



SEPTEMBER 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	82	62	72	0	57	64	0	7					0.00	29.82	29.90	2.3	02	6.3	20	04	16	04	01		
02	79	65	72	0	67	68	0	7	RA BR				0.43	29.68	29.76	3.5	16	7.4	26	31	22	31	02		
03	80	59	70	-2	61	65	0	5	BR HZ				0.00	29.75	29.84	1.1	15	3.8	14	14	10	14	03		
04	86	65	76	4	64	68	0	11	BR HZ				0.00	29.73	29.81	3.8	36	6.9	18	06	15	01	04		
05	81	59	70	-1	54	61	0	5	BR				0.00	29.99	30.07	5.7	30	6.1	20	30	17	28	05		
06	89	60	75	4	60	66	0	10	BR				0.00	29.88	29.97	8.1	23	8.8	20	24	16	21	06		
07	90	68	79	8	66	70	0	14	TSRA RA BR HZ				0.67	29.59	29.67	4.6	25	7.1	36*	30	30*	29	07		
08	73	57	65	-6	52	58	0	0	RA				0.01	29.56	29.64	12.0	30	12.2	26	31	23	31	08		
09	72	53	63	-7	47	54	2	0					0.00	29.77	29.85	11.8	29	12.1	31	29	28	29	09		
10	74	54	64	-6	47	55	1	0					0.00	29.94	30.03	9.0	30	10.0	25	31	21	30	10		
11	80	52	66	-4	52	59	0	1					0.00	29.92	30.00	5.3	28	6.9	18	24	14	24	11		
12	91	61	76	7	56	64	0	11	RA				T	29.78	29.87	7.1	27	7.5	21	30	17	29	12		
13	86	67	77	8	64	68	0	12	RA				T	29.88	29.96	1.3	09	6.9	16	15	15	16	13		
14	84	68	76	7	69	71	0	11	BR HZ				0.00	30.00	30.09	7.6	15	8.0	20	14	17	15	14		
15	89	69	79	10	69	72	0	14	BR HZ				0.00	29.99	30.07	7.5	19	7.8	22	19	17	20	15		
16	91	74	83*	15	69	73	0	18	BR HZ				0.00	29.92	30.01	3.7	29	6.5	17	05	15	04	16		
17	78	67	73	5	65	67	0	8	HZ				0.00	29.94	30.02	6.9	03	7.5	22	01	18	02	17		
18	81	65	73	6	64	67	0	8	BR HZ				0.00	29.96	30.05	4.4	06	7.5	16	05	14	06	18		
19	80	61	71	4	63	66	0	6	BR				0.00	29.93	30.02	2.7	09	5.5	14	13	11	13	19		
20	81	63	72	5	66	68	0	7	BR HZ				0.00	29.87	29.95	2.7	16	5.0	13	17	10	16	20		
21	90	68	79	13	68	71	0	14	RA BR HZ				0.04	29.79	29.87	6.4	20	6.9	20	22	16	21	21		
22	80	62	71	5	66	68	0	6	RA BR HZ				0.51	29.71	29.79	3.9	31	6.8	24	35	17	35	22		
23	68	47	58	-8	41	50	7	0					0.00	30.00	30.08	9.8	34	10.4	28	34	23	01	23		
24	70	43*	57*	-8	45	52	8	0					0.00	30.11	30.20	3.9	14	6.8	18	15	15	15	24		
25	68	60	64	-1	59	61	1	0	RA BR				0.09	30.04	30.13	2.5	18	3.1	13	18	9	13	25		
26	84	57	71	7	64	67	0	6	FG+ BR HZ				0.00	29.99	30.07	2.5	18	4.6	13	16	11	15	26		
27	91*	66	79	15	66	70	0	14	RA BR HZ				T	29.76	29.84	6.7	23	7.2	22	24	17	22	27		
28	81	60	71	8	56	63	0	6	TS RA BR HZ				0.01	29.79	29.87	9.5	31	10.3	28	31	22	29	28		
29	75	48	62	-1	47	55	3	0					0.00	29.93	30.02	1.3	27	5.2	14	24	11	24	29		
30	78	58	68	5			0	3	RA BR				T					7.6	21	17	17	16	30		
81.1 60.6 70.9 ■■										0.7	6.8	< MONTHLY AVERAGES		TOTALS-->	1.76			7.3	<-- MONTHLY AVERAGES						
3.4 2.4 2.9 ■■										<----- DEPARTURE FROM NORMAL ----->										-1.67				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3	
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.68				DATE: 07-08		SEA LEVEL PRESSURE				DATE TIME						
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL:				DATE:		MAXIMUM		: 30.26		24 0922						
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH:				DATE:		MINIMUM		: 29.53		08 0153						
HEATING: 22 -13									NUMBER OF DAYS WITH →		MAXIMUM TEMP ≥ 90: 5		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 7										
COOLING: 204 79											MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH : 3										
											THUNDERSTORMS : 2		HEAVY FOG : 1		SNOWFALL ≥ 1.0 INCH :										

SEPTEMBER 1998
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

SEPTEMBER 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						T	T	0.11	0.07	T			02									0.25	T			02			0.43
03													03												03			0.00	
04													04												04			0.00	
05													05												05			0.00	
06													06												06			0.00	
07													07										0.55	0.12	T	07			0.67
08		T	0.01										08													08			0.01
09													09													09			0.00
10													10													10			0.00
11													11													11			0.00
12													12									T	T		T	12			T
13	T												13													13			T
14													14													14			0.00
15													15													15			0.00
16													16													16			0.00
17													17													17			0.00
18													18													18			0.00
19													19													19			0.00
20													20													20			0.00
21													21									T	T	0.01	0.03	21			0.04
22	T			T	0.46	0.02	T	0.01	0.01			T	22	0.01		T	T									22			0.51
23													23													23			0.00
24													24													24			0.00
25							0.02	T			0.02	T	25	0.04	0.01		T									25			0.09
26													26													26			0.00
27													27										T			27			T
28	T	0.01											28											T		28			0.01
29													29													29			0.00
30									T				30													30			T

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:

SKY CONDITION
CLR PTLY CLDY CLOUDY MISSING
30

MINIMUM VISIBILITY (MILES)		
<=0.25	<=3.0	>=7.0
0	10	10

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

SEPTEMBER 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: 0530	SEP 01			SUNSET: 1834										SUNRISE: 0536	SEP 07									
01	BKN	090			10.00		69	59	63	70	5	35	29.85	29.93	01	CLR	NC			8.00	76	66	70	72	7	22	29.69	29.77	
04	CLR	NC			10.00		63	56	59	78	6	33	29.83	29.92	04	CLR	NC			7.00	72	65	68	79	7	21	29.66	29.74	
07	CLR	NC			10.00		68	57	62	68	6	34	29.85	29.94	07	CLR	NC			5.00	74	66	69	76	6	24	29.68	29.76	
10	CLR	NC			10.00		77	54	63	45	14	03	29.87	29.96	10	CLR	NC			8.00	87	66	73	50	9	24	29.62	29.70	
13	CLR	NC			10.00		81	54	65	39	7	05	29.82	29.91	13	FEW	NC			7.00	90	68	75	49	13	24	29.58	29.66	
16	FEW	NC			10.00		81	52	64	37	5	27	29.78	29.86	16	CLR	NC			10.00	84	64	71	51	6	33	29.53	29.62	
19	FEW	NC			10.00		77	54	63	45	5	18	29.76	29.85	19	OVC	120			10.00	78	69	72	74	3	16	29.50	29.59	
22	CLR	NC			10.00		71	67	68	87	6	14	29.76	29.85	22	OVC	020			3.00	69	67	68	93	5	30	29.52	29.61	
					SUNRISE: 0531	SEP 02			SUNSET: 1832										SUNRISE: 0537	SEP 08									
01	FEW	NC			10.00		69	66	67	90	0	00	29.74	29.83	01	OVC	020			7.00	68	68	68	100	6	27	29.45	29.53	
04	BKN	100			6.00	BR	66	64	65	93	0	00	29.70	29.79	04	OVC	065			10.00	64	60	62	87	8	29	29.49	29.57	
07	OVC	065			6.00	-RA BR	69	66	67	90	0	00	29.72	29.80	07	CLR	NC			10.00	62	55	58	78	10	30	29.54	29.62	
10	FEW	NC			10.00		71	66	68	84	7	16	29.71	29.80	10	FEW	NC			10.00	69	52	59	55	15	30	29.55	29.64	
13	SCT	NC			10.00		77	67	70	71	12	16	29.64	29.73	13	SCT	NC			10.00	71	46	57	41	14	31	29.56	29.65	
16	CLR	NC			10.00		79	69	72	72	14	15	29.59	29.68	16	CLR	NC			10.00	71	46	57	41	15	29	29.53	29.62	
19	CLR	NC			8.00		76	71	73	85	10	18	29.59	29.68	19	BKN	100			10.00	63	48	55	58	14	30	29.59	29.68	
22	BKN	120			4.00	BR	68	67	67	96	7	35	29.68	29.77	22	SCT	NC			10.00	59	49	54	69	10	29	29.64	29.72	
					SUNRISE: 0532	SEP 03			SUNSET: 1830										SUNRISE: 0538	SEP 09									
01	CLR	NC			8.00		63	61	62	93	5	33	29.71	29.80	01	CLR	NC			10.00	56	49	52	77	10	29	29.66	29.75	
04	CLR	NC			4.00	BR	62	60	61	93	0	00	29.73	29.81	04	CLR	NC			10.00	53	47	50	80	8	29	29.69	29.78	
07	CLR	NC			3.00	BR	63	61	62	93	5	30	29.78	29.87	07	CLR	NC			10.00	56	47	51	72	13	29	29.74	29.83	
10	CLR	NC			10.00		74	58	64	57	0	00	29.80	29.89	10	CLR	NC			10.00	65	48	56	54	17	29	29.76	29.85	
13	CLR	NC			10.00		78	57	65	48	7	14	29.77	29.86	13	BKN	060			10.00	71	47	58	42	18	29	29.76	29.85	
16	CLR	NC			10.00		78	61	67	56	9	13	29.72	29.81	16	SCT	NC			10.00	71	45	57	39	14	30	29.75	29.84	
19	CLR	NC			10.00		76	62	67	62	0	00	29.73	29.81	19	OVC	090			10.00	64	47	55	54	7	30	29.81	29.90	
22	BKN	100			10.00		73	63	67	71	5	08	29.74	29.83	22	OVC	070			10.00	62	49	55	62	5	34	29.87	29.96	
					SUNRISE: 0533	SEP 04			SUNSET: 1829										SUNRISE: 0539	SEP 10									
01	OVC	090			8.00		72	67	69	84	0	00	29.73	29.81	01	CLR	NC			10.00	58	49	53	72	5	27	29.89	29.98	
04	OVC	014			8.00		73	68	70	84	0	00	29.70	29.78	04	SCT	NC			10.00	56	48	52	75	9	29	29.91	30.00	
07	BKN	110			2.50	BR	71	69	70	94	6	35	29.71	29.80	07	CLR	NC			10.00	58	48	53	70	13	30	29.97	30.06	
10	FEW	NC			5.00	HZ	78	69	72	74	12	06	29.72	29.80	10	FEW	NC			10.00	67	47	56	49	17	33	29.98	30.07	
13	SCT	NC			9.00		85	63	71	48	9	05	29.68	29.76	13	FEW	NC			10.00	72	45	57	38	16	30	29.94	30.03	
16	BKN	090			9.00		85	62	70	46	6	VR	29.68	29.76	16	CLR	NC			10.00	73	44	57	36	14	29	29.90	29.99	
19	CLR	NC			10.00		76	59	66	56	10	31	29.74	29.83	19	CLR	NC			10.00	67	47	56	49	5	21	29.92	30.01	
22	CLR	NC			10.00		68	56	61	66	7	30	29.80	29.89	22	CLR	NC			10.00	58	50	54	75	7	29	29.95	30.03	
					SUNRISE: 0534	SEP 05			SUNSET: 1827										SUNRISE: 0540	SEP 11									
01	CLR	NC			10.00		65	56	60	73	8	30	29.85	29.94	01	CLR	NC			10.00	56	50	53	81	5	31	29.97	30.06	
04	CLR	NC			10.00		62	55	58	78	8	31	29.91	30.00	04	CLR	NC			10.00	55	49	52	80	6	26	29.97	30.05	
07	CLR	NC			7.00		64	57	60	78	0	00	30.00	30.09	07	CLR	NC			10.00	60	52	56	75	7	31	29.98	30.07	
10	CLR	NC			10.00		75	52	62	45	9	31	30.05	30.14	10	CLR	NC			10.00	73	52	61	48	8	31	29.98	30.07	
13	CLR	NC			10.00		77	52	62	42	9	27	30.02	30.11	13	CLR	NC			10.00	78	50	62	37	10	28	29.92	30.01	
16	CLR	NC			10.00		80	52	64	38	10	28	29.98	30.07	16	CLR	NC			10.00	79	52	63	39	9	22	29.85	29.94	
19	CLR	NC			10.00		75	53	62	46	3	26	30.00	30.09	19	CLR	NC			10.00	73	53	61	50	5	22	29.84	29.93	
22	CLR	NC			10.00		69	55	61	61	0	00	30.01	30.10	22	CLR	NC			10.00	68	54	60	61	0	00	29.86	29.94	
					SUNRISE: 0535	SEP 06			SUNSET: 1826										SUNRISE: 0540	SEP 12									
01	CLR	NC			9.00		63	60	61	90	6	26	30.01	30.10	01	CLR	NC			10.00	63	56	59	78	3	25	29.83	29.91	
04	CLR	NC			7.00		65	62	63	90	6	24	29.98	30.07	04	CLR	NC			10.00	62	56	59	81	5	26	29.81	29.90	
07	CLR	NC			8.00		66	60	62	81	6	27	29.99	30.08	07	CLR	NC			10.00	67	56	61	68	5	27	29.83	29.92	
10	CLR	NC			8.00		79	64	69	60	9	23	29.96	30.04	10	CLR	NC			10.00	81	56	66	42	10	28	29.80	29.89	
13	CLR	NC			10.00		88	52	66	29	12	23	29.87	29.95	13	CLR	NC			10.00	88	53	67	30	12	28	29.76	29.84	
16	CLR	NC			10.00																								

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

SEPTEMBER 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 Oktas		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 Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0541					SEP 13	SUNSET: 1814					SUNRISE: 0547					SEP 19	SUNSET: 1805												
01	CLR	NC			10.00	73	60	65	64	6	32	29.79	29.88	01	CLR	NC			10.00	64	61	62	90	6	05	29.97	30.06		
04	CLR	NC			10.00	70	60	64	71	3	32	29.82	29.90	04	CLR	NC			10.00	63	61	62	93	5	34	29.96	30.04		
07	CLR	NC			9.00	71	63	66	76	3	31	29.86	29.94	07	OVC	023			7.00	64	62	63	93	5	03	29.97	30.06		
10	FEW	NC			10.00	81	62	69	53	9	35	29.88	29.97	10	BKN	031			10.00	73	66	69	79	8	07	29.97	30.06		
13	FEW	NC			10.00	83	62	70	49	3	VR	29.88	29.97	13	SCT	NC			10.00	78	62	68	58	6	15	29.93	30.02		
16	FEW	NC			10.00	84	64	71	51	5	13	29.86	29.95	16	BKN	050			10.00	78	60	67	54	5	18	29.88	29.97		
19	CLR	NC			9.00	75	69	71	82	13	16	29.91	29.99	19	CLR	NC			10.00	73	67	69	81	7	17	29.87	29.96		
22	CLR	NC			9.00	71	68	69	90	8	12	29.95	30.03	22	CLR	NC			10.00	69	65	66	87	3	17	29.90	29.98		
SUNRISE: 0542					SEP 14	SUNSET: 1813					SUNRISE: 0548					SEP 20	SUNSET: 1803												
01	OVC	013			8.00	70	69	69	97	5	13	29.97	30.06	01	OVC	008			10.00	69	66	67	90	3	11	29.88	29.97		
04	OVC	006			5.00	69	68	68	96	3	19	29.98	30.06	04	OVC	012			7.00	67	65	66	93	3	34	29.87	29.96		
07	BKN	004			2.00	70	69	69	97	5	12	30.02	30.10	07	CLR	NC			4.00	66	65	65	96	0	00	29.90	29.99		
10	CLR	NC			8.00	76	68	71	77	8	15	30.02	30.11	10	CLR	NC			7.00	73	66	69	79	3	VR	29.91	30.00		
13	CLR	NC			9.00	83	69	74	63	10	15	29.99	30.07	13	BKN	047			7.00	79	67	71	67	5	VR	29.85	29.94		
16	CLR	NC			10.00	80	70	73	71	14	16	29.96	30.05	16	BKN	044			6.00	79	68	72	69	9	14	29.82	29.91		
19	CLR	NC			10.00	74	68	70	82	9	13	29.99	30.07	19	CLR	NC			6.00	75	67	70	76	6	18	29.82	29.91		
22	CLR	NC			10.00	74	67	69	79	8	15	30.02	30.11	22	CLR	NC			8.00	72	66	68	82	7	18	29.86	29.95		
SUNRISE: 0543					SEP 15	SUNSET: 1811					SUNRISE: 0549					SEP 21	SUNSET: 1801												
01	CLR	NC			10.00	71	66	68	84	5	17	30.03	30.11	01	CLR	NC			10.00	69	63	65	81	5	17	29.85	29.94		
04	CLR	NC			6.00	69	67	68	93	6	18	30.01	30.10	04	OVC	006			10.00	69	63	65	81	3	19	29.82	29.91		
07	CLR	NC			6.00	70	68	69	93	6	17	30.02	30.11	07	BKN	008			6.00	70	67	68	90	3	17	29.83	29.92		
10	CLR	NC			6.00	80	71	74	74	8	21	30.02	30.10	10	BKN	014			6.00	78	70	73	76	8	18	29.82	29.91		
13	CLR	NC			5.00	85	71	75	63	12	21	29.98	30.06	13	FEW	NC			7.00	86	69	74	57	12	22	29.77	29.85		
16	CLR	NC			6.00	87	68	74	53	10	20	29.94	30.02	16	FEW	NC			7.00	87	68	74	53	10	26	29.73	29.82		
19	CLR	NC			5.00	81	70	74	69	6	17	29.94	30.03	19	BKN	110			8.00	81	70	74	69	7	18	29.74	29.83		
22	CLR	NC			5.00	77	70	72	79	8	20	29.95	30.03	22	OVC	075			8.00	78	70	73	76	7	22	29.77	29.85		
SUNRISE: 0544					SEP 16	SUNSET: 1810					SUNRISE: 0550					SEP 22	SUNSET: 1760												
01	CLR	NC			4.00	74	71	72	91	6	19	29.93	30.01	01	BKN	100			4.00	74	72	73	94	0	00	29.75	29.83		
04	CLR	NC			3.00	74	71	72	91	5	21	29.92	30.01	04	OVC	010			2.50	74	73	73	97	7	17	29.71	29.80		
07	CLR	NC			1.75	74	72	73	94	5	26	29.95	30.04	07	OVC	049			5.00	70	68	69	93	5	18	29.71	29.79		
10	CLR	NC			8.00	87	68	74	53	10	29	29.95	30.03	10	OVC	025			8.00	74	69	71	85	9	21	29.70	29.78		
13	CLR	NC			8.00	90	66	74	45	9	27	29.91	30.00	13	BKN	055			7.00	78	70	73	76	7	25	29.66	29.74		
16	CLR	NC			7.00	88	67	74	50	9	30	29.88	29.97	16	CLR	NC			10.00	72	65	68	79	13	35	29.63	29.72		
19	FEW	NC			9.00	82	69	73	65	8	35	29.89	29.97	19	CLR	NC			10.00	68	61	64	78	8	33	29.70	29.79		
22	SCT	NC			10.00	78	69	72	74	5	04	29.92	30.01	22	CLR	NC			10.00	63	60	61	90	7	32	29.75	29.84		
SUNRISE: 0545					SEP 17	SUNSET: 1808					SUNRISE: 0551					SEP 23	SUNSET: 1758												
01	SCT	NC			7.00	74	70	71	88	9	05	29.93	30.01	01	CLR	NC			10.00	60	51	55	72	10	35	29.82	29.91		
04	BKN	009			7.00	71	69	70	94	7	01	29.92	30.00	04	CLR	NC			10.00	57	48	52	72	8	32	29.89	29.98		
07	SCT	NC			10.00	68	59	63	73	7	03	29.94	30.03	07	CLR	NC			10.00	56	42	49	60	9	35	29.97	30.06		
10	OVC	011			10.00	72	61	65	69	10	04	29.95	30.04	10	CLR	NC			10.00	62	35	49	37	20	36	30.03	30.11		
13	OVC	019			5.00	76	66	70	72	7	01	29.94	30.03	13	CLR	NC			10.00	67	36	52	32	18	33	30.02	30.11		
16	FEW	NC			6.00	76	65	69	69	10	04	29.92	30.00	16	CLR	NC			10.00	66	35	51	32	13	30	30.01	30.10		
19	FEW	NC			8.00	72	65	68	79	8	36	29.92	30.00	19	CLR	NC			10.00	56	40	48	55	7	31	30.05	30.14		
22	BKN	095			9.00	69	64	66	84	7	36	29.94	30.03	22	CLR	NC			10.00	53	42	48	66	3	32	30.08	30.17		
SUNRISE: 0546					SEP 18	SUNSET: 1806					SUNRISE: 0552					SEP 24	SUNSET: 1756												
01	FEW	NC			7.00	66	63	64	90	5	33	29.94	30.03	01	CLR	NC			10.00	47	43	45	86	6	33	30.12	30.20		
04	OVC	025			8.00	68	64	66	87	5	34	29.93	30.02	04	CLR	NC			10.00	47	43	45	86	3	31	30.13	30.21		
07	BKN	016			7.00	67	62	64	84	3	35	29.97	30.05	07	CLR	NC			10.00	48	44	46	86	3	31	30.16	30.25		
10	OVC	011			5.00	72	65	68	79	9	03	29.98	30.07	10	CLR	NC			10.00	63	38	51	40	6	VR	30.16	30.25		
13	BKN	043			5.00	79	67	71	67	6	VR	29.96	30.05	13	CLR	NC			10.00	68	43	55	41	9	12	30.11	30.20		
16	SCT	NC			10.00	78	67	71	69	12	16	29.93	30.02	16	CLR	NC			10.00	69	43	55	39	12	14	30.06	30.14		
19	OVC	041			10.00	74	63	67	69	10	10	29.95	30.04	19	CLR	NC			10.00	64	51	57	63	7	15	30.07	30.16		
22	CLR	NC			10.00	67	62	64	84	7	06	29.98	30.07	22	CLR	NC			10.00	62	50	56	65	5	16	30.08	30.17		

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

SEPTEMBER 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		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		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
					SUNRISE: 0553	SEP 25		SUNSET: 1755																			
01	BKN	120				60	50	55	70	6	17	30.07	30.16														
04	FEW	NC				61	53	57	75	6	17	30.05	30.14														
07	OVC	032			-RA	60	58	59	93	0	00	30.05	30.14														
10	OVC	100				64	59	61	84	5	23	30.08	30.16														
13	OVC	060			-RA	66	63	64	90	5	20	30.04	30.13														
16	OVC	065				67	63	64	87	3	17	30.01	30.10														
19	OVC	100				66	62	64	87	0	00	30.01	30.09														
22	BKN	065			4.00 BR	65	63	64	93	0	00	30.02	30.11														
					SUNRISE: 0554	SEP 26		SUNSET: 1753																			
01	CLR	NC			2.50 BR	62	62	62	100	0	00	30.01	30.10														
04	CLR	NC			1.25 BR	59	59	59	100	0	00	30.00	30.09														
07	CLR	NC			1.25 BR	60	59	59	96	6	36	30.03	30.11														
10	CLR	NC			5.00 HZ	73	62	66	69	5	VR	30.05	30.14														
13	CLR	NC			6.00 HZ	81	67	72	62	6	15	30.01	30.10														
16	CLR	NC			8.00	83	66	72	57	8	23	29.96	30.04														
19	CLR	NC			5.00 BR	74	70	71	88	8	15	29.94	30.02														
22	CLR	NC			4.00 BR	71	68	69	90	6	18	29.91	30.00														
					SUNRISE: 0555	SEP 27		SUNSET: 1752																			
01	CLR	NC			5.00 HZ	70	65	67	84	0	00	29.89	29.97														
04	CLR	NC			3.00 BR	68	65	66	90	0	00	29.84	29.93														
07	CLR	NC			1.50 BR	68	66	67	93	0	00	29.85	29.94														
10	CLR	NC			6.00 HZ	83	69	74	63	8	22	29.81	29.90														
13	CLR	NC			7.00	89	68	75	50	10	23	29.73	29.82														
16	CLR	NC			10.00	91	64	73	41	10	22	29.65	29.74														
19	CLR	NC			9.00	81	64	70	57	6	22	29.65	29.74														
22	OVC	075			10.00 -RA	78	64	69	62	12	27	29.68	29.76														
					SUNRISE: 0556	SEP 28		SUNSET: 1750																			
01	SCT	NC			10.00 -RA	75	65	69	71	13	28	29.68	29.76														
04	CLR	NC			6.00 BR	70	66	67	87	8	29	29.69	29.78														
07	CLR	NC			2.50 BR	69	67	68	93	7	30	29.75	29.84														
10	CLR	NC			10.00	76	55	63	48	15	33	29.80	29.88														
13	FEW	NC			10.00	80	54	64	41	12	30	29.76	29.85														
16	FEW	NC			10.00	79	50	62	36	15	28	29.76	29.85														
19	CLR	NC			10.00	68	48	57	49	7	34	29.83	29.92														
22	CLR	NC			10.00	61	48	54	63	9	36	29.89	29.98														
					SUNRISE: 0556	SEP 29		SUNSET: 1748																			
01	CLR	NC			10.00	59	46	52	62	6	36	29.94	30.03														
04	CLR	NC			10.00	49	47	48	93	6	32	29.95	30.03														
07	CLR	NC			10.00	53	48	50	83	7	31	29.98	30.07														
10	CLR	NC			10.00	67	42	54	41	0	00	29.98	30.07														
13	CLR	NC			10.00	72	44	57	37	5	27	29.92	30.01														
16	CLR	NC			10.00	74	46	59	37	3	VR	29.88	29.96														
19	CLR	NC			10.00	67	50	58	55	3	23	29.89	29.98														
22	CLR	NC			10.00	63	49	55	60	7	19	29.90	29.99														
					SUNRISE: 0557	SEP 30		SUNSET: 1747																			
01	CLR	NC			10.00	60	53	56	78	0	00	29.85	29.94														
04	BKN	037			10.00	64	59	61	84	7	17	29.83	29.91														
07	OVC	019			10.00	67	62	64	84	10	17	29.84	29.93														
10	OVC	011			10.00	69	65	66	87	5	18	29.84	29.93														
13	SCT	NC			10.00	76	67	70	74	14	14	29.77	29.85														
16																											
19	FEW	NC			9.00	73	69	70	87	7	15	29.74	29.82														
22																											

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.

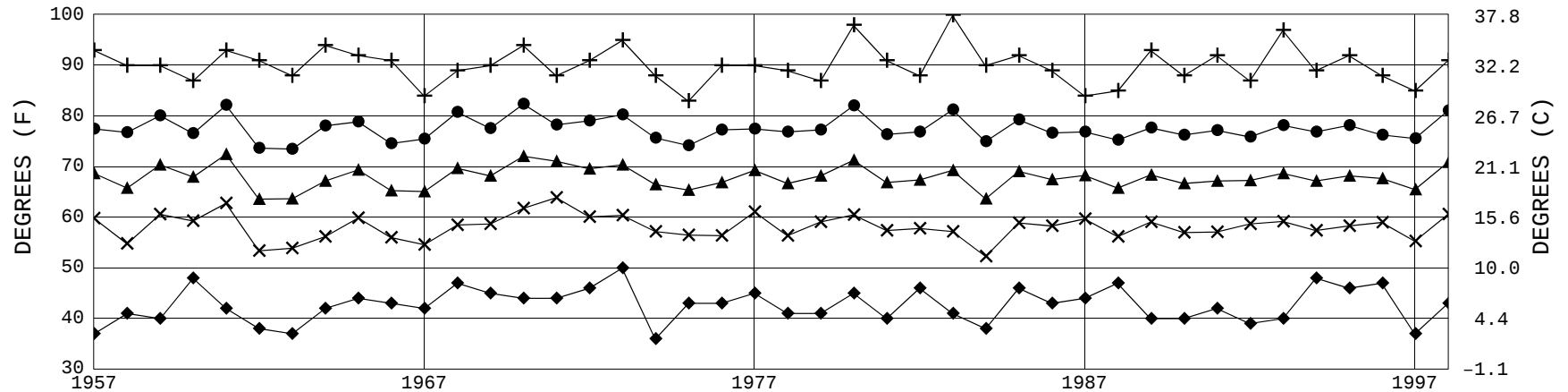
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No ceiling detected.

& = 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			66	60	62	82	29.86	29.95	8.58	5	2	30
02			65	60	62	84	29.86	29.94	8.24	5	2	30
03			64	60	61	86	29.86	29.94	7.93	5	3	30
04			64	60	62	86	29.86	29.94	7.69	5	3	28
05			63	60	61	88	29.86	29.95	7.45	6	3	30
06			63	59	61	87	29.87	29.96	7.00	5	3	29
07			65	60	62	84	29.89	29.97	6.82	5	3	30
08			68	60	64	76	29.89	29.98	7.09	7	3	31
09			71	60	64	68	29.90	29.98	8.27	9	3	32
10			74	59	65	62	29.89	29.98	8.67	9	3	31
11			76	59	66	58	29.88	29.97	8.80	9	2	28
12			78	59	67	55	29.87	29.95	8.73	9	3	27
13			79	59	67	52	29.85	29.94	8.63	9	4	25
14			80	59	67	51	29.84	29.92	8.80	11	3	26
15			80	58	67	49	29.82	29.91	8.90	11	4	24
16			79	58	66	50	29.82	29.90	9.24	10	4	24
17			78	59	67	54	29.82	29.90	9.13	9	3	21
18			75	59	66	59	29.82	29.91	8.90	7	2	20
19			73	60	65	65	29.83	29.92	9.17	7	2	20
20			72	61	65	69	29.85	29.93	9.03	6	2	20
21			70	60	64	73	29.86	29.94	8.97	6	1	23
22			69	60	64	75	29.86	29.95	8.76	6	1	26
23			68	60	63	77	29.86	29.94	8.67	5	1	27
24			67	60	63	79	29.86	29.94	8.97	5	2	26

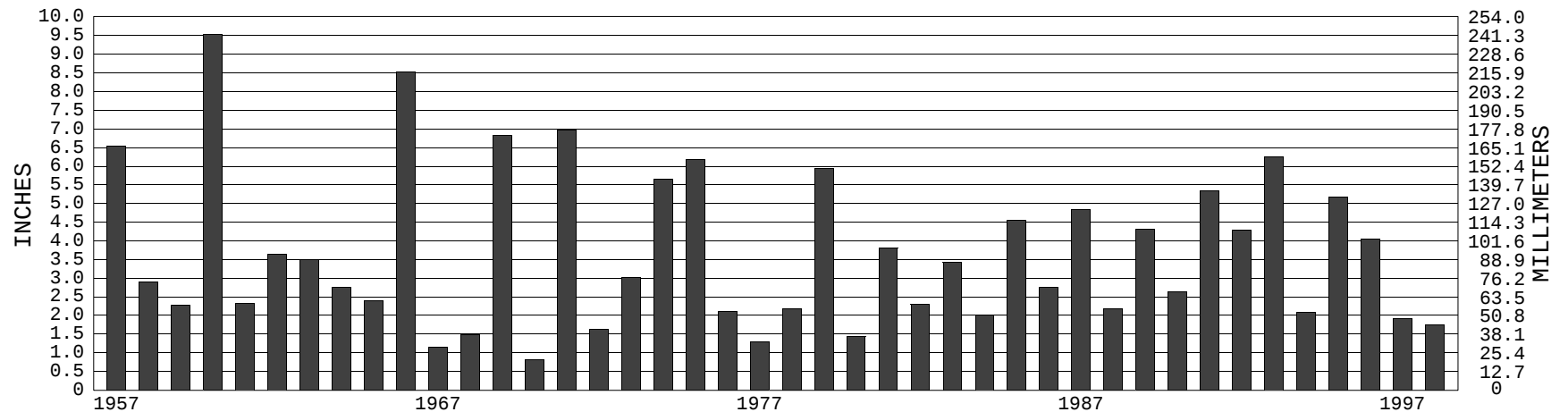
WILMINGTON, DE SEPTEMBER TEMPERATURES



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

Long-Term (1957-1998) Mean: 67.9 1961-1990 Normal: 68.0

WILMINGTON, DE SEPTEMBER PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 3.69

1961-1990 Normal: 3.43



**SEPTEMBER 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.

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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