.00		35	25	31	67	6	24	29.59	29.68
22	OVC	028				4.00	-SN BR	30	28	29	92	8	35	29.94	30.03	22	BKN	110					10.00		36	25	32	64	8	23	29.59	29.68
SUNRISE: 0709 DEC 06								SUNSET: 1638								SUNRISE: 0714 DEC 12								SUNSET: 1639								
01	OVC	003				1.75	-SN BR	29	27	28	92	7	34	29.88	29.97	01	OVC	120					10.00		35	25	31	67	8	24	29.61	29.70
04	OVC	021				7.00	-SN	29	26	28	89	5	32	29.90	29.98	04	CLR	NC					10.00		32	23	29	69	6	22	29.62	29.72
07	CLR	NC				9.00		27	22	25	81	5	29	29.95	30.04	07	CLR	NC					10.00		30	23	28	75	8	24	29.66	29.75
10	FEW	NC				10.00		30	20	27	66	13	30	30.01	30.11	10	SCT	NC					10.00		35	23	31	61	10	27	29.73	29.83
13	CLR	NC				4.00	-RA	34	19	29	54	17	28	30.03	30.12	13	SCT	NC					10.00		37	21	31	52	12	29	29.72	29.81
16	CLR	NC				10.00		34	16	28	48	12	31	30.08	30.17	16	FEW	NC					10.00		35	20	30	54	12	31	29.76	29.85
19	CLR	NC				10.00		29	14	24	54	3	31	30.14	30.23	19	CLR	NC					10.00		28	16	24	61	8	30	29.84	29.93
22	CLR	NC				10.00		26	15	23	63	7	25	30.18	30.27	22	CLR	NC					10.00		26	15	23	63	8	30	29.90	29.99

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

DECEMBER 2005

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)							
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0715				DEC 13				SUNSET: 1639				SUNRISE: 0719				DEC 19				SUNSET: 1641									
01	CLR	NC			10.00	23	15	21	72	7	33	29.96	30.05	01	OVC	080			9.00	29	23	27	78	0	00	30.20	30.29		
04	CLR	NC			10.00	20	9	17	62	7	33	30.03	30.12	04	OVC	100			10.00	30	23	28	75	3	24	30.18	30.27		
07	CLR	NC			10.00	17	7	15	64	7	34	30.10	30.19	07	OVC	060			10.00	32	24	29	73	3	27	30.17	30.27		
10	CLR	NC			10.00	21	8	18	57	10	32	30.19	30.28	10	CLR	NC			10.00	37	25	33	62	7	25	30.16	30.25		
13	CLR	NC			10.00	26	8	21	46	9	32	30.17	30.26	13	CLR	NC			10.00	37	23	32	57	18	28	30.12	30.21		
16	CLR	NC			10.00	26	7	21	44	9	31	30.21	30.29	16	CLR	NC			10.00	31	11	25	43	15	30	30.14	30.23		
19	CLR	NC			10.00	19	8	16	62	7	30	30.29	30.38	19	CLR	NC			10.00	27	10	22	49	12	29	30.16	30.25		
22	CLR	NC			10.00	19	6	16	57	6	34	30.34	30.43	22	CLR	NC			10.00	24	10	20	55	14	30	30.17	30.26		
SUNRISE: 0715				DEC 14				SUNSET: 1639				SUNRISE: 0719				DEC 20				SUNSET: 1641									
01	CLR	NC			10.00	18	4	15	54	9	02	30.35	30.45	01	CLR	NC			10.00	21	10	18	62	6	24	30.14	30.23		
04	CLR	NC			10.00	15	2	12	56	7	36	30.39	30.48	04	CLR	NC			10.00	20	9	17	62	7	24	30.11	30.20		
07	CLR	NC			10.00	14	2	11	58	9	01	30.43	30.52	07	CLR	NC			10.00	20	8	17	60	7	26	30.08	30.17		
10	CLR	NC			10.00	19	4	15	52	8	01	30.47	30.56	10	CLR	NC			10.00	26	6	21	42	10	25	30.10	30.19		
13	CLR	NC			10.00	24	4	19	42	7	36	30.39	30.48	13	CLR	NC			10.00	34	1	25	24	14	25	30.03	30.12		
16	CLR	NC			10.00	24	5	19	44	3	31	30.38	30.47	16	CLR	NC			10.00	35	0	26	22	16	26	30.02	30.11		
19	CLR	NC			10.00	22	4	18	46	7	04	30.36	30.45	19	CLR	NC			10.00	29	4	22	34	7	25	30.06	30.15		
22	CLR	NC			10.00	18	6	15	60	6	01	30.34	30.43	22	CLR	NC			10.00	26	9	21	48	10	31	30.10	30.19		
SUNRISE: 0716				DEC 15				SUNSET: 1639				SUNRISE: 0720				DEC 21				SUNSET: 1642									
01	CLR	NC			10.00	15	7	13	70	6	32	30.32	30.41	01	OVC	065			10.00	28	13	24	53	13	30	30.11	30.21		
04	OVC	031			10.00	19	9	16	65	7	36	30.30	30.39	04	CLR	NC			10.00	24	13	21	62	6	31	30.13	30.22		
07	OVC	100			10.00	21	11	18	65	10	04	30.26	30.35	07	CLR	NC			10.00	23	15	21	72	9	32	30.16	30.25		
10	SCT	NC			10.00	24	16	22	71	12	05	30.24	30.33	10	CLR	NC			10.00	30	16	26	56	10	29	30.19	30.28		
13	OVC	050			10.00	28	20	25	72	10	05	30.15	30.24	13	CLR	NC			10.00	33	15	27	48	9	28	30.09	30.18		
16	OVC	036			2.50	-FZRA	30	27	29	88	14	06	30.05	30.14	16	CLR	NC			10.00	33	16	28	49	10	23	30.06	30.15	
19	OVC	024			8.00	-RA	33	31	32	92	14	05	29.92	30.01	19	OVC	050			10.00	30	17	26	59	3	23	30.10	30.19	
22	OVC	005			8.00	RA	40	39	40	97	22	07	29.74	29.83	22	OVC	050			10.00	30	16	26	56	8	23	30.11	30.20	
SUNRISE: 0717				DEC 16				SUNSET: 1640				SUNRISE: 0720				DEC 22				SUNSET: 1642									
01	OVC	011			6.00	RA BR	51	50	51	96	28	14	29.56	29.65	01	OVC	044			10.00	31	18	27	59	7	23	30.11	30.20	
04	OVC	006			4.00	RA BR	49	49	49	100	13	21	29.49	29.58	04	OVC	042			10.00	31	18	27	59	7	24	30.15	30.24	
07	CLR	NC			10.00		39	34	37	82	20	29	29.58	29.67	07	OVC	038			10.00	30	19	26	64	3	24	30.18	30.27	
10	CLR	NC			10.00		41	32	37	70	16	29	29.73	29.82	10	OVC	036			10.00	34	20	29	56	5	22	30.23	30.32	
13	CLR	NC			10.00		45	29	38	54	18	29	29.79	29.88	13	CLR	NC			10.00	38	20	32	48	8	21	30.13	30.22	
16	CLR	NC			10.00		42	27	36	55	18	27	29.88	29.97	16	CLR	NC			10.00	37	22	32	54	7	21	30.12	30.21	
19	BKN	065			10.00		38	26	33	62	5	26	30.00	30.09	19	CLR	NC			10.00	34	22	30	61	7	19	30.09	30.19	
22	SCT	NC			10.00		37	27	33	67	6	21	30.08	30.17	22	CLR	NC			10.00	34	22	30	61	8	21	30.06	30.15	
SUNRISE: 0717				DEC 17				SUNSET: 1640				SUNRISE: 0721				DEC 23				SUNSET: 1643									
01	CLR	NC			10.00		36	20	30	52	14	29	30.16	30.25	01	CLR	NC			10.00	30	23	28	75	3	16	30.01	30.10	
04	CLR	NC			10.00		32	19	28	59	5	25	30.25	30.34	04	CLR	NC			10.00	30	25	28	82	3	18	29.98	30.07	
07	CLR	NC			10.00		31	20	27	64	3	23	30.33	30.42	07	CLR	NC			10.00	30	24	28	79	6	17	29.97	30.06	
10	FEW	NC			10.00		35	23	31	61	3	24	30.41	30.50	10	CLR	NC			10.00	37	25	33	62	6	24	29.97	30.06	
13	CLR	NC			10.00		42	22	35	45	9	27	30.37	30.46	13	CLR	NC			10.00	48	23	38	37	7	22	29.89	29.98	
16	CLR	NC			10.00		40	23	34	51	7	31	30.38	30.47	16	CLR	NC			10.00	46	27	38	47	10	16	29.84	29.93	
19	CLR	NC			10.00		35	21	30	57	3	32	30.44	30.53	19	CLR	NC			10.00	37	30	34	76	0	00	29.85	29.94	
22	CLR	NC			10.00		30	23	28	75	3	34	30.44	30.53	22	CLR	NC			10.00	36	31	34	82	0	00	29.82	29.91	
SUNRISE: 0718				DEC 18				SUNSET: 1640				SUNRISE: 0721				DEC 24				SUNSET: 1643									
01	CLR	NC			10.00		30	23	28	75	3	24	30.44	30.53	01	CLR	NC			9.00	32	29	31	88	0	00	29.81	29.90	
04	CLR	NC			10.00		28	24	27	85	3	32	30.43	30.53	04	CLR	NC			10.00	33	28	31	82	0	00	29.82	29.91	
07	OVC	110			10.00		31	23	28	72	0	00	30.43	30.52	07	CLR	NC			10.00	31	26	29	82	3	18	29.85	29.94	
10	CLR	NC			10.00		33	26	31	75	5	30	30.46	30.55	10	CLR	NC			10.00	41	29	36	62	3	16	29.89	29.98	
13	CLR	NC			10.00		41	22	34	47	5	VR	30.36	30.45	13	CLR	NC			10.00	49	29	41	46	3	16	29.84	29.93	
16	CLR	NC			10.00		40	22	33	49	8	30	30.33	30.42	16	CLR	NC			10.00	53	26	42	35	3	13	29.82	29.91	
19	CLR	NC			10.00		33	22	29	64	5	28	30.32	30.41	19	CLR	NC			10.00	43	24	36	47	5	15	29.84	29.93	
22	OVC	120			10.00		30	22	27	72	0	00	30.27	30.36	22	CLR	NC			10.00	36	29	33	76	0	00	29.83	29.92	

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

DECEMBER 2005

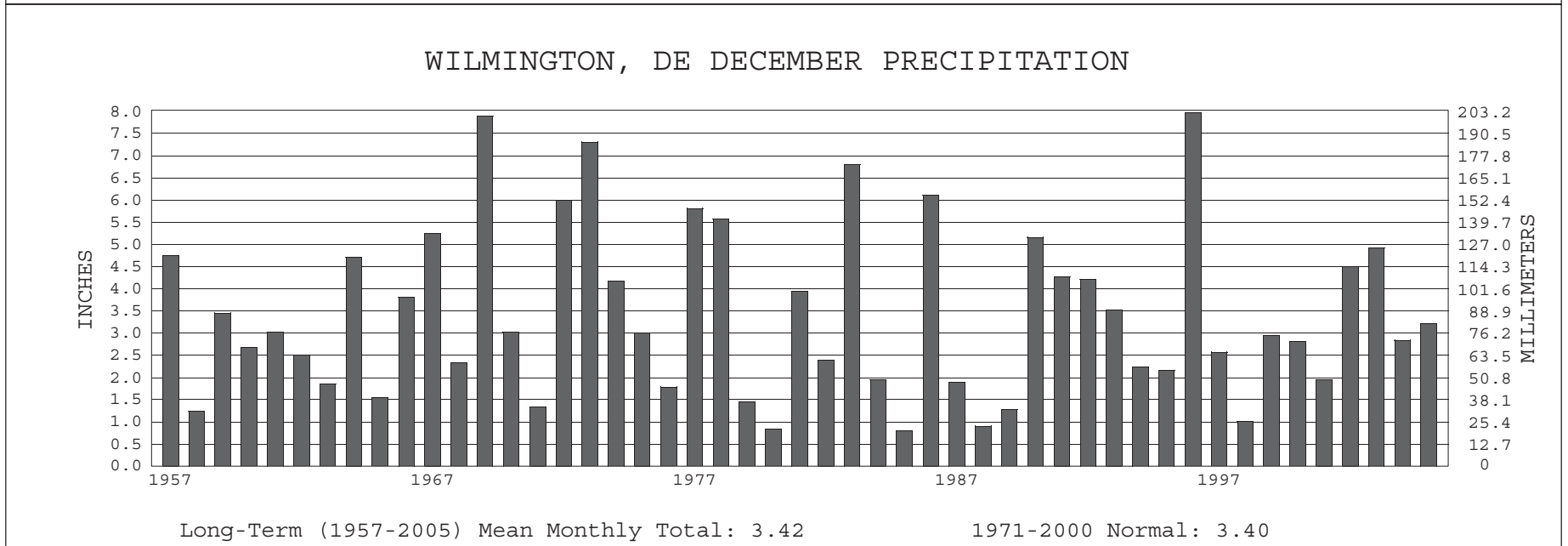
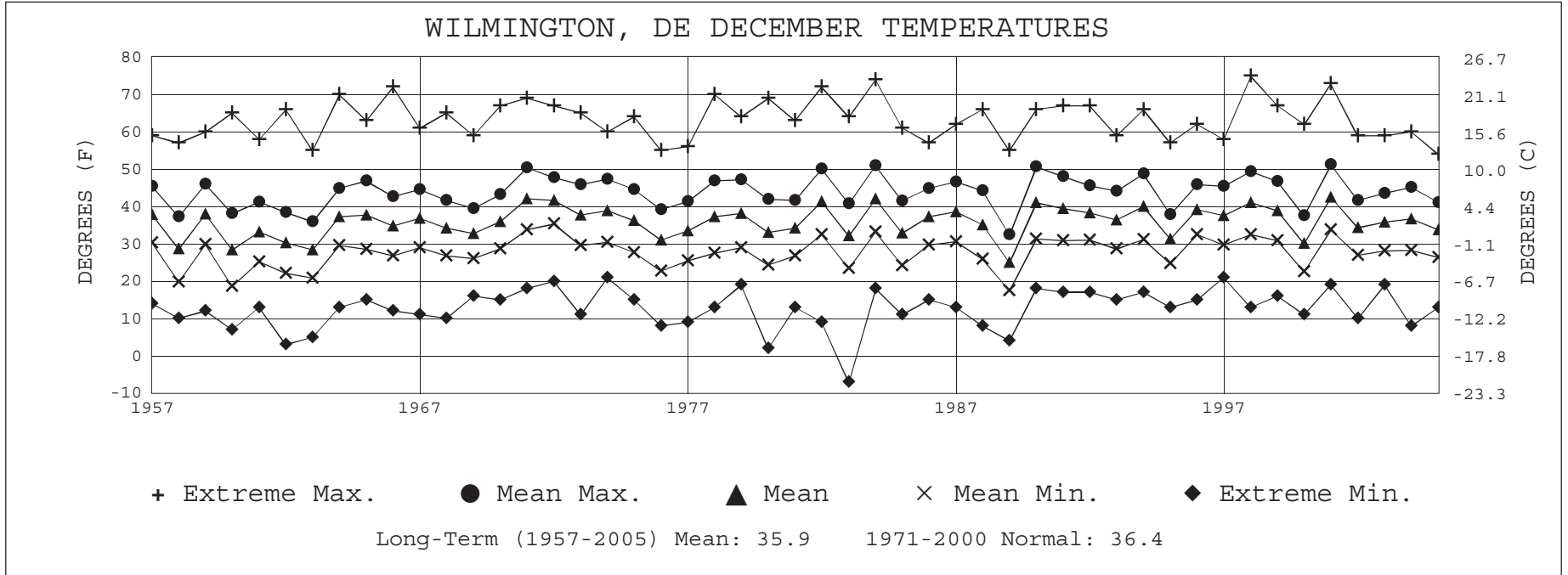
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WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)			DIRECTION TENS OF DEG	STATION	SEA LEVEL		DRY BULB	DEW POINT	WET BULB	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL											
SUNRISE: 0721 DEC 25								SUNSET: 1644								SUNRISE: 0723 DEC 31								SUNSET: 1648							
01	CLR	NC				10.00		31	27	29	85	3	12	29.80	29.89	01	FEW	NC				10.00		33	28	31	82	3	03	29.80	29.89
04	CLR	NC				9.00		29	26	28	89	3	09	29.78	29.87	04	OVC	100				10.00		35	27	32	72	7	11	29.78	29.87
07	FEW	NC				7.00		28	26	27	92	0	00	29.76	29.85	07	BKN	120				10.00		35	27	32	72	8	09		
10	OVC	050				8.00		37	32	35	82	7	05	29.74	29.83	10	OVC	020				10.00		36	30	34	79	8	06		
13	OVC	030				5.00	-RA BR	38	34	36	86	7	06	29.62	29.71	13	OVC	014				10.00	-RA	40	35	38	83	7	04		
16	OVC	008				2.00	-RA BR	40	39	40	97	7	06	29.47	29.57	16	OVC	060				10.00		40	37	39	89	7	01		
19	OVC	090				10.00	-RA	45	45	45	100	0	00	29.40	29.49	19	FEW	NC				7.00		34	33	34	97	8	30		
22	OVC	006				1.00	BR	44	43	44	96	3	29	29.36	29.45	22	OVC	060				6.00	BR	37	35	36	93	3	32		
SUNRISE: 0722 DEC 26								SUNSET: 1645								3-HOURLY OBSERVATION NOTES															
01	VV	001				0.25	-RA FG	44	44	44	100	5	28	29.29	29.38	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, VV = Vertical Visibility = 8/8.															
04	VV	001				0.50	FG	43	43	43	100	7	19	29.28	29.36	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.															
07	OVC	039				7.00	-RA	41	39	40	93	10	25	29.29	29.37	NC = No ceiling detected.															
10	OVC	060				10.00		44	41	43	89	10	25	29.32	29.41	& = Original observation contained additional weather elements.															
13	OVC	030				10.00		45	36	41	71	17	29	29.31	29.40	See page 3 for additional notes.															
16	OVC	036				10.00		42	32	38	68	17	28	29.38	29.47																
19	OVC	040				10.00		42	31	37	65	15	29	29.46	29.55																
22	OVC	033				10.00		42	31	37	65	15	28	29.54	29.63																
SUNRISE: 0722 DEC 27								SUNSET: 1645																							
01	OVC	039				10.00		40	29	36	65	23	29	29.58	29.67																
04	OVC	033				10.00		39	28	35	65	17	30	29.65	29.74																
07	OVC	039				10.00		39	28	35	65	18	28	29.73	29.82																
10	BKN	037				10.00		42	28	36	58	15	30	29.81	29.90																
13	SCT	NC				10.00		45	27	38	49	16	30	29.80	29.89																
16	CLR	NC				10.00		42	26	36	53	13	28	29.83	29.92																
19	CLR	NC				10.00		38	26	33	62	6	26	29.87	29.96																
22	CLR	NC				10.00		38	28	34	68	3	17	29.87	29.96																
SUNRISE: 0722 DEC 28								SUNSET: 1646																							
01	CLR	NC				10.00		36	27	33	70	3	17	29.85	29.94																
04	CLR	NC				10.00		33	28	31	82	5	07	29.83	29.92																
07	CLR	NC				10.00		33	29	32	85	5	11	29.83	29.92																
10	CLR	NC				10.00		39	34	37	82	7	14	29.80	29.89																
13	CLR	NC				10.00		46	37	42	71	9	14	29.71	29.80																
16	CLR	NC				10.00		48	37	43	66	5	13	29.63	29.72																
19	CLR	NC				10.00		44	37	41	76	5	12	29.60	29.69																
22	CLR	NC				10.00		44	38	41	79	3	10	29.54	29.62																
SUNRISE: 0723 DEC 29								SUNSET: 1647																							
01	CLR	NC				10.00		44	40	42	85	8	09	29.48	29.57																
04	OVC	110				10.00		44	42	43	93	6	11	29.42	29.51																
07	OVC	021				4.00	-RA BR	44	43	44	96	5	05	29.38	29.47																
10	OVC	038				1.50	BR	47	46	46	97	7	03	29.33	29.42																
13	OVC	002				2.00	-RA BR	48	47	47	96	6	31	29.25	29.34																
16	OVC	013				2.00	RA BR	46	44	45	93	9	30	29.27	29.36																
19	OVC	060				10.00	-RA	46	43	45	89	16	29	29.34	29.42																
22	OVC	024				10.00		46	40	43	79	15	28	29.39	29.48																
SUNRISE: 0723 DEC 30								SUNSET: 1647																							
01	OVC	022				10.00		46	38	42	73	20	29	29.46	29.54																
04	OVC	028				10.00		44	38	41	79	16	31	29.52	29.61																
07	OVC	028				10.00		43	34	39	71	21	30	29.64	29.73																
10	SCT	NC				10.00		44	33	39	65	15	30	29.74	29.83																
13	OVC	034				10.00		45	32	39	61	17	30	29.73	29.82																
16	OVC	032				10.00		43	31	38	63	17	32	29.77	29.85																
19	FEW	NC				10.00		38	28	34	68	8	30	29.81	29.90																
22	CLR	NC				10.00		35	28	32	76	3	26	29.83	29.92																

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			32	23	29	72	29.94	30.03	9.16	8	3	27
02			31	23	29	74	29.95	30.04	9.02	7	4	27
03			31	23	28	74	29.95	30.04	9.18	8	3	27
04			30	23	28	75	29.94	30.03	8.98	7	3	28
05			30	23	28	76	29.94	30.03	9.00	7	4	29
06			29	22	27	76	29.95	30.04	9.44	7	4	30
07			29	22	27	75	29.96	30.05	9.10	8	3	29
08			30	22	28	75	29.97	30.06	9.13	7	4	29
09			32	24	29	71	29.98	30.07	9.06	8	4	29
10			34	24	31	67	29.99	30.08	9.15	10	6	29
11			36	23	32	61	29.98	30.07	9.52	11	7	29
12			37	23	32	58	29.96	30.05	9.44	11	7	29
13			38	23	33	57	29.94	30.03	9.13	11	7	28
14			39	23	33	54	29.93	30.02	9.42	11	7	28
15			39	22	33	54	29.93	30.02	9.14	12	9	28
16			38	23	32	57	29.93	30.02	9.24	11	7	28
17			36	22	31	60	29.94	30.03	8.98	9	6	28
18			35	23	31	63	29.95	30.04	9.35	9	6	28
19			34	23	30	65	29.96	30.05	9.57	8	5	28
20			33	23	30	67	29.96	30.05	9.16	7	5	28
21			33	23	30	69	29.96	30.05	9.13	8	4	27
22			33	23	30	69	29.96	30.05	9.32	7	4	27
23			32	23	29	70	29.95	30.04	9.31	8	5	28
24			32	23	29	70	29.95	30.04	9.14	7	4	28





DECEMBER 2005

WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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