



# JANUARY 2004

## 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

JANUARY 2004  
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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																	
01	49	27	38	5	23	33	27	0		0		0.0	0.00	30.23	30.32	5.4	29	5.9	22	29	18	32	01																	
02	47	35	41	8	37	40	24	0	RA	0		0.0	0.06	30.08	30.17	2.5	17	4.4	13	22	13	31	02																	
03	53	42	48	16	44	45	17	0	BR	0		0.0	0.00	29.89	29.98	2.2	19	4.3	14	33	12	33	03																	
04	56*	41	49*	17	45	46	16	0	RA BR	0		0.0	0.02	29.83	29.91	5.8	03	7.1	22	03	20	03	04																	
05	44	39	42	10	40	40	23	0	RA BR	0		0.0	0.35	29.77	29.86	5.3	01	8.5	26	30	22	30	05																	
06	40	21	31	-1	16	27	34	0	SN	0		T	T	30.05	30.14	14.7	28	15.1	33	29	30	29	06																	
07	27	18	23	-9	3	18	42	0		0		0.0	0.00	30.21	30.30	13.3	26	13.8	30	26	24	26	07																	
08	31	20	26	-6	10	22	39	0		0		0.0	0.00	30.21	30.30	7.6	24	8.2	23	27	20	28	08																	
09	30	9	20	-12	5	19	45	0		0		0.0	0.00	30.19	30.28	8.5	35	9.9	21	36	17	01	09																	
10	18	4	11	-21	-7	7	54	0		0		0.0	0.00	30.33	30.42	8.6	34	8.9	21	36	16	36	10																	
11	29	7	18	-13	3	15	47	0		0		0.0	0.00	30.25	30.34	6.3	21	7.2	18	24	16	23	11																	
12	41	28	35	4	24	31	30	0	RA	0		0.0	T	29.91	30.00	6.0	24	7.4	17	22	14	29	12																	
13	46	25	36	5	23	32	29	0	RA SN	0		T	T	29.90	29.98	10.3	27	12.9	37	28	29	31	13																	
14	25	15	20	-11	5	17	45	0	SN	0		0.1	0.01	29.99	30.08	3.1	04	7.9	25	32	20	31	14																	
15	22	9	16	-15	7	15	49	0	SN BR	1		1.4	0.08	29.78	29.86	12.6	33	14.6	36	30	31	30	15																	
16	26	8	17	-14	-2	13	48	0		1		0.0	0.00	29.93	30.02	18.6	29	18.8	35	28	29	29	16																	
17	33	17	25	-6	13	22	40	0	SN BR	1		0.6	0.07	29.99	30.08	7.4	29	8.9	26	29	22	30	17																	
18	35	26	31	0	28	31	34	0	RA FZRA SN FG BR UP	1		0.2	0.41	29.51	29.60	4.8	27	8.6	33	30	29	30	18																	
19	28	22	25	-6	11	21	40	0	SN	1		T	T	29.71	29.79	16.4	28	16.6	35	28	29	28	19																	
20	28	20	24	-7	10	20	41	0		1		0.0	0.00	29.95	30.04	16.8	29	17.0	36	30	30	30	20																	
21	28	16	22	-9	10	19	43	0		1		0.0	0.00	30.05	30.14	7.2	29	8.1	20	30	17	31	21																	
22	41	18	30	-1	15	25	35	0		T		0.0	0.00	29.74	29.82	8.3	27	10.9	31	30	26	31	22																	
23	19	11	15	-16	-1	12	50	0	SN BR	T		T	T			12.0	29	12.7	30	28	24	27	23																	
24	21	13	17	-14	8	15	48	0	SN BR	1		1.0	0.04	29.89	29.97	6.3	30	6.4	26	31	22	31	24																	
25	18	4*	11*	-20	-1	11	54	0	SN BR	1		0.4	0.02	30.25	30.34	3.9	31	5.3	17	32	15	32	25																	
26	21	15	18	-13	14	17	47	0	RA FZRA SN BR UP	5		3.6	0.28	30.18	30.27	12.0	04	12.2	25	05	20	05	26																	
27	28	20	24	-7	22	23	41	0	RA FZRA SN FG+ FZFG BR	5		2.4	0.31	29.80	29.89	11.2	04	11.5	23	04	20	05	27																	
28	27	18	23	-9	15	21	42	0	SN UP HZ SQ	7		0.1	0.01	29.70	29.79	7.8	27	8.2	37*	28	31*	28	28																	
29	29	13	21	-11	9	19	44	0		7		0.0	0.00	29.80	29.89	7.6	28	9.2	23	29	20	29	29																	
30	23	14	19	-13	5	16	46	0	SN	7		T	T	29.69	29.78	12.3	29	12.6	28	28	23	29	30																	
31	24	12	18	-14	3	14	47	0	SN	6		T	T	29.94	30.02	14.3	28	14.6	32	28	28	29	31																	
< MONTHLY AVERAGES											TOTALS->					<- MONTHLY AVERAGES																								
-7.5											-4.8					-6.1					<-----DEPARTURE FROM NORMAL----->																			
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 0.48					DATE :17-18					SEA LEVEL PRESSURE					DATE TIME														
MONTHLY											GREATEST 24-HR SNOWFALL: 3.6					DATE :26					MAXIMUM					: 30.47					11 0951									
TOTAL DEPARTURE											GREATEST SNOW DEPTH: 7					DATE :30+					MINIMUM					: 29.40					18 1451									
HEATING: 1221											NUMBER OF					MAXIMUM TEMP ≥ 90: 0					MINIMUM TEMP ≤ 32: 27					PRECIPITATION ≥ 0.01 INCH : 12														
COOLING: 0											DAYS WITH →					MAXIMUM TEMP ≤ 32 :20					MINIMUM TEMP ≤ 0 : 0					PRECIPITATION ≥ 0.10 INCH : 4														
0											0					0					0					0					0					0				

SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# WILMINGTON, DE

JANUARY 2004 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		0.06		
03													03												03		0.00		
04													04	T							T	T			04		0.00		
05													05	0.02	0.01	0.01	0.01	0.01		T	0.01	T	T		05		0.02		
06													06				T								06		T		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		T		
13													13		T	T									13		T		
14													14									T	T	T	14	T	0.01		
15	0.01	0.02	T	T	T	T		T	T	T		15									T	T	T	15	0.03	0.08			
16													16												16		0.00		
17													17								T	0.02	0.02	0.03	17		0.07		
18	T	0.01	0.01	0.02	0.01	T	0.01	0.03	0.05	0.05	0.08	0.05	18	0.04	0.04	0.01	T	T	T		T	T		18		0.41			
19													19	T	T										19		T		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23													23										T	T	23		T		
24	0.01	0.01	0.01	T	0.01	T	T	T	T	T	T	T	24	T										24		0.04			
25													25									T	0.01	0.01	25		0.02		
26	0.01	0.04	0.01	0.02	0.01	T	T	T	T	T	T	T	26	T									T	0.01	26	0.10	0.28		
27	0.02	0.01	T	T	T	T							27	T									T	0.01	27	0.21	0.31		
28	T		T	T	T								28	T	T	T	T			0.09	0.03	0.02	0.01	0.02	28	T	0.01		
29													29												29		0.00		
30					T	T	T	T					30												30		T		
31													31												31		T		

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.03	.05	.07	.08	.09	.10	.11	.13	.15	.18	.22	.24
Ending Date	27	27	27	27	27	27	27	05	05	05	05	05
Ending Time (Hour/Min)	1834	1839	1839	1839	1839	1853	1917	1143	1159	1056	1123	1159

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 JANUARY 2004

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							7.00	10.00	
03							2.50	10.00	
04							3.00	10.00	
05							3.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							9.00	10.00	
14							5.00	10.00	
15							4.00	10.00	
16							9.00	10.00	
17							1.75	10.00	
18							.50	10.00	
19							9.00	10.00	
20							9.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							2.50	10.00	
24							1.75	10.00	
25							1.50	10.00	
26							.75	10.00	
27							.25	9.00	
28							1.00	10.00	
29							10.00	10.00	
30							9.00	10.00	
31							10.00	10.00	
<b>MONTHLY AVGS</b>							6.51	9.97	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 0            10           18									

# OBSERVATIONS AT 3-HOURLY INTERVALS

## WILMINGTON, DE JANUARY 2004

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					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0723										JAN 01				SUNSET: 1649				SUNRISE: 0723										JAN 07				SUNSET: 1654				
01	CLR	NC						10.00		35	30	33	82	6	28	30.08	30.17	01	CLR	NC							10.00		21	2	17	43	15	27	30.17	30.27
04	CLR	NC						10.00		36	25	32	64	7	25	30.15	30.24	04	CLR	NC							10.00		19	1	15	45	12	29	30.19	30.28
07	CLR	NC						10.00		29	26	28	89	5	30	30.23	30.32	07	CLR	NC							10.00		18	1	14	47	12	27	30.20	30.29
10	CLR	NC						10.00		44	25	37	47	12	31	30.31	30.40	10	CLR	NC							10.00		22	1	17	40	20	25	30.24	30.34
13	CLR	NC						10.00		48	18	37	30	13	30	30.24	30.32	13	BKN	055							10.00		26	3	20	37	23	26	30.18	30.27
16	CLR	NC						10.00		46	20	36	35	7	28	30.26	30.35	16	SCT	NC							10.00		27	2	21	34	22	28	30.19	30.28
19	CLR	NC						10.00		40	18	32	41	5	24	30.27	30.36	19	CLR	NC							10.00		24	4	19	42	13	26	30.23	30.32
22	CLR	NC						10.00		36	20	30	52	0	00	30.25	30.34	22	CLR	NC							10.00		22	6	18	50	7	24	30.25	30.34
SUNRISE: 0723										JAN 02				SUNSET: 1649				SUNRISE: 0723										JAN 08				SUNSET: 1655				
01	OVC	070						10.00		35	30	33	82	0	00	30.20	30.28	01	CLR	NC							10.00		21	8	18	57	5	22	30.22	30.31
04	OVC	090						10.00		39	25	34	57	8	10	30.12	30.21	04	CLR	NC							10.00		23	9	19	55	12	24	30.23	30.32
07	OVC	070						9.00	RA	40	32	37	73	9	11	30.07	30.16	07	CLR	NC							10.00		23	8	19	53	10	24	30.25	30.34
10	OVC	040						10.00		41	38	40	89	5	18	30.11	30.20	10	CLR	NC							10.00		28	9	23	45	14	23	30.28	30.37
13	OVC	065						10.00		46	40	43	79	6	23	30.02	30.11	13	CLR	NC							10.00		31	9	25	40	14	26	30.20	30.29
16	FEW	NC						10.00		46	40	43	79	0	00	30.02	30.11	16	CLR	NC							10.00		31	8	24	38	9	23	30.18	30.27
19	OVC	049						10.00		44	41	43	89	5	12	30.05	30.14	19	OVC	085							10.00		31	11	25	43	5	26	30.17	30.27
22	OVC	048						10.00		44	41	43	89	3	08	30.05	30.14	22	OVC	120							10.00		30	13	25	49	3	16	30.15	30.24
SUNRISE: 0723										JAN 03				SUNSET: 1650				SUNRISE: 0723										JAN 09				SUNSET: 1656				
01	OVC	050						7.00		43	42	43	97	6	04	29.99	30.07	01	OVC	100							10.00		30	11	24	45	7	27	30.13	30.22
04	BKN	070						6.00	BR	42	42	42	100	0	00	29.95	30.04	04	OVC	055							10.00		30	14	25	51	5	26	30.13	30.22
07	BKN	085						4.00	BR	43	43	43	100	7	14	29.91	30.00	07	OVC	065							10.00		27	15	23	61	3	30	30.13	30.22
10	CLR	NC						3.00	BR	45	43	44	93	0	00	29.93	30.02	10	CLR	NC							10.00		30	17	26	59	14	36	30.17	30.27
13	CLR	NC						10.00		51	45	48	80	9	23	29.86	29.95	13	BKN	038							10.00		26	9	21	48	15	35	30.17	30.26
16	CLR	NC						10.00		53	46	50	77	3	21	29.84	29.93	16	CLR	NC							10.00		23	-5	17	29	12	36	30.19	30.28
19	FEW	NC						10.00		49	45	47	86	3	20	29.84	29.92	19	CLR	NC							10.00		17	-8	12	32	12	35	30.24	30.33
22	CLR	NC						8.00		47	45	46	93	3	16	29.84	29.93	22	CLR	NC							10.00		12	-11	8	34	12	34	30.28	30.37
SUNRISE: 0723										JAN 04				SUNSET: 1651				SUNRISE: 0723										JAN 10				SUNSET: 1657				
01	BKN	120						7.00		44	44	44	100	5	32	29.80	29.89	01	CLR	NC							10.00		9	-10	6	41	12	35	30.28	30.37
04	BKN	100						4.00	BR	42	42	42	100	5	29	29.80	29.89	04	CLR	NC							10.00		5	-10	3	49	13	34	30.31	30.40
07	BKN	100						7.00		47	46	46	97	3	36	29.81	29.90	07	CLR	NC							10.00		4	-10	2	52	10	34	30.33	30.43
10	BKN	110						8.00		53	50	51	89	0	00	29.84	29.93	10	CLR	NC							10.00		8	-10	5	43	9	34	30.35	30.44
13	OVC	008						5.00	BR	53	51	52	93	13	03	29.82	29.91	13	CLR	NC							10.00		14	-8	10	37	10	33	30.31	30.40
16	OVC	023						10.00		48	40	44	74	14	02	29.85	29.93	16	CLR	NC							10.00		17	-8	12	32	9	33	30.30	30.39
19	OVC	015						8.00	-RA	46	42	44	86	12	02	29.88	29.97	19	CLR	NC							10.00		12	-3	9	51	6	30	30.33	30.42
22	OVC	002						3.00	BR	44	44	44	100	6	07	29.83	29.92	22	CLR	NC							10.00		11	-2	8	56	6	35	30.35	30.44
SUNRISE: 0723										JAN 05				SUNSET: 1652				SUNRISE: 0723										JAN 11				SUNSET: 1658				
01	OVC	004						5.00	BR	39	39	39	100	14	07	29.78	29.86	01	CLR	NC							10.00		10	-4	8	53	0	00	30.35	30.44
04	OVC	004						4.00	BR	39	39	39	100	10	04	29.77	29.85	04	CLR	NC							10.00		9	-1	7	64	3	25	30.35	30.45
07	OVC	004						10.00	-RA	40	39	40	97	14	05	29.74	29.83	07	CLR	NC							10.00		8	-1	6	66	3	23	30.36	30.45
10	OVC	010						4.00	RA BR	41	41	41	100	5	08	29.77	29.85	10	CLR	NC							10.00		17	0	13	47	8	23	30.37	30.47
13	OVC	003						8.00		43	42	43	97	0	00	29.70	29.79	13	CLR	NC							10.00		24	1	19	37	9	21	30.26	30.35
16	OVC	007						9.00	-RA	43	43	43	100	6	31	29.73	29.81	16	CLR	NC							10.00		27	4	21	37	12	22	30.19	30.28
19	OVC	050						10.00		42	42	42	100	5	31	29.79	29.87	19	CLR	NC							10.00		26	8	21	46	10	19	30.15	30.24
22	FEW	NC						10.00		39	36	38	89	9	30	29.84	29.93	22	OVC	050							10.00		27	12	23	53	9	20	30.08	30.17
SUNRISE: 0723										JAN 06				SUNSET: 1653				SUNRISE: 0722										JAN 12				SUNSET: 1659				
01	CLR	NC						10.00		38	25	33	60	21	30	29.90	29.99	01	BKN	110							10.00		29	14	24	54	8	19	29.98	30.07
04	CLR	NC						10.00		34	23	30	64	7	26	29.97	30.06	04	OVC	055							10.00		30	18	26	61	6	21	29.92	30.01
07	CLR	NC						10.00		33	24	30	70	8	27	30.00	30.09	07	OVC	050							10.00		32	20	28	61	7	22	29.88	29.97
10	FEW	NC						10.00		37	21	31	52	16	29	30.06	30.15	10	OVC	050							10.00		35	23	31	61	9	22	29.90	29.99
13	CLR	NC						10.00		37	17	30	44	15	26	30.01	30.10	13	OVC	050							10.00		37	25	33	62	12	23	29	

# OBSERVATIONS AT 3-HOURLY INTERVALS

**WILMINGTON, DE**  
**JANUARY 2004** ILG

WBAN # 13781

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0722					JAN 13					SUNSET: 1660					SUNRISE: 0720					JAN 19					SUNSET: 1706				
01	OVC	043	10.00		38	27	34	65	6	25	29.96	30.05	01	CLR	NC	10.00		25	11	21	55	16	28	29.61	29.70				
04	BKN	041	10.00		35	29	33	78	5	21	29.92	30.01	04	CLR	NC	10.00		24	11	20	57	15	27	29.63	29.72				
07	CLR	NC	10.00		36	29	33	76	8	23	29.89	29.98	07	CLR	NC	10.00		24	12	21	60	14	28	29.65	29.74				
10	CLR	NC	10.00		41	28	36	60	10	25	29.85	29.94	10	CLR	NC	10.00		26	11	22	53	23	29	29.68	29.77				
13	OVC	046	10.00		44	27	37	51	16	25	29.78	29.87	13	CLR	NC	9.00	-SN	27	11	22	51	22	30	29.67	29.76				
16	OVC	055	10.00		43	24	36	47	20	29	29.80	29.88	16	BKN	045	10.00		27	11	22	51	15	29	29.71	29.80				
19	CLR	NC	10.00		34	15	28	46	16	29	29.92	30.01	19	CLR	NC	10.00		24	8	20	50	16	29	29.77	29.86				
22	CLR	NC	9.00		30	10	24	43	22	30	30.00	30.09	22	FEW	NC	10.00		23	9	19	55	16	27	29.82	29.91				
SUNRISE: 0722					JAN 14					SUNSET: 1701					SUNRISE: 0719					JAN 20					SUNSET: 1708				
01	CLR	NC	10.00		24	5	19	44	17	31	30.05	30.14	01	CLR	NC	10.00		22	9	18	57	16	28	29.83	29.92				
04	CLR	NC	10.00		20	5	16	52	5	33	30.10	30.19	04	CLR	NC	10.00		22	9	18	57	12	27	29.86	29.95				
07	CLR	NC	10.00		16	4	13	59	5	36	30.16	30.25	07	SCT	NC	10.00		22	10	19	60	16	28	29.89	29.98				
10	CLR	NC	10.00		20	0	15	41	3	VR	30.17	30.26	10	CLR	NC	10.00		26	11	22	53	25	28	29.94	30.03				
13	BKN	049	10.00		22	0	17	38	3	02	30.04	30.13	13	CLR	NC	9.00		28	10	23	47	25	30	29.94	30.03				
16	OVC	047	10.00		23	3	18	42	6	VR	29.93	30.02	16	CLR	NC	10.00		27	9	22	47	21	29	29.97	30.06				
19	OVC	045	10.00		23	5	18	46	13	12	29.87	29.96	19	CLR	NC	10.00		24	9	20	52	17	28	30.01	30.10				
22	OVC	023	10.00		23	11	20	60	9	09	29.74	29.83	22	CLR	NC	10.00		22	8	18	55	10	28	30.05	30.14				
SUNRISE: 0722					JAN 15					SUNSET: 1702					SUNRISE: 0719					JAN 21					SUNSET: 1709				
01	OVC	015	6.00	-SN BR	21	17	20	85	13	04	29.60	29.69	01	CLR	NC	10.00		19	9	16	65	8	29	30.08	30.17				
04	OVC	015	6.00	-SN BR	20	18	19	92	14	01	29.56	29.65	04	CLR	NC	10.00		18	8	15	65	9	28	30.10	30.19				
07	OVC	023	10.00		16	9	14	74	13	34	29.69	29.78	07	CLR	NC	10.00		17	8	15	68	8	29	30.11	30.20				
10	CLR	NC	10.00		17	7	15	64	14	32	29.84	29.93	10	CLR	NC	10.00		23	9	19	55	14	32	30.11	30.20				
13	CLR	NC	10.00		21	8	18	57	16	31	29.82	29.91	13	CLR	NC	10.00		26	10	22	51	10	31	30.05	30.14				
16	CLR	NC	10.00		22	4	17	46	20	30	29.81	29.90	16	FEW	NC	10.00		26	11	22	53	12	29	30.02	30.11				
19	CLR	NC	10.00		18	9	16	68	15	32	29.86	29.95	19	CLR	NC	10.00		23	10	19	57	3	27	30.00	30.09				
22	CLR	NC	9.00	-SN	14	-5	10	42	22	30	29.91	30.00	22	CLR	NC	10.00		22	9	18	57	0	00	29.97	30.06				
SUNRISE: 0721					JAN 16					SUNSET: 1703					SUNRISE: 0718					JAN 22					SUNSET: 1710				
01	CLR	NC	10.00		9	-7	6	48	17	30	29.91	30.00	01	BKN	110	10.00		21	12	19	68	5	17	29.90	29.99				
04	CLR	NC	10.00		8	-10	5	43	14	28	29.90	29.99	04	BKN	095	10.00		23	13	20	65	3	19	29.85	29.94				
07	CLR	NC	10.00		9	-10	6	41	22	28	29.89	29.99	07	OVC	100	10.00		26	17	23	69	8	23	29.80	29.89				
10	CLR	NC	10.00		15	-3	11	44	22	29	29.92	30.01	10	OVC	060	10.00		30	19	26	64	8	21	29.72	29.81				
13	CLR	NC	9.00		23	4	18	44	23	28	29.90	29.98	13	SCT	NC	10.00		35	22	30	59	10	22	29.63	29.72				
16	CLR	NC	10.00		25	3	19	39	23	30	29.91	30.01	16	SCT	NC	10.00		41	22	34	47	17	24	29.60	29.69				
19	CLR	NC	10.00		23	3	18	42	21	28	29.96	30.05	19	SCT	NC	10.00		34	11	27	38	20	31	29.68	29.77				
22	CLR	NC	10.00		22	2	17	42	15	30	30.00	30.09	22	CLR	NC	10.00		23	2	18	40	21	30						
SUNRISE: 0721					JAN 17					SUNSET: 1704					SUNRISE: 0718					JAN 23					SUNSET: 1711				
01	CLR	NC	10.00		20	3	16	48	10	29	30.03	30.12	01	CLR	NC	10.00		17	-1	13	45	20	29						
04	CLR	NC	10.00		19	5	16	54	14	31	30.03	30.12	04	CLR	NC	10.00		15	-1	12	49	12	30						
07	CLR	NC	10.00		17	6	14	62	9	29	30.05	30.14	07	CLR	NC	10.00		14	-2	11	49	14	30						
10	CLR	NC	10.00		25	11	21	55	8	32	30.08	30.17	10	CLR	NC	10.00		15	-5	11	40	21	29	29.98	30.07				
13	CLR	NC	10.00		31	13	25	47	8	28	30.02	30.11	13	FEW	NC	10.00		17	-4	13	39	21	28	29.93	30.03				
16	BKN	070	10.00		32	15	27	50	5	28	29.98	30.07	16	CLR	NC	10.00		19	-3	14	37	15	29	29.90	29.99				
19	OVC	049	10.00		31	15	26	52	6	26	29.94	30.03	19	CLR	NC	10.00		16	-1	12	47	6	26	29.94	30.03				
22	OVC	032	2.00	-SN BR	28	26	27	92	6	17	29.87	29.96	22	OVC	065	10.00		17	2	14	51	3	34	29.90	29.99				
SUNRISE: 0720					JAN 18					SUNSET: 1705					SUNRISE: 0717					JAN 24					SUNSET: 1712				
01	OVC	070	2.00	-FZRA	28	27	28	96	7	19	29.78	29.87	01	OVC	015	2.00	-SN BR	14	11	13	88	0	00	29.87	29.96				
04	OVC	010	2.00	-FZRA BR	31	29	30	92	7	19	29.68	29.77	04	OVC	015	4.00	-SN BR	14	12	13	92	0	00	29.81	29.90				
07	OVC	004	2.00	-RA BR	33	31	32	92	7	18	29.57	29.67	07	OVC	038	6.00	-SN BR	14	11	13	88	0	00	29.79	29.88				
10	OVC	002	0.75	-RA BR	33	32	33	96	5	15	29.49	29.58	10	OVC	019	2.50	-SN	17	11	15	77	6	33	29.81	29.90				
13	OVC	004	0.75	-RA BR	33	32	33	96	0	00	29.36	29.45	13	BKN	100	10.00		21	12	19	68	9	31	29.81	29.90				
16	OVC	050	3.00	UP	35	32	34	89	8	32	29.34	29.43	16	FEW	NC	10.00		21	9	18	59	13	31	29.86	29.95				
19	SCT	NC	10.00		34	29	32	82	13	30	29.41	29.50	19	CLR	NC	10.00		17	6	14	62	6	27	29.96	30.05				
22	FEW	NC	9.00	-SN	31	20	27	64	25	30	29.50	29.59	22	CLR	NC	10.00		17	-3	13	41	16	31	30.08	30.17				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

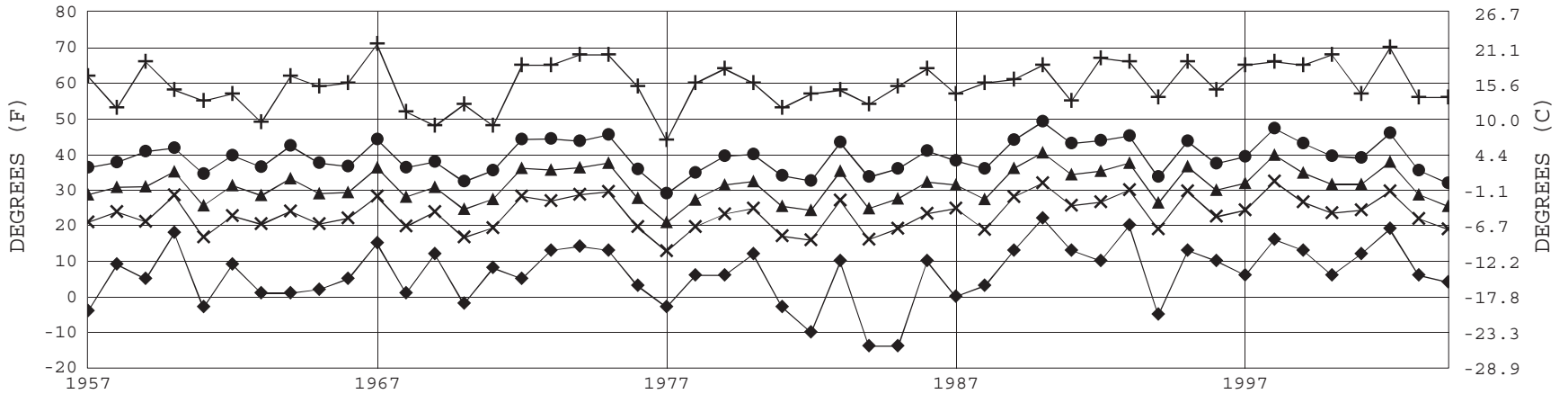
JANUARY 2004

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																																																																																																																																																																																																																																																																																																																																													
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																																																																																																																																																																																																																																																																																																																																								
SUNRISE: 0716					JAN 25				SUNSET: 1713				SUNRISE: 0711					JAN 31				SUNSET: 1720																																																																																																																																																																																																																																																																																																																																															
01	CLR	NC	10.00		13	-6	9	42	10	33	30.13	30.22	01	BKN	090	10.00		14	0	11	53	10	28	29.75	29.84																																																																																																																																																																																																																																																																																																																																												
04	CLR	NC	10.00		8	-6	6	52	6	27	30.20	30.29	04	CLR	NC	10.00		13	0	10	56	15	28	29.77	29.86																																																																																																																																																																																																																																																																																																																																												
07	CLR	NC	10.00		6	-6	4	57	6	28	30.26	30.35	07	CLR	NC	10.00		12	-1	9	56	14	26	29.87	29.96																																																																																																																																																																																																																																																																																																																																												
10	CLR	NC	10.00		14	-2	11	49	8	34	30.31	30.40	10	CLR	NC	10.00		15	2	12	56	17	27	29.94	30.03																																																																																																																																																																																																																																																																																																																																												
13	CLR	NC	10.00		17	-4	13	39	7	31	30.28	30.37	13	CLR	NC	10.00		21	5	17	50	17	29	29.94	30.03																																																																																																																																																																																																																																																																																																																																												
16	CLR	NC	10.00		18	-4	13	37	0	00	30.26	30.36	16	CLR	NC	10.00		23	9	19	55	21	28	29.95	30.04																																																																																																																																																																																																																																																																																																																																												
19	OVC	090	10.00		17	2	14	51	5	31	30.26	30.35	19	CLR	NC	10.00		21	7	17	54	14	30	30.04	30.13																																																																																																																																																																																																																																																																																																																																												
22	OVC	014	2.00	-SN	17	8	15	68	5	VR	30.21	30.30	22	CLR	NC	10.00		18	5	15	57	10	29	30.09	30.18																																																																																																																																																																																																																																																																																																																																												
SUNRISE: 0715					JAN 26				SUNSET: 1714				<b>3-HOURLY OBSERVATION NOTES</b>																																																																																																																																																																																																																																																																																																																																																								
01	OVC	011	2.00	-SN BR	16	13	15	88	0	00	30.24	30.33	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	005	1.00	-SN BR	15	13	15	91	8	05	30.21	30.30	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																																																																																																																																																																																																																																																																																																																																																								
07	OVC	014	2.50	-SN BR	15	13	15	91	12	02	30.22	30.31	NC= No ceiling detected.																																																																																																																																																																																																																																																																																																																																																								
10	OVC	046	2.00	-SN BR	18	14	17	84	14	04	30.24	30.34	& = Original observation contained additional weather elements.																																																																																																																																																																																																																																																																																																																																																								
13	OVC	030	10.00		19	12	17	74	12	05	30.18	30.27	See page 3 for additional notes.																																																																																																																																																																																																																																																																																																																																																								
16	OVC	028	10.00		20	14	18	78	17	04	30.12	30.21																																																																																																																																																																																																																																																																																																																																																									
19	OVC	022	10.00		21	12	19	68	16	05	30.13	30.22																																																																																																																																																																																																																																																																																																																																																									
22	OVC	020	9.00		21	13	19	71	14	05	30.10	30.19																																																																																																																																																																																																																																																																																																																																																									
SUNRISE: 0715					JAN 27				SUNSET: 1716				<b>SUMMARY BY HOUR</b>																																																																																																																																																																																																																																																																																																																																																								
01	OVC	014	3.00	-SN BR	21	19	20	92	10	02	30.07	30.16	<table border="1"> <thead> <tr> <th rowspan="2">HOUR (LST)</th> <th colspan="8">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th>CEILOMETER</th> <th>EFF CLD AMT</th> <th>DRY BULB</th> <th>DEW POINT</th> <th>WET BULB</th> <th>RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th>VISIBILITY (MILES)</th> <th>WIND SPEED (MPH)</th> <th>DIRECTION</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>24</td><td>13</td><td>21</td><td>66</td><td>29.96</td><td>30.05</td><td>8.23</td><td>9</td><td>6</td><td>30</td></tr> <tr><td>02</td><td></td><td></td><td>23</td><td>14</td><td>21</td><td>68</td><td>29.96</td><td>30.05</td><td>8.20</td><td>9</td><td>5</td><td>30</td></tr> <tr><td>03</td><td></td><td></td><td>23</td><td>14</td><td>21</td><td>67</td><td>29.96</td><td>30.05</td><td>8.20</td><td>8</td><td>5</td><td>30</td></tr> <tr><td>04</td><td></td><td></td><td>23</td><td>13</td><td>21</td><td>68</td><td>29.95</td><td>30.04</td><td>8.26</td><td>8</td><td>5</td><td>29</td></tr> <tr><td>05</td><td></td><td></td><td>23</td><td>14</td><td>21</td><td>70</td><td>29.95</td><td>30.04</td><td>8.26</td><td>8</td><td>4</td><td>29</td></tr> <tr><td>06</td><td></td><td></td><td>23</td><td>14</td><td>20</td><td>71</td><td>29.96</td><td>30.05</td><td>8.58</td><td>8</td><td>4</td><td>29</td></tr> <tr><td>07</td><td></td><td></td><td>23</td><td>14</td><td>20</td><td>70</td><td>29.96</td><td>30.05</td><td>8.98</td><td>9</td><td>5</td><td>29</td></tr> <tr><td>08</td><td></td><td></td><td>23</td><td>14</td><td>21</td><td>71</td><td>29.97</td><td>30.06</td><td>9.00</td><td>8</td><td>4</td><td>28</td></tr> <tr><td>09</td><td></td><td></td><td>25</td><td>15</td><td>22</td><td>68</td><td>29.98</td><td>30.07</td><td>8.56</td><td>10</td><td>6</td><td>29</td></tr> 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(MPH)	DIRECTION	01			24	13	21	66	29.96	30.05	8.23	9	6	30	02			23	14	21	68	29.96	30.05	8.20	9	5	30	03			23	14	21	67	29.96	30.05	8.20	8	5	30	04			23	13	21	68	29.95	30.04	8.26	8	5	29	05			23	14	21	70	29.95	30.04	8.26	8	4	29	06			23	14	20	71	29.96	30.05	8.58	8	4	29	07			23	14	20	70	29.96	30.05	8.98	9	5	29	08			23	14	21	71	29.97	30.06	9.00	8	4	28	09			25	15	22	68	29.98	30.07	8.56	10	6	29	10			27	15	24	62	29.98	30.08	8.52	11	7	29	11			28	15	25	61	29.98	30.07	8.81	12	8	29	12			29	15	25	59	29.95	30.04	8.61	13	9	29	13			30	15	26	56	29.93	30.02	9.06	13	10	29	14			30	15	26	56	29.92	30.01	9.26	13	10	29	15			30	15	26	55	29.91	30.00	9.35	12	8	29	16			30	14	26	54	29.92	30.01	9.45	12	9	30	17			29	14	25	54	29.93	30.02	9.52	12	9	29	18			28	13	24	56	29.94	30.03	9.69	10	7	29	19			27	14	24	58	29.95	30.04	9.69	11	7	29	20			27	13	23	58	29.96	30.05	9.77	10	7	29	21			26	13	22	60	29.96	30.05	9.27	9	6	29	22			25	12	22	60	29.97	30.06	8.77	10	6	30	23			24	13	21	63	29.97	30.07	8.73	10	6	30	24			24	12	21	63	29.97	30.06	8.48	9	5	30
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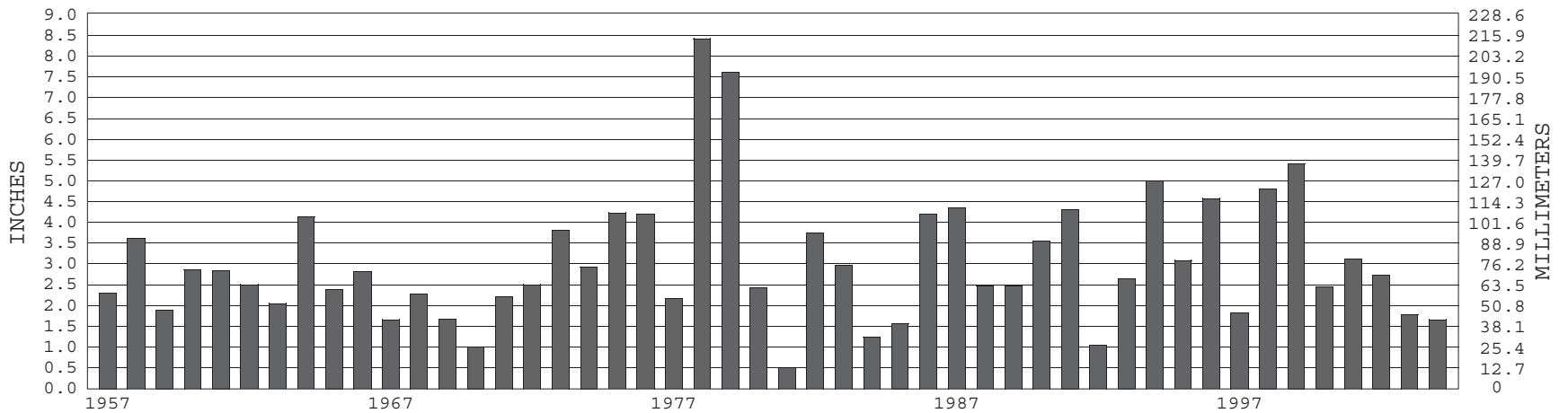
### WILMINGTON, DE JANUARY TEMPERATURES



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

Long-Term (1957-2004) Mean: 31.2      1971-2000 Normal: 31.5

### WILMINGTON, DE JANUARY PRECIPITATION



Long-Term (1957-2004) Mean Monthly Total: 3.04

1971-2000 Normal: 3.43



JANUARY 2004  
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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