FEBRUARY 1998
LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

WILMINGTON, DE
NEW CASTLE COUNTY APRT (ILG)
Lat: 39°40' N Long: 75°36' W Elev (Ground): 74 Feet
Time Zone: EASTERN WBAN: 13781 ISSN #:0198−117X

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	DEG DAYS BASE 65° HEATING	COOLING	WEATHER	SNOW/ICE ON GND(IN) 0700 LST DEPTH	1300 LST WATER EQUIV	PRECIPITATION (INCHES) 2400 LST SNOW−FALL	2400 LST WATER EQUIV	PRESSURE (INCHES OF HG) AVERAGE STATION	AVERAGE SEA LEVEL	WIND SPEED = MPH DIR = TENS OF DEGREES RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM 5−SEC SPEED	5−SEC DIR	MAXIMUM 2−MIN SPEED	2−MIN DIR	DATE
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	47	25	36	5	25	32	29	0					0.00	30.15	30.24	0.5	18	5.0	10	16	9	16	01
02	47	25	36	5	34	36	29	0	BR				0.00	30.17	30.26	4.0	16	4.2	14	15	13	16	02
03	48	36	42	11	35	39	23	0	RA BR HZ				T	30.06	30.15	3.9	01	5.8	18	03	17	02	03
04	41	37	39	8	29	35	26	0	RA SN				0.29	29.71	29.79	26.3	04	26.5	48	04	43*	04	04
05	39	36	38	7	32	35	27	0	RA DZ SN BR				0.13	29.48	29.57	20.5	02	21.4	51*	04	41	05	05
06	47	34	41	10	22	34	24	0					0.00	29.79	29.88	5.8	03	7.2	24	01	21	36	06
07	43	28	36	4	23	32	29	0					0.00	29.91	29.99	11.9	04	12.3	25	04	22	04	07
08	45	27	36	4	23	31	29	0					0.00	29.92	30.00	8.6	04	10.0	22	01	18	01	08
09	46	24	35	3	26	32	30	0	BR				0.00	30.07	30.16	0.6	25	4.6	11	15	11	15	09
10	54	25	40	8	28	35	25	0	BR				0.00	30.15	30.24	3.8	20	5.1	15	16	13	17	10
11	52	29	41	9	39	41	24	0	RA FG+ BR				0.39	29.95	30.04	5.5	12	6.9	25	15	22	15	11
12	54	39	47	14	39	45	18	0	RA BR				0.10	29.53	29.61	12.1	26	14.7	36	28	30	28	12
13	47	30	39	6	25	34	26	0					0.00	29.89	29.98	9.4	30	10.7	26	33	24	32	13
14	39	26	33	0	14	26	32	0					0.00	30.09	30.18	10.2	34	11.0	21	29	17	31	14
15	37	19*	28*	−5	5	22	37	0					0.00	30.40	30.49	3.0	04	6.0	15	36	13	36	15
16	41	23	32	−1	23	30	33	0					0.00	30.40	30.49	7.5	07	8.0	18	07	15	06	16
17	56	38	47	13	41	43	18	0	RA BR				0.50	29.91	29.99	16.2	06	16.7	34	06	29	07	17
18	56	46	51	17	49	49	14	0	TSRA RA FG+ BR				0.11	29.50	29.58	6.0	07	9.3	22	17	18	04	18
19	56	43	50	16	41	45	15	0	RA BR				0.01	29.67	29.75	8.4	27	8.9	23	28	20	26	19
20	48	36	42	7	39	41	23	0	RA BR				0.02	29.67	29.75	4.6	25	4.9	14	28	11	26	20
21	52	40	46	11	33	40	19	0					0.00	29.76	29.84	14.9	29	15.1	29	30	25	29	21
22	51	35	43	8	30	38	22	0					0.00	30.01	30.10	7.5	28	8.3	18	29	16	28	22
23	43	40	42	7	35	39	23	0	RA BR				1.18	29.69	29.77	20.5	04	20.7	46	04	40	04	23
24	42	37	40	4	36	38	25	0	RA BR				0.21	29.32	29.40	18.0	32	20.9	43	04	38	04	24
25	54	38	46	10	28	38	19	0					0.00	29.63	29.71	22.1	30	22.4	44	30	38	30	25
26	56	37	47	11	29	39	18	0					0.00	29.87	29.96	11.4	29	11.6	22	30	18	29	26
27	60*	35	48	11	29	40	17	0	RA				T	29.78	29.86	2.0	17	6.9	16	15	15	15	27
28	57	46	52*	15	42	47	13	0	RA BR				0.01	29.72	29.80	5.9	07	6.5	16	08	14	08	28
	48.5	33.4	41.0		30.5	37.0	23.8	0.0	< MONTHLY AVERAGES	TOTALS−>			2.95	29.86	29.95	4.6	36	11.1	<− MONTHLY AVERAGES				
	6.6	8.6	7.6		<−−−−−−−−−−−−− DEPARTURE FROM NORMAL −−−−−−−−−−−−−>								0.04	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING:	667	−218	3318	−422
COOLING:	0	0	0	0

GREATEST 24−HR PRECIPITATION: 1.24 DATE: 23−24
GREATEST 24−HR SNOWFALL: DATE:
GREATEST SNOW DEPTH: DATE:

	SEA LEVEL PRESSURE	DATE	TIME
MAXIMUM	30.57	16	1019
MINIMUM	29.32	24	0352

NUMBER OF DAYS WITH →

MAXIMUM TEMP ≥ 90:	0	MINIMUM TEMP ≤ 32:	11
MAXIMUM TEMP ≤ 32:	0	MINIMUM TEMP ≤ 0:	0
THUNDERSTORMS:	1	HEAVY FOG:	2
PRECIPITATION ≥ 0.01 INCH:	11		
PRECIPITATION ≥ 0.10 INCH:	8		
SNOWFALL ≥ 1.0 INCH:			

FEBRUARY 1998
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

FEBRUARY 1998 ILG WBAN # 13781

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01													01													01		0.00
02													02													02		0.00
03													03			T										03		T
04									T	T	0.01	0.01	04	0.01	0.04	0.06	0.04	0.03	0.03	0.01	0.04	0.01	T	T	T	04		0.29
05	0.01	T	T	T	0.04	0.02	0.02	0.03	T	T		T	05		T	T	T	T	0.01	T	T	T	T			05		0.13
06													06													06		0.00
07													07													07		0.00
08													08													08		0.00
09													09													09		0.00
10													10													10		0.00
11													11								0.02	0.09	0.15	0.02	0.11	11		0.39
12	0.09	0.01		T		T				T	T		12													12		0.10
13													13													13		0.00
14													14													14		0.00
15													15													15		0.00
16													16													16		0.00
17										T		T	17	0.06	0.04	0.04	0.10	0.09	0.05	0.01	0.06	0.01	0.01	0.03	T	17		0.50
18			T					0.01	T	0.01	0.04		18					T	0.03	T	T	T		T	0.02	18		0.11
19	0.01	T											19													19		0.01
20										T	0.01	0.01	20	T					T	T						20		0.02
21													21													21		0.00
22													22													22		0.00
23											T	0.03	23	0.06	0.04	0.09	0.07	0.21	0.32	0.18	T	0.13	0.05	T	T	23		1.18
24	T	0.01	0.01	T	0.01	T	0.01	T	T	0.01	0.01	T	24		T	T	T	0.01	0.03	0.02	0.05	0.02	0.01	0.01		24		0.21
25													25													25		0.00
26													26													26		0.00
27													27					T	T						27		T
28													28				T		0.01	T			T			28		0.01

MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note 1: NCDC derives these data from one–minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: 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 occurence if more than one)
T = Trace precipitation amount
+ = also occurs on earlier date
FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24−hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1961−1990

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well−Developed Dust/Sand Whirls
MI Shallow	PE 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
FEBRUARY 1998

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

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
			SR−SS		MN−MN				
	TOTAL MINUTES	PERCENT POSSIBLE	CEILOMETER	SATELLITE	CEILOMETER	SATELLITE	MINIMUM	MAXIMUM	
01							10.00	10.00	
02							2.50	10.00	
03							3.00	10.00	
04							6.00	10.00	
05							3.00	10.00	
06							9.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							6.00	10.00	
10							3.00	10.00	
11							<.25	10.00	
12							4.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							2.50	10.00	
18							<.25	6.00	
19							2.00	10.00	
20							6.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							3.00	10.00	
24							5.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							3.00	10.00	
MONTHLY AVGS							6.36	9.86	

SUNSHINE (MINUTES)

Total: Possible:
Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR	PTLY CLDY	CLOUDY	MISSING
			28

MINIMUM VISIBILITY (MILES)

<=0.25	<=3.0	>=7.0
2	10	13

OBSERVATIONS AT 3–HOURLY INTERVALS

WILMINGTON, DE

FEBRUARY 1998 ILG WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE: 0706	**FEB 01**			**SUNSET: 1717**					
01	CLR	NC			10.00		29	22	27	75	5	33	30.07	30.16
04	CLR	NC			10.00		29	20	26	69	5	01	30.08	30.18
07	CLR	NC			10.00		28	20	25	72	3	36	30.14	30.24
10	CLR	NC			10.00		36	23	31	59	5	36	30.17	30.26
13	CLR	NC			10.00		43	24	36	47	5	23	30.15	30.24
16	CLR	NC			10.00		46	28	39	50	9	16	30.16	30.25
19	CLR	NC			10.00		38	26	33	62	6	13	30.17	30.26
22	CLR	NC			10.00		35	32	34	89	5	17	30.18	30.27
					SUNRISE: 0705	**FEB 02**			**SUNSET: 1718**					
01	CLR	NC			9.00		29	28	29	96	0	00	30.18	30.27
04	CLR	NC			8.00		29	28	29	96	0	00	30.18	30.27
07	CLR	NC			6.00	BR	27	27	27	100	0	00	30.21	30.30
10	CLR	NC			8.00		39	36	38	89	6	20	30.21	30.30
13	CLR	NC			10.00		45	37	41	74	8	15	30.15	30.24
16	CLR	NC			10.00		45	38	42	77	10	16	30.14	30.23
19	CLR	NC			10.00		41	39	40	93	8	16	30.15	30.24
22	CLR	NC			10.00		39	39	39	100	6	17	30.14	30.23
					SUNRISE: 0704	**FEB 03**			**SUNSET: 1719**					
01	SCT	NC			5.00	HZ	39	34	37	82	5	16	30.13	30.22
04	BKN	110			6.00	BR	38	36	37	93	3	16	30.11	30.20
07	CLR	NC			5.00	BR	36	35	36	97	3	33	30.08	30.17
10	SCT	NC			6.00	HZ	43	37	40	80	0	00	30.06	30.15
13	CLR	NC			8.00		47	35	42	63	3	33	30.07	30.16
16	SCT	NC			9.00		46	35	41	66	6	34	30.02	30.11
19	SCT	NC			9.00		43	33	39	68	10	02	30.02	30.11
22	CLR	NC			10.00		42	31	38	65	13	02	30.00	30.08
					SUNRISE: 0703	**FEB 04**			**SUNSET: 1720**					
01	OVC	085			10.00		41	24	35	51	14	03	29.93	30.01
04	OVC	110			10.00		39	26	34	60	22	02	29.89	29.98
07	OVC	080			10.00		39	27	34	62	23	04	29.84	29.93
10	OVC	060			10.00	-RA	39	30	35	70	18	03	29.80	29.89
13	OVC	039			6.00	-RA	40	30	36	68	26	04	29.68	29.77
16	OVC	060			9.00	-RA	39	30	35	70	28	04	29.60	29.69
19	OVC	026			10.00	-RA	39	30	35	70	35	04	29.54	29.63
22	OVC	016			10.00		38	30	35	73	31	04	29.48	29.57
					SUNRISE: 0702	**FEB 05**			**SUNSET: 1722**					
01	OVC	014			10.00	-RA	37	34	36	89	38	04	29.42	29.51
04	OVC	014			10.00	-RA	37	34	36	89	32	04	29.40	29.49
07	OVC	014			9.00	-RA	37	34	36	89	30	03	29.40	29.49
10	OVC	014			9.00		39	36	38	89	17	02	29.44	29.53
13	OVC	015			7.00		38	36	37	93	16	36	29.44	29.53
16	OVC	015			4.00	-SN BR	36	33	35	89	20	36	29.49	29.58
19	OVC	027			10.00	-RA	37	29	34	73	16	01	29.57	29.66
22	OVC	029			10.00		37	24	32	60	15	01	29.60	29.70
					SUNRISE: 0701	**FEB 06**			**SUNSET: 1723**					
01	OVC	033			10.00		39	24	33	55	14	01	29.64	29.73
04	OVC	033			10.00		39	20	32	46	8	01	29.67	29.75
07	OVC	029			10.00		38	19	31	47	7	36	29.74	29.83
10	OVC	025			10.00		40	16	32	38	12	01	29.81	29.90
13	CLR	NC			10.00		46	16	35	30	6	08	29.79	29.88
16	CLR	NC			10.00		47	17	36	30	9	03	29.80	29.89
19	CLR	NC			10.00		42	23	35	47	3	16	29.86	29.95
22	CLR	NC			10.00		36	32	34	86	3	13	29.90	29.99

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE: 0660	**FEB 07**			**SUNSET: 1724**					
01	CLR	NC			10.00		35	32	34	89	5	02	29.92	30.01
04	CLR	NC			10.00		37	18	30	46	10	03	29.89	29.98
07	CLR	NC			10.00		29	18	25	64	8	01	29.93	30.03
10	CLR	NC			10.00		39	18	32	43	15	05	29.95	30.04
13	OVC	100			10.00		42	17	33	36	17	04	29.90	29.99
16	OVC	110			10.00		42	26	36	53	15	05	29.87	29.96
19	OVC	110			10.00		39	25	34	57	9	05	29.89	29.98
22	OVC	110			10.00		38	27	34	65	15	04	29.89	29.98
					SUNRISE: 0659	**FEB 08**			**SUNSET: 1725**					
01	CLR	NC			10.00		36	27	33	70	15	03	29.86	29.95
04	CLR	NC			10.00		32	23	29	69	13	02	29.85	29.94
07	CLR	NC			10.00		30	21	27	69	12	02	29.88	29.97
10	CLR	NC			10.00		37	21	31	52	12	02	29.92	30.01
13	CLR	NC			10.00		42	22	35	45	8	06	29.89	29.98
16	CLR	NC			10.00		43	24	36	47	10	07	29.89	29.98
19	CLR	NC			10.00		36	24	32	62	6	09	29.95	30.04
22	CLR	NC			10.00		32	24	29	73	0	00	30.00	30.09
					SUNRISE: 0658	**FEB 09**			**SUNSET: 1726**					
01	CLR	NC			10.00		26	23	25	88	6	33	30.01	30.10
04	CLR	NC			10.00		26	22	25	84	5	33	30.02	30.11
07	CLR	NC			8.00		25	23	24	92	3	35	30.06	30.15
10	CLR	NC			10.00		35	27	32	72	3	02	30.10	30.19
13	CLR	NC			10.00		43	28	37	56	5	13	30.07	30.16
16	CLR	NC			10.00		45	29	38	54	7	15	30.05	30.14
19	CLR	NC			10.00		40	28	35	63	3	18	30.09	30.18
22	CLR	NC			10.00		36	26	32	67	6	25	30.10	30.19
					SUNRISE: 0656	**FEB 10**			**SUNSET: 1727**					
01	CLR	NC			10.00		32	25	29	75	5	25	30.11	30.20
04	CLR	NC			10.00		29	25	28	85	0	00	30.11	30.21
07	CLR	NC			8.00		25	23	24	92	0	00	30.15	30.24
10	CLR	NC			10.00		42	27	36	55	5	25	30.18	30.27
13	CLR	NC			10.00		52	27	42	38	8	23	30.15	30.24
16	CLR	NC			10.00		52	26	41	37	7	16	30.13	30.22
19	CLR	NC			10.00		41	32	37	70	10	16	30.17	30.26
22	CLR	NC			8.00		37	34	36	89	6	16	30.16	30.25
					SUNRISE: 0655	**FEB 11**			**SUNSET: 1729**					
01	CLR	NC			4.00	BR	34	33	34	97	3	16	30.14	30.22
04	CLR	NC			5.00	BR	32	31	32	96	5	07	30.11	30.20
07	OVC	002			4.00	BR	33	32	33	96	5	05	30.11	30.20
10	BKN	049			5.00	BR	39	38	39	96	0	00	30.11	30.20
13	OVC	042			10.00		48	36	43	63	6	15	30.01	30.10
16	OVC	015			10.00		51	41	46	69	8	10	29.88	29.97
19	OVC	001			0.50	BR	48	48	48	100	8	09	29.80	29.89
22	OVC	003			9.00	-RA	51	50	51	96	18	15	29.64	29.72
					SUNRISE: 0654	**FEB 12**			**SUNSET: 1730**					
01	OVC	001			5.00	RA BR	49	48	48	97	15	17	29.53	29.61
04	OVC	026			4.00	BR	49	48	48	97	6	17	29.44	29.53
07	OVC	010			10.00		51	49	50	92	9	23	29.42	29.51
10	BKN	065			10.00	-RA	50	47	48	89	10	25	29.46	29.55
13	BKN	050			10.00		54	37	46	53	22	26	29.46	29.55
16	OVC	047			10.00		53	36	45	52	22	28	29.50	29.59
19	BKN	050			10.00		47	32	41	56	28	28	29.61	29.69
22	CLR	NC			10.00		41	25	35	53	20	27	29.71	29.79

OBSERVATIONS AT 3–HOURLY INTERVALS

WILMINGTON, DE

FEBRUARY 1998 ILG WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F: DRY BULB	TEMPERATURE °F: DEW POINT	TEMPERATURE °F: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0653	**FEB 13**			**SUNSET: 1731**					
01	CLR	NC			10.00		37	26	33	65	14	28	29.75	29.84
04	CLR	NC			10.00		35	25	31	67	9	24	29.82	29.91
07	CLR	NC			10.00		31	24	29	76	8	25	29.89	29.98
10	CLR	NC			10.00		41	24	35	51	17	33	29.91	29.99
13	CLR	NC			10.00		46	25	38	44	12	30	29.88	29.97
16	FEW	NC			10.00		44	25	37	47	12	30	29.87	29.96
19	CLR	NC			10.00		37	23	32	57	12	30	29.93	30.02
22	OVC	047			10.00		39	23	33	53	8	33	29.95	30.04
					SUNRISE: 0652	**FEB 14**			**SUNSET: 1732**					
01	OVC	043			10.00		35	22	30	59	14	01	29.96	30.04
04	OVC	043			10.00		31	18	27	59	14	01	29.96	30.05
07	CLR	NC			10.00		29	14	24	54	12	34	30.02	30.11
10	CLR	NC			10.00		29	12	24	49	13	34	30.09	30.18
13	CLR	NC			10.00		35	14	28	42	12	31	30.09	30.18
16	CLR	NC			10.00		38	15	30	39	14	31	30.08	30.17
19	CLR	NC			10.00		29	15	25	56	9	31	30.17	30.26
22	CLR	NC			10.00		28	9	23	45	7	01	30.22	30.31
					SUNRISE: 0651	**FEB 15**			**SUNSET: 1733**					
01	CLR	NC			10.00		25	10	21	53	8	02	30.25	30.35
04	CLR	NC			10.00		22	9	18	57	7	36	30.31	30.40
07	CLR	NC			10.00		20	6	17	55	8	35	30.38	30.47
10	CLR	NC			10.00		28	-3	21	26	7	35	30.46	30.55
13	CLR	NC			10.00		33	-4	24	20	5	VR	30.41	30.50
16	CLR	NC			10.00		36	-3	26	19	3	07	30.40	30.50
19	CLR	NC			10.00		33	1	25	25	3	13	30.41	30.50
22	CLR	NC			10.00		28	19	25	69	6	13	30.45	30.54
					SUNRISE: 0649	**FEB 16**			**SUNSET: 1734**					
01	CLR	NC			10.00		25	18	23	75	0	00	30.44	30.53
04	CLR	NC			10.00		26	20	24	78	5	06	30.42	30.51
07	CLR	NC			10.00		24	19	23	81	5	06	30.42	30.51
10	CLR	NC			10.00		32	22	29	66	5	08	30.47	30.56
13	CLR	NC			10.00		38	21	32	51	8	14	30.43	30.52
16	CLR	NC			10.00		41	22	34	47	12	07	30.37	30.46
19	OVC	025			10.00		39	26	34	60	10	07	30.38	30.47
22	OVC	029			10.00		38	30	35	73	9	06	30.34	30.43
					SUNRISE: 0648	**FEB 17**			**SUNSET: 1736**					
01	OVC	090			10.00		38	31	35	76	9	05	30.26	30.35
04	SCT	NC			10.00		39	35	37	86	18	05	30.17	30.26
07	OVC	090			10.00		41	37	39	86	16	05	30.14	30.24
10	OVC	046			10.00		44	37	41	76	17	06	30.07	30.16
13	OVC	014			5.00	RA BR	44	41	43	89	21	06	29.91	30.00
16	OVC	008			2.50	RA BR	45	43	44	93	21	07	29.74	29.83
19	OVC	006			5.00	-RA BR	48	46	47	93	21	07	29.64	29.73
22	OVC	002			3.00	BR	51	50	51	96	9	05	29.56	29.65
					SUNRISE: 0647	**FEB 18**			**SUNSET: 1737**					
01	OVC	002			5.00	BR	55	54	54	96	15	14	29.48	29.56
04	VV	001			0.25	FG	51	50	51	96	9	15	29.45	29.54
07	VV	001			<.25	FG	49	48	48	97	3	16	29.49	29.58
10	OVC	001			1.25	-RA BR	51	51	51	100	3	07	29.50	29.59
13	OVC	003			4.00	BR	53	51	52	93	14	04	29.47	29.56
16	OVC	003			1.75	BR	49	47	48	93	18	04	29.48	29.56
19	OVC	001			1.50	BR	48	47	47	96	10	03	29.52	29.61
22	OVC	001			2.00	BR	46	45	46	96	7	07	29.54	29.63
					SUNRISE: 0645	**FEB 19**			**SUNSET: 1738**					
01	OVC	005			2.50	-RA BR	46	45	46	96	0	00	29.56	29.65
04	OVC	042			9.00		46	44	45	93	3	24	29.57	29.66
07	OVC	042			10.00		46	43	45	89	6	23	29.61	29.70
10	OVC	070			10.00		49	43	46	80	9	24	29.64	29.73
13	OVC	055			10.00		54	40	47	59	17	28	29.65	29.74
16	OVC	036			10.00		53	40	47	61	12	27	29.68	29.76
19	OVC	095			10.00		50	38	44	63	12	27	29.73	29.82
22	OVC	075			10.00		47	38	43	71	8	28	29.78	29.86
					SUNRISE: 0644	**FEB 20**			**SUNSET: 1739**					
01	CLR	NC			10.00		42	36	39	79	6	27	29.77	29.85
04	CLR	NC			8.00		37	35	36	93	0	00	29.73	29.82
07	OVC	032			6.00	BR	36	34	35	93	0	00	29.73	29.81
10	OVC	041			8.00	-RA	44	38	41	79	3	29	29.70	29.78
13	OVC	027			10.00		47	41	44	80	7	25	29.62	29.71
16	OVC	021			10.00		46	41	44	83	6	25	29.58	29.66
19	OVC	050			9.00		45	41	43	86	6	25	29.60	29.69
22	OVC	080			10.00		46	40	43	79	8	26	29.61	29.70
					SUNRISE: 0643	**FEB 21**			**SUNSET: 1740**					
01	OVC	075			10.00		44	39	42	83	8	26	29.62	29.71
04	OVC	042			10.00		45	35	41	68	10	27	29.65	29.73
07	OVC	090			10.00		44	33	39	65	15	29	29.68	29.77
10	OVC	037			10.00		46	33	40	61	17	29	29.74	29.83
13	OVC	045			10.00		50	32	42	50	21	29	29.72	29.81
16	OVC	049			10.00		51	31	42	46	22	30	29.75	29.84
19	CLR	NC			10.00		45	31	39	58	14	29	29.84	29.93
22	CLR	NC			10.00		43	29	37	58	16	29	29.91	30.00
					SUNRISE: 0641	**FEB 22**			**SUNSET: 1741**					
01	CLR	NC			10.00		40	30	36	68	9	28	29.95	30.04
04	CLR	NC			10.00		37	30	34	76	8	29	29.95	30.04
07	CLR	NC			10.00		36	29	33	76	6	24	30.02	30.11
10	OVC	036			10.00		45	30	39	56	13	31	30.06	30.14
13	FEW	NC			10.00		48	30	40	50	9	27	30.02	30.11
16	BKN	047			10.00		50	31	42	48	10	28	30.00	30.09
19	CLR	NC			10.00		44	31	39	60	6	26	30.02	30.11
22	CLR	NC			10.00		41	31	37	67	3	28	30.01	30.10
					SUNRISE: 0640	**FEB 23**			**SUNSET: 1742**					
01	FEW	NC			10.00		43	29	37	58	8	05	29.98	30.06
04	OVC	120			10.00		41	29	36	62	7	07	29.94	30.03
07	OVC	085			10.00		40	32	37	73	13	05	29.88	29.97
10	OVC	055			10.00		42	37	40	82	15	06	29.84	29.92
13	OVC	012			6.00	-RA BR	41	38	40	89	20	04	29.70	29.79
16	OVC	011			5.00	-RA BR	40	38	39	93	30	04	29.59	29.67
19	OVC	011			10.00	-RA	40	38	39	93	36	04	29.43	29.52
22	OVC	013			10.00		41	38	40	89	32	04	29.32	29.40
					SUNRISE: 0639	**FEB 24**			**SUNSET: 1744**					
01	OVC	013			8.00	-RA	42	39	41	89	26	03	29.25	29.34
04	OVC	011			5.00	-RA BR	42	39	41	89	21	01	29.24	29.33
07	OVC	013			6.00	-RA BR	38	36	37	93	20	34	29.29	29.38
10	OVC	017			6.00	-RA BR	38	35	37	89	23	31	29.32	29.41
13	OVC	020			10.00		41	36	39	82	22	32	29.30	29.39
16	OVC	019			10.00	-RA	40	35	38	83	21	30	29.30	29.39
19	OVC	013			10.00	-RA	37	34	36	89	22	29	29.35	29.44
22	OVC	016			10.00	-RA	37	34	36	89	21	30	29.39	29.49

OBSERVATIONS AT 3−HOURLY INTERVALS

WILMINGTON, DE

FEBRUARY 1998 ILG WBAN # 13781

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE: 0637	**FEB 25**			**SUNSET: 1745**					
01	OVC	033			10.00		38	31	35	76	21	30	29.43	29.52
04	OVC	035			10.00		40	29	36	65	24	30	29.47	29.56
07	CLR	NC			10.00		40	26	35	58	26	30	29.54	29.63
10	CLR	NC			10.00		43	28	37	56	30	30	29.60	29.69
13	CLR	NC			10.00		52	29	42	41	31	31	29.61	29.70
16	CLR	NC			10.00		54	28	43	37	31	32	29.63	29.72
19	CLR	NC			10.00		49	27	40	43	16	30	29.74	29.83
22	CLR	NC			10.00		44	27	37	51	14	29	29.80	29.89
					SUNRISE: 0636	**FEB 26**			**SUNSET: 1746**					
01	CLR	NC			10.00		41	27	35	57	10	28	29.83	29.91
04	CLR	NC			10.00		39	29	35	67	12	27	29.85	29.94
07	CLR	NC			10.00		38	28	34	68	14	29	29.89	29.98
10	CLR	NC			10.00		47	29	39	50	12	30	29.91	30.00
13	CLR	NC			10.00		54	30	44	40	16	30	29.87	29.96
16	CLR	NC			10.00		55	30	44	39	17	29	29.85	29.94
19	CLR	NC			10.00		47	29	39	50	8	28	29.85	29.94
22	CLR	NC			10.00		45	30	39	56	8	30	29.88	29.97
					SUNRISE: 0634	**FEB 27**			**SUNSET: 1747**					
01	CLR	NC			10.00		44	27	37	51	8	36	29.86	29.95
04	CLR	NC			10.00		40	24	34	53	8	28	29.86	29.94
07	CLR	NC			10.00		36	24	32	62	5	28	29.81	29.90
10	CLR	NC			10.00		48	26	39	42	3	31	29.82	29.91
13	CLR	NC			10.00		57	25	43	29	7	13	29.74	29.83
16	CLR	NC			10.00		57	31	45	37	12	15	29.71	29.80
19	OVC	047			10.00		47	34	41	61	12	15	29.71	29.80
22	OVC	042			10.00		46	39	43	77	5	17	29.74	29.83
					SUNRISE: 0633	**FEB 28**			**SUNSET: 1748**					
01	OVC	022			10.00		48	38	43	68	6	15	29.75	29.84
04	OVC	028			10.00		48	38	43	68	5	04	29.75	29.84
07	OVC	040			10.00		48	38	43	68	9	04	29.75	29.84
10	OVC	027			10.00		50	41	46	71	7	09	29.79	29.88
13	OVC	026			10.00		55	42	49	62	5	09	29.72	29.80
16	OVC	028			10.00		56	42	49	60	3	09	29.64	29.73
19	OVC	012			10.00		51	47	49	86	9	09	29.67	29.76
22	OVC	007			3.00	BR	47	46	46	97	8	06	29.69	29.77
					SUNRISE:	**FEB 29**			**SUNSET:**					
					SUNRISE:	**FEB 30**			**SUNSET:**					

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE:	**FEB 31**			**SUNSET:**					

3−HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8−2/8, SCT = 3/8−4/8, BKN = 5/8−7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected.
& = Original observation contained additional weather elements.
See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL	VISIBILITY (MILES)	WIND SPEED (MPH)	RESULTANT WIND (MPH) SPEED	RESULTANT WIND (MPH) DIRECTION
01			38	31	35	75	29.86	29.95	8.88	10	4	1
02			38	31	35	77	29.86	29.95	9.00	10	4	1
03			37	30	35	76	29.86	29.94	8.75	10	5	36
04			37	29	34	75	29.85	29.94	8.76	10	5	1
05			37	29	34	76	29.86	29.95	8.72	9	4	35
06			36	28	33	76	29.87	29.96	8.75	9	5	35
07			35	29	33	77	29.87	29.97	8.65	10	5	35
08			37	29	34	75	29.89	29.98	8.06	10	6	36
09			39	30	36	71	29.89	29.98	8.40	10	6	35
10			41	30	37	67	29.90	29.99	9.04	11	6	34
11			43	30	38	61	29.89	29.98	9.50	12	5	36
12			45	30	39	60	29.88	29.97	9.43	12	5	36
13			46	30	40	57	29.85	29.94	9.14	12	5	34
14			47	30	40	55	29.83	29.92	9.07	13	5	35
15			47	30	40	56	29.83	29.92	9.07	13	5	36
16			46	31	40	58	29.83	29.92	8.97	14	5	36
17			45	31	40	61	29.83	29.92	8.85	14	5	36
18			44	31	39	64	29.84	29.93	9.13	12	3	1
19			42	31	38	68	29.85	29.94	9.11	12	4	1
20			41	32	38	70	29.85	29.94	9.05	11	4	36
21			41	33	38	74	29.86	29.95	9.14	11	4	1
22			40	32	37	74	29.86	29.95	9.11	11	4	36
23			39	32	37	77	29.85	29.94	8.80	10	4	1
24			39	32	37	77	29.85	29.94	8.59	10	4	1

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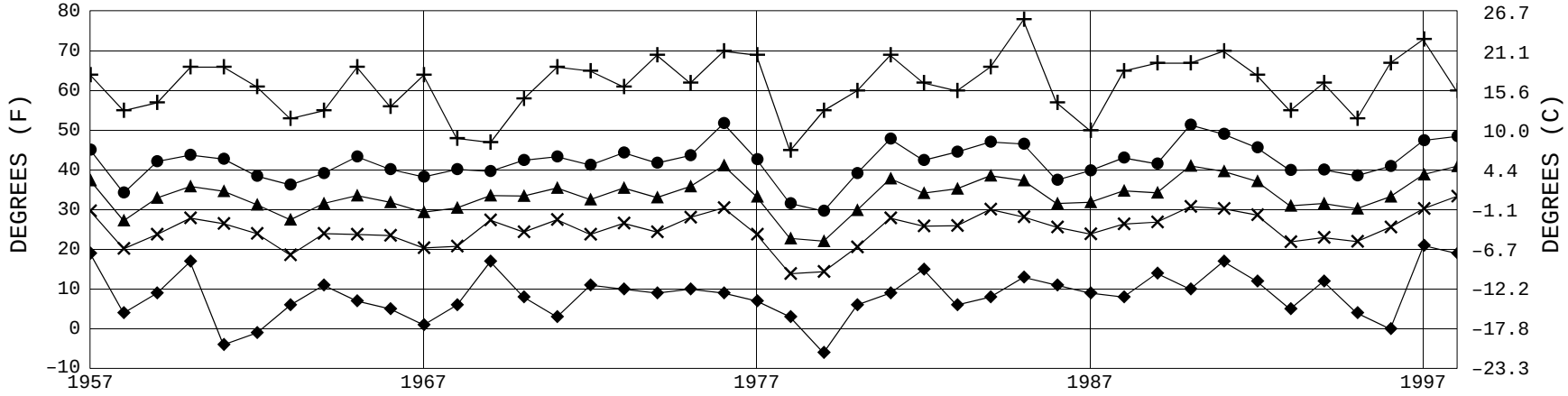
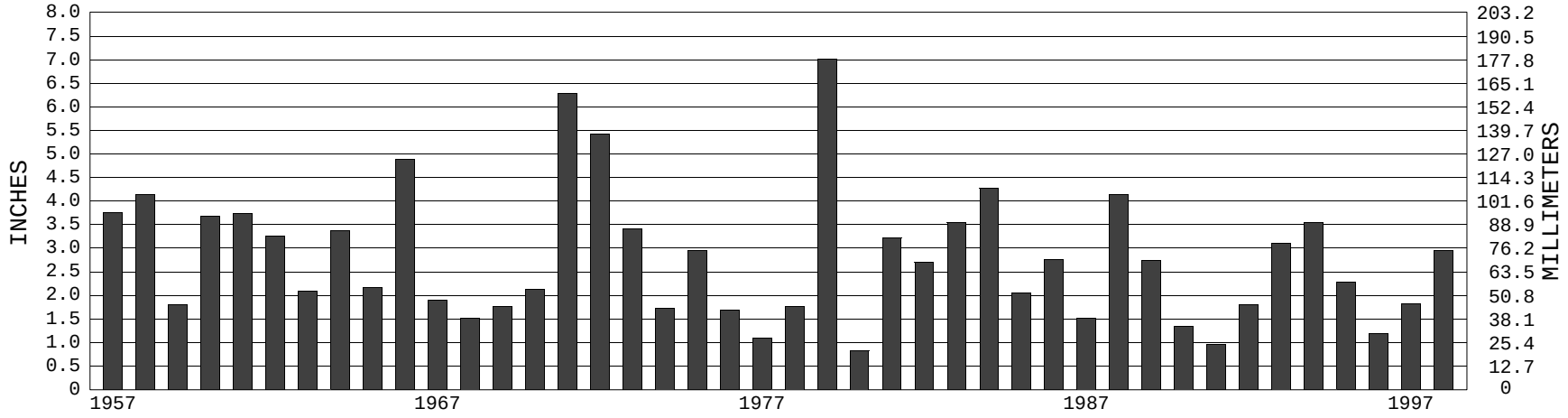
WILMINGTON, DE FEBRUARY TEMPERATURES



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

Long–Term (1957–1998) Mean: 33.6 1961–1990 Normal: 33.4

WILMINGTON, DE FEBRUARY PRECIPITATION



Long–Term (1957–1998) Mean Monthly Total: 2.82 1961–1990 Normal: 2.91

FEBRUARY 1998
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.

ACTING DIRECTOR

NOTICE

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

We welcome your questions or comments, please contact us at
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