



JANUARY 1999

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																												
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																											
01	32	19	26	-6	11	21	39	0				0.00	30.21	30.30	9.4	29	11.4	31	30	25	30	01																											
02	26	13	20*	-12	8	15	45	0	RA SN FG+ FZFG BR			0.04	30.43	30.52	9.8	04	11.0	25	06	21	06	02																											
03	55	26	41	9	40	42	24	0	RA FZRA BR UP			1.44	29.66	29.75	1.6	29	16.4	61	22	51*	15	03																											
04	31	19	25	-6	9	21	40	0				0.00	30.03	30.12	13.3	28	13.5	26	22	26	04	04																											
05	27	16	22	-9	6	17	43	0				0.00	30.26	30.35	8.8	29	9.2	20	31	17	31	05																											
06	34	13*	24	-7	13	21	41	0				0.00	30.15	30.24	8.1	19	8.9	26	18	21	19	06																											
07	36	20	28	-3	13	26	37	0				0.00	30.18	30.27	10.7	28	12.4	26	28	22	29	07																											
08	31	21	26	-5	20	24	39	0	FZRA SN FG+ FZFG BR			0.37	30.25	30.34	3.8	05	6.5	16	08	13	07	08																											
09	41	28	35	4	31	33	30	0	RA FZRA FG+ BR			0.18	29.77	29.86	7.6	29	10.1	45	29	34	30	09																											
10	28	19	24	-7	13	21	41	0				0.00	30.03	30.12	6.0	28	9.3	24	29	20	31	10																											
11	26	19	23	-8	7	19	42	0				0.00	30.10	30.18	5.8	28	9.6	30	28	25	29	11																											
12	51	23	37	6	33	38	28	0				0.00	29.94	30.02	7.9	20	8.9	24	22	17	20	12																											
13	54	31	43	13	38	40	22	0	RA			0.01	30.04	30.12	2.8	02	7.1	31	05	25	05	13																											
14	31	23	27	-3	26	26	38	0	FZRA SN PL BR UP			0.10	30.26	30.35	18.6	04	18.1	33	04	28	05	14																											
15	36	26	31	1	29	31	34	0	RA FZRA BR			1.04	29.83	29.92			9.9	36	27	28	27	15																											
16	48	23	36	6	29	33	29	0				0.00	29.95	30.03	8.1	20	8.8	23	21	18	21	16																											
17	56	30	43	13	34	39	22	0				0.00	30.14	30.22	1.2	13	4.1	11	14	10	14	17																											
18	60	36	48	18	43	44	17	0	RA FG+ BR SQ			1.03	29.81	29.89	5.4	16	9.8	61*	23	46	27	18																											
19	50	33	42	12	27	36	23	0				0.00	29.90	29.98	7.9	25	8.5	26	24	23	24	19																											
20	49	34	42	12	35	39	23	0	RA BR			0.04	30.04	30.13	2.4	22	3.8	20	26	15	26	20																											
21	50	29	40	10	41	42	25	0	RA FG+ BR			0.05	30.02	30.11	7.0	04	7.6	20	05	16	06	21																											
22	47	42	45	15	45	45	20	0	RA DZ FG+ BR			0.03	30.18	30.26	10.5	05	10.6	22	04	18	04	22																											
23	65*	45	55*	25	51	51	10	0	RA FG+ BR			0.05	30.08	30.17	7.1	10	11.4	20	16	16	16	23																											
24	62	37	50	20	47	49	15	0	RA FG BR SQ			1.01	29.84	29.93	5.6	27	12.0	34	29	29	30	24																											
25	45	34	40	10	32	36	25	0	RA BR			0.02	30.11	30.20	7.7	28	8.1	18	28	15	28	25																											
26	46	32	39	9	30	35	26	0	BR			0.00	30.33	30.42	2.4	23	4.3	21	27	16	26	26																											
27	49	26	38	8	34	37	27	0	BR			0.00	30.03	30.12	1.3	16	3.1	13	36	11	01	27																											
28	50	33	42	11	39	41	23	0	BR HZ			0.00	29.88	29.97	5.2	04	6.2	16	04	14	04	28																											
29	46	28	37	6	27	35	28	0	BR			0.00	30.23	30.31	7.7	32	9.2	25	31	22	32	29																											
30	44	24	34	3	21	29	31	0				0.00	30.43	30.51	7.5	33	8.2	25	01	20	01	30																											
31	31	21	26	-5	7	21	39	0				0.00	30.68	30.77	7.3	03	9.1	23	06	21	02	31																											
										43.1		26.5		34.8		■ ■		27.1		32.5		29.9		0.0		< MONTHLY AVERAGES		TOTALS-->		5.41		30.09		30.18				9.3		<-- MONTHLY AVERAGES									
										4.4		4.1		4.2		■ ■		<----- DEPARTURE FROM NORMAL ----->										2.38		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.45 DATE: 02-03										SEA LEVEL PRESSURE DATE TIME																													
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: DATE: DATE:										MAXIMUM : 30.85 31 1104																													
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: DATE: DATE:										MINIMUM : 29.56 03 1344																													
HEATING: 926										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 23										PRECIPITATION ≥ 0.01 INCH: 14									
COOLING: 0																				MAXIMUM TEMP ≤ 32: 9										MINIMUM TEMP ≤ 0: 0										PRECIPITATION ≥ 0.10 INCH: 7									
																				THUNDERSTORMS: 0										HEAVY FOG: 7										SNOWFALL ≥ 1.0 INCH: :									

JANUARY 1999 WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

JANUARY 1999

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												T	02	0.01	T	T									02			0.04	
03	T	T	0.02	0.04	0.07	0.13	0.15	0.30	0.18	0.24	0.24	0.03	03	T										T	03			1.44	
04												0.07	04											T	04			0.00	
05													05												05			0.00	
06													06												06			0.00	
07													07												07			0.00	
08								T	T	0.01	0.05	0.07	0.05	08	0.04	0.01	0.02	0.01	0.03	T	T			0.01	0.04	0.02	0.36	0.37	
09	0.03	0.02	0.01	T									09	0.05	0.08													0.18	
10													10															0.00	
11													11															0.00	
12													12															0.00	
13													13															0.01	
14	T					T	T	T	T			T	14	0.01	T	0.03	T	T	T	T	0.02			T	T	0.01	T	0.07	0.10
15		0.11	0.03	T	0.16	0.13	0.12	0.20	0.12	0.08	0.02	0.01	15															0.98	1.04
16													16																0.00
17													17																0.00
18			T	0.11	0.23	0.16	0.06	0.07	0.02	0.01	0.07	T	18	T	0.01	0.02	0.24	0.03	T									1.03	
19													19																0.00
20										T	0.03	0.01	20	T														0.04	
21													21			0.01	0.01	0.02	0.01	T								0.05	
22											0.01		22											T				0.03	
23	T	T	0.01			0.02		0.01					23										T	0.01	0.02	T		0.05	
24	T	0.03	0.06	0.05	0.04	0.04	0.07	0.15	0.11	0.20	0.09	0.06	24	0.02	0.02	0.05	0.02	T									1.01		
25													25			0.01	0.01	T										0.02	
26													26															0.00	
27													27															0.00	
28													28															0.00	
29													29															0.00	
30													30															0.00	
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.

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JANUARY 1999

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		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		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	18	19	92	6	23	30.03	30.12	01	OVC	060		10.00		34	23	30	64	8	20	29.95	30.04
04	OVC	100	9.00		23	21	22	92	5	20	30.02	30.11	04	OVC	080		10.00		35	23	31	61	9	23	29.96	30.05
07	BKN	055	10.00		24	19	23	81	8	26	30.06	30.15	07	OVC	050		10.00		35	26	32	70	15	28	30.04	30.13
10	OVC	038	10.00		27	13	23	55	18	29	30.17	30.26	10	CLR	NC		10.00		34	17	28	50	18	30	30.16	30.25
13	SCT	NC	10.00		30	8	24	39	17	31	30.19	30.28	13	CLR	NC		10.00		33	3	25	28	16	30	30.20	30.29
16	CLR	NC	10.00		27	5	21	39	17	30	30.25	30.34	16	CLR	NC		10.00		33	0	24	24	18	26	30.24	30.33
19	CLR	NC	10.00		24	5	19	44	12	28	30.37	30.46	19	CLR	NC		10.00		25	4	20	40	7	29	30.33	30.42
22	CLR	NC	10.00		20	3	16	48	7	36	30.45	30.54	22	CLR	NC		10.00		20	7	17	57	7	30	30.39	30.48
			SUNRISE: 0723	JAN 02		SUNSET: 1650								SUNRISE: 0723	JAN 08		SUNSET: 1655									
01	CLR	NC	10.00		18	-3	14	39	6	36	30.50	30.59	01	FEW	NC		10.00		23	6	19	48	7	34	30.39	30.48
04	CLR	NC	10.00		23	0	10	56	9	36	30.55	30.64	04	OVC	070		10.00		24	8	20	50	6	36	30.41	30.50
07	FEW	NC	10.00		13	-3	10	49	9	01	30.54	30.63	07	OVC	020		3.00	-SN BR	22	19	21	89	7	05	30.44	30.53
10	BKN	060	10.00		16	-1	12	47	7	36	30.58	30.67	10	VV	003		0.25	+SN FZFG	21	21	21	100	6	08	30.41	30.50
13	BKN	011	1.50	-SN BR	16	12	15	84	13	05	30.47	30.56	13	OVC	007		1.00	-SN BR	24	24	24	100	9	03	30.25	30.35
16			10.00		18	14	17	84	10	06	30.40	30.49	16	OVC	006		2.00	-FZRA BR	28	28	28	100	8	06	30.14	30.23
19	OVC	055	10.00		20	13	18	74	13	06	30.33	30.42	19	OVC	004		1.00	BR	29	29	29	100	0	00	30.06	30.15
22	OVC	016	10.00	-RA	23	19	22	85	17	06	30.20	30.29	22	OVC	006		2.00	-RA					8	18	30.00	30.09
			SUNRISE: 0723	JAN 03		SUNSET: 1650								SUNRISE: 0723	JAN 09		SUNSET: 1656									
01	OVC	008	10.00		28	28	28	100	15	07	29.98	30.07	01	OVC	004		3.00	-FZRA BR	31	31	31	100	8	22	29.94	30.03
04	OVC	002	4.00	-RA BR					13	06	29.76	29.85	04	OVC	002		2.50	BR	32	32	32	100	6	15	29.82	29.91
07	OVC	019	5.00	RA BR	55	55	55	100	38	14	29.54	29.63	07	VV	001		0.25	FG	33	33	33	100	3	13	29.73	29.82
10	OVC	003	0.50	RA BR	53	53	53	100	9	10	29.53	29.62	10	VV	001		<.25	FG					3	21	29.67	29.76
13	OVC	034	10.00		49	49	49	100	15	30	29.47	29.57	13	OVC	001		<.25	RA FG	35	35	35	100	5	24	29.58	29.67
16	CLR	NC	10.00		48	41	45	77	16	29	29.56	29.65	16	OVC	045		10.00		38	35	37	89	23	30	29.65	29.74
19	CLR	NC	10.00		39	33	37	79	17	28	29.66	29.75	19	OVC	085		10.00		34	26	31	73	18	31	29.82	29.91
22	FEW	NC	10.00		33	24	30	70	12	29	29.77	29.85	22	OVC	100		10.00		31	22	28	69	13	30	29.91	30.00
			SUNRISE: 0723	JAN 04		SUNSET: 1651								SUNRISE: 0723	JAN 10		SUNSET: 1657									
01	SCT	NC	10.00		30	17	26	59	16	28	29.83	29.92	01	FEW	NC		10.00		27	17	24	66	15	30	29.97	30.06
04	CLR	NC	10.00		27	13	23	55	17	27	29.91	30.00	04	CLR	NC		10.00		23	15	21	72	15	31	30.00	30.09
07	CLR	NC	10.00		24	9	20	52	13	26	29.98	30.07	07	CLR	NC		10.00		20	12	18	71	9	31	30.07	30.16
10	CLR	NC	10.00		27	8	22	45	15	28	30.06	30.15	10	CLR	NC		10.00		24	12	21	60	10	32	30.12	30.21
13	CLR	NC	10.00		30	10	24	43	14	27	30.02	30.11	13	CLR	NC		10.00		26	12	22	55	9	31	30.08	30.17
16	CLR	NC	10.00		28	8	22	43	21	28	30.04	30.13	16	CLR	NC		10.00		26	10	22	51	6	26	30.02	30.11
19	CLR	NC	10.00		24	8	20	50	12	28	30.10	30.19	19	CLR	NC		10.00		23	12	20	63	7	19	30.00	30.09
22	CLR	NC	10.00		20	5	16	52	9	28	30.16	30.25	22	CLR	NC		10.00		22	12	19	66	6	18	29.96	30.05
			SUNRISE: 0723	JAN 05		SUNSET: 1652								SUNRISE: 0723	JAN 11		SUNSET: 1658									
01	CLR	NC	10.00		19	4	15	52	10	27	30.19	30.28	01	SCT	NC		10.00		21	13	19	71	3	25	29.94	30.03
04	CLR	NC	10.00		17	5	14	59	12	29	30.20	30.29	04	OVC	065		10.00		25	15	22	66	7	28	29.96	30.05
07	CLR	NC	10.00		17	5	14	59	10	29	30.24	30.33	07	CLR	NC		10.00		23	11	20	60	14	28	30.05	30.14
10	CLR	NC	10.00		22	6	18	50	9	31	30.29	30.38	10	CLR	NC		10.00		24	6	19	46	15	31	30.18	30.27
13	CLR	NC	10.00		26	6	21	42	13	30	30.24	30.33	13	CLR	NC		10.00		25	3	19	39	16	26	30.17	30.26
16	CLR	NC	10.00		26	6	21	42	10	31	30.24	30.33	16	CLR	NC		10.00		25	0	19	33	8	27	30.18	30.27
19	CLR	NC	10.00		21	7	17	54	6	27	30.29	30.38	19	BKN	060		10.00		23	3	18	42	5	10	30.15	30.24
22	CLR	NC	10.00		19	7	16	59	8	26	30.31	30.40	22	SCT	NC		10.00		23	6	19	48	7	12	30.09	30.18
			SUNRISE: 0723	JAN 06		SUNSET: 1653								SUNRISE: 0722	JAN 12		SUNSET: 1659									
01	CLR	NC	10.00		17	6	14	62	3	25	30.29	30.38	01	BKN	110		10.00		24	15	21	68	3	10	29.95	30.04
04	CLR	NC	10.00		15	5	13	64	6	26	30.27	30.36	04	OVC	095		10.00		39	31	36	73	12	20	29.88	29.97
07	CLR	NC	10.00		14	5	12	67	5	20	30.29	30.38	07	BKN	090		10.00		41	31	37	67	15	20	29.88	29.98
10	CLR	NC	10.00		23	11	20	60	14	17	30.23	30.32	10	OVC	080		10.00		43	32	38	65	12	21	29.92	30.01
13	BKN	055	10.00		31	16	26	54	15	18	30.11	30.20	13	CLR	NC		10.00		48	34	42	58	14	22	29.91	30.00
16	BKN	095	10.00		32	15	27	50	14	20	30.06	30.15	16	CLR	NC		10.00		50	37	44	61	7	19	29.94	30.02
19	OVC	050	10.00		31	18	27	59	10	18	30.04	30.14														

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JANUARY 1999

ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F			WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING		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		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG
SUNRISE: 0722							JAN 13			SUNSET: 1700					SUNRISE: 0720							JAN 19			SUNSET: 1707				
01	CLR	NC			10.00		36	36	36	100	5	15	29.96	30.05	01	SCT	NC			10.00	35	34	35	96	7	29	29.78	29.87	
04	OVC	100			9.00		37	37	37	100	0	00	29.95	30.03	04	CLR	NC			10.00	38	35	37	89	3	21	29.80	29.88	
07	CLR	NC			10.00		41	37	39	86	3	20	29.95	30.04	07	CLR	NC			10.00	34	33	34	97	6	22	29.85	29.94	
10	FEW	NC			10.00		42	40	41	92	0	00	29.98	30.07	10	CLR	NC			10.00	38	33	36	83	6	23	29.91	30.00	
13	CLR	NC			10.00		52	41	47	66	12	21	29.96	30.05	13	CLR	NC			10.00	49	25	39	39	15	26	29.89	29.97	
16	OVC	049			10.00		53	42	48	66	3	VR	30.00	30.09	16	CLR	NC			10.00	50	20	38	31	12	25	29.89	29.98	
19	OVC	045			10.00		40	38	39	93	14	36	30.14	30.22	19	CLR	NC			10.00	44	19	35	37	8	27	29.97	30.06	
22	OVC	015			9.00	-RA	34	33	34	97	23	05	30.23	30.32	22	SCT	NC			10.00	42	18	33	38	7	25	29.98	30.07	
SUNRISE: 0722							JAN 14			SUNSET: 1701					SUNRISE: 0719							JAN 20			SUNSET: 1708				
01	OVC	010			9.00		30	30	30	100	17	04	30.26	30.35	01	OVC	080			10.00	41	20	33	43	7	26	30.00	30.09	
04	OVC	010			8.00		25	25	25	100	15	05	30.29	30.38	04	OVC	042			10.00	44	30	38	58	9	25	30.04	30.12	
07	OVC	006			4.00	-FZRA BR	25	25	25	100	20	05	30.33	30.42	07	OVC	075			10.00	43	33	39	68	3	26	30.04	30.12	
10	OVC	010			5.00	BR	23	23	23	100	22	04	30.35	30.45	10	OVC	038			10.00	43	36	40	76	0	00	30.07	30.16	
13	OVC	011			1.50	FZRA BR	23	23	23	100	15	03	30.30	30.39	13	CLR	NC			9.00	45	43	44	93	3	VR	30.01	30.10	
16	OVC	006			4.00	-FZRA BR	27	27	27	100	21	04	30.24	30.34	16	OVC	080			10.00	47	44	46	90	6	15	30.01	30.10	
19	OVC	006			2.50	FZRA BR	28	28	28	100	20	03	30.22	30.31	19	FEW	NC			10.00	40	38	39	93	5	17	30.05	30.14	
22	OVC	004			5.00	-FZRA BR	28	28	28	100	20	03	30.13	30.22	22	CLR	NC			6.00	35	35	35	100	0	00	30.06	30.15	
SUNRISE: 0721							JAN 15			SUNSET: 1702					SUNRISE: 0719							JAN 21			SUNSET: 1709				
01	OVC	004			3.00	-FZRA BR	31	31	31	100			29.99	30.08	01	CLR	NC			5.00	33	33	33	100	3	36	30.05	30.14	
04	OVC	002			2.50	-FZRA BR	32	32	32	100			29.83	29.92	04	CLR	NC			6.00	32	32	32	100	5	36	30.03	30.12	
07	VV	001			0.75	RA BR	35	35	35	100	0	00	29.69	29.78	07	SCT	NC			4.00	35	35	35	100	8	04	30.05	30.14	
10	OVC	041			3.00	-RA BR	34	34	34	100	13	29	29.72	29.81	10	OVC	029			8.00	42	39	41	89	13	05	30.05	30.14	
13	OVC	048			10.00		34	31	33	89	18	28	29.74	29.83	13	OVC	018			10.00	49	43	46	80	8	07	30.00	30.09	
16	FEW	NC			10.00		34	28	32	79	20	28	29.80	29.89	16	OVC	016			7.00	48	48	48	100	9	03	29.98	30.07	
19	CLR	NC			10.00		30	20	27	66	15	27	29.90	29.99	19	OVC	008			5.00	47	47	47	100	10	06	29.98	30.07	
22	CLR	NC			10.00		27	21	25	78	6	24	29.96	30.05	22	OVC	002			0.50	46	46	46	100	7	04	30.02	30.11	
SUNRISE: 0721							JAN 16			SUNSET: 1703					SUNRISE: 0718							JAN 22			SUNSET: 1710				
01	CLR	NC			10.00		25	21	24	85	6	24	29.96	30.05	01	OVC	001			0.50	46	46	46	100	9	04	30.04	30.13	
04	CLR	NC			10.00		24	21	23	88	6	27	29.99	30.08	04	OVC	001			1.00	44	44	44	100	10	03	30.09	30.18	
07	CLR	NC			10.00		26	24	25	92	6	18	30.00	30.09	07	OVC	001			0.75	42	42	42	100	9	05	30.15	30.24	
10	FEW	NC			10.00		33	29	32	85	10	18	29.99	30.08	10	OVC	001			1.00	44	44	44	100	12	05	30.20	30.29	
13	CLR	NC			10.00		44	35	40	71	13	18	29.89	29.98	13	OVC	002			1.50	45	45	45	100	8	05	30.19	30.28	
16	CLR	NC			10.00		47	32	41	56	15	20	29.87	29.96	16	OVC	002			0.50	46	46	46	100	8	06	30.19	30.28	
19	CLR	NC			10.00		43	32	38	65	10	20	29.89	29.98	19	OVC	002			1.00	46	46	46	100	12	07	30.22	30.30	
22	CLR	NC			10.00		41	32	37	70	7	23	29.93	30.02	22	VV	001			0.50	45	45	45	100	12	04	30.23	30.31	
SUNRISE: 0721							JAN 17			SUNSET: 1704					SUNRISE: 0717							JAN 23			SUNSET: 1711				
01	CLR	NC			10.00		39	33	37	79	5	26	29.99	30.08	01	OVC	001			0.50	46	46	46	100	14	05	30.21	30.30	
04	CLR	NC			10.00		33	32	33	96	5	31	30.06	30.15	04	OVC	001			0.50	46	46	46	100	13	04	30.18	30.27	
07	CLR	NC			10.00		30	30	30	100	6	29	30.13	30.22	07	OVC	001			0.25	45	45	45	100	10	04	30.18	30.27	
10	CLR	NC			10.00		44	38	41	79	3	17	30.22	30.31	10	VV	001			<.25	48	48	48	100	10	05	30.17	30.26	
13	CLR	NC			10.00		55	32	45	42	5	06	30.17	30.26	13	OVC	001			0.50	54	54	54	100	8	04	30.09	30.18	
16	CLR	NC			10.00		54	32	44	43	6	12	30.16	30.25	16	CLR	NC			10.00	63	57	60	81	10	15	30.01	30.09	
19	CLR	NC			10.00		41	36	39	82	5	15	30.17	30.26	19	FEW	NC			10.00	54	54	54	100	13	16	29.98	30.07	
22	CLR	NC			10.00		42	36	39	79	5	10	30.14	30.22	22	OVC	042			7.00	53	53	53	100	14	16	29.93	30.01	
SUNRISE: 0720							JAN 18			SUNSET: 1706					SUNRISE: 0717							JAN 24			SUNSET: 1712				
01	CLR	NC			10.00		38	37	38	97	6	04	30.06	30.15	01	OVC	020			9.00	57	57	57	100	17	16	29.85	29.94	
04	OVC	030			2.00	+RA BR	41	41	41	100	7	06	30.01	30.10	04	OVC	060			6.00	61	60	60	97	12	16	29.81	29.90	
07	OVC	012			4.00	-RA BR	47	47	47	100	10	12	29.91	30.00	07	OVC	007			0.75	55	55	55	100	12	15	29.79	29.88	
10	VV	001			<.25	-RA FG	48	48	48	100	8	14	29.84	29.93	10	OVC	007			1.50	52	52	52	100	10	30	29.81	29.90	
13	OVC	003			2.50	-RA BR	50	50	50	100	21	15	29.64	29.73	13	OVC	075			10.00	55	53	54	93	6	26	29.76	29.85	
16	BKN	050			6.00	-RA BR	54	54	54	100	9	18	29.52	29.60	16	BKN	048			7.00	50	46	48	86	13	31	29.78	29.87	
19	CLR	NC			10.00		43	38	41	82	7	26	29.73	29.82	19	CLR	NC			10.00	45	35	41	68	17	29	29.89	29.98	
22	CLR	NC			10.00		36	35	36	97	6	16	29.76	29.85	22	CLR	NC			10.00	40	30	36	68	15	29	29.97	30.05	

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JANUARY 1999

ILG

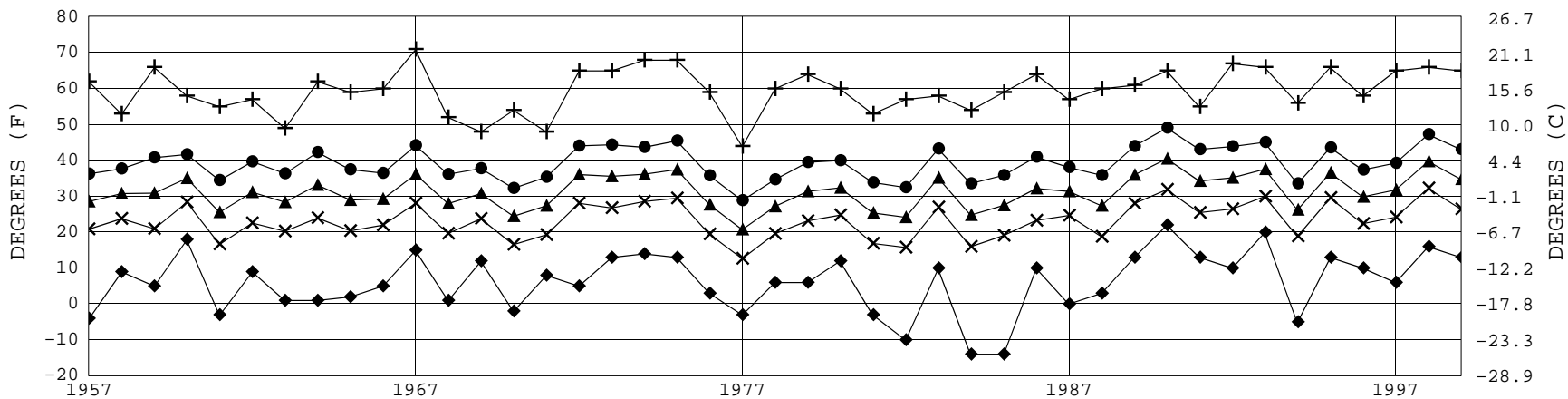
WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL										
SUNRISE: 0716								JAN 25				SUNSET: 1714				SUNRISE: 0711								JAN 31				SUNSET: 1721			
01	CLR	NC				10.00		38	29	34	70	12	27	29.98	30.07	01	CLR	NC				10.00		29	17	25	61	12	36	30.58	30.67
04	CLR	NC				10.00		36	28	33	73	8	26	30.04	30.12	04	CLR	NC				10.00		26	15	23	63	12	36	30.64	30.73
07	CLR	NC				10.00		36	29	33	76	7	28	30.08	30.16	07	CLR	NC				10.00		22	12	19	66	15	02	30.71	30.80
10	CLR	NC				10.00		42	31	38	65	7	31	30.06	30.14	10	CLR	NC				10.00		24	-1	18	33	15	05	30.76	30.85
13	OVC	100				10.00		43	30	38	60	14	28	30.08	30.16	13	CLR	NC				10.00		28	0	21	29	12	06	30.73	30.82
16	OVC	026				6.00	-RA BR	39	37	38	93	5	29	30.08	30.17	16	CLR	NC				10.00		31	1	23	28	7	05	30.70	30.79
19	SCT	NC				8.00		39	36	38	89	10	28	30.18	30.27	19	CLR	NC				10.00		28	2	21	32	0	00	30.67	30.76
22	SCT	NC				8.00		37	33	35	86	7	31	30.25	30.34	22	CLR	NC				10.00		23	9	19	55	6	24	30.65	30.74
SUNRISE: 0715								JAN 26				SUNSET: 1715				<h3>3-HOURLY OBSERVATION NOTES</h3> <p>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.</p>															
01	BKN	048				10.00		35	31	33	85	7	32	30.31	30.40																
04	OVC	044				10.00		35	32	34	89	0	00	30.33	30.42																
07	SCT	NC				9.00		34	31	33	89	3	14	30.37	30.46																
10	CLR	NC				7.00		39	31	36	73	3	VR	30.41	30.50																
13	BKN	044				10.00		44	25	37	47	7	25	30.33	30.42																
16	CLR	NC				10.00		46	27	38	47	7	26	30.29	30.37																
19	CLR	NC				10.00		37	33	35	86	7	17	30.29	30.38																
22	CLR	NC				7.00		35	34	35	96	0	00	30.27	30.36																
SUNRISE: 0715								JAN 27				SUNSET: 1716																			
01	CLR	NC				6.00	BR	31	29	30	92	3	30	30.24	30.33																
04	CLR	NC				5.00	BR	29	27	28	92	0	00	30.21	30.30																
07	CLR	NC				5.00	BR	28	27	28	96	0	00	30.19	30.28																
10	CLR	NC				4.00	BR	38	35	37	89	0	00	30.15	30.24																
13	CLR	NC				10.00		45	35	41	68	8	16	29.99	30.08																
16	CLR	NC				8.00		49	38	44	66	0	00	29.89	29.98																
19	CLR	NC				7.00		45	38	42	77	0	00	29.85	29.94																
22	OVC	090				7.00		44	40	42	85	6	35	29.84	29.93																
SUNRISE: 0714								JAN 28				SUNSET: 1717																			
01	SCT	NC				6.00	BR	41	38	40	89	5	02	29.82	29.91																
04	CLR	NC				4.00	BR	39	37	38	93	0	00	29.86	29.94																
07	FEW	NC				3.00	BR	33	33	33	100	6	35	29.88	29.97																
10	CLR	NC				3.00	BR	43	39	41	86	3	15	29.89	29.98																
13	CLR	NC				4.00	HZ	49	42	46	77	7	04	29.84	29.93																
16	SCT	NC				3.00	HZ	49	42	46	77	10	06	29.84	29.93																
19	BKN	070				5.00	HZ	46	40	43	79	8	05	29.88	29.97																
22	BKN	008				4.00	BR	42	41	42	96	14	03	29.95	30.03																
SUNRISE: 0713								JAN 29				SUNSET: 1718																			
01	SCT	NC				4.00	BR	40	38	39	93	5	34	30.00	30.09																
04	FEW	NC				8.00		39	32	36	76	10	31	30.07	30.16																
07	OVC	060				10.00		42	30	37	62	10	26	30.16	30.24																
10	CLR	NC				10.00		44	29	38	55	14	32	30.23	30.32																
13	CLR	NC				10.00		44	24	36	45	17	31	30.25	30.34																
16	FEW	NC				10.00		42	22	35	45	13	34	30.28	30.37																
19	CLR	NC				10.00		38	22	32	53	5	35	30.32	30.41																
22	CLR	NC				10.00		32	21	28	64	0	00	30.32	30.42																
SUNRISE: 0712								JAN 30				SUNSET: 1719																			
01	CLR	NC				10.00		30	22	27	72	5	29	30.34	30.44																
04	SCT	NC				10.00		26	22	25	84	5	36	30.35	30.44																
07	CLR	NC				10.00		26	18	24	71	5	28	30.39	30.48																
10	CLR	NC				10.00		35	20	30	54	3	33	30.44	30.53																
13	CLR	NC				10.00		41	21	34	45	10	31	30.40	30.49																
16	BKN	049				10.00		42	21	34	43	13	31	30.39	30.48																
19	BKN	055				10.00		36	21	31	55	7	33	30.47	30.55																
22	CLR	NC				10.00		33	20	29	59	13	36	30.54	30.63																

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)	DIRECTION	SPEED	DIRECTION
							STATION	SEA LEVEL					
01			32	26	30	80	30.08	30.17	8.26	8	2	32	
02			32	26	30	81	30.08	30.17	7.95	8	2	34	
03			32	26	30	82	30.08	30.17	7.67	7	2	32	
04			32	27	30	82	30.07	30.16	7.66	8	2	32	
05			32	27	30	82	30.07	30.16	7.65	8	1	32	
06			32	27	31	82	30.08	30.17	7.56	9	0	0	
07			32	27	31	83	30.09	30.18	7.09	9	1	26	
08			32	26	30	82	30.10	30.19	6.83	8	1	31	
09			33	26	31	77	30.11	30.20	6.89	9	2	30	
10			36	28	33	75	30.12	30.21	6.89	9	3	33	
11			37	28	34	71	30.11	30.20	7.32	10	2	30	
12			38	28	35	71	30.09	30.18	7.51	11	3	29	
13			39	28	35	67	30.06	30.15	7.79	12	4	29	
14			40	28	36	66	30.05	30.14	8.06	12	4	27	
15			41	29	36	66	30.05	30.14	8.23	12	4	28	
16			40	28	36	65	30.05	30.14	8.50	11	4	29	
17			38	27	34	68	30.07	30.15	8.53	10	3	30	
18			37	26	33	69	30.08	30.17	8.77	9	3	29	
19			36	26	33	71	30.09	30.18	8.69	9	2	29	
20			35	26	32	73	30.10	30.19	8.56	9	2	33	
21			34	26	32	75	30.11	30.20	8.46	9	2	31	
22			33	26	31	76	30.11	30.20	8.26	8	1	33	
23			33	26	31	77	30.11	30.20	8.26	9	2	33	
24			33	26	30	77	30.10	30.19	8.30	8	2	31	

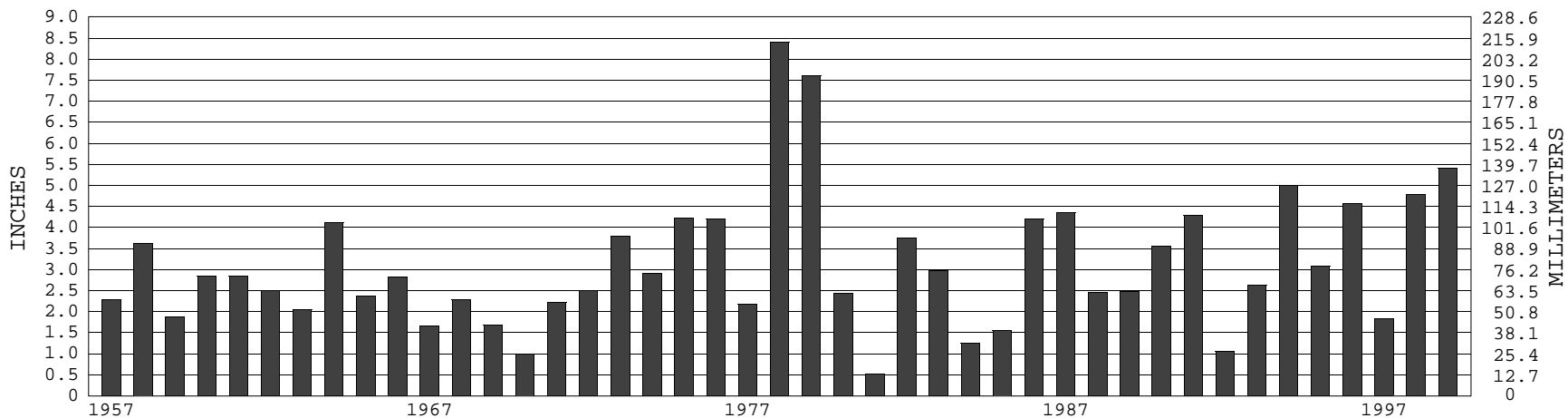
WILMINGTON, DE JANUARY TEMPERATURES



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

Long-Term (1957-1999) Mean: 31.3 1961-1990 Normal: 30.6

WILMINGTON, DE JANUARY PRECIPITATION



Long-Term (1957-1999) Mean Monthly Total: 3.13

1961-1990 Normal: 3.03



**JANUARY 1999
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.

DIRECTOR

NOTICE

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

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