



JANUARY 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						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE					
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM										
																			5-SEC		2-MIN								
																			SPEED	DIR	SPEED	DIR							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24						
01	34	16*	25*	-7	9	20	40	0					0.00	30.37	30.45	9.0	23	10.8	22	30	17	19	01						
02	54	32	43	11	22	34	22	0					0.00	30.24	30.32	7.7	21	8.0	23	20	18	21	02						
03	56	32	44	12	29	38	21	0					0.00	30.20	30.29	4.5	21	4.9	18	21	15	21	03						
04	63	43	53	22	31	42	12	0	RA				T	30.25	30.34	2.8	17	3.8	13	15	11	15	04						
05	58	38	48	17	31	40	17	0	BR HZ				0.00	30.25	30.33	2.4	09	3.5	9	14	9	13	05						
06	62	41	52	21	41	49	13	0	RA FG+ BR HZ				0.03	30.06	30.15	4.1	19	4.8	18	22	15	21	06						
07	58	53	56	25	56	56	9	0	RA FG+ BR				0.43	29.90	29.98	5.5	15	5.7	14	15	13	15	07						
08	66*	54	60*	29	59	59	5	0	RA FG+ BR				0.18	29.57	29.66	11.7	17	12.7	24	20	21	21	08						
09	65	41	53	22	46	50	12	0	RA FG+ BR				0.01	29.60	29.69	8.3	22	13.0	39	23	32	26	09						
10	50	32	41	10	31	37	24	0	BR				0.00	30.01	30.10	3.8	24	5.2	13	28	11	28	10						
11	50	28	39	8	30	35	26	0	BR				0.00	30.06	30.15	3.5	27	4.3	14	26	11	27	11						
12	40	28	34	3	25	32	31	0	RA				T	30.21	30.30	2.8	07	6.3	15	06	14	06	12						
13	48	31	40	10	35	39	25	0	RA BR				0.03	30.05	30.13	6.4	27	11.5	30	29	25	29	13						
14	34	23	29	-1	11	24	36	0					0.00	30.33	30.42	5.7	32	7.9	26	31	21	31	14						
15	45	26	36	6	30	34	29	0	RA BR				0.63	30.00	30.09	11.2	05	11.6	23	02	21	04	15						
16	45	34	40	10	38	38	25	0	RA BR				0.06	29.60	29.68	13.8	02	14.3	26	03	23	01	16						
17	42	30	36	6	34	36	29	0	RA				0.02	29.79	29.88	1.5	16	5.6	16	33	14	33	17						
18	38	33	36	6	33	35	29	0	RA DZ SN BR				0.03	29.92	30.01	3.5	32	4.8	16	31	14	30	18						
19	40	34	37	7	31	34	28	0	RA BR HZ				T	29.92	30.01	0.7	35	2.8	13	24	10	24	19						
20	39	29	34	4	23	30	31	0	BR HZ				0.00	29.96	30.05	12.4	30	12.7	29	30	24	31	20						
21	37	24	31	1	20	28	34	0					0.00	30.17	30.26	6.6	30	6.9	17	32	15	30	21						
22	40	26	33	3	24	30	32	0	SN BR UP HZ				T	30.28	30.37	4.5	08	6.4	17	05	15	05	22						
23	49	32	41	11	35	39	24	0	RA SN BR				2.51	29.97	30.06	9.4	07	11.6	28	09	23	08	23						
24	48	33	41	11	37	40	24	0	RA SN BR UP				0.18	29.69	29.77	10.4	32	10.7	23	32	20	31	24						
25	40	30	35	5	23	31	30	0	SN BR				T	29.96	30.04	14.5	29	14.8	32	29	26	30	25						
26	41	27	34	4	22	30	31	0					0.00	30.29	30.37	0.4	27	3.8	13	36	10	02	26						
27	45	29	37	7	31	35	28	0	RA				0.01	30.18	30.27	13.9	06	14.6	29	04	25	05	27						
28	39	33	36	5	31	34	29	0	RA BR				0.68	29.69	29.78	19.7	02	21.1	39*	03	34*	03	28						
29	52	30	41	10	31	37	24	0					0.00	29.72	29.80	4.5	30	7.8	20	30	16	31	29						
30	44	33	39	8	32	36	26	0	BR				0.00	29.69	29.77	9.8	29	10.3	29	31	24	30	30						
31	45	27	36	5	26	33	29	0					0.00	29.91	30.00	8.0	32	8.9	23	35	21	34	31						
47.3 32.3 39.8 ■■										30.9 36.6 25.0 0.0		< MONTHLY AVERAGES TOTALS-->				4.80	30.00	30.08	1.9	32	8.8	<-- MONTHLY AVERAGES							
8.6 9.9 9.2 ■■										<----- DEPARTURE FROM NORMAL ----->										1.77	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3								
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 2.53				DATE: 23-24				SEA LEVEL PRESSURE				DATE TIME								
MONTHLY TOTAL DEPARTURE 775 -291									GREATEST 24-HR SNOWFALL: DATE:				MAXIMUM : 30.60 01 0957																
SEASON TO DATE TOTAL DEPARTURE 2651 -204									GREATEST SNOW DEPTH: DATE:				MINIMUM : 29.53 08 1730																
HEATING: 775 -291									NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 19				PRECIPITATION ≥ 0.01 INCH : 13								
COOLING: 0 0													MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 6								
													THUNDERSTORMS : 0				HEAVY FOG : 4				SNOWFALL ≥ 1.0 INCH : 0								

JANUARY 1998
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

JANUARY 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		
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.	
01													01												01			0.00		
02													02												02			0.00		
03													03												03			0.00		
04			T	T									04												04			T		
05													05												05			0.00		
06													06												06			0.03		
07				0.02	0.02	T			0.01				07	0.04	0.11	0.02	0.01	0.03	T	0.18	0.04	0.09	0.01	T	0.03	06		0.43		
08										T	T	0.01	08		T	0.02	T								07			0.18		
09							0.01	T					09		T										08			0.01		
10													10												09			0.00		
11													11												11			0.00		
12													12												12			T		
13								T	0.01	0.01	T	T	13	T								T	0.01		13			0.03		
14											T	0.03	14												14			0.00		
15													15	0.02	0.02	0.02	0.03	0.09	0.08	0.03	0.04	0.07	0.05	0.09	0.06	15			0.63	
16	0.02	0.01	0.02	T				0.01					16						T						16			0.06		
17													17						T	T					17			0.02		
18	0.01	0.01	T		T						T	0.01	18		T							T	T		18			0.03		
19													19						T						19			T		
20													20							T					20			0.00		
21													21												21			0.00		
22													22	T											22			T		
23	T	0.04	0.04	0.04	0.03	0.03	0.04	0.03	0.02	0.08	0.12	0.10	23	0.22	0.31	0.39	0.41	0.15	0.06	0.18	0.06	0.05	0.02	0.01	23			2.51		
24	0.02	T	T	0.01									24				T		T	0.04	0.03	0.07	0.01	T	24			0.18		
25		T	T	T									25												25			T		
26													26												26			0.00		
27													27												27			0.01		
28	T	0.02	0.04	0.06	0.06	0.06	0.05	0.07	0.07	0.05	0.03	0.02	28	0.06	0.04	0.03	0.02	T		T	0.01			28			0.68			
29													29												29			0.00		
30													30												30			0.00		
31													31												31			0.00		

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.

* = 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

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

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

WEATHER NOTATIONS

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

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).

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.

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.

ADDITIONAL NOTES:

SUNSHINE (MINUTES)

Total: Possible:
Percent Possible:

NUMBER OF DAYS WITH:

CLR PTLY CLDY CLOUDY MISSING
31

MINIMUM VISIBILITY (MILES)		
<=0.25	<=3.0	>=7.0
4	9	13

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JANUARY 1998

ILG

WBAN # 13781

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE ° F				WIND	PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE ° F				WIND	PRESSURE (INCHES, HG)							
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Okta		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION	SEA LEVEL	SKY COVER		CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)		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	20	0	15	41	10	29	30.29	30.38	01	OVC	001			0.25	FG	56	55	55	97	7	16	29.98				
04	CLR	NC			10.00	18	6	15	60	6	27	30.36	30.45	04	OVC	001			1.00	BR	55	55	55	100	0	00	29.97	30.05			
07	CLR	NC			10.00	17	6	14	62	8	24	30.42	30.51	07	VV	001			0.25	FG	54	55	54	100	5	14	29.95	30.04			
10	CLR	NC			10.00	23	6	19	48	12	26	30.50	30.60	10	VV	001			<.25	FG	55	55	55	100	6	16	29.95	30.04			
13	OVC	095			10.00	28	5	22	37	13	24	30.43	30.52	13	VV	001			<.25	FG	56	56	56	100	5	18	29.89	29.97			
16	OVC	095			10.00	28	9	23	45	13	20	30.37	30.46	16	OVC	001			1.25	BR	57	57	57	100	3	14	29.86	29.95			
19	CLR	NC			10.00	28	12	23	51	13	19	30.31	30.40	19	VV	001			0.25	-RA FG	57	57	57	100	8	15	29.84	29.93			
22	CLR	NC			10.00	28	16	24	61	13	18	30.24	30.33	22	VV	001			0.25	FG	56	56	56	100	9	15	29.79	29.88			
					SUNRISE: 0723	JAN 02		SUNSET: 1650											SUNRISE: 0723	JAN 08		SUNSET: 1655									
01	CLR	NC			10.00	34	15	28	46	15	23	30.19	30.28	01	OVC	001			1.25	BR	56	55	55	97	13	15	29.73	29.82			
04	CLR	NC			10.00	32	18	27	56	8	21	30.18	30.27	04	OVC	019			6.00	BR	56	56	56	100	12	15	29.66	29.75			
07	CLR	NC			10.00	34	19	29	54	12	22	30.21	30.30	07	OVC	018			9.00		58	58	58	100	10	14	29.61	29.70			
10	CLR	NC			10.00	40	21	33	47	13	23	30.28	30.37	10	OVC	020			9.00		59	59	59	100	13	15	29.59	29.67			
13	CLR	NC			10.00	51	23	40	33	8	21	30.23	30.32	13	OVC	018			4.00	-RA BR	60	59	59	96	15	15	29.50	29.59			
16	CLR	NC			10.00	52	24	41	34	8	22	30.23	30.32	16	CLR	NC			8.00	-RA	58	58	58	100	7	17	29.48	29.57			
19	CLR	NC			10.00	44	24	36	45	3	15	30.25	30.34	19	CLR	NC			10.00		65	60	62	84	15	20	29.52	29.61			
22	OVC	100			10.00	41	25	35	53	3	20	30.27	30.36	22	OVC	017			10.00		63	60	61	90	15	19	29.56	29.65			
					SUNRISE: 0723	JAN 03		SUNSET: 1651											SUNRISE: 0723	JAN 09		SUNSET: 1656									
01	OVC	110			10.00	40	29	36	65	5	16	30.24	30.33	01	OVC	049			10.00		62	59	60	90	12	19	29.55	29.63			
04	CLR	NC			10.00	37	27	33	67	5	16	30.23	30.31	04	OVC	014			7.00		56	55	55	97	10	15	29.53	29.62			
07	CLR	NC			10.00	37	27	33	67	0	00	30.23	30.32	07	VV	001			0.50	FG	53	53	53	100	8	16	29.51	29.59			
10	CLR	NC			10.00	46	24	37	42	7	21	30.24	30.33	10	SCT	NC			6.00	BR	54	54	54	100	16	16	29.50	29.58			
13	BKN	090			10.00	56	26	43	32	13	21	30.17	30.26	13	OVC	075			10.00		59	45	52	60	22	24	29.49	29.57			
16	OVC	100			10.00	54	31	44	42	3	24	30.17	30.26	16	BKN	060			10.00		57	41	49	55	15	25	29.59	29.68			
19	CLR	NC			10.00	48	32	41	54	3	19	30.18	30.27	19	FEW	NC			10.00		51	36	44	56	7	24	29.70	29.79			
22	OVC	110			10.00	44	32	39	63	3	23	30.18	30.27	22	CLR	NC			10.00		45	32	39	61	17	28	29.82	29.91			
					SUNRISE: 0723	JAN 04		SUNSET: 1652											SUNRISE: 0723	JAN 10		SUNSET: 1657									
01	OVC	100			10.00	47	32	41	56	5	25	30.18	30.27	01	CLR	NC			10.00		41	30	37	65	8	26	29.90	29.98			
04	BKN	100			10.00	45	32	40	61	3	21	30.20	30.28	04	CLR	NC			10.00		37	30	34	76	5	23	29.94	30.03			
07	CLR	NC			10.00	46	31	40	56	3	24	30.23	30.32	07	CLR	NC			10.00		35	29	33	78	3	25	29.99	30.08			
10	CLR	NC			10.00	53	31	43	43	6	23	30.30	30.38	10	CLR	NC			10.00		42	31	38	65	6	27	30.07	30.16			
13	CLR	NC			10.00	60	29	46	31	5	15	30.24	30.33	13	CLR	NC			10.00		48	31	41	52	8	28	30.03	30.11			
16	CLR	NC			10.00	58	30	46	35	6	15	30.25	30.34	16	CLR	NC			10.00		48	33	42	56	7	17	30.00	30.09			
19	CLR	NC			10.00	50	31	42	48	7	17	30.29	30.38	19	CLR	NC			10.00		43	32	38	65	3	22	30.03	30.12			
22	CLR	NC			10.00	45	32	40	61	6	14	30.30	30.38	22	CLR	NC			10.00		38	32	36	79	0	00	30.05	30.14			
					SUNRISE: 0723	JAN 05		SUNSET: 1652											SUNRISE: 0723	JAN 11		SUNSET: 1658									
01	CLR	NC			7.00	42	31	38	65	3	17	30.28	30.37	01	CLR	NC			7.00		32	30	31	92	5	31	30.04	30.13			
04	CLR	NC			5.00 HZ	40	31	36	70	6	06	30.28	30.37	04	CLR	NC			9.00		34	32	33	92	3	23	30.05	30.14			
07	CLR	NC			7.00	40	30	36	68	5	06	30.29	30.38	07	CLR	NC			5.00	BR	30	30	30	100	0	00	30.06	30.15			
10	CLR	NC			5.00 HZ	46	30	39	54	5	10	30.33	30.42	10	CLR	NC			7.00		39	35	37	86	3	20	30.09	30.18			
13	CLR	NC			6.00 HZ	54	31	44	42	0	00	30.23	30.32	13	CLR	NC			10.00		48	28	40	46	7	30	30.03	30.12			
16	CLR	NC			10.00	58	30	46	35	5	14	30.20	30.29	16	CLR	NC			10.00		48	29	40	48	7	27	30.02	30.10			
19	CLR	NC			10.00	49	32	42	52	0	00	30.21	30.29	19	CLR	NC			10.00		40	28	35	63	5	22	30.05	30.14			
22	CLR	NC			5.00 HZ	46	31	40	56	0	00	30.18	30.27	22	CLR	NC			10.00		36	29	33	76	5	31	30.08	30.17			
					SUNRISE: 0723	JAN 06		SUNSET: 1653											SUNRISE: 0722	JAN 12		SUNSET: 1659									
01	CLR	NC			2.00 BR	42	29	37	60	3	11	30.14	30.22	01	CLR	NC			10.00		32	21	28	64	7	30	30.09	30.19			
04	OVC	003			1.25 BR	46	29	39	51	5	13	30.10	30.18	04	CLR	NC			10.00		30	17	26	59	7	33	30.16	30.25			
07	VV	001			<.25 FG	47	30	40	52	5	17	30.08	30.17	07	CLR	NC			10.00		28	19	25	69	9	03	30.23	30.32			
10	OVC	001			2.50 HZ	56	11	40	17	8	20	30.09	30.18	10	CLR	NC			10.00		35	22	30	59							

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JANUARY 1998

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: 0722	JAN 13			SUNSET: 1700										SUNRISE: 0720	JAN 19									
01	OVC	031			10.00		40	38	39	93	7	14	30.13	30.22	01	OVC	060			8.00	35	33	34	93	5	07	29.96	30.05	
04	BKN	050			10.00		41	39	40	93	6	16	30.09	30.18	04	OVC	075			10.00	35	31	33	85	0	00	29.94	30.03	
07	OVC	075			7.00		41	39	40	93	6	16	30.03	30.12	07	OVC	050			10.00	35	31	33	85	0	00	29.94	30.03	
10	OVC	019			4.00	-RA BR	44	43	44	96	12	18	29.99	30.07	10	OVC	065			9.00	36	32	34	86	3	11	29.96	30.05	
13	OVC	007			6.00	BR	48	47	47	96	12	21	29.90	29.99	13	OVC	030			10.00	39	31	36	73	5	06	29.88	29.97	
16	OVC	050			10.00		47	41	44	80	8	30	29.96	30.05	16	OVC	049			10.00	39	30	35	70	3	VR	29.87	29.96	
19	CLR	NC			10.00		40	24	34	53	18	30	30.07	30.16	19	OVC	045			10.00	37	32	35	82	5	03	29.91	30.00	
22	CLR	NC			10.00		33	17	28	52	17	30	30.15	30.24	22	OVC	055			6.00 BR	35	33	34	93	7	30	29.88	29.97	
					SUNRISE: 0722	JAN 14			SUNSET: 1701										SUNRISE: 0719	JAN 20									
01	CLR	NC			10.00		30	13	25	49	18	31	30.19	30.28	01	OVC	055			7.00	34	33	34	97	6	35	29.86	29.96	
04	CLR	NC			10.00		27	10	22	49	14	31	30.28	30.37	04	OVC	065			5.00 BR	33	31	32	92	6	28	29.89	29.98	
07	CLR	NC			10.00		25	11	21	55	7	33	30.32	30.41	07	OVC	080			10.00	33	25	30	72	10	30	29.92	30.01	
10	CLR	NC			10.00		28	11	23	49	8	35	30.41	30.50	10	CLR	NC			10.00	35	23	31	61	16	31	29.95	30.04	
13	CLR	NC			10.00		32	9	25	38	5	28	30.37	30.46	13	BKN	040			10.00	37	22	32	54	16	32	29.93	30.02	
16	CLR	NC			10.00		34	9	27	35	6	29	30.35	30.44	16	CLR	NC			10.00	36	18	30	48	18	32	29.95	30.04	
19	CLR	NC			10.00		29	12	24	49	6	33	30.32	30.41	19	CLR	NC			10.00	32	20	28	61	9	31	30.03	30.12	
22	CLR	NC			10.00		27	12	23	53	5	07	30.32	30.41	22	CLR	NC			10.00	30	21	27	69	10	29	30.08	30.16	
					SUNRISE: 0721	JAN 15			SUNSET: 1703										SUNRISE: 0718	JAN 21									
01	CLR	NC			10.00		27	13	23	55	6	10	30.29	30.38	01	CLR	NC			10.00	29	22	27	75	9	29	30.09	30.19	
04	OVC	065			10.00		29	13	24	51	6	08	30.23	30.32	04	CLR	NC			10.00	29	18	25	64	3	30	30.12	30.21	
07	OVC	060			10.00		30	17	26	59	10	06	30.19	30.28	07	CLR	NC			10.00	27	18	24	69	6	25	30.19	30.28	
10	OVC	019			10.00		34	25	31	70	10	04	30.15	30.24	10	CLR	NC			10.00	32	19	28	59	12	33	30.21	30.30	
13	OVC	019			5.00	-RA BR	35	33	34	93	13	05	30.00	30.09	13	CLR	NC			10.00	35	19	30	52	7	31	30.16	30.25	
16	OVC	003			2.50	-RA BR	38	38	38	100	17	04	29.89	29.98	16	CLR	NC			10.00	35	20	30	54	7	31	30.15	30.24	
19	OVC	003			3.00	-RA BR	41	40	41	96	16	04	29.79	29.88	19	BKN	110			10.00	32	22	29	66	6	30	30.20	30.29	
22	OVC	005			7.00	-RA	45	44	45	97	16	03	29.65	29.74	22	OVC	110			10.00	31	22	28	69	5	28	30.20	30.29	
					SUNRISE: 0721	JAN 16			SUNSET: 1704										SUNRISE: 0718	JAN 22									
01	OVC	003			4.00	-RA BR	45	44	45	97	12	02	29.56	29.65	01	CLR	NC			10.00	30	21	27	69	3	30	30.20	30.29	
04	OVC	005			7.00		43	43	43	100	10	01	29.55	29.64	04	CLR	NC			8.00	28	22	26	78	3	30	30.23	30.32	
07	OVC	007			10.00		40	40	40	100	15	01	29.59	29.68	07	CLR	NC			8.00	27	23	26	85	5	29	30.26	30.35	
10	OVC	007			10.00		39	39	39	100	18	03	29.58	29.67	10	CLR	NC			10.00	33	23	30	67	7	09	30.32	30.41	
13	OVC	009			8.00		39	39	39	100	21	03	29.56	29.65	13	CLR	NC			10.00	38	22	32	53	7	04	30.28	30.37	
16	OVC	011			10.00		37	36	37	96	20	04	29.56	29.65	16	OVC	110			10.00	40	22	33	49	6	09	30.28	30.37	
19	OVC	013			10.00		35	34	35	96	21	02	29.61	29.70	19	OVC	031			10.00	37	27	33	67	12	11	30.31	30.40	
22	OVC	014			10.00		35	34	35	96	13	36	29.66	29.75	22	OVC	080			10.00	35	28	32	76	12	05	30.33	30.42	
					SUNRISE: 0721	JAN 17			SUNSET: 1705										SUNRISE: 0717	JAN 23									
01	OVC	020			10.00		35	34	35	96	9	32	29.71	29.80	01	OVC	048			7.00 -SN	34	31	33	89	12	06	30.27	30.36	
04	CLR	NC			10.00		32	30	31	92	5	30	29.75	29.84	04	OVC	038			5.00 -RA BR	34	31	33	89	20	06	30.19	30.28	
07	OVC	070			10.00		33	32	33	96	6	29	29.78	29.87	07	OVC	010			6.00 -RA	41	31	37	67	17	06	30.12	30.21	
10	OVC	070			10.00		39	36	38	89	0	00	29.84	29.93	10	OVC	008			6.00 -RA	43	31	38	63	18	08	30.06	30.16	
13	OVC	075			10.00		42	37	40	82	5	13	29.79	29.88	13	OVC	006			2.50 +RA	46	30	39	54	14	07	29.91	30.01	
16	OVC	027			10.00		41	36	39	82	9	16	29.79	29.88	16	OVC	002			1.25 +RA BR	47	31	40	54	6	35	29.80	29.89	
19	OVC	070			10.00		39	35	37	86	7	14	29.79	29.88	19	OVC	007			2.00 -RA BR	48	48	48	100	0	00	29.78	29.87	
22	OVC	024			10.00		38	35	37	89	7	14	29.80	29.89	22	OVC	003			0.75 -RA BR	48	47	47	96	0	00	29.78	29.87	
					SUNRISE: 0720	JAN 18			SUNSET: 1706										SUNRISE: 0717	JAN 24									
01	OVC	014			6.00	-RA BR	34	34	34	100	3	30	29.81	29.90	01	OVC	005			5.00 -RA BR	43	43	43	100	12	31	29.75	29.84	
04	OVC	030			10.00		35	34	35	96	7	02	29.82	29.91	04	BKN	008			10.00	41	39	40	93	7	01	29.73	29.81	
07	OVC	028			9.00		34	34	34	100	6	29	29.90	29.98	07	OVC	100			10.00	41	38	40	89	8	32	29.72	29.81	
10	OVC	024			4.00	BR	35	34	35	96	5	32	29.94	30.03	10	BKN	110			10.00	44	38	41						

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JANUARY 1998

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: 0716	JAN 25		SUNSET: 1714											SUNRISE: 0711	JAN 31		SUNSET: 1721							
01	OVC	018			9.00	33	29	32	85	17	30	29.67	29.76	01	OVC	042			10.00	36	27	33	70	8	27	29.77	29.86		
04	OVC	075			10.00	33	27	31	78	16	30	29.72	29.81	04	OVC	040			10.00	36	28	33	73	8	27	29.79	29.88		
07	OVC	044			10.00	34	26	31	73	14	30	29.82	29.91	07	OVC	036			10.00	37	27	33	67	8	32	29.84	29.93		
10	FEW	NC			10.00	36	23	31	59	15	30	29.92	30.01	10	OVC	036			10.00	38	26	33	62	10	32	29.91	30.00		
13	SCT	NC			10.00	38	22	32	53	21	30	29.98	30.07	13	SCT	NC			10.00	43	27	37	53	14	36	29.90	29.99		
16	BKN	040			10.00	37	21	31	52	15	29	30.04	30.13	16	CLR	NC			10.00	43	27	37	53	9	32	29.92	30.01		
19	CLR	NC			10.00	34	20	29	56	13	29	30.12	30.21	19	CLR	NC			10.00	37	25	33	62	9	33	30.00	30.09		
22	CLR	NC			10.00	32	20	28	61	8	30	30.17	30.27	22	CLR	NC			10.00	30	24	28	79	6	33	30.04	30.14		
					SUNRISE: 0715	JAN 26		SUNSET: 1715																					
01	CLR	NC			10.00	31	21	28	67	7	25	30.20	30.29																
04	CLR	NC			10.00	30	22	27	72	3	23	30.22	30.31																
07	CLR	NC			10.00	27	21	25	78	3	27	30.27	30.36																
10	CLR	NC			9.00	35	22	30	59	3	29	30.31	30.40																
13	CLR	NC			10.00	40	22	33	49	6	09	30.28	30.37																
16	SCT	NC			10.00	40	22	33	49	5	05	30.28	30.37																
19	CLR	NC			10.00	38	22	32	53	0	00	30.31	30.40																
22	CLR	NC			10.00	34	24	30	67	3	09	30.34	30.43																
					SUNRISE: 0714	JAN 27		SUNSET: 1716																					
01	SCT	NC			10.00	31	24	29	76	5	03	30.33	30.42																
04	FEW	NC			10.00	33	28	31	82	8	05	30.31	30.40																
07	OVC	030			10.00	34	28	32	79	12	05	30.30	30.39																
10	CLR	NC			10.00	38	31	35	76	12	07	30.25	30.34																
13	OVC	044			10.00	45	32	40	61	18	08	30.18	30.27																
16	OVC	046			10.00	43	34	39	71	20	07	30.12	30.21																
19	OVC	022			10.00	41	34	38	76	24	05	30.05	30.14																
22	OVC	020			10.00	39	34	37	82	20	05	29.98	30.07																
					SUNRISE: 0714	JAN 28		SUNSET: 1717																					
01	OVC	018			10.00	38	35	37	89	23	04	29.90	29.99																
04	OVC	013			6.00	36	34	35	93	25	03	29.78	29.87																
07	OVC	011			10.00	34	32	33	92	29	03	29.70	29.79																
10	OVC	019			8.00	34	31	33	89	23	02	29.67	29.76																
13	OVC	017			8.00	35	32	34	89	25	01	29.59	29.69																
16	BKN	043			10.00	34	32	33	92	18	35	29.59	29.68																
19	OVC	032			10.00	37	31	35	79	15	34	29.67	29.76																
22	CLR	NC			10.00	37	25	33	62	9	33	29.68	29.77																
					SUNRISE: 0713	JAN 29		SUNSET: 1719																					
01	CLR	NC			10.00	34	26	31	73	13	31	29.69	29.78																
04	CLR	NC			10.00	33	25	30	72	9	30	29.71	29.80																
07	CLR	NC			10.00	31	25	29	79	9	31	29.75	29.84																
10	CLR	NC			10.00	41	30	37	65	8	33	29.78	29.87																
13	CLR	NC			10.00	50	33	43	52	9	32	29.73	29.82																
16	CLR	NC			10.00	51	35	44	54	7	23	29.71	29.79																
19	CLR	NC			10.00	44	35	40	71	9	15	29.67	29.76																
22	FEW	NC			9.00	41	35	38	79	6	14	29.67	29.75																
					SUNRISE: 0712	JAN 30		SUNSET: 1720																					
01	BKN	100			7.00	37	35	36	93	0	00	29.63	29.72																
04	SCT	NC			7.00	36	34	35	93	3	30	29.60	29.69																
07	BKN	090			9.00	36	34	35	93	6	27	29.64	29.73																
10	OVC	028			10.00	42	35	39	76	12	28	29.68	29.77																
13	OVC	039			10.00	43	32	38	65	15	29	29.67	29.76																
16	OVC	038			10.00	42	31	37	65	14	31	29.68	29.78																
19	OVC	049			10.00	39	29	35	67	12	29	29.74	29.83																
22	FEW	NC			10.00	36	26	32	67	12	28	29.76	29.85																

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 Visibility = 8/8.
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.
NC= No ceiling detected.
& = Original observation contained additional weather elements.
See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			37	30	35	78	29.99	30.08	8.08	9	3	30
02			37	30	35	78	29.99	30.08	7.90	8	2	30
03			37	30	34	78	29.99	30.08	8.07	8	3	33
04			36	30	34	79	29.99	30.08	8.30	7	2	35
05			36	30	34	79	29.99	30.08	8.46	7	2	34
06			36	30	34	79	29.99	30.08	8.31	8	2	35
07			36	30	34	79	30.00	30.09	8.41	8	2	34
08			36	30	34	78	30.01	30.10	7.82	8	2	35
09			39	30	36	75	30.02	30.11	7.79	8	2	35
10			40	30	37	70	30.03	30.12	8.37	10	2	35
11			43	30	38	65	30.03	30.11	8.62	10	3	32
12			44	30	39	62	30.00	30.09	8.49	11	1	30
13			44	31	39	62	29.97	30.06	8.31	11	3	31
14			45	31	40	62	29.96	30.05	8.58	11	3	31
15			45	31	40	62	29.96	30.05	8.65	10	3	30
16			45	32	40	63	29.97	30.05	9.10	9	2	31
17			44	32	39	64	29.97	30.06	9.07	9	2	29
18			43	32	38	68	29.98	30.07	9.00	9	1	29
19			42	32	38	70	29.99	30.08	9.04	9	1	33
20			41	32	37	73	29.99	30.08	8.83	8	2	31
21			40	32	37	75	29.99	30.08	8.54	8	3	31
22			39	32	36	76	29.99	30.08	8.63	8	2	32
23			39	31	36	76	29.99	30.08	8.60	8	1	30
24			38	31	35	78	29.99	30.08	8.19	8	2	31

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 Visibility = 8/8.

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.

NC= No ceiling detected.

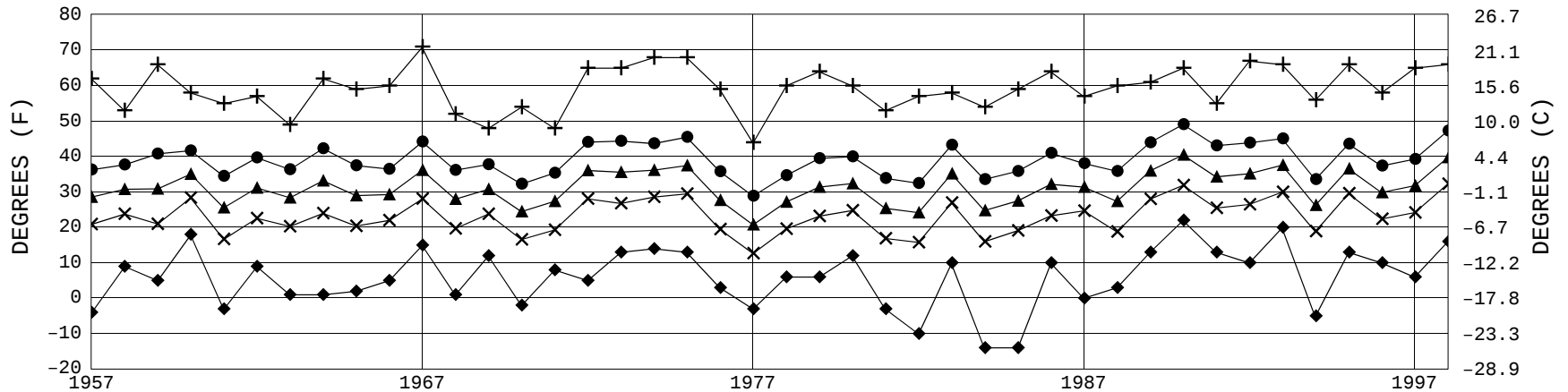
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			37	30	35	78	29.99	30.08	8.08	9	3	30
02			37	30	35	78	29.99	30.08	7.90	8	2	30
03			37	30	34	78	29.99	30.08	8.07	8	3	33
04			36	30	34	79	29.99	30.08	8.30	7	2	35
05			36	30	34	79	29.99	30.08	8.46	7	2	34
06			36	30	34	79	29.99	30.08	8.31	8	2	35
07			36	30	34	79	30.00	30.09	8.41	8	2	34
08			36	30	34	78	30.01	30.10	7.82	8	2	35
09			39	30	36	75	30.02	30.11	7.79	8	2	35
10			40	30	37	70	30.03	30.12	8.37	10	2	35
11			43	30	38	65	30.03	30.11	8.62	10	3	32
12			44	30	39	62	30.00	30.09	8.49	11	1	30
13			44	31	39	62	29.97	30.06	8.31	11	3	31
14			45	31	40	62	29.96	30.05	8.58	11	3	31
15			45	31	40	62	29.96	30.05	8.65	10	3	30
16			45	32	40	63	29.97	30.05	9.10	9	2	31
17			44	32	39	64	29.97	30.06	9.07	9	2	29
18			43	32	38	68	29.98	30.07	9.00	9	1	29
19			42	32	38	70	29.99	30.08	9.04	9	1	33
20			41	32	37	73	29.99	30.08	8.83	8	2	31
21			40	32	37	75	29.99	30.08	8.54	8	3	31
22			39	32	36	76	29.99	30.08	8.63	8	2	32
23			39	31	36	76	29.99	30.08	8.60	8	1	30
24			38	31	35	78	29.99	30.08	8.19	8	2	31

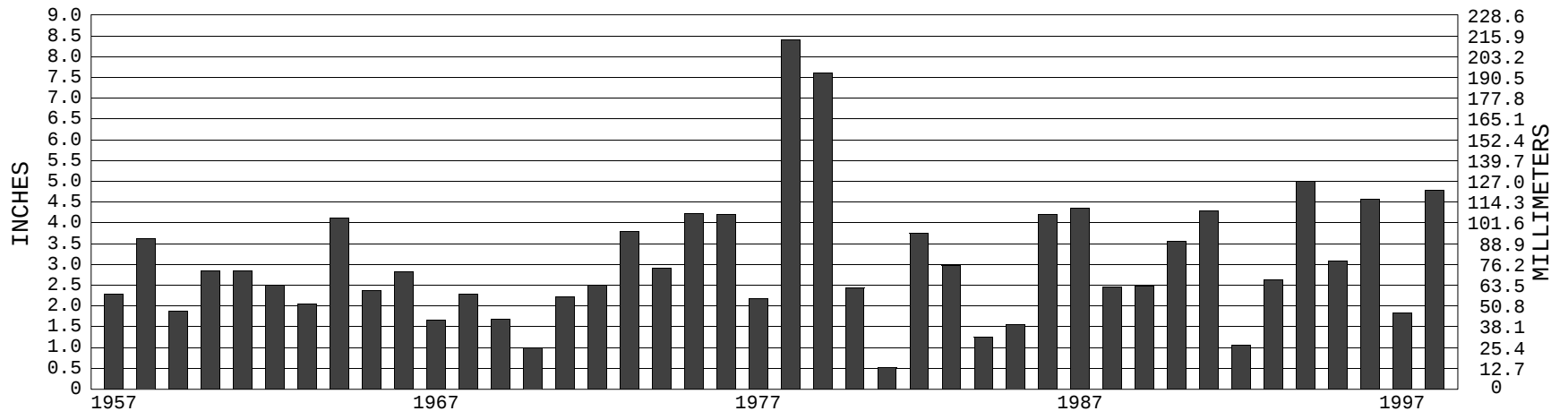
WILMINGTON, DE JANUARY TEMPERATURES



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

Long-Term (1957-1998) Mean: 31.2 1961-1990 Normal: 30.6

WILMINGTON, DE JANUARY PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 3.07

1961-1990 Normal: 3.03



**JANUARY 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
704-271-4800 (voice), 704-271-4876 (fax),
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