



OCTOBER 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE

NEW CASTLE COUNTY AP (ILG)

Lat: 39°40' N Long: 75°36' W Elev (Ground): 92 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	78	57	68	6	63	65	0	3	FG BR			0.0	0.00	30.07	30.16	4.8	22	5.5	21	23	17	23	01											
02	84	63	74	13	66	69	0	9	BR			0.0	0.00	29.95	30.04	4.3	24	5.1	16	23	13	22	02											
03	86*	65	76*	15	68	70	0	11	RA BR			0.0	T	29.93	30.01	1.2	32	6.5	21	08	17	08	03											
04	80	66	73	12	69	70	0	8	BR HZ			0.0	0.00	29.96	30.04	8.5	11	11.6	23	15	20	15	04											
05	85	60	73	13	62	67	0	8	RA BR			0.0	0.03	29.88	29.96	7.3	27	11.4	29	18	23	19	05											
06	71	52	62	2	51	56	3	0				0.0	0.00	30.12	30.20	5.9	07	8.8	21	07	17	07	06											
07	77	51	64	5	54	59	1	0				0.0	0.00	29.94	30.02	6.5	28	9.4	23	30	18	31	07											
08	64	45	55	-4	40	48	10	0				0.0	0.00	30.18	30.26	5.4	01	6.8	20	01	17	01	08											
09	66	47	57	-1	52	55	8	0	RA BR			0.0	0.01	30.20	30.29	4.2	08	5.5	15	10	13	09	09											
10	64	58	61	3	60	61	4	0	RA DZ BR			0.0	1.06	30.18	30.27	8.1	09	9.2	22	11	18	07	10											
11	66	59	63	5	63	63	2	0	RA BR			0.0	1.91	30.07	30.15	8.1	07	8.6	18	05	15	05	11											
12	67	60	64	7	61	62	1	0	RA BR			0.0	0.04	30.03	30.11	10.5	02	10.6	23	01	20	03	12											
13	65	57	61	4	57	59	4	0	RA BR			0.0	0.02	30.04	30.12	5.0	34	6.9	29	33	24	32	13											
14	59	42	51	-5	36	44	14	0				0.0	0.00	30.20	30.28	8.7	35	9.2	30	01	24	36	14											
15	58	37	48	-8	44	47	17	0	RA			0.0	0.03	30.04	30.13	7.8	05	9.6	21	03	17	05	15											
16	56	49	53	-3	52	52	12	0	RA BR			0.0	0.93	29.54	29.62	10.7	34	15.0	32*	33	25*	33	16											
17	63	45	54	-1	46	49	11	0	RA			0.0	0.07	29.82	29.91	4.5	29	5.2	15	29	13	29	17											
18	59	38	49	-6	38	44	16	0				0.0	0.00	30.06	30.15	5.6	26	7.3	18	27	15	28	18											
19	62	47	55	1	47	51	10	0	RA			0.0	T	29.91	30.00	9.0	20	9.3	24	21	21	20	19											
20	58	44	51	-3	43	48	14	0	RA			0.0	T	29.92	30.00	4.3	30	5.5	12	31	9	27	20											
21	59	40	50	-4	38	44	15	0				0.0	0.00	30.04	30.12	6.3	35	7.3	18	02	16	02	21											
22	60	34	47	-6	38	43	18	0				0.0	0.00	30.12	30.20	1.4	34	4.1	12	05	10	05	22											
23	61	38	50	-3	39	45	15	0	BR			0.0	0.00			5.6	35	6.6	20	36	16	36	23											
24	47	42	45	-8	30	39	20	0	RA			0.0	0.09	30.32	30.41	8.1	03	8.4	20	03	16	03	24											
25	53	42	48	-4	32	41	17	0	RA BR			0.0	0.37	30.21	30.29	8.8	05	9.9	21	07	16	08	25											
26	64	49	57	5	52	53	8	0	RA BR			0.0	0.54	29.85	29.93	6.8	30	9.0	26	31	23	29	26											
27	63	43	53	1	43	48	12	0	BR			0.0	0.00	30.02	30.10	7.2	28	7.7	20	31	16	27	27											
28	53	41	47	-5	38	43	18	0				0.0	0.00	30.04	30.13	4.0	34	5.4	18	02	15	03	28											
29	46	36	41	-10	34	38	24	0	RA SN BR UP			T	0.64	30.03	30.12	10.7	03	11.3	23	05	20	05	29											
30	39	36	38*	-13	36	37	27	0	RA SN BR UP			T	0.42	29.85	29.94	14.8	02	15.0	25	03	21	02	30											
31	48	33*	41	-10	34	37	24	0	RA			0.0	T	29.95	30.04	6.4	30	8.0	16	01	13	26	31											
63.3										47.6	55.5	■ ■ ■	47.9	51.8	10.5	1.3	< MONTHLY AVERAGES		TOTALS->			T	6.16			3.1	36	8.4	<- MONTHLY AVERAGES					
-2.6										2.0	-.3	■ ■ ■	<-----DEPARTURE FROM NORMAL----->											3.08	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 2.52				DATE :10-11				SEA LEVEL PRESSURE				DATE TIME													
MONTHLY									GREATEST 24-HR SNOWFALL: T				DATE :30+				MAXIMUM				: 30.46 24 0751													
TOTAL DEPARTURE									GREATEST SNOW DEPTH:				DATE :				MINIMUM				: 29.42 16 1351													
HEATING: 325 28									NUMBER OF DAYS WITH ➔				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH : 14													
COOLING: 39 23													MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 7													
SEASON TO DATE																					SNOWFALL ≥ 1.0 INCH : 0													
TOTAL DEPARTURE									1311 187																									

OCTOBER 2002
WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

OCTOBER 2002

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										T	T	03		T		
04													04												04		0.00		
05		0.03	T										05												05		0.03		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09									T	T	0.01	0.01		0.01		
10	T	T	0.01		T	0.01	T	0.04	0.08	0.11	0.05	0.04	10	0.03	0.01	0.02	0.04	0.05	0.03	0.04	0.12	0.09	0.02	0.09	0.18		1.06		
11	0.10	0.08	0.09	0.06	0.10	0.11	0.18	0.12	0.16	0.24	0.26	0.17	11	0.07	0.03	0.06	0.07	0.01		T	T				11	1.91			
12			T	T									12					T		0.02	0.02				12	0.04			
13											0.01		13												13	0.02			
14													14												14	0.00			
15													15										T	0.03	15	0.03			
16	0.01	0.02	0.08	0.07	0.05	0.03	0.07	0.18	0.12	0.13	0.06	0.01	16	0.05	0.02	0.03	T								16	0.93			
17		0.01											17						0.02	0.02	0.01	T			17	0.07			
18													18											0.01	18	0.00			
19												T	19	T	T	T									19	T			
20								T					20												20	T			
21													21												21	0.00			
22													22												22	0.00			
23													23												23	0.00			
24													24				T	T	T	0.01	0.01	0.06	0.01	0.18	24	0.09			
25			T										25							T	T	0.01	0.05	0.12	25	0.37			
26	0.08	0.13	0.25	0.07	0.01								26												26	0.54			
27													27												27	0.00			
28													28												28	0.00			
29													29	0.04	0.10	0.04	0.04	0.04	0.02	0.16	0.10	0.04	0.03	0.01	29	0.64			
30	0.02	0.01	T	T	T	0.01	T	T				T	30		T	0.01	0.04	0.09	0.07	0.03	0.01	0.03	0.08	0.01	30	0.42			
31	0.01	T	T	T	T	T	T	T					31												31	0.01			

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.09	.13	.16	.17	.18	.27	.29	.34	.40	.51	.60	.69
Ending Date	26	26	26	26	26	26	26	11	11	11	11	11
Ending Time (Hour/Min)	0248	0251	0257	0257	0257	0257	0257	1112	1052	1056	1121	1112

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

**WILMINGTON, DE
OCTOBER 2002**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.50	10.00	
02							1.75	10.00	
03							5.00	10.00	
04							1.50	9.00	
05							4.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							4.00	10.00	
10							4.00	10.00	
11							1.50	10.00	
12							4.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							2.00	10.00	
17							8.00	10.00	
18							8.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							6.00	10.00	
24							7.00	10.00	
25							4.00	10.00	
26							1.75	10.00	
27							6.00	10.00	
28							10.00	10.00	
29							3.00	10.00	
30							1.50	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.41	9.97	

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

0 8 15

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

OCTOBER 2002

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: 0558 OCT 01						SUNSET: 1745						SUNRISE: 0604 OCT 07						SUNSET: 1736											
01	CLR	NC			10.00	BR	62	59	60	90	0	00	30.13	30.22	01	OVC	049			10.00	63	59	61	87	6	12	29.99	30.07	
04	FEW	NC			10.00		58	58	58	100	0	00	30.11	30.19	04	OVC	040			10.00	64	61	62	90	3	12	29.92	30.01	
07	OVC	002			5.00		60	60	60	100	3	24	30.12	30.21	07	BKN	075			10.00	65	62	63	90	7	18	29.90	29.98	
10	CLR	NC			10.00		71	64	67	79	9	24	30.10	30.19	10	SCT	NC			10.00	73	59	65	62	15	26	29.89	29.98	
13	CLR	NC			10.00		78	63	68	60	10	23	30.04	30.13	13	CLR	NC			10.00	76	52	62	43	17	27	29.87	29.96	
16	CLR	NC			10.00		78	63	68	60	9	25	30.01	30.10	16	CLR	NC			10.00	70	54	61	57	15	30	29.89	29.98	
19	CLR	NC			10.00		71	68	69	90	7	17	30.02	30.11	19	CLR	NC			10.00	59	43	51	56	6	31	29.98	30.06	
22	CLR	NC			10.00		69	64	66	84	0	00	30.03	30.12	22	CLR	NC			10.00	54	44	49	69	9	29	30.01	30.10	
SUNRISE: 0559 OCT 02						SUNSET: 1743						SUNRISE: 0605 OCT 08						SUNSET: 1734											
01	BKN	075			9.00	BR	67	65	66	93	3	VR	30.02	30.11	01	CLR	NC			10.00	53	41	47	64	10	01	30.07	30.16	
04	CLR	NC			4.00		64	64	64	100	0	00	29.99	30.08	04	CLR	NC			10.00	48	38	43	68	9	36	30.11	30.20	
07	CLR	NC			2.50		65	65	65	100	0	00	30.00	30.09	07	CLR	NC			10.00	48	38	43	68	8	35	30.19	30.27	
10	FEW	NC			9.00		77	67	70	71	5	27	30.00	30.09	10	CLR	NC			10.00	58	40	49	51	10	03	30.22	30.31	
13	CLR	NC			9.00		82	66	71	58	7	25	29.93	30.02	13	CLR	NC			10.00	60	38	49	44	3	VR	30.19	30.27	
16	CLR	NC			10.00		82	66	71	58	12	23	29.90	29.98	16	CLR	NC			10.00	63	37	50	38	7	08	30.16	30.25	
19	CLR	NC			10.00		75	66	69	74	7	23	29.90	29.99	19	CLR	NC			10.00	53	43	48	69	5	32	30.18	30.27	
22	CLR	NC			8.00		72	67	69	84	5	23	29.90	29.99	22	CLR	NC			10.00	55	44	50	67	3	12	30.21	30.30	
SUNRISE: 0600 OCT 03						SUNSET: 1742						SUNRISE: 0606 OCT 09						SUNSET: 1732											
01	CLR	NC			5.00	BR	69	68	68	96	6	23	29.89	29.98	01	CLR	NC			10.00	52	45	49	77	0	00	30.21	30.29	
04	CLR	NC			5.00		67	66	66	97	5	25	29.87	29.96	04	CLR	NC			10.00	51	48	50	89	0	00	30.20	30.28	
07	CLR	NC			5.00		67	66	66	97	5	29	29.91	30.00	07	CLR	NC			10.00	52	46	49	80	6	06	30.23	30.32	
10	FEW	NC			10.00		79	68	72	69	8	24	29.92	30.00	10	BKN	065			10.00	62	50	56	65	7	08	30.22	30.31	
13	CLR	NC			9.00		84	68	73	59	7	33	29.89	29.97	13	OVC	042			10.00	64	54	58	70	3	VR	30.18	30.27	
16	FEW	NC			8.00		83	69	74	63	6	32	29.91	30.00	16	OVC	041			10.00	62	57	59	84	7	10	30.18	30.27	
19	CLR	NC			8.00		78	69	72	74	3	12	29.94	30.03	19	OVC	037			10.00	61	56	58	84	8	11	30.17	30.26	
22	CLR	NC			8.00		72	67	69	84	16	08	30.00	30.09	22	OVC	024		-RA	10.00	61	57	59	87	5	06	30.19	30.28	
SUNRISE: 0601 OCT 04						SUNSET: 1740						SUNRISE: 0607 OCT 10						SUNSET: 1731											
01	OVC	010			7.00	BR	69	67	68	93	13	09	30.01	30.10	01	OVC	022			9.00	59	58	58	96	8	05	30.18	30.27	
04	OVC	006			6.00		66	66	66	100	10	07	30.03	30.11	04	OVC	016			10.00	59	59	59	100	9	05	30.16	30.25	
07	OVC	004			1.50		66	66	66	100	9	08	30.05	30.14	07	OVC	005			4.00	DZ BR	60	59	59	96	7	06	30.19	30.28
10	OVC	004			1.50		70	68	69	93	9	07	30.05	30.14	10	OVC	005			4.00	RA BR	61	61	61	100	7	08	30.21	30.30
13	OVC	025			2.00		73	70	71	90	6	06	29.98	30.06	13	OVC	010			10.00	63	62	62	97	6	13	30.18	30.27	
16	SCT	NC			6.00		77	69	72	77	15	15	29.90	29.98	16	OVC	008			10.00	63	62	62	97	9	13	30.16	30.25	
19	CLR	NC			6.00		73	71	72	94	12	15	29.88	29.97	19	OVC	006			10.00	61	61	61	100	7	09	30.17	30.26	
22	CLR	NC			6.00		73	71	72	94	14	16	29.82	29.90	22	OVC	008		-RA	9.00	61	60	60	97	12	08	30.16	30.25	
SUNRISE: 0602 OCT 05						SUNSET: 1739						SUNRISE: 0608 OCT 11						SUNSET: 1729											
01	OVC	080			8.00	BR	76	70	72	82	20	19	29.76	29.85	01	OVC	009			8.00	RA	59	58	58	96	12	09	30.14	30.23
04	OVC	036			9.00		74	71	72	91	10	23	29.77	29.85	04	OVC	007			9.00	RA	60	60	60	100	7	08	30.10	30.19
07	CLR	NC			4.00		71	70	70	96	5	22	29.81	29.89	07	OVC	016			4.00	RA BR	60	60	60	100	10	05	30.11	30.19
10	BKN	090			10.00		79	69	72	72	12	24	29.84	29.93	10	OVC	003			2.00	RA BR	62	61	61	96	8	05	30.10	30.19
13	CLR	NC			10.00		84	61	69	46	14	27	29.83	29.91	13	OVC	011			2.00	-RA	64	64	64	100	7	05	30.05	30.14
16	FEW	NC			10.00		82	60	68	47	13	30	29.85	29.93	16	OVC	005			2.50	RA BR	65	65	65	100	8	07	30.03	30.11
19	CLR	NC			10.00		69	53	60	57	12	31	29.99	30.07	19	OVC	016			10.00	-RA	66	65	65	96	7	08	30.03	30.12
22	CLR	NC			10.00		63	52	57	68	12	33	30.06	30.14	22	OVC	055			10.00	66	65	65	96	3	08	30.03	30.12	
SUNRISE: 0603 OCT 06						SUNSET: 1737						SUNRISE: 0609 OCT 12						SUNSET: 1728											
01	CLR	NC			10.00		60	49	54	67	7	35	30.12	30.21	01	OVC	055			10.00	65	64	64	97	5	03	30.00	30.09	
04	CLR	NC			10.00		54	49	51	83	6	34	30.15	30.23	04	OVC	007			9.00	64	63	63	96	8	02	29.98	30.06	
07	CLR	NC			10.00		54	49	51	83	7	35	30.19	30.28	07	OVC	005			10.00	62	61	61	96	10	02	30.00	30.09	
10	CLR	NC			10.00		66	45	55	47	14	06	30.19	30.28	10	OVC	007			10.00	64	62	63	93	13	02	30.02	30.11	
13	CLR	NC			10.00		69	49	58	49	8	10	30.13	30.22	13	OVC	015			10.00	66	61	63	84	10	02	30.02	30.11	
16	SCT	NC			10.00		70	53	60	55	13	14	30.07	30.16	16	OVC	017			10.00	64	60	62	87	13	03	30.03	30.11	
19	CLR	NC			10.00		64	54	58	70	8																		

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

OCTOBER 2002

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 Okta		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 Okta	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
					SUNRISE: 0610	OCT 13			SUNSET: 1726										SUNRISE: 0617	OCT 19									
01	OVC	013			10.00		59	57	58	93	9	01	30.05	30.14	01	CLR	NC			10.00		48	39	44	71	9	18	30.07	30.16
04	OVC	009			10.00		58	56	57	93	9	01	30.04	30.12	04	CLR	NC			10.00		47	39	43	74	7	18	30.02	30.11
07	OVC	009			10.00		59	56	57	90	5	35	30.05	30.14	07	CLR	NC			10.00		50	44	47	80	8	19	29.98	30.07
10	OVC	011			10.00		62	58	60	86	7	04	30.04	30.12	10	FEW	NC			10.00		55	47	51	74	12	19	29.95	30.03
13	OVC	013			10.00		64	59	61	84	3	VR	29.99	30.08	13	FEW	NC			10.00	-RA	60	47	53	62	14	20	29.84	29.93
16	OVC	017			10.00		65	60	62	84	0	00	29.98	30.07	16	OVC	070			10.00		61	49	55	65	10	22	29.80	29.89
19	SCT	NC			10.00		63	60	61	90	3	25	30.01	30.10	19	OVC	055			10.00		59	52	55	78	5	20	29.83	29.92
22	BKN	029			10.00		61	55	58	81	14	31	30.06	30.15	22	OVC	065			10.00		59	53	56	81	8	21	29.84	29.92
					SUNRISE: 0611	OCT 14			SUNSET: 1725										SUNRISE: 0618	OCT 20									
01	CLR	NC			10.00		54	41	48	62	14	32	30.13	30.22	01	OVC	060			10.00		58	53	55	84	5	23	29.84	29.92
04	CLR	NC			10.00		47	40	44	77	8	33	30.16	30.25	04	OVC	048			10.00		55	46	50	72	7	35	29.86	29.95
07	CLR	NC			10.00		48	39	44	71	9	34	30.22	30.31	07	OVC	039			10.00		53	42	48	66	7	33	29.90	29.99
10	CLR	NC			10.00		52	31	43	45	17	35	30.26	30.35	10	OVC	045			10.00		54	40	47	59	7	35	29.94	30.03
13	CLR	NC			10.00		56	32	45	40	9	36	30.20	30.29	13	OVC	047			10.00		55	39	47	55	3	28	29.91	30.00
16	CLR	NC			10.00		57	33	46	41	12	01	30.17	30.26	16	FEW	NC			10.00		57	41	49	55	8	26	29.91	29.99
19	CLR	NC			10.00		50	37	44	61	3	34	30.19	30.28	19	CLR	NC			10.00		50	44	47	80	6	24	29.94	30.03
22	CLR	NC			10.00		46	37	42	71	6	35	30.20	30.28	22	CLR	NC			10.00		45	43	44	93	5	29	29.97	30.06
					SUNRISE: 0612	OCT 15			SUNSET: 1723										SUNRISE: 0619	OCT 21									
01	CLR	NC			10.00		40	37	39	89	6	33	30.18	30.26	01	CLR	NC			10.00		43	42	43	97	6	30	29.98	30.06
04	CLR	NC			10.00		38	36	37	93	5	33	30.15	30.23	04	CLR	NC			10.00		43	41	42	93	6	31	29.97	30.06
07	CLR	NC			10.00		39	37	38	93	3	33	30.15	30.24	07	CLR	NC			10.00		46	40	43	79	9	35	30.03	30.11
10	CLR	NC			10.00		52	43	48	72	12	06	30.11	30.20	10	CLR	NC			10.00		54	36	46	51	13	02	30.06	30.15
13	OVC	038			10.00		57	45	51	64	12	09	30.04	30.12	13	CLR	NC			10.00		58	36	48	44	7	03	30.02	30.11
16	OVC	032			10.00		57	47	52	69	12	08	29.97	30.06	16	CLR	NC			10.00		58	36	48	44	7	34	30.02	30.10
19	BKN	095			10.00		55	48	51	77	13	06	29.95	30.04	19	CLR	NC			10.00		49	39	44	69	3	33	30.06	30.14
22	OVC	044			10.00		56	49	52	77	14	05	29.88	29.96	22	CLR	NC			10.00		45	36	41	71	10	03	30.09	30.17
					SUNRISE: 0614	OCT 16			SUNSET: 1722										SUNRISE: 0620	OCT 22									
01	OVC	017			10.00	-RA	55	54	54	96	17	05	29.77	29.85	01	CLR	NC			10.00		40	35	38	83	3	34	30.10	30.19
04	OVC	011			8.00	-RA	56	55	55	97	16	02	29.65	29.74	04	CLR	NC			10.00		36	33	35	89	6	32	30.11	30.19
07	OVC	009			5.00	RA BR	54	53	53	97	13	36	29.54	29.63	07	CLR	NC			10.00		36	34	35	93	6	33	30.14	30.23
10	OVC	013			2.00	BR	53	52	52	96	18	36	29.42	29.51	10	FEW	NC			10.00		51	40	46	66	6	04	30.16	30.24
13	OVC	008			3.00	RA BR	51	49	50	92	20	34	29.35	29.44	13	CLR	NC			10.00		58	38	48	48	0	00	30.09	30.18
16	BKN	014			10.00		55	52	53	90	13	32	29.39	29.48	16	CLR	NC			10.00		58	38	48	48	6	13	30.08	30.16
19	SCT	NC			10.00		53	51	52	93	13	27	29.52	29.61	19	CLR	NC			10.00		52	40	46	64	3	20	30.11	30.19
22	CLR	NC			10.00		51	49	50	92	9	28	29.63	29.71	22	CLR	NC			10.00		45	41	43	86	0	00	30.12	30.20
					SUNRISE: 0615	OCT 17			SUNSET: 1721										SUNRISE: 0621	OCT 23									
01	CLR	NC			10.00		49	48	48	97	5	23	29.68	29.76	01	CLR	NC			10.00		42	40	41	92	0	00	30.10	30.19
04	CLR	NC			10.00		45	45	45	100	6	28	29.74	29.83	04	CLR	NC			10.00		43	40	42	89	3	16	30.11	30.19
07	CLR	NC			10.00		47	47	47	100	3	27	29.80	29.89	07	CLR	NC			7.00		39	38	39	96	0	00		
10	CLR	NC			10.00		58	49	53	72	7	31	29.84	29.93	10	CLR	NC			10.00		56	46	51	70	8	33		
13	OVC	047			10.00		62	42	52	48	6	35	29.82	29.91	13	SCT	NC			10.00		59	42	51	54	10	33		
16	OVC	070			10.00		58	43	50	58	8	29	29.82	29.91	16	CLR	NC			10.00		57	39	48	51	8	36	30.17	30.26
19	OVC	041			10.00	-RA	50	47	48	89	10	30	29.88	29.96	19	BKN	120			10.00		51	35	44	54	9	35	30.24	30.33
22	BKN	090			9.00		49	47	48	93	3	27	29.89	29.98	22	OVC	080			10.00		48	32	41	54	10	02	30.29	30.37
					SUNRISE: 0616	OCT 18			SUNSET: 1719										SUNRISE: 0622	OCT 24									
01	FEW	NC			8.00		47	45	46	93	9	26	29.94	30.03	01	OVC	075			10.00		47	32	41	56	7	03	30.30	30.39
04	CLR	NC			10.00		42	39	41	89	12	29	29.97	30.06	04	OVC	070			10.00		45	32	40	61	9	02	30.33	30.41
07	CLR	NC			10.00		41	37	39	86	6	27	30.06	30.14	07	OVC	065			10.00		42	28	37	58	13	02	30.35	30.44
10	CLR	NC			10.00		49																						

OBSERVATIONS AT 3-HOURLY INTERVALS

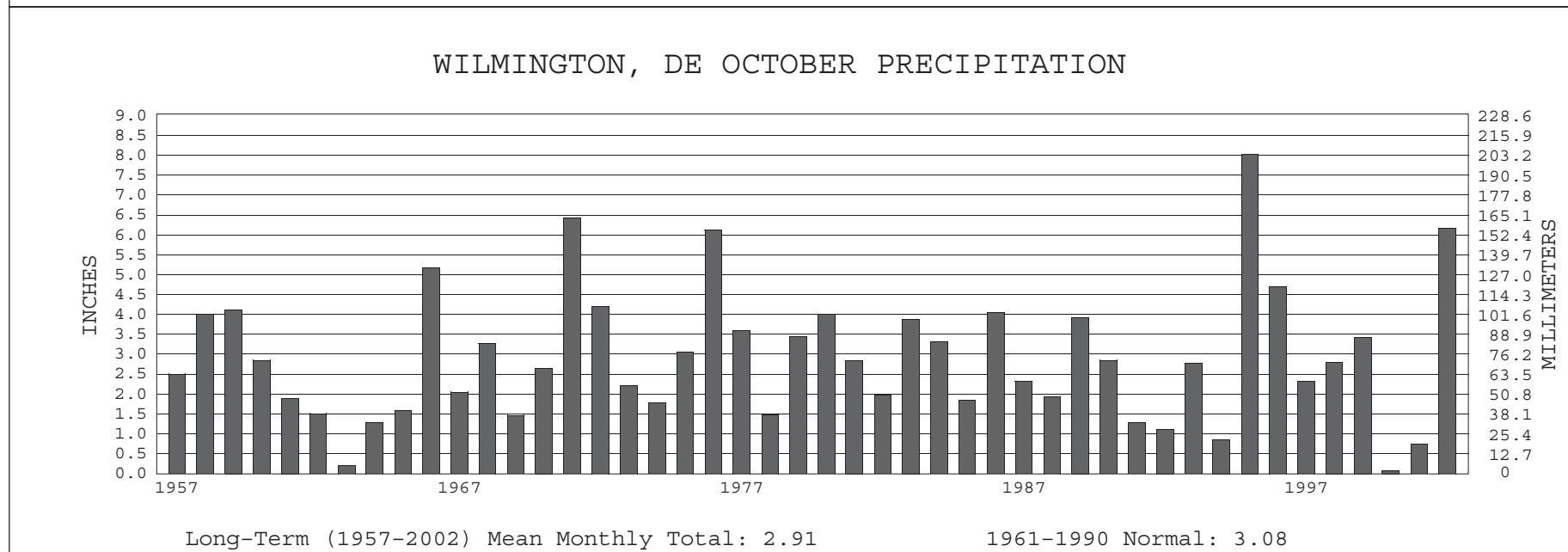
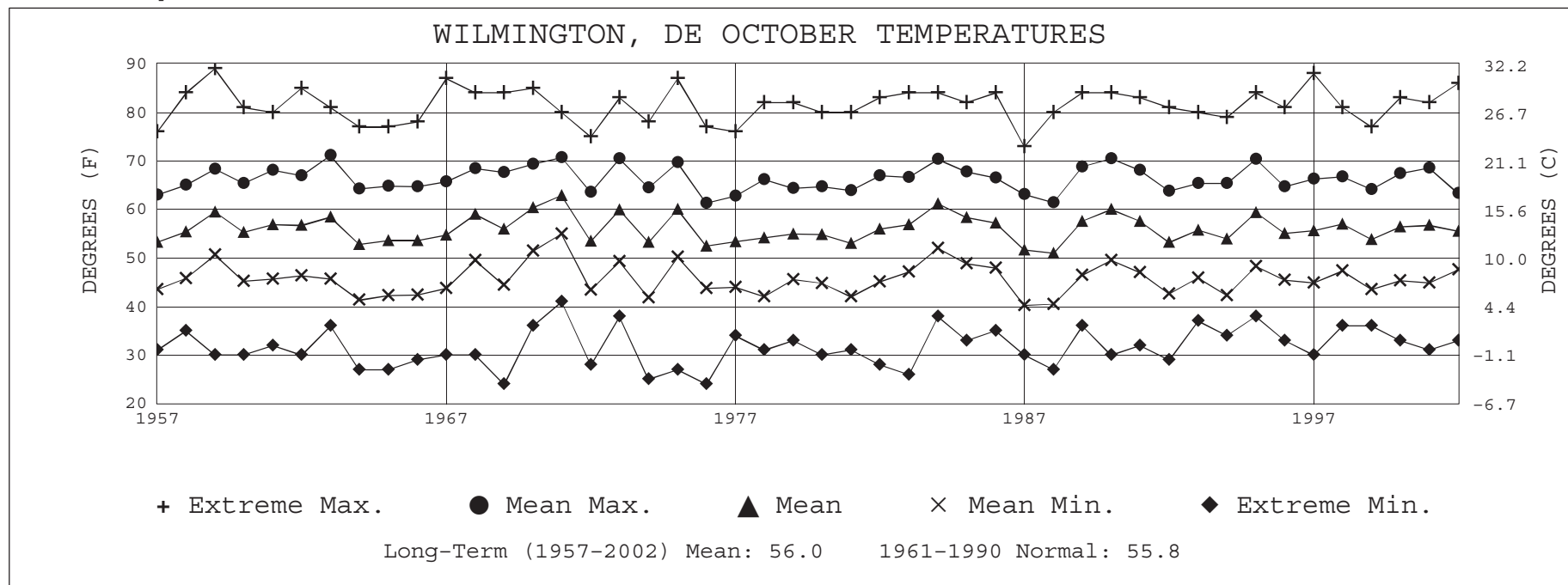
WILMINGTON, DE

OCTOBER 2002

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: 0623 OCT 25							SUNSET: 1709							SUNRISE: 0630 OCT 31							SUNSET: 1702									
01	OVC	036			10.00		42	32	38	68	9	01	30.29	30.38	01	OVC	049			10.00	-RA	37	35	36	93	10	36	29.86	29.95	
04	OVC	007			10.00		42	32	38	68	10	03	30.28	30.37	04	OVC	060			10.00	-RA	37	35	36	93	7	34	29.89	29.98	
07	OVC	031			9.00		42	32	38	68	9	02	30.29	30.38	07	OVC	090			10.00	-RA	37	35	36	93	7	33	29.95	30.04	
10	OVC	027			10.00		46	31	40	56	8	04	30.30	30.39	10	OVC	090			10.00		41	34	38	76	10	32	29.98	30.06	
13	OVC	034			10.00		50	30	42	46	14	07	30.24	30.33	13	OVC	090			10.00		45	32	39	61	9	30	29.95	30.04	
16	OVC	034			10.00		53	30	43	41	9	08	30.19	30.28	16	FEW	NC			10.00		46	33	40	61	12	26	29.94	30.03	
19	OVC	036			10.00	-RA	51	28	41	41	10	08	30.13	30.21	19	CLR	NC			10.00		39	33	37	79	7	26	29.99	30.08	
22	OVC	023			8.00	RA	50	28	41	43	9	07	30.01	30.10	22	CLR	NC			10.00		36	33	35	89	6	25	30.00	30.09	
SUNRISE: 0624 OCT 26							SUNSET: 1708							3-HOURLY OBSERVATION NOTES																
01	OVC	029			7.00	-RA	52	51	52	97	10	07	29.92	30.01	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.															
04	OVC	007			10.00	-RA	53	53	53	100	8	32	29.83	29.92	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.															
07	OVC	032			10.00		52	51	52	97	8	32	29.80	29.89	NC= No ceiling detected.															
10	OVC	004			8.00		55	54	54	96	7	28	29.81	29.90	& = Original observation contained additional weather elements.															
13	BKN	033			10.00		62	53	57	73	17	29	29.79	29.87	See page 3 for additional notes.															
16	BKN	032			10.00		59	51	55	75	14	31	29.82	29.91																
19	CLR	NC			10.00		53	51	52	93	6	24	29.87	29.96																
22	CLR	NC			10.00		51	49	50	92	6	25	29.92	30.01																
SUNRISE: 0625 OCT 27							SUNSET: 1707							SUMMARY BY HOUR																
01	FEW	NC			10.00		50	46	48	86	7	29	29.95	30.04	AVERAGES														RESULTANT WIND (MPH)	
04	CLR	NC			9.00		46	44	45	93	3	25	29.98	30.06																
07	CLR	NC			6.00	BR	44	43	44	96	5	25	30.02	30.11	HOUR (LST)	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION			
10	CLR	NC			10.00		57	46	51	67	12	30	30.05	30.13								STATION	SEA LEVEL							
13	BKN	049			10.00		62	42	52	48	12	28	29.99	30.08	01			53	48	51	85	30.02	30.11	9.16	8	3	2			
16	CLR	NC			10.00		60	42	51	52	12	27	29.97	30.06	02			52	48	50	86	30.02	30.11	9.03	7	4	1			
19	CLR	NC			10.00		51	43	47	74	8	29	30.03	30.12	03			52	48	50	87	30.01	30.10	8.60	7	4	36			
22	CLR	NC			10.00		47	41	44	80	5	28	30.05	30.14	04			51	48	49	88	30.02	30.10	9.10	7	4	35			
SUNRISE: 0626 OCT 28							SUNSET: 1706							05			51	47	49	88	30.02	30.11	8.65	6	4	36				
01	OVC	055			10.00		48	39	44	71	5	30	30.06	30.15	06			50	47	49	89	30.03	30.12	8.55	7	4	36			
04	SCT	NC			10.00		47	39	43	74	6	28	30.05	30.14	07			51	47	49	88	30.03	30.12	7.94	7	4	36			
07	CLR	NC			10.00		46	39	43	77	6	30	30.06	30.15	08			53	48	51	83	30.05	30.13	8.08	9	4	36			
10	BKN	100			10.00		50	36	44	59	8	35	30.06	30.15	09			56	48	52	77	30.04	30.13	8.56	10	5	1			
13	CLR	NC			10.00		51	36	44	56	0	00	30.01	30.10	10			58	48	53	71	30.04	30.13	8.92	10	5	36			
16	OVC	100			10.00		52	37	45	57	7	30	29.99	30.08	11			59	48	53	67	30.03	30.12	9.02	10	5	35			
19	OVC	090			10.00		48	40	44	74	3	34	30.02	30.11	12			61	47	54	64	30.01	30.10	9.02	9	3	35			
22	SCT	NC			10.00		42	38	40	85	9	36	30.04	30.13	13			61	47	54	62	29.99	30.08	9.10	9	3	33			
SUNRISE: 0628 OCT 29							SUNSET: 1704							14			62	48	54	63	29.98	30.07	9.26	9	3	34				
01	OVC	090			10.00		44	32	39	63	9	02	30.07	30.16	15			61	48	54	64	29.98	30.07	9.23	10	3	31			
04	FEW	NC			10.00		40	30	36	68	9	36	30.08	30.17	16			61	48	54	64	29.98	30.07	9.10	10	2	33			
07	CLR	NC			10.00		39	31	36	73	12	03	30.09	30.17	17			60	48	54	68	29.99	30.08	9.08	9	2	1			
10	BKN	080			10.00		45	29	38	54	17	05	30.09	30.17	18			58	48	53	71	30.00	30.09	9.32	8	1	1			
13	OVC	070			7.00	RA	43	36	40	76	8	36	30.08	30.16	19			56	48	52	77	30.01	30.10	9.29	7	1	36			
16	OVC	036			3.00	-RA BR	41	39	40	93	10	04	29.99	30.08	20			55	49	52	80	30.01	30.10	9.23	7	2	35			
19	OVC	033			3.00	RA	38	37	38	97	9	03	29.98	30.07	21			54	48	51	81	30.02	30.11	9.23	8	2	35			
22	OVC	017			3.00	-RA	37	36	37	96	10	01	29.97	30.06	22			54	48	51	82	30.02	30.11	9.29	8	3	1			
SUNRISE: 0629 OCT 30							SUNSET: 1703							23			53	48	50	83	30.02	30.11	9.10	8	3	2				
01	OVC	010			3.00	-SN BR	37	36	37	96	15	02	29.92	30.01	24			53	48	50	85	30.02	30.11	9.00	8	3	36			
04	OVC	008			3.00	-RA	37	36	37	96	12	02	29.87	29.96																
07	OVC	008			3.00	-RA	37	36	37	96	15	02	29.87	29.96																
10	OVC	010			10.00		37	36	37	96	17	02	29.87	29.96																
13	OVC	019			10.00		38	35	37	89	16	02	29.81	29.90																
16	OVC	011			2.50	-RA BR	39	38	39	96	15	01	29.80	29.89																
19	OVC	016			5.00	RA BR	39	38	39	96	15	02	29.82	29.91																
22	OVC	012			7.00	-RA	38	37	38	97	12	36	29.87	29.96																





OCTOBER 2002
WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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