



# NOVEMBER 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

NOVEMBER 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			
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	68	38	53	3			12	0			0.0	0.00	29.93		5.1	21	6.5	23	31	17	30	01		
02	60	42	51	1	37	45	14	0			0.0	0.00	30.01	30.09	8.7	29	10.4	25	30	23	30	02		
03	66	37	52	2	39	46	13	0			0.0	0.00	30.08	30.17	8.2	21	8.7	25	21	21	21	03		
04	67	41	54	5	45	50	11	0			0.0	0.00	29.94	30.02	3.3	17	3.9	14	26	12	16	04		
05	69	45	57	8	50	52	8	0	FG+ BR		0.0	0.00	29.96	30.05	2.2	17	2.8	9	17	9	17	05		
06	76*	45	61	12	52	56	4	0	RA FG+ BR HZ		0.0	0.05	29.89	29.97	6.5	19	8.2	30	28	25	28	06		
07	62	45	54	5	39	47	11	0			0.0	0.00	30.08	30.17	7.4	27	8.5	22	25	18	26	07		
08	66	38	52	4	41	48	13	0			0.0	0.00	30.03	30.12	1.9	26	3.1	16	26	13	24	08		
09	70	53	62	14	51	55	3	0			0.0	0.00	29.85	29.94	6.4	13	10.1	22	21	17	20	09		
10	70	41	56	8	33	44	9	0	TSRA RA		0.0	0.01	29.75	29.83	16.6	30	17.2	43	32	35	31	10		
11	51	33	42	-5	28	37	23	0			0.0	0.00	30.04	30.12	6.4	28	7.5	23	32	20	32	11		
12	59	28	44	-3	34	40	21	0			0.0	0.00	30.21	30.29	2.1	20	4.4	16	16	14	16	12		
13	66	36	51	4	42	47	14	0			0.0	0.00	30.16	30.24	4.7	19	5.7	23	19	18	18	13		
14	67	51	59	13	41	50	6	0	RA		0.0	T	30.19	30.28	3.8	29	6.5	21	29	18	30	14		
15	69	55	62*	16	53	56	3	0	RA BR HZ		0.0	T	30.13	30.21	8.1	13	9.9	17	16	15	16	15		
16	75	45	60	14	55	57	5	0	RA BR		0.0	0.75	29.91	30.00	8.4	20	15.1	41	19	29	31	16		
17	46	31	39	-7	22	32	26	0			0.0	0.00	30.14	30.23	14.5	29	14.7	33	30	26	29	17		
18	40	26	33	-12	18	28	32	0			0.0	0.00	30.27	30.36	8.1	30	8.5	22	30	17	30	18		
19	49	24	37	-8	25	33	28	0			0.0	0.00	30.27	30.36	3.3	20	3.8	14	19	12	19	19		
20	58	31	45	0	30	38	20	0			0.0	0.00	30.16	30.25	2.6	20	3.1	14	19	12	19	20		
21	50	35	43	-1	42	43	22	0	RA BR		0.0	0.62	29.76	29.85	3.1	02	4.6	23	02	20	03	21		
22	48	35	42	-2	34	39	23	0	RA BR		0.0	0.28	29.19	29.27	16.7	31	18.1	38	30	31	30	22		
23	38	28	33	-11	16	28	32	0	SN BR		0.0	0.2	0.01	29.53	29.61	9.2	27	12.5	29	28	23	23		
24	51	22	37	-6	25	34	28	0	RA SN BR		T	T	29.39	29.48	11.6	24	15.9	61*	29	45*	29	24		
25	35	20	28*	-15	7	22	37	0			0.0	0.00	30.14	30.23	7.7	26	8.3	23	27	20	28	25		
26	42	20*	31	-12	21	29	34	0			0.0	0.00	30.26	30.35	3.5	14	4.1	22	19	14	15	26		
27	52	32	42	0	35	40	23	0	RA		0.0	T	30.24	30.32	3.6	07	5.0	14	06	12	06	27		
28	65	48	57	15	51	53	8	0			0.0	0.00	30.15	30.23	7.6	13	9.7	22	15	17	16	28		
29	66	53	60	19	55	57	5	0	RA BR		0.0	0.65	29.91	29.99	15.0	15	15.2	31	15	25	15	29		
30	59	33	46	5	39	44	19	0	RA		0.0	0.04	29.89	29.97	10.0	31	10.3	26	32	23	30	30		

58.7	37.0	47.9	■ ■		16.9	0.0	< MONTHLY AVERAGES TOTALS->		0.2	2.41	29.98	3.3	25	8.8	<- MONTHLY AVERAGES					
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3.7	0.1	2.0	■ ■	<-----DEPARTURE FROM NORMAL----->						- .78	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 0.90 DATE :21-22				SEA LEVEL PRESSURE DATE TIME							
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 0.2 DATE :23				MAXIMUM : 30.42 18 0951			
HEATING: 507 -57				765 -148				GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.13 22 0951			
COOLING: 0 -1				1306 181				NUMBER OF DAYS WITH →		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 10		PRECIPITATION ≥ 0.01 INCH : 8	
								MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 4			
								THUNDERSTORMS : 1		HEAVY FOG : 2		SNOWFALL ≥ 1.0 INCH : 0			

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## WILMINGTON, DE

NOVEMBER 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													04												04		0.00		
05													05												05		0.00		
06													06								0.04	0.01			06		0.05		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10	0.01	T		T									10												10		0.01		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14				T									14												14		T		
15		T			T	T							15		T										15		T		
16													16												16		0.75		
17													17			T	0.21	0.13	0.01	0.16	0.09	0.13	0.02	17		0.00			
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.62		
22	0.08	T	0.02					T	0.06	0.10	0.02	T	22	T	T	0.02	0.06	0.07	0.05	0.03	0.08	0.03	0.06	0.04	0.18	22		0.28	
23													23													23		0.01	
24	T	T	T	T									24				T									24		T	
25													25													25		0.00	
26													26												26		0.00		
27													27												27		T		
28													28												28		0.00		
29													29	T		0.05	0.02	0.01	0.01	T	0.01	0.14	0.20	0.21	29		0.65		
30	0.04	T											30												30		0.04		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.07	.11	.14	.16	.20	.21	.25	.33	.37	.41	.50	.55
Ending Date	16	16	16	16	16	16	29	29	29	30	29	30
Ending Time (Hour/Min)	1729	1730	1736	1741	1738	1741	2337	2337	2345	0005	2337	0011

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 NOVEMBER 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							9.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							1.75	10.00	
06							<.25	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							7.00	10.00	
10							9.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							8.00	10.00	
14							10.00	10.00	
15							5.00	10.00	
16							5.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							9.00	10.00	
20							10.00	10.00	
21							2.00	10.00	
22							3.00	10.00	
23							2.50	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							4.00	10.00	
30							10.00	10.00	
<b>MONTHLY AVGS</b>							7.85	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible:                      Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING									
30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25                      <=3.0                      >=7.0									
1                                      5                                      22									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

NOVEMBER 2005

ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)			
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)					SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL														
SUNRISE: 0631									NOV 01	SUNSET: 1701									SUNRISE: 0638									NOV 07	SUNSET: 1654								
01	CLR	NC						10.00						3	16	30.06		01	CLR	NC									59	44	51	58	12	26	29.94	30.03	
04	CLR	NC						10.00						0	00	30.02		04	CLR	NC								53	41	47	64	6	27	30.00	30.09		
07	CLR	NC						10.00						0	00	30.02		07	CLR	NC								50	41	46	71	6	27	30.08	30.17		
10	CLR	NC						10.00						9	17	30.00		10	CLR	NC								57	40	49	53	14	29	30.13	30.22		
13	CLR	NC						10.00						10	22	29.90		13	CLR	NC								60	36	49	41	16	30	30.10	30.19		
16	CLR	NC						10.00						12	21	29.83		16	CLR	NC								61	35	49	38	10	29	30.10	30.19		
19	CLR	NC						10.00						8	18	29.81		19	CLR	NC								52	38	45	59	7	21	30.10	30.19		
22	BKN	090						10.00						7	22	29.81	29.90	22	CLR	NC								50	38	44	63	6	22	30.10	30.19		
SUNRISE: 0632									NOV 02	SUNSET: 1659									SUNRISE: 0639									NOV 08	SUNSET: 1653								
01	BKN	090						10.00						53	44	49	72	13	30	29.86	29.95	01	CLR	NC					46	39	43	77	3	21	30.07	30.16	
04	CLR	NC						10.00						47	40	44	77	12	29	29.90	29.98	04	CLR	NC					42	38	40	85	0	00	30.06	30.15	
07	CLR	NC						10.00						45	39	42	80	9	29	29.94	30.03	07	CLR	NC					42	39	41	89	3	18	30.04	30.13	
10	CLR	NC						10.00						56	37	47	49	16	31	29.99	30.08	10	CLR	NC					56	45	50	67	3	19	30.04	30.13	
13	CLR	NC						10.00						59	35	48	41	14	30	29.98	30.07	13	OVC	065					66	39	52	37	9	29	29.99	30.08	
16	CLR	NC						10.00						58	34	47	41	12	30	30.01	30.10	16	CLR	NC					66	39	52	37	3	21	29.98	30.06	
19	CLR	NC						10.00						50	34	43	54	6	25	30.10	30.19	19	FEW	NC					58	40	49	51	0	00	30.02	30.11	
22	CLR	NC						10.00						45	35	41	68	5	26	30.15	30.24	22	OVC	055					56	46	51	70	0	00	30.04	30.13	
SUNRISE: 0633									NOV 03	SUNSET: 1658									SUNRISE: 0640									NOV 09	SUNSET: 1652								
01	CLR	NC						10.00						41	34	38	76	6	27	30.16	30.24	01	OVC	065					57	44	50	62	10	05	30.05	30.14	
04	CLR	NC						10.00						39	34	37	82	0	00	30.14	30.23	04	OVC	070					54	42	48	64	8	06	30.04	30.13	
07	CLR	NC						10.00						40	38	39	93	3	22	30.17	30.25	07	OVC	065					53	44	49	72	9	06	30.03	30.12	
10	CLR	NC						10.00										17	21	30.16		10	OVC	085					57	48	52	72	9	08	29.99	30.08	
13	CLR	NC						10.00						66	38	52	36	17	20	30.06	30.14	13	OVC	023					63	55	58	76	14	14	29.85	29.94	
16	CLR	NC						10.00						64	38	51	38	14	21	30.00	30.09	16	CLR	NC					61	57	59	87	12	16	29.73	29.82	
19	CLR	NC						10.00						59	40	50	49	8	21	30.01	30.09	19	OVC	100					58	57	57	97	7	15	29.67	29.76	
22	CLR	NC						10.00						56	41	49	57	9	21	30.00	30.09	22	SCT	NC					68	57	62	68	16	19	29.56	29.65	
SUNRISE: 0635									NOV 04	SUNSET: 1657									SUNRISE: 0641									NOV 10	SUNSET: 1651								
01	CLR	NC						10.00						52	41	47	66	5	17	29.98	30.07	01	OVC	055					66	58	61	75	15	28	29.54	29.63	
04	CLR	NC						10.00						44	40	42	85	0	00	29.98	30.06	04	OVC	065					61	40	51	46	20	28	29.56	29.65	
07	CLR	NC						10.00						42	41	42	96	0	00	29.97	30.06	07	CLR	NC					54	34	45	47	22	29	29.65	29.74	
10	CLR	NC						10.00						58	44	51	60	7	22	29.97	30.06	10	OVC	060					53	32	44	45	28	31	29.71	29.80	
13	CLR	NC						10.00						65	46	55	51	9	14	29.90	29.99	13	CLR	NC					54	29	43	38	28	31	29.73	29.82	
16	CLR	NC						10.00						63	49	55	60	6	17	29.87	29.96	16	BKN	085					51	26	41	38	24	30	29.80	29.89	
19	CLR	NC						10.00						59	46	52	62	5	19	29.91	29.99	19	BKN	075					46	29	39	51	14	29	29.88	29.97	
22	CLR	NC						10.00						54	47	50	77	0	00	29.92	30.01	22	CLR	NC					42	26	36	53	6	28	29.94	30.03	
SUNRISE: 0636									NOV 05	SUNSET: 1656									SUNRISE: 0643									NOV 11	SUNSET: 1650								
01	CLR	NC						10.00						51	47	49	86	0	00	29.92	30.01	01	OVC	070					42	27	36	55	8	24	29.94	30.03	
04	CLR	NC						9.00						48	46	47	93	0	00	29.93	30.02	04	CLR	NC					37	26	33	65	9	25	29.96	30.04	
07	CLR	NC						8.00						47	45	46	93	3	20	29.96	30.05	07	CLR	NC					37	26	33	65	7	27	30.02	30.11	
10	CLR	NC						9.00						58	51	54	78	3	VR	29.98	30.07	10	BKN	060					45	28	38	52	8	27	30.05	30.14	
13	CLR	NC						10.00						65	54	59	68	5	17	29.95	30.04	13	OVC	060					48	27	39	44	15	32	30.03	30.11	
16	CLR	NC						10.00						66	53	59	63	8	14	29.93	30.02	16	FEW	NC					50	28	41	43	7	VR	30.03	30.12	
19	CLR	NC						9.00						57	52	54	83	7	18	29.97	30.06	19	CLR	NC					42	28	36	58	6	30	30.07	30.16	
22	CLR	NC						1.75 BR						52	51	52	97	0	00	29.98	30.07	22	CLR	NC					38	33	36	83	5	31	30.12	30.20	
SUNRISE: 0637									NOV 06	SUNSET: 1655									SUNRISE: 0644									NOV 12	SUNSET: 1649								
01	VV	001						0.25 FG						48	47	47	96	6	16	29.96	30.05	01	CLR	NC					34	31	33	89	3	32	30.14	30.23	
04	VV	001						0.25 FG						47	46	47	97	0	00	29.95	30.03	04	CLR	NC					32	31	32	96	5	31	30.16	30.25	
07	VV	001						<.25 FG						47	47	47	100	0	00	29.95	30.04	07	CLR	NC					30	27	29	88	5	28	30.20	30.29	
10	CLR	NC						2.50 HZ						60	55	57	84	8	14	29.93	30.02	10	CLR	NC					48	33	42	56	0	00	30.25	30.33	
13	FEW	NC						10.00						74	56	63	54	14	13	29.83	29.91	13	CLR	NC					57	36	47	45	7	15	30.19	30.28	
16	CLR	NC						10.00						73	55	62	53	17	18	29.78	29.87	16	CLR	NC					57	31	45	37	9	20	30.19	30.27	
19	CLR	NC						10.00						65	55	59	70	8	18	29.80	29.88	19	CLR	NC					48	43	46	83	7	13	30.22	30.31	
22	OVC	075						10.00						62	57																						

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

NOVEMBER 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)																	
	DRY BULB	DEW POINT		WET BULB	OBSERVATION TIME (LST)			EFF CLD AMT Okta	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: 0645								NOV 13								SUNSET: 1649								SUNRISE: 0652								NOV 19								SUNSET: 1644							
01	CLR	NC				10.00		41	37	39	86	3	13	30.23	30.32	01	CLR	NC				10.00		28	21	26	75	0	00	30.26	30.35																
04	CLR	NC				9.00		38	36	37	93	0	00	30.20	30.29	04	CLR	NC				10.00		28	21	26	75	0	00	30.27	30.36																
07	CLR	NC				8.00		36	34	35	93	0	00	30.21	30.30	07	CLR	NC				9.00		26	23	25	88	0	00	30.30	30.39																
10	CLR	NC				10.00		57	41	49	55	13	20	30.20	30.29	10	CLR	NC				10.00		39	26	34	60	3	VR	30.32	30.41																
13	CLR	NC				10.00		64	40	52	41	17	20	30.13	30.22	13	CLR	NC				10.00		48	25	39	41	7	20	30.27	30.36																
16	CLR	NC				10.00		64	43	53	46	10	20	30.10	30.18	16	CLR	NC				10.00		49	24	39	38	12	19	30.24	30.33																
19	CLR	NC				10.00		56	48	52	75	9	15	30.09	30.18	19	CLR	NC				10.00		43	31	38	63	3	21	30.24	30.33																
22	CLR	NC				10.00		54	49	51	83	0	00	30.10	30.19	22	CLR	NC				10.00		39	27	34	62	7	21	30.26	30.35																
SUNRISE: 0646								NOV 14								SUNRISE: 0653								NOV 20								SUNSET: 1643															
01	OVC	100				10.00		58	50	54	75	5	21	30.07	30.16	01	CLR	NC				10.00		39	27	34	62	0	00	30.24	30.33																
04	SCT	NC				10.00		57	51	54	81	3	25	30.09	30.17	04	CLR	NC				10.00		37	30	34	76	0	00	30.21	30.30																
07	CLR	NC				10.00		53	50	51	89	3	24	30.14	30.23	07	CLR	NC				10.00		32	29	31	88	0	00	30.22	30.31																
10	CLR	NC				10.00		64	44	54	48	15	29	30.22	30.31	10	CLR	NC				10.00		45	33	40	63	5	22	30.22	30.31																
13	CLR	NC				10.00		64	25	47	23	13	30	30.21	30.29	13	CLR	NC				10.00		56	28	44	34	6	21	30.14	30.23																
16	SCT	NC				10.00		59	35	48	41	5	29	30.22	30.31	16	CLR	NC				10.00		56	27	44	33	8	18	30.10	30.19																
19	OVC	100				10.00		55	38	47	53	0	00	30.25	30.34	19	CLR	NC				10.00		48	32	41	54	0	00	30.10	30.19																
22	OVC	090				10.00		53	37	46	55	5	03	30.27	30.36	22	CLR	NC				10.00		41	31	37	67	0	00	30.08	30.16																
SUNRISE: 0647								NOV 15								SUNRISE: 0654								NOV 21								SUNSET: 1643															
01	OVC	090				10.00		56	35	46	46	9	08	30.23	30.32	01	OVC	110				10.00		35	31	33	85	5	32	30.03	30.12																
04	OVC	040				10.00		56	40	48	55	10	09	30.19	30.27	04	OVC	110				10.00		39	35	37	86	0	00	29.96	30.05																
07	OVC	014				10.00		56	47	51	72	8	07	30.20	30.29	07	FEW	NC				10.00		40	35	38	83	3	31	29.93	30.02																
10	OVC	006				9.00		59	56	57	90	10	15	30.18	30.26	10	BKN	080				10.00		47	41	44	80	0	00	29.90	29.99																
13	OVC	029				10.00		67	58	62	73	12	15	30.10	30.19	13	CLR	NC				10.00		49	43	46	80	3	16	29.79	29.88																
16	OVC	028				10.00		65	60	62	84	9	15	30.07	30.16	16	OVC	070				4.00	-RA	BR	48	47	47	96	0	00	29.72	29.80															
19	FEW	NC				10.00		61	59	60	93	12	15	30.05	30.14	19	OVC	055				4.00	-RA	BR	48	47	47	96	8	03	29.60	29.69															
22	CLR	NC				10.00		60	58	59	93	10	16	30.05	30.14	22	OVC	010				6.00	RA	BR	48	46	47	93	14	02	29.41	29.49															
SUNRISE: 0648								NOV 16								SUNRISE: 0655								NOV 22								SUNSET: 1642															
01	CLR	NC				10.00		59	58	58	96	10	16	30.02	30.11	01	OVC	065				10.00	-RA	47	45	46	93	21	36	29.23	29.32																
04	CLR	NC				10.00		59	58	58	96	10	16	29.98	30.07	04	OVC	013				10.00		46	43	45	89	15	33	29.18	29.25																
07	BKN	021				10.00		66	61	63	84	15	17	29.94	30.03	07	OVC	016				10.00		44	40	42	85	16	33	29.06	29.14																
10	OVC	027				10.00		71	62	66	73	25	19	29.90	29.99	10	OVC	041				10.00	-RA	42	39	41	89	20	30	29.05	29.13																
13	BKN	037				10.00		74	60	65	62	22	19	29.81	29.90	13	BKN	026				10.00	-RA	45	38	42	77	23	30	29.07	29.15																
16	OVC	070				10.00		73	61	66	66	23	18	29.74	29.83	16	SCT	NC				10.00		46	32	40	58	21	30	29.17	29.25																
19	OVC	034				5.00	RA BR	49	45	47	86	15	31	29.89	29.98	19	CLR	NC				10.00		41	24	35	51	21	29	29.29	29.38																
22	OVC	055				7.00	RA	46	43	45	89	7	30	29.97	30.06	22	CLR	NC				10.00		38	19	31	47	18	29	29.38	29.47																
SUNRISE: 0649								NOV 17								SUNRISE: 0656								NOV 23								SUNSET: 1642															
01	OVC	042				10.00		45	37	41	74	8	32	30.00	30.09	01	FEW	NC				10.00		33	16	27	49	18	28	29.43	29.52																
04	CLR	NC				10.00		39	28	35	65	12	29	30.04	30.13	04	CLR	NC				10.00		31	12	25	45	16	29	29.49	29.58																
07	CLR	NC				10.00		35	23	31	61	13	30	30.11	30.19	07	CLR	NC				10.00		29	12	24	49	17	29	29.57	29.66																
10	CLR	NC				10.00		41	21	34	45	20	30	30.15	30.24	10	BKN	048				10.00		35	16	29	46	21	27	29.60	29.69																
13	CLR	NC				10.00		42	19	34	40	21	28	30.13	30.22	13	OVC	050				10.00		35	16	29	46	9	28	29.56	29.65																
16	CLR	NC				10.00		39	17	31	41	24	29	30.14	30.24	16	CLR	NC				10.00		36	14	29	40	9	27	29.54	29.63																
19	CLR	NC				10.00		35	17	29	48	16	29	30.21	30.30	19	OVC	085				10.00		34	18	29	52	7	16	29.52	29.61																
22	CLR	NC				10.00		31	17	26	56	12	30	30.24	30.33	22	OVC	070				10.00		36	20	30	52	12	18	29.46	29.55																
SUNRISE: 0650								NOV 18								SUNRISE: 0657								NOV 24								SUNSET: 1641															
01	CLR	NC				10.00		31	17	26	56	14	30	30.25	30.34	01	OVC	022				10.00		34	31	33	89	18	16	29.34	29.43																
04	CLR	NC				10.00		29	17	25	61	14	30	30.26	30.35	04	OVC	050				10.00		36	33	35	89	9	20	29.23	29.32																
07	CLR	NC				10.00		28	17	25	63	13	31	30.30	30.39	07	OVC	070				10.00		40	33	37	77	12	21	29.25	29.34																
10	CLR	NC				10.00		34	18	29	52	9	32	30.33	30.42	10	BKN	100				10.00		48	34	42	58	17	21	29.26	29.34																
13	CLR	NC				10.00		38	18	31	44	10	27	30.26	30.35	13	SCT	NC				10.00		50	31	42	48	17	22	29.21	29.29																
16	CLR	NC				10.00		38	18	31	44	8	28	30.23	30.32	16	OVC	060				10.00		41	36	39	82	16	29	29.34	29.43																
19	CLR	NC				10.00		34	18	29	52	3	27	30.23	30.32	19	CLR	NC				10.00		32	16	27	52	24	28	29.56	29.65																
22	CLR	NC				10.00		31	21	28	67	0	00	30.26	30.35	22	CLR	NC				10.00		24	3	19	40	15	30	29.76	29.85																

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

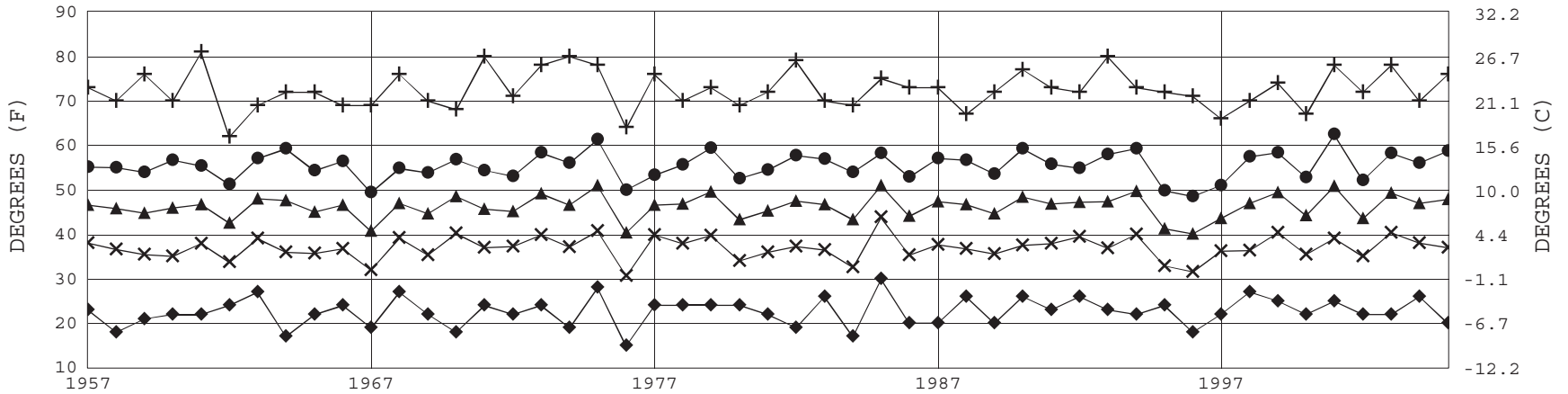
NOVEMBER 2005

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	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	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	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																																																																																																																																																																																																																																																																																																																																													
SUNRISE: 0658				NOV 25				SUNSET: 1641				SUNRISE: NOV 31				SUNSET:																																																																																																																																																																																																																																																																																																																																																										
01	CLR	NC		10.00	22	-1	17	36	10	27	29.87	29.96																																																																																																																																																																																																																																																																																																																																																														
04	CLR	NC		10.00	22	-1	17	36	13	26	29.95	30.04																																																																																																																																																																																																																																																																																																																																																														
07	CLR	NC		10.00	21	1	16	41	10	22	30.06	30.15																																																																																																																																																																																																																																																																																																																																																														
10	CLR	NC		10.00	26	4	20	38	16	26	30.17	30.26																																																																																																																																																																																																																																																																																																																																																														
13	CLR	NC		10.00	33	10	26	38	12	28	30.17	30.26																																																																																																																																																																																																																																																																																																																																																														
16	CLR	NC		10.00	33	11	26	40	8	26	30.19	30.28																																																																																																																																																																																																																																																																																																																																																														
19	CLR	NC		10.00	30	13	25	49	3	21	30.25	30.34																																																																																																																																																																																																																																																																																																																																																														
22	CLR	NC		10.00	28	14	24	56	0	00	30.28	30.37																																																																																																																																																																																																																																																																																																																																																														
SUNRISE: 0659				NOV 26				SUNSET: 1640				<b>3-HOURLY OBSERVATION NOTES</b> 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. 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.																																																																																																																																																																																																																																																																																																																																																														
01	CLR	NC		10.00	24	14	21	65	0	00	30.28													30.37																																																																																																																																																																																																																																																																																																																																																		
04	CLR	NC		10.00	24	17	22	75	0	00	30.28													30.37																																																																																																																																																																																																																																																																																																																																																		
07	OVC	085		10.00	26	21	24	81	0	00	30.30													30.39																																																																																																																																																																																																																																																																																																																																																		
10	CLR	NC		10.00	34	21	29	59	7	13	30.30													30.40																																																																																																																																																																																																																																																																																																																																																		
13	CLR	NC		10.00	40	15	32	36	10	16	30.23													30.32																																																																																																																																																																																																																																																																																																																																																		
16	CLR	NC		10.00	41	20	33	43	8	16	30.20													30.29																																																																																																																																																																																																																																																																																																																																																		
19	OVC	110		10.00	38	22	32	53	7	14	30.22													30.31																																																																																																																																																																																																																																																																																																																																																		
22	OVC	100		10.00	37	27	33	67	0	00	30.23	30.32																																																																																																																																																																																																																																																																																																																																																														
SUNRISE: 0700				NOV 27				SUNSET: 1640				<b>SUMMARY BY HOUR</b> <table border="1"> <thead> <tr> <th rowspan="3">HOUR (LST)</th> <th colspan="10">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th rowspan="2">CEILOMETER</th> <th rowspan="2">EFF CLD AMT</th> <th rowspan="2">DRY BULB</th> <th rowspan="2">DEW POINT</th> <th rowspan="2">WET BULB</th> <th rowspan="2">RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th rowspan="2">VISIBILITY (MILES)</th> <th rowspan="2">WIND SPEED (MPH)</th> <th rowspan="2">SPEED</th> <th rowspan="2">DIRECTION</th> </tr> <tr> <th>STATION</th> <th>SEA LEVEL</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>45</td><td>36</td><td>41</td><td>73</td><td>29.98</td><td>30.07</td><td>9.68</td><td>8</td><td>2</td><td>28</td></tr> <tr><td>02</td><td></td><td></td><td>44</td><td>36</td><td>41</td><td>76</td><td>29.98</td><td>30.07</td><td>9.61</td><td>6</td><td>2</td><td>27</td></tr> <tr><td>03</td><td></td><td></td><td>43</td><td>36</td><td>40</td><td>77</td><td>29.98</td><td>30.07</td><td>9.54</td><td>7</td><td>2</td><td>28</td></tr> <tr><td>04</td><td></td><td></td><td>43</td><td>35</td><td>40</td><td>77</td><td>29.98</td><td>30.06</td><td>9.61</td><td>6</td><td>3</td><td>28</td></tr> <tr><td>05</td><td></td><td></td><td>42</td><td>35</td><td>39</td><td>79</td><td>29.98</td><td>30.07</td><td>9.64</td><td>6</td><td>3</td><td>29</td></tr> <tr><td>06</td><td></td><td></td><td>41</td><td>35</td><td>39</td><td>80</td><td>29.99</td><td>30.07</td><td>9.61</td><td>6</td><td>3</td><td>29</td></tr> <tr><td>07</td><td></td><td></td><td>42</td><td>35</td><td>39</td><td>79</td><td>30.00</td><td>30.08</td><td>9.50</td><td>7</td><td>3</td><td>28</td></tr> <tr><td>08</td><td></td><td></td><td>43</td><td>37</td><td>41</td><td>78</td><td>30.01</td><td>30.10</td><td>9.54</td><td>7</td><td>3</td><td>27</td></tr> <tr><td>09</td><td></td><td></td><td>47</td><td>38</td><td>43</td><td>71</td><td>30.01</td><td>30.10</td><td>9.34</td><td>8</td><td>3</td><td>28</td></tr> <tr><td>10</td><td></td><td></td><td>50</td><td>38</td><td>45</td><td>64</td><td>30.01</td><td>30.10</td><td>9.68</td><td>11</td><td>5</td><td>25</td></tr> <tr><td>11</td><td></td><td></td><td>53</td><td>37</td><td>46</td><td>57</td><td>30.00</td><td>30.09</td><td>9.63</td><td>12</td><td>6</td><td>25</td></tr> <tr><td>12</td><td></td><td></td><td>55</td><td>37</td><td>47</td><td>54</td><td>29.98</td><td>30.07</td><td>10.00</td><td>12</td><td>5</td><td>25</td></tr> <tr><td>13</td><td></td><td></td><td>56</td><td>37</td><td>47</td><td>51</td><td>29.96</td><td>30.05</td><td>10.00</td><td>13</td><td>6</td><td>24</td></tr> <tr><td>14</td><td></td><td></td><td>56</td><td>37</td><td>47</td><td>51</td><td>29.94</td><td>30.03</td><td>9.97</td><td>13</td><td>6</td><td>23</td></tr> 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LEVEL	01			45	36	41	73	29.98	30.07	9.68	8	2	28	02			44	36	41	76	29.98	30.07	9.61	6	2	27	03			43	36	40	77	29.98	30.07	9.54	7	2	28	04			43	35	40	77	29.98	30.06	9.61	6	3	28	05			42	35	39	79	29.98	30.07	9.64	6	3	29	06			41	35	39	80	29.99	30.07	9.61	6	3	29	07			42	35	39	79	30.00	30.08	9.50	7	3	28	08			43	37	41	78	30.01	30.10	9.54	7	3	27	09			47	38	43	71	30.01	30.10	9.34	8	3	28	10			50	38	45	64	30.01	30.10	9.68	11	5	25	11			53	37	46	57	30.00	30.09	9.63	12	6	25	12			55	37	47	54	29.98	30.07	10.00	12	5	25	13			56	37	47	51	29.96	30.05	10.00	13	6	24	14			56	37	47	51	29.94	30.03	9.97	13	6	23	15			56	37	47	50	29.94	30.03	9.90	13	6	23	16			55	37	47	54	29.94	30.03	9.67	11	5	23	17			51	37	45	60	29.95	30.04	9.73	9	3	23	18			50	37	44	62	29.96	30.06	9.67	8	2	23	19			49	37	43	65	29.97	30.06	9.50	9	3	22	20			47	36	43	66	29.97	30.06	9.63	8	3	22	21			47	36	42	69	29.98	30.07	9.30	8	3	25	22			46	37	42	71	29.98	30.07	9.39	7	2	23	23			46	36	42	71	29.98	30.07	9.48	8	3	24	24			45	36	41	73	29.98	30.07	9.11	7	2	24
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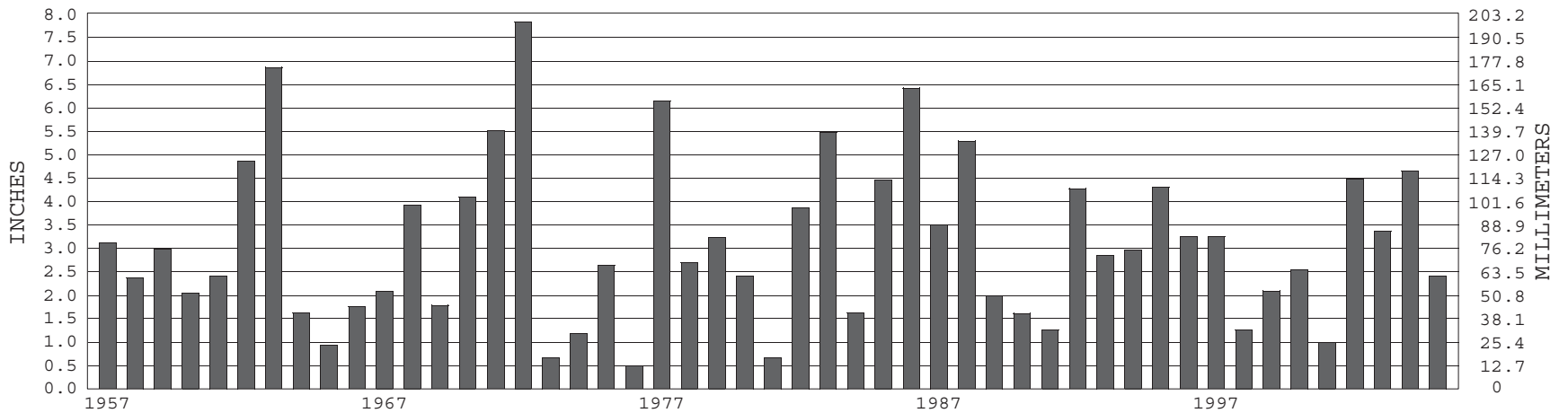
### WILMINGTON, DE NOVEMBER TEMPERATURES



+ Extreme Max.      ● Mean Max.      ▲ Mean      × Mean Min.      ◆ Extreme Min.

Long-Term (1957-2005) Mean: 46.2      1971-2000 Normal: 45.9

### WILMINGTON, DE NOVEMBER PRECIPITATION



Long-Term (1957-2005) Mean Monthly Total: 3.11

1971-2000 Normal: 3.19



NOVEMBER 2005

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.*

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