



OCTOBER 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															
	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				DATE								
																			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	69	45	57	-5	46	52	8	0					0.00	29.97	30.05	5.6	23	6.4	20	26	14	21	01								
02	74	50	62	0	54	58	3	0					0.00	30.08	30.17	6.2	16	6.7	23	14	20	15	02								
03	77*	54	66*	5	58	61	0	1	BR				0.00	30.12	30.21	0.8	12	4.3	14	06	11	06	03								
04	68	51	60	-1	61	62	5	0	TSRA RA BR				1.23	29.96	30.04	3.6	21	8.1	30	24	20	24	04								
05	54	40	47	-13	43	47	18	0	RA				0.01	30.03	30.11	8.4	33	8.9	14	30	14	30	05								
06	67	38	53	-7	43	48	12	0	HZ FU				0.00	30.04		5.8	27	8.3	15	28	15	28	06								
07	56	36	46*	-13	33	41	19	0					0.00	30.31	30.40	5.6	34	6.7	20	01	15	34	07								
08	63	36	50	-9	43	47	15	0					0.00	30.34	30.42	5.4	15	7.1	20	15	17	14	08								
09	71	54	63	4	57	59	2	0	RA BR				0.03	30.15	30.24	5.4	21	5.9	16	22	14	22	09								
10	67	61	64	6	63	64	1	0	RA BR HZ				0.76	29.97	30.06	7.2	18	8.4	28	17	20	18	10								
11	73	51	62	4	51	58	3	0	BR HZ				0.00	30.01	30.10	6.9	32	8.3	24	35	21	31	11								
12	66	43	55	-3	41	49	10	0					0.00	30.24	30.33	0.7	24	4.8	13	01	10	15	12								
13	73	43	58	1	53	56	7	0					0.00	29.94	30.02	7.8	18	8.7	25	22	21	22	13								
14	66	41	54	-2	38	46	11	0	RA				T	29.90	29.99	14.9	29	16.5	46*	26	36*	27	14								
15	60	36	48	-8	39	45	17	0					0.00	30.22	30.30	3.0	13	6.0	17	15	15	16	15								
16	71	42	57	1	52	55	8	0	BR				0.00	30.12	30.21	2.8	16	4.8	18	17	16	16	16								
17	67	55	61	5	60	60	4	0	RA FG+ BR HZ				0.29	29.82	29.90	3.0	35	3.6	14	34	10	34	17								
18	63	43	53	-2	42	49	12	0	RA BR				0.02	29.82	29.90	14.0	34	14.2	37	31	29	31	18								
19	57	38	48	-7	42	46	17	0					0.00	30.25	30.33	6.5	04	7.8	16	05	15	04	19								
20	54	48	51	-4	50	51	14	0	RA BR				0.75	30.09	30.17	4.7	31	5.7	10	30	9	32	20								
21	59	40	50	-4	41	45	15	0	BR				0.00	30.00	30.08	3.2	29	4.6	13	33	10	32	21								
22	62	38	50	-4	45	48	15	0	RA BR HZ				0.32	29.62	29.71	4.9	16	7.4	24	14	21	15	22								
23	55	41	48	-6	37	43	17	0	RA BR				0.01	29.56	29.64	10.4	26	10.7	28	28	23	28	23								
24	56	37	47	-6	36	42	18	0					0.00	29.85	29.93	9.9	29	11.3	24	30	21	30	24								
25	55	39	47	-6	36	42	18	0					0.00	30.10	30.19	6.5	23	7.2	18	29	15	29	25								
26	65	42	54	1	43	48	11	0					0.00	30.00	30.08	6.2	21	6.7	18	22	15	19	26								
27	61	40	51	-1	38	45	14	0					0.00	30.12	30.20	7.7	33	8.6	22	01	18	01	27								
28	57	36*	47	-5	38	43	18	0					0.00	30.29	30.38	1.1	35	4.4	13	07	10	07	28								
29	67	39	53	1	29	42	12	0	HZ				0.00	30.26	30.34	2.8	23	3.3	13	23	11	24	29								
30	67	42	55	4	48	51	10	0	FG+ BR HZ				0.00	30.32	30.41	3.8	16	4.6	16	15	14	15	30								
31	68	50	59	8	55	57	6	0	FG+ BR HZ				0.00	30.19	30.27	3.1	22	3.9	13	23	11	22	31								
64.1 43.5 53.8 ■■										45.7 50.3 11.0 0.0		< MONTHLY AVERAGES		TOTALS-->					3.42	30.05		<-- MONTHLY AVERAGES									
-2.5 -2.2 -2.4 ■■										<----- DEPARTURE FROM NORMAL ----->										0.54		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.24				DATE: 04-05				SEA LEVEL PRESSURE				DATE TIME										
MONTHLY TOTAL DEPARTURE 340 52									GREATEST 24-HR SNOWFALL: DATE:				MAXIMUM : 30.50 08 0851																		
SEASON TO DATE TOTAL DEPARTURE 377 54									GREATEST SNOW DEPTH: DATE:				MINIMUM : 29.54 23 0351																		
HEATING: 340 52									NUMBER OF DAYS WITH ➡				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 0				PRECIPITATION ≥ 0.01 INCH : 9										
COOLING: 1 -14													MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 5										
													THUNDERSTORMS : 1				HEAVY FOG : 3				SNOWFALL ≥ 1.0 INCH :										

OCTOBER 1999
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

OCTOBER 1999

ILG

WBAN # 13781

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water Equiv.	
01													01												01			0.00	
02													02												02			0.00	
03													03												03			0.00	
04						0.01	0.15	0.09	T	T	T		04		T		0.07	0.04	T	0.01	0.05	0.46	0.05	0.30	04			1.23	
05	0.01	T											05												05			0.01	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09				T	T	T	T		T	0.01	0.02	09			0.03	
10	0.03	0.03	0.05	0.03	0.01	0.05	0.08	0.14	0.12	0.12	0.07	0.03	10	T	T	T									10			0.76	
11													11												11			0.00	
12													12												12			0.00	
13													13												13			0.00	
14	T												14												14			T	
15													15												15			0.00	
16													16												16			0.00	
17								0.01					17			0.03	0.04	0.02	0.03	0.04	0.06	0.02	0.01	0.02	T	17			0.29
18	T		0.01	T	0.01								18												18			0.02	
19													19												19			0.00	
20	T	T	0.01	0.01	0.16	0.13	0.08	0.03	0.04	0.14	0.08	0.05	20	0.01	0.01	T	T							20			0.75		
21													21												21			0.00	
22													22						0.01	0.03	0.11	0.03	0.09	0.03	0.02	22			0.32
23	T	0.01											23												23			0.01	
24													24												24			0.00	
25													25												25			0.00	
26													26												26			0.00	
27													27												27			0.00	
28													28												28			0.00	
29													29												29			0.00	
30													30												30			0.00	
31													31												31			0.00	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

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 : 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
31

MINIMUM VISIBILITY (MILES)		
<=0.25	<=3.0	>=7.0
3	11	16

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

OCTOBER 1999

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		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		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																
				VISIBILITY (MILES)																																							
SUNRISE: 0558						OCT 01						SUNSET: 1745						SUNRISE: 0604						OCT 07						SUNSET: 1736													
01	CLR	NC			10.00	51	45	48	80	5	28	29.92	30.01	01	CLR	NC				10.00	47	36	42	66	13	36	30.17	30.26	01	CLR	NC				10.00	47	36	42	66	13	36	30.17	30.26
04	CLR	NC			10.00	46	43	45	89	3	30	29.93	30.02	04	CLR	NC				10.00	39	32	36	76	7	33	30.23	30.32	04	CLR	NC				10.00	39	32	36	76	7	33	30.23	30.32
07	CLR	NC			10.00	48	45	47	89	3	18	29.98	30.07	07	CLR	NC				10.00	39	34	37	82	5	31	30.31	30.40	07	CLR	NC				10.00	39	34	37	82	5	31	30.31	30.40
10	CLR	NC			10.00	63	46	54	54	9	22	29.99	30.08	10	CLR	NC				10.00	49	30	41	48	10	01	30.35	30.44	10	CLR	NC				10.00	49	30	41	48	10	01	30.35	30.44
13	CLR	NC			10.00	68	45	56	44	9	21	29.94	30.03	13	CLR	NC				10.00	54	31	44	42	9	35	30.33	30.42	13	CLR	NC				10.00	54	31	44	42	9	35	30.33	30.42
16	CLR	NC			10.00	69	46	57	44	10	22	29.93	30.02	16	CLR	NC				10.00	56	31	45	39	7	35	30.32	30.40	16	CLR	NC				10.00	56	31	45	39	7	35	30.32	30.40
19	CLR	NC			10.00	62	48	55	60	7	20	29.96	30.04	19	CLR	NC				10.00	49	33	42	55	5	03	30.33	30.42	19	CLR	NC				10.00	49	33	42	55	5	03	30.33	30.42
22	CLR	NC			10.00	58	50	54	75	6	23	30.01	30.10	22	CLR	NC				10.00	44	39	42	83	3	33	30.37	30.45	22	CLR	NC				10.00	44	39	42	83	3	33	30.37	30.45
SUNRISE: 0559						OCT 02						SUNSET: 1744						SUNRISE: 0605						OCT 08						SUNSET: 1734													
01	CLR	NC			10.00	55	51	53	87	5	25	30.03	30.12	01	CLR	NC				10.00	40	38	39	93	0	00	30.39	30.48	01	CLR	NC				10.00	40	38	39	93	0	00	30.39	30.48
04	CLR	NC			7.00	52	51	52	97	0	00	30.05	30.14	04	CLR	NC				10.00	38	36	37	93	5	32	30.39	30.48	04	CLR	NC				10.00	38	36	37	93	5	32	30.39	30.48
07	CLR	NC			8.00	54	51	52	90	0	00	30.10	30.19	07	CLR	NC				10.00	38	36	37	93	3	34	30.40	30.49	07	CLR	NC				10.00	38	36	37	93	3	34	30.40	30.49
10	CLR	NC			10.00	66	55	60	68	0	00	30.12	30.21	10	CLR	NC				10.00	55	38	47	53	6	17	30.41	30.49	10	CLR	NC				10.00	55	38	47	53	6	17	30.41	30.49
13	CLR	NC			10.00	73	55	62	53	12	13	30.08	30.17	13	CLR	NC				10.00	62	42	52	48	9	20	30.35	30.44	13	CLR	NC				10.00	62	42	52	48	9	20	30.35	30.44
16	CLR	NC			10.00	71	57	63	61	16	15	30.04	30.12	16	CLR	NC				10.00	61	46	53	58	13	14	30.29	30.38	16	CLR	NC				10.00	61	46	53	58	13	14	30.29	30.38
19	CLR	NC			10.00	67	51	58	57	9	19	30.06	30.15	19	CLR	NC				10.00	57	50	53	78	7	15	30.27	30.36	19	CLR	NC				10.00	57	50	53	78	7	15	30.27	30.36
22	CLR	NC			10.00	63	56	59	78	13	17	30.10	30.18	22	CLR	NC				10.00	54	49	51	83	9	17	30.25	30.34	22	CLR	NC				10.00	54	49	51	83	9	17	30.25	30.34
SUNRISE: 0600						OCT 03						SUNSET: 1742						SUNRISE: 0606						OCT 09						SUNSET: 1733													
01	CLR	NC			9.00	59	57	58	93	5	16	30.09	30.18	01	CLR	NC				10.00	56	51	53	84	8	19	30.20	30.29	01	CLR	NC				10.00	56	51	53	84	8	19	30.20	30.29
04	CLR	NC			4.00	58	57	57	97	5	18	30.09	30.18	04	CLR	NC				10.00	55	54	54	96	7	19	30.17	30.26	04	CLR	NC				10.00	55	54	54	96	7	19	30.17	30.26
07	CLR	NC			1.75	56	55	55	97	0	00	30.14	30.23	07	CLR	NC			BR	6.00	56	55	55	97	5	18	30.17	30.25	07	CLR	NC				10.00	56	55	55	97	5	18	30.17	30.25
10	CLR	NC			10.00	68	59	63	73	6	24	30.17	30.26	10	SCT	NC				10.00	63	57	60	81	10	23	30.17	30.26	10	SCT	NC				10.00	63	57	60	81	10	23	30.17	30.26
13	CLR	NC			10.00	76	58	65	54	5	33	30.13	30.22	13	CLR	NC				10.00	69	58	62	68	3	VR	30.12	30.21	13	CLR	NC				10.00	69	58	62	68	3	VR	30.12	30.21
16	CLR	NC			10.00	74	58	64	57	0	00	30.10	30.19	16	BKN	045				10.00	67	59	62	76	6	23	30.12	30.21	16	BKN	045				10.00	67	59	62	76	6	23	30.12	30.21
19	CLR	NC			9.00	67	59	62	76	0	00	30.11	30.19	19	OVC	100				7.00	64	60	62	87	6	22	30.13	30.22	19	OVC	100				7.00	64	60	62	87	6	22	30.13	30.22
22	CLR	NC			10.00	65	57	60	76	9	06	30.11	30.19	22	OVC	085				5.00	63	60	61	90	0	00	30.13	30.21	22	OVC	085				5.00	63	60	61	90	0	00	30.13	30.21
SUNRISE: 0601						OCT 04						SUNSET: 1741						SUNRISE: 0607						OCT 10						SUNSET: 1731													
01	SCT	NC			5.00	64	63	63	96	8	16	29.97	30.05	01	OVC	040				1.75	62	61	61	96	0	00	30.11	30.19	01	OVC	040				1.75	62	61	61	96	0	00	30.11	30.19
04	OVC	050			1.00	68	64	66	87	20	24	29.99	30.08	04	OVC	070				1.50	62	62	62	100	5	13	30.06	30.15	04	OVC	070				1.50	62	62	62	100	5	13	30.06	30.15
07	BKN	010			10.00	64	62	63	93	6	23	29.99	30.08	07	OVC	001				1.00	63	63	63	100	12	16	30.04	30.13	07	OVC	001				1.00	63	63	63	100	12	16	30.04	30.13
10	BKN	012			10.00	67	63	64	87	10	23	29.94	30.02	10	OVC	008				2.00	63	62	62	97	16	17	30.00	30.09	10	OVC	008				2.00	63	62	62	97	16	17	30.00	30.09
13	OVC	085			10.00	66	61	63	84	3	25	29.91	30.00	13	OVC	017				5.00	65	64	64	97	14	18	29.94	30.03	13	OVC	017				5.00	65	64	64	97	14	18	29.94	30.03
16	OVC	075			6.00	64	63	63	96	3	14	29.91	30.00	16	OVC	010				9.00	67	65	66	93	9	21	29.89	29.98	16	OVC	010				9.00	67	65	66	93	9	21	29.89	29.98
19	OVC	007			5.00	56	55	55	97	14	35	29.94	30.03	19	OVC	008				7.00	67	66	66	97	6	29	29.90	29.98	19	OVC	008				7.00	67	66	66	97	6	29	29.90	29.98
22																																											

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

OCTOBER 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	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				
				VISIBILITY (MILES)																											
					SUNRISE: 0610	OCT 13			SUNSET: 1727										SUNRISE: 0616	OCT 19											
01	CLR	NC			10.00		49	45	47	86	0	00	30.18	30.26	01	CLR	NC			10.00	43	35	40	74	7	35	30.16	30.25			
04	CLR	NC			10.00		48	45	47	89	3	13	30.14	30.22	04	CLR	NC			10.00	39	34	37	82	7	33	30.24	30.32			
07	CLR	NC			8.00		47	45	46	93	0	00	30.11	30.20	07	FEW	NC			10.00	43	35	40	74	9	02	30.27	30.35			
10	CLR	NC			10.00		62	55	58	78	6	18	30.06	30.14	10	SCT	NC			10.00	50	40	45	68	13	04	30.30	30.39			
13	CLR	NC			10.00		70	54	61	57	16	18	29.95	30.04	13	CLR	NC			10.00	56	43	50	62	7	04	30.27	30.36			
16	BKN	055			10.00		70	57	62	64	16	18	29.84	29.93	16	SCT	NC			10.00	57	46	51	67	7	06	30.24	30.33			
19	BKN	047			10.00		66	58	61	75	13	17	29.73	29.82	19	OVC	031			10.00	55	47	51	74	9	08	30.24	30.33			
22	OVC	038			10.00		66	60	62	81	13	19	29.66	29.75	22	OVC	041			10.00	53	48	50	83	6	03	30.24	30.33			
					SUNRISE: 0611	OCT 14			SUNSET: 1725										SUNRISE: 0617	OCT 20											
01	OVC	032			10.00		65	59	61	81	24	23	29.58	29.67	01	OVC	049			10.00	53	50	51	89	6	02	30.18	30.27			
04	CLR	NC			10.00		58	42	50	56	20	27	29.64	29.73	04	OVC	025			6.00	51	51	51	100	6	36	30.12	30.21			
07	BKN	046			10.00		53	37	46	55	26	28	29.76	29.84	07	OVC	070			4.00	52	51	52	97	6	35	30.12	30.21			
10	FEW	NC			10.00		54	36	46	51	26	30	29.91	29.99	10	OVC	025			3.00	52	51	52	97	6	33	30.11	30.19			
13	CLR	NC			10.00		57	34	46	42	25	31	29.91	30.00	13	OVC	041			5.00	52	50	51	93	6	31	30.05	30.14			
16	CLR	NC			10.00		58	33	47	39	14	31	29.97	30.06	16	FEW	NC			4.00	52	50	51	93	5	27	30.04	30.13			
19	CLR	NC			10.00		49	34	42	57	6	27	30.07	30.16	19	CLR	NC			5.00	51	50	51	96	7	25	30.06	30.14			
22	CLR	NC			10.00		41	37	39	86	6	33	30.14	30.22	22	CLR	NC			6.00	50	47	48	89	7	29	30.06	30.14			
					SUNRISE: 0612	OCT 15			SUNSET: 1724										SUNRISE: 0619	OCT 21											
01	CLR	NC			10.00		38	34	36	86	6	32	30.16	30.25	01	CLR	NC			6.00	46	44	45	93	6	30	30.04	30.13			
04	CLR	NC			10.00		37	35	36	93	5	36	30.18	30.27	04	CLR	NC			6.00	44	41	43	89	3	28	30.05	30.14			
07	CLR	NC			10.00		40	34	37	79	0	00	30.24	30.33	07	CLR	NC			3.00	41	39	40	93	6	30	30.05	30.14			
10	CLR	NC			10.00		53	34	45	49	5	VR	30.28	30.36	10	CLR	NC			10.00	55	43	49	64	8	32	30.07	30.15			
13	CLR	NC			10.00		58	37	48	46	7	14	30.23	30.32	13	CLR	NC			10.00	58	39	49	50	6	27	30.01	30.10			
16	CLR	NC			10.00		60	34	48	38	12	14	30.19	30.28	16	CLR	NC			10.00	58	38	48	48	7	25	29.95	30.04			
19	CLR	NC			10.00		55	46	50	72	9	13	30.21	30.29	19	CLR	NC			10.00	52	39	46	61	5	20	29.94	30.03			
22	CLR	NC			10.00		52	48	50	86	6	13	30.21	30.30	22	CLR	NC			8.00	44	42	43	93	3	31	29.91	30.00			
					SUNRISE: 0613	OCT 16			SUNSET: 1722										SUNRISE: 0620	OCT 22											
01	CLR	NC			10.00		47	45	46	93	0	00	30.20	30.29	01	CLR	NC			7.00	42	41	42	96	0	00	29.86	29.95			
04	CLR	NC			9.00		44	43	44	96	0	00	30.17	30.26	04	CLR	NC			9.00	45	38	42	77	6	20	29.79	29.88			
07	CLR	NC			7.00		44	44	44	100	3	36	30.18	30.27	07	CLR	NC			6.00	42	38	40	85	0	00	29.74	29.83			
10	CLR	NC			10.00		63	57	60	81	0	00	30.18	30.27	10	CLR	NC			10.00	58	46	52	65	15	17	29.68	29.77			
13	BKN	048			10.00		69	58	62	68	13	16	30.12	30.21	13	CLR	NC			10.00	62	46	54	56	18	15	29.54	29.63			
16	CLR	NC			10.00		69	56	61	63	10	16	30.06	30.14	16	CLR	NC			10.00	60	48	54	65	10	14	29.46	29.54			
19	BKN	045			10.00		64	58	60	81	5	15	30.05	30.14	19	OVC	048			5.00	55	53	54	93	8	31	29.49	29.57			
22	CLR	NC			10.00		59	57	58	93	0	00	30.03	30.12	22	OVC	049			4.00	50	48	49	93	3	29	29.52	29.61			
					SUNRISE: 0614	OCT 17			SUNSET: 1721										SUNRISE: 0621	OCT 23											
01	VV	001			< .25 FG		57	57	57	100	0	00	29.99	30.08	01	FEW	NC			1.50	48	47	47	96	12	25	29.48	29.57			
04	VV	001			< .25 FG		58	58	58	100	0	00	29.95	30.03	04	CLR	NC			4.00	45	44	45	97	7	25	29.46	29.54			
07	VV	001			< .25 FG		55	55	55	100	0	00	29.93	30.02	07	CLR	NC			6.00	43	41	42	93	7	24	29.49	29.57			
10	OVC	001			1.50 BR		59	59	59	100	3	VR	29.91	30.00	10	CLR	NC			10.00	51	38	45	61	16	28	29.52	29.61			
13	OVC	055			4.00 HZ		67	60	63	79	3	36	29.82	29.91	13	OVC	048			10.00	55	36	46	49	20	28	29.52	29.61			
16	OVC	027			1.75 RA BR		65	64	64	97	3	33	29.75	29.84	16	OVC	080			10.00	51	33	43	50	13	27	29.57	29.65			
19	OVC	015			5.00 RA BR		63	62	62	97	8	03	29.68	29.77	19	CLR	NC			10.00	47	32	41	56	12	25	29.63	29.72			
22	OVC	007			5.00 -RA BR		63	62	62	97	3	34	29.61	29.70	22	CLR	NC			10.00	44	32	39	63	12	23	29.67	29.76			
					SUNRISE: 0615	OCT 18			SUNSET: 1719										SUNRISE: 0622	OCT 24											
01	OVC	027			10.00		62	60	61	93	9	33	29.56	29.64	01	CLR	NC			10.00	42	34	39	73	10	23	29.69	29.78			
04	BKN	055			10.00		56	52	54	87	16	35	29.56	29.65	04	BKN	042			10.00	40	35	38	83	8	25	29.72	29.81			
07	CLR	NC			10.00		52	46	49	80	16	33	29.64	29.72	07	CLR	NC			10.00	38	35	37	89	7	25	29.79	29.88			
10	CLR	NC			10.00		57	39	48	51	22	33	29.73	29.81	10	FEW	NC			10.00	51	38	45	61	20	29	29.85	29.93			
13	CLR	NC			10.00		62	37	50	40	25	32	29.79	29.88	13	OVC	043			10.00	56	39	48	53	15	31	29.84	29.93			
16	CLR	NC			10.00		60	36	49	41	17	33	29.90	29.98	16	BKN	055			10.00	53	38	46	57	13	30	29.86	29.94			
19	CLR	NC			10.00		52	38	45	59	8	33	30.02	30.11	19	BKN	065			10.00	51	34	43	52	14	29	29.91	30.00			
22	CLR	NC			10.00		47	35	42	63	8	36	30.12	30.21	22	SCT	NC			10.00	46	32	40	58	7	27	29.97	30.06			

OBSERVATIONS AT 3-HOURLY INTERVALS

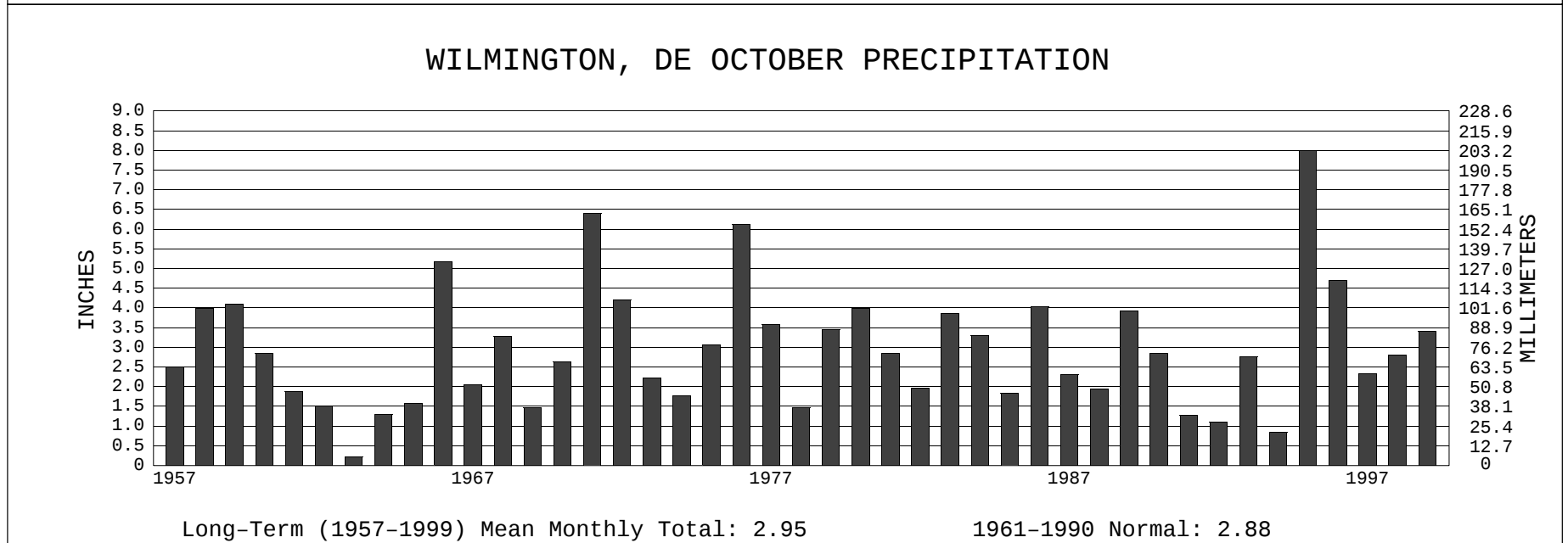
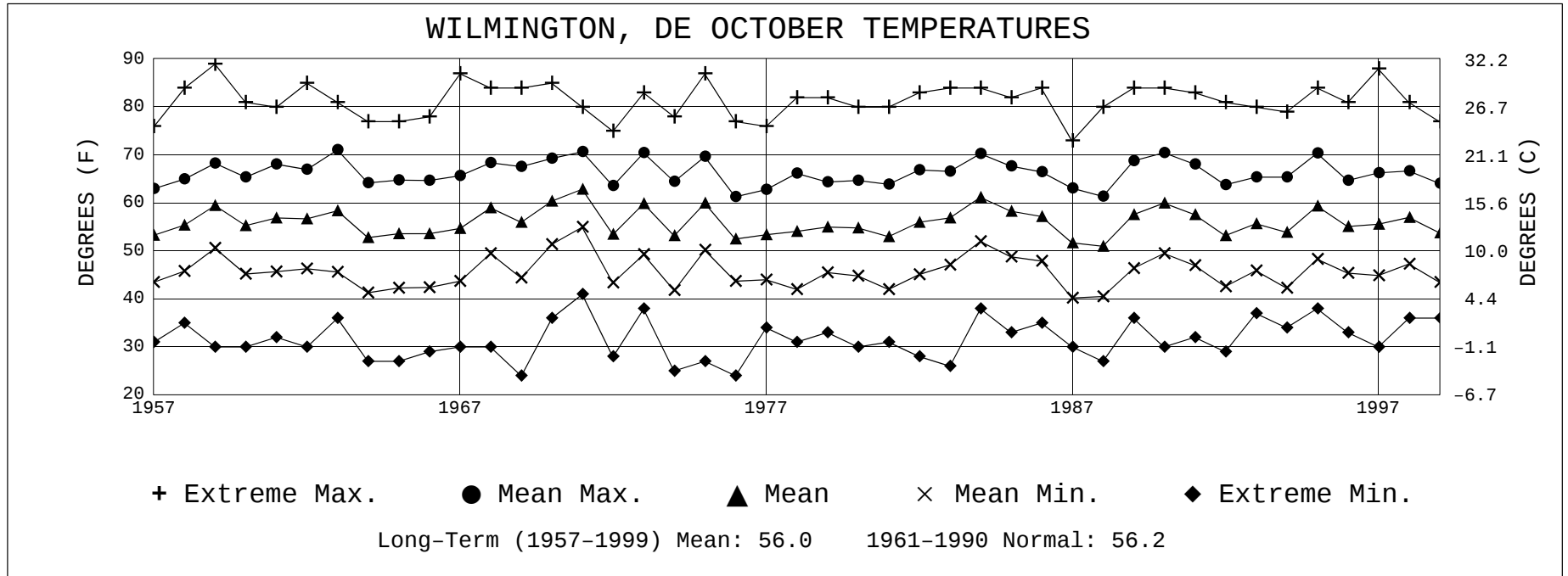
WILMINGTON, DE

OCTOBER 1999

ILG

WBAN # 13781

HOUR (LST)	SKY COVER CEILING 100'S OF FT		SATELLITE		WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER CEILING 100'S OF FT		SATELLITE		WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)									
			OBSERVATION TIME (LST)	EFF CLD AMT Okta		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				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: 0623						OCT 25						SUNSET: 1710						SUNRISE: 0629						OCT 31						SUNSET: 1702					
01	CLR	NC			10.00	43	33	39	68	6	26	30.01	30.10	01	VV	001			0.25	FG	55	55	55	100	3	17	30.31	30.40							
04	CLR	NC			10.00	40	34	37	79	9	24	30.05	30.13	04	VV	001			^ .25	FG	52	52	52	100	0	00	30.27	30.36							
07	CLR	NC			10.00	39	34	37	82	6	22	30.13	30.22	07	VV	001			^ .25	FG	53	53	53	100	3	27	30.26	30.35							
10	CLR	NC			10.00	50	36	44	59	10	28	30.16	30.25	10	OVC	001			1.50	BR	57	57	57	100	6	22	30.23	30.32							
13	CLR	NC			10.00	54	35	45	49	9	23	30.13	30.22	13	CLR	NC			7.00		66	58	61	75	6	18	30.15	30.24							
16	CLR	NC			10.00	55	37	47	51	8	21	30.09	30.17	16	CLR	NC			10.00		68	56	61	66	8	21	30.09	30.18							
19	CLR	NC			10.00	49	38	44	66	6	20	30.09	30.18	19	FEW	NC			7.00		61	55	58	81	0	00	30.10	30.19							
22	CLR	NC			10.00	46	39	43	77	6	19	30.10	30.19	22	OVC	090			7.00		59	56	57	90	5	25	30.10	30.19							
SUNRISE: 0624						OCT 26						SUNSET: 1709						3-HOURLY OBSERVATION NOTES																	
01	CLR	NC			10.00	46	41	44	83	5	19	30.08	30.17	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.																					
04	CLR	NC			10.00	44	41	43	89	3	18	30.05	30.14																						
07	CLR	NC			8.00	43	40	42	89	5	17	30.05	30.14																						
10	CLR	NC			10.00	54	43	49	67	13	22	30.04	30.13																						
13	CLR	NC			10.00	63	44	53	50	8	22	29.95	30.04																						
16	CLR	NC			10.00	62	42	52	48	9	22	29.91	30.00																						
19	CLR	NC			10.00	54	44	49	69	5	18	29.94	30.02																						
22	CLR	NC			10.00	52	43	48	72	3	24	29.96	30.05																						
SUNRISE: 0625						OCT 27						SUNSET: 1707																							
01	CLR	NC			10.00	47	44	46	90	7	28	29.95	30.04																						
04	CLR	NC			10.00	47	39	43	74	5	30	29.99	30.08																						
07	CLR	NC			10.00	43	37	40	80	7	32	30.05	30.14																						
10	CLR	NC			10.00	57	40	49	53	10	32	30.11	30.20																						
13	BKN	055			10.00	60	37	49	42	13	34	30.10	30.19																						
16	BKN	050			10.00	56	38	47	51	13	35	30.14	30.23																						
19	BKN	050			10.00	50	36	44	59	7	34	30.21	30.30																						
22	CLR	NC			10.00	46	37	42	71	5	33	30.25	30.33																						
SUNRISE: 0626						OCT 28						SUNSET: 1706																							
01	CLR	NC			10.00	41	37	39	86	5	32	30.26	30.35																						
04	CLR	NC			10.00	40	35	38	83	6	34	30.30	30.39																						
07	CLR	NC			10.00	38	34	36	86	7	35	30.33	30.42																						
10	CLR	NC			10.00	49	37	44	64	3	VR	30.35	30.44																						
13	CLR	NC			10.00	55	35	46	47	0	00	30.31	30.40																						
16	CLR	NC			10.00	56	38	47	51	3	15	30.26	30.35																						
19	CLR	NC			10.00	51	40	46	66	6	18	30.26	30.35																						
22	CLR	NC			9.00	42	40	41	92	5	29	30.26	30.35																						
SUNRISE: 0627						OCT 29						SUNSET: 1705																							
01	CLR	NC			8.00	41	39	40	93	0	00	30.24	30.33																						
04	CLR	NC			7.00	41	31	37	67	0	00	30.24	30.32																						
07	CLR	NC			5.00 HZ	40	31	36	70	3	29	30.27	30.36																						
10	CLR	NC			8.00	54	29	43	38	7	22	30.28	30.37																						
13	CLR	NC			10.00	65	25	47	22	8	24	30.24	30.33																						
16	CLR	NC			10.00	67	24	48	20	8	21	30.23	30.32																						
19	CLR	NC			9.00	57	31	45	37	0	00	30.26	30.35																						
22	CLR	NC			7.00	51	28	41	41	0	00	30.27	30.36																						
SUNRISE: 0628						OCT 30						SUNSET: 1704																							
01	CLR	NC			5.00 HZ	48	27	39	44	0	00	30.28	30.36																						
04	CLR	NC			5.00 BR	45	44	45	97	0	00	30.29	30.38																						
07	VV	001			0.25 FG	42	42	42	100	3	30	30.34	30.43																						
10	CLR	NC			4.00 HZ	59	52	55	78	0	00	30.36	30.45																						
13	CLR	NC			10.00	66	51	58	59	10	15	30.32	30.40																						
16	CLR	NC			10.00	64	48	55	56	9	16	30.30	30.39																						
19	CLR	NC			10.00	56	51	53	84	8	14	30.32	30.41																						
22	OVC	002			2.00 BR	55	55	55	100	0	00	30.33	30.42																						





**OCTOBER 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.

We welcome your questions or comments, please contact us at
828–271–4800 (voice), 828–271–4876 (fax),
828–271–4010(TDD)
or orders@ncdc.noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

For address correction, please return a photocopy of this page to Subscription Services indicating changes

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G–19

NATIONAL CLIMATIC DATA CENTER
151 PATTON AVE RM 120
ASHEVILLE, NC 28801–5001

OFFICIAL BUSINESS, PENALTY FOR PRIVATE USE \$300