



JULY 1997

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE

GREATER WILMINGTON AIRPORT (ILG)
 Lat: 39° 40' N Long: 75° 36' W Elev (Ground): 74 Feet
 Time Zone: EASTERN WBAN: 13781 ISSN #: 0198-117X

JULY 1997
WILMINGTON, DE

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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																															
01	81	68	75	0	66	69	0	10	RA				0.06	29.85	29.93	6.9	17	7.2	17	16	15	17	01																															
02	80	68	74	-1	68	70	0	9	RA BR				0.05	29.75	29.83	7.9	14	8.4	21	15	18	15	02																															
03	92	73	83	8	71	74	0	18					0.00	29.59	29.67	9.4	20	10.9	23	20	18	21	03																															
04	90	71	81	6	59	67	0	16					0.00	29.62	29.70	11.3	26	12.4	32	25	24	25	04																															
05	82	61	72	-3	52	60	0	7					0.00	29.87	29.95	6.3	31	6.9	20	30	16	29	05																															
06	84	56	70	-6	59	64	0	5					0.00	29.98	30.07	4.7	15	8.0	22	16	18	16	06																															
07	87	65	76	0	63	68	0	11	BR HZ				0.00	30.01	30.09	2.7	26	4.3	17	26	15	29	07																															
08	90	62	76	0	50	62	0	11	BR HZ				0.00	30.02	30.10	6.2	17	8.0	22	16	20	15	08																															
09	93	69	81	5	64	70	0	16	TSRA RA BR HZ				0.14	29.86	29.94	7.2	20	10.4	32	26	26	27	09																															
10	83	64	74	-2	58	64	0	9	RA BR				T	29.98	30.07	7.3	36	9.0	21	36	17	36	10																															
11	85	58	72	-4	53	62	0	7					0.00	30.08	30.17	6.1	32	6.7	16	32	14	31	11																															
12	90	61	76	0	57	65	0	11					0.00	30.01	30.09	4.9	27	5.8	18	29	16	29	12																															
13	93	65	79	3	62	69	0	14	BR HZ				0.00	29.87	29.95	3.8	27	5.8	15	24	13	25	13																															
14	94	68	81	5	65	71	0	16	BR HZ				0.00	29.83	29.91	5.4	26	7.0	18	30	15	28	14																															
15	99*	72	86	9	68	74	0	21	RA BR HZ				T	29.84	29.92	3.8	21	5.6	21	15	18	15	15																															
16	97	75	86*	9	67	73	0	21	BR HZ				0.00	29.86	29.94	5.2	28	6.1	17	28	16	29	16																															
17	97	73	85	8	65	72	0	20					0.00	29.79	29.87	5.6	24	6.8	17	27	15	19	17																															
18	98	72	85	8	63	70	0	20	RA HZ				0.03	29.71	29.79	8.1	27	9.6	33*	35	28*	35	18																															
19	90	68	79	2	54	64	0	14	HZ				0.00	29.80	29.88	8.6	32	10.3	24	30	20	02	19																															
20	82	58	70	-7	49	59	0	5					0.00	30.02	30.11	2.2	05	7.6	21	02	18	02	20																															
21	86	61	74	-3	68	71	0	9	BR HZ				0.00	29.96	30.04	6.1	16	6.7	20	14	17	17	21																															
22	78	68	73	-4	66	68	0	8	RA BR				0.78	29.99	30.07	5.4	05	7.3	29	36	24	35	22																															
23	71	62	67	-10	61	62	0	2	RA BR				1.38	30.07	30.15	10.7	07	11.4	23	08	20	05	23																															
24	65	60	63*	-14	61	62	2	0	RA BR				0.61	29.98	30.06	14.5	03	15.5	28	02	24	06	24																															
25	80	59	70	-7	60	64	0	5					0.00	29.92	30.00	6.0	31	7.5	16	28	14	27	25																															
26	86	63	75	-2	64	68	0	10	BR HZ				0.00	29.85	29.94	2.8	22	5.9	15	29	13	16	26																															
27	91	73	82	5	74	76	0	17	BR HZ				0.00	29.75	29.83	6.1	18	6.9	16	16	14	17	27																															
28	92	71	82	5	71	74	0	17	TS TSRA RA BR HZ				0.03	29.73	29.81	6.5	28	7.9	20	29	16	26	28																															
29	82	63	73	-4	55	63	0	8	BR HZ				0.00	29.91	29.99	10.1	34	10.6	23	01	20	33	29																															
30	81	56*	69	-8	50	59	0	4					0.00	30.12	30.20	3.5	36	6.2	16	15	14	15	30																															
31	86	58	72	-5	55	63	0	7					0.00	30.14	30.22	3.1	30	5.1	14	31	13	31	31																															
< MONTHLY AVERAGES											TOTALS-->				3.08	29.89	29.98	2.0	28	8.0	<- MONTHLY AVERAGES																																	
1.0											-1.9		-0.5		<----- DEPARTURE FROM NORMAL ----->											-1.15		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																										
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 1.72 DATE: 23-24											SEA LEVEL PRESSURE DATE TIME																																
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL:											MAXIMUM : 30.26 31 0922																																
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH:											MINIMUM : 29.59 03 1859																																
HEATING: 2 2 2 2											NUMBER OF DAYS WITH =>											MAXIMUM TEMP ≥ 90: 14											MINIMUM TEMP ≤ 32: 0											PRECIPITATION ≥ 0.01 INCH : 8										
COOLING: 348 -5 561 -35																						MAXIMUM TEMP ≤ 32 : 0											MINIMUM TEMP ≤ 0 : 0											PRECIPITATION ≥ 0.10 INCH : 4										
																						THUNDERSTORMS : 2											HEAVY FOG : 0											SNOWFALL ≥ 1.0 INCH : 0										

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

JULY 1997 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			0.06	
02	T	0.01		T	T							0.01	02	T			T	T	0.01	0.03	0.02	T			0.01	02		0.05	
03													03												03			0.00	
04													04												04			0.00	
05													05												05			0.00	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09								0.13	0.01	T	T	09			0.14	
10				T	T	T							10											10			T		
11													11											11			0.00		
12													12											12			0.00		
13													13											13			0.00		
14													14											14			0.00		
15													15				T							15			T		
16													16											16			0.00		
17													17											17			0.00		
18													18											18			0.03		
19													19											19			0.00		
20													20											20			0.00		
21													21											21			0.00		
22	T	0.01	0.77	T	T	T						T	22											22			0.78		
23	T			0.01	T	T	0.01	0.04	0.10	0.01	T	0.01	23	0.10	0.10	0.05	0.23	0.12	0.07	0.05	0.02	0.16	0.18	0.09	0.03	23		1.38	
24	T	T	T	0.05	0.02	0.22	0.06	0.04	0.02	0.03	0.02	T	24	T							T	0.01	0.13	0.01	T	24		0.61	
25													25												25			0.00	
26													26												26			0.00	
27													27												27			0.00	
28													28												28	0.02		0.03	
29													29						T		0.02				29			0.00	
30													30												30			0.00	
31													31												31			0.00	

MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.15	.25	.34	.43	.59	.73	.77	.78	.78	.78	.78	.78
Ending Date	22	22	22	22	22	22	22	22	22	22	22	22
Ending Time (Hour/Min)	0236	0240	0238	0240	0240	0241	0243	0243	0243	0243	0243	0243

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.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = 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

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

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

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

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

NORMALS ARE FOR THE YEARS 1961 – 1990

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PE Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

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

WILMINGTON, DE JULY 1997

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).

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							8.00	10.00	
02							3.00	10.00	
03							8.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							5.00	10.00	
08							3.00	10.00	
09							2.50	10.00	
10							5.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							5.00	10.00	
14							2.50	10.00	
15							1.75	7.00	
16							2.50	10.00	
17							7.00	10.00	
18							6.00	10.00	
19							6.00	10.00	
20							10.00	10.00	
21							5.00	10.00	
22							4.00	10.00	
23							1.50	10.00	
24							2.00	10.00	
25							10.00	10.00	
26							4.00	10.00	
27							2.00	6.00	
28							2.50	10.00	
29							1.50	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							5.73	9.77	
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 11 12									

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JULY 1997

ILG

WBAN # 13781

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)									
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oктаs		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 Oктаs	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
																														DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	DRY BULB	DEW POINT
SUNRISE: 0446						JUL 13						SUNSET: 1931						SUNRISE: 0450						JUL 19						SUNSET: 1927					
01	CLR	NC				69	63	65	81	7	36	29.93	30.01	01	CLR	NC				73	62	66	69	7	28	29.72	29.80								
04	CLR	NC				67	63	64	87	0	00	29.89	29.98	04	CLR	NC				71	65	67	81	5	28	29.73	29.81								
07	CLR	NC			HZ	72	65	68	79	6	32	29.91	29.99	07	CLR	NC				75	65	69	71	7	33	29.78	29.86								
10	CLR	NC				87	57	68	36	6	VR	29.90	29.98	10	CLR	NC				82	57	67	43	12	29	29.81	29.89								
13	CLR	NC				91	57	69	32	7	26	29.86	29.94	13	CLR	NC				88	47	64	24	16	30	29.79	29.88								
16	CLR	NC				92	59	71	33	7	25	29.81	29.90	16	CLR	NC				89	44	63	21	14	31	29.77	29.85								
19	CLR	NC				87	62	71	43	7	24	29.81	29.90	19	CLR	NC				84	48	63	29	6	33	29.82	29.90								
22	CLR	NC				80	64	70	58	6	24	29.82	29.91	22	CLR	NC				74	45	58	36	13	01	29.91	29.99								
SUNRISE: 0447						JUL 14						SUNRISE: 0451						JUL 20						SUNSET: 1926											
01	CLR	NC				75	68	70	79	5	23	29.82	29.91	01	CLR	NC				68	49	58	51	16	03	29.99	30.08								
04	CLR	NC			BR	71	68	69	90	0	00	29.82	29.90	04	CLR	NC				61	45	53	56	10	01	30.01	30.10								
07	CLR	NC			HZ	77	63	68	62	8	30	29.86	29.94	07	CLR	NC				66	46	55	49	8	02	30.05	30.14								
10	CLR	NC				89	60	70	38	9	32	29.87	29.95	10	CLR	NC				72	45	57	38	5	VR	30.07	30.16								
13	CLR	NC			HZ	91	62	72	38	8	27	29.83	29.92	13	CLR	NC				78	44	59	30	7	31	30.03	30.12								
16	CLR	NC			HZ	92	63	73	38	5	VR	29.79	29.88	16	CLR	NC				79	48	61	34	6	15	29.98	30.07								
19	CLR	NC			HZ	88	65	73	46	8	24	29.80	29.88	19	CLR	NC				76	56	64	50	7	19	29.99	30.08								
22	CLR	NC			HZ	81	68	72	65	5	23	29.82	29.90	22	CLR	NC				70	59	63	68	8	18	30.02	30.10								
SUNRISE: 0447						JUL 15						SUNRISE: 0452						JUL 21						SUNSET: 1926											
01	CLR	NC			HZ	77	70	72	79	8	22	29.83	29.91	01	CLR	NC				66	59	62	78	3	19	30.02	30.10								
04	CLR	NC			HZ	75	69	71	82	5	24	29.83	29.91	04	SCT	NC				65	60	62	84	0	00	30.00	30.09								
07	CLR	NC			HZ	79	71	74	77	0	00	29.84	29.92	07	BKN	028				70	63	66	79	0	00	30.01	30.10								
10	CLR	NC			HZ	91	68	75	47	6	VR	29.86	29.95	10	OVC	029				77	68	71	74	10	14	30.00	30.09								
13	CLR	NC			HZ	94	64	74	37	6	VR	29.85	29.93	13	BKN	042				82	71	75	69	13	14	29.95	30.04								
16	FEW	NC			HZ	95	68	76	41	12	17	29.81	29.89	16	FEW	NC				84	72	76	67	14	17	29.91	30.00								
19	CLR	NC			HZ	87	73	77	63	6	19	29.83	29.91	19	CLR	NC				81	73	75	77	9	16	29.90	29.99								
22	CLR	NC			HZ	83	70	74	65	0	00	29.86	29.95	22	CLR	NC				77	75	76	94	7	14	29.88	29.97								
SUNRISE: 0448						JUL 16						SUNRISE: 0453						JUL 22						SUNSET: 1925											
01	CLR	NC			HZ	80	70	73	71	5	18	29.85	29.94	01	CLR	NC				77	74	75	90	3	20	29.88	29.96								
04	BKN	080			BR	76	72	73	88	5	32	29.86	29.94	04	OVC	010				68	66	67	93	13	02	29.92	30.01								
07	CLR	NC			HZ	81	69	73	67	7	32	29.88	29.97	07	SCT	NC				69	66	67	90	12	04	29.96	30.05								
10	CLR	NC			HZ	89	68	75	50	7	31	29.89	29.97	10	OVC	015				71	66	68	84	8	07	30.02	30.10								
13	CLR	NC				95	65	75	37	10	27	29.87	29.95	13	OVC	018				74	65	68	74	8	04	30.01	30.09								
16	CLR	NC				95	61	73	32	10	26	29.82	29.90	16	OVC	028				75	65	69	71	0	00	29.99	30.08								
19	CLR	NC				89	61	71	39	9	28	29.81	29.90	19	OVC	026				74	66	69	76	5	17	30.01	30.09								
22	SCT	NC				83	65	71	55	7	19	29.84	29.92	22	OVC	033				71	68	69	90	8	11	30.01	30.10								
SUNRISE: 0449						JUL 17						SUNRISE: 0454						JUL 23						SUNSET: 1924											
01	CLR	NC				78	68	71	71	3	25	29.83	29.92	01	OVC	038				70	61	64	73	5	13	30.02	30.11								
04	CLR	NC				74	67	69	79	6	27	29.81	29.90	04	OVC	048				68	60	63	76	7	09	30.03	30.12								
07	CLR	NC				79	65	70	62	5	28	29.84	29.93	07	OVC	050				66	58	61	75	13	05	30.06	30.15								
10	CLR	NC				91	62	72	38	5	VR	29.84	29.92	10	OVC	048				64	59	61	84	14	05	30.09	30.18								
13	SCT	NC				92	60	71	34	9	24	29.79	29.87	13	OVC	033				64	61	62	90	8	06	30.09	30.18								
16	CLR	NC				96	63	74	34	8	22	29.73	29.81	16	OVC	003				64	64	64	100	0	00	30.08	30.16								
19	CLR	NC				90	64	73	42	12	21	29.72	29.80	19	OVC	030				63	60	61	90	15	09	30.08	30.17								
22	SCT	NC				83	67	72	59	10	23	29.74	29.82	22	OVC	008				63	62	62	97	12	07	30.06	30.15								
SUNRISE: 0450						JUL 18						SUNRISE: 0455						JUL 24						SUNSET: 1923											
01	CLR	NC				79	70	73	74	8	23	29.73	29.81	01	OVC	011				64	63	63	96	15	05	30.02	30.11								
04	CLR	NC				75	66	69	74	5	26	29.74	29.82	04	OVC	006				65	64	64	97	13	06	29.98	30.07								
07	CLR	NC				79	65	70	62	8	24	29.76	29.84	07	OVC	007				64	63	63	96	16	02	30.00	30.09								
10	CLR	NC				89	63	72	42	14	30	29.75	29.83	10	OVC	009				64	62	63	93	22	05	29.99	30.08								
13	SCT	NC				93	63	73	37	14	26	29.71	29.79	13	OVC	010				62	60	61	93	16	04	29.97	30.06								
16	CLR	NC				97	55	70	25	17	26	29.63	29.72	16	OVC	012				62	58	60	86	18	02	29.95	30.04								
19	FEW	NC				91	62	72	38	10	21	29.62	29.71	19	OVC	014				63	59	61	87	14	02	29.93	30.02								
22	CLR	NC				75	62	67	64	0	00	29.73	29.81	22	OVC	019				60	60	60	100	12	35	29.96	30.04								

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

JULY 1997

ILG

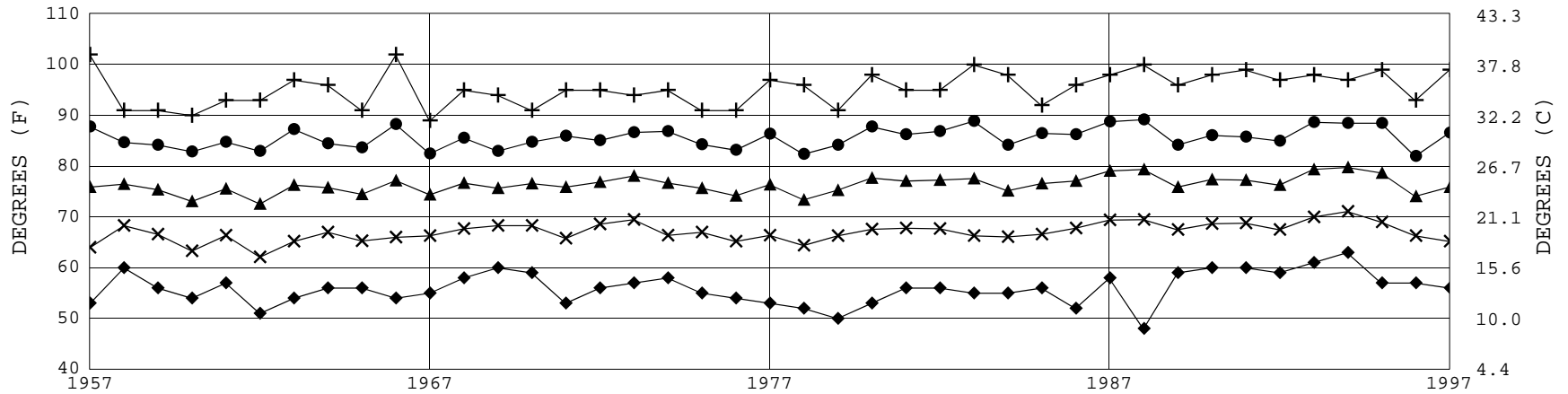
WBAN # 13781

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)		HOUR (LST)	≤ 12K FEET		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
SUNRISE: 0455 JUL 25						SUNSET: 1923						SUNRISE: 0501 JUL 31						SUNSET: 1917									
01	OVC	017				60	59	59	96	8	32	29.94	30.03	01	CLR	NC				65	59	61	81	0	00	30.15	30.24
04	OVC	016				60	58	59	93	9	32	29.92	30.01	04	CLR	NC				60	57	58	90	3	29	30.14	30.22
07	OVC	017				62	58	60	86	7	34	29.95	30.04	07	CLR	NC				65	55	59	70	5	32	30.16	30.25
10	OVC	023				69	58	62	68	8	35	29.96	30.05	10	CLR	NC				80	53	64	39	7	36	30.16	30.25
13	BKN	039				78	60	67	54	3	01	29.91	30.00	13	CLR	NC				84	53	65	35	7	03	30.14	30.22
16	OVC	047				79	61	68	54	8	28	29.89	29.98	16	CLR	NC				85	51	65	31	7	VR	30.10	30.19
19	CLR	NC				76	62	67	62	12	28	29.88	29.97	19	CLR	NC				79	56	65	45	6	29	30.10	30.19
22	CLR	NC				69	62	65	78	7	24	29.89	29.98	22	CLR	NC				72	57	63	60	6	25	30.13	30.21
SUNRISE: 0456 JUL 26						SUNSET: 1922						3-HOURLY OBSERVATION NOTES															
													Sky Cover is the amount of the sky obscured. CLR = 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.														
01	CLR	NC			9.00	65	63	64	93	6	25	29.87	29.96														
04	CLR	NC			5.00 BR	63	62	62	97	6	28	29.87	29.96														
07	CLR	NC			5.00 BR	68	64	66	87	5	26	29.89	29.98														
10	CLR	NC			10.00	80	60	68	51	3	VR	29.88	29.97														
13	CLR	NC			10.00	85	60	69	43	8	28	29.85	29.93														
16	CLR	NC			10.00	85	62	70	46	0	00	29.81	29.90														
19	CLR	NC			10.00	78	67	71	69	10	16	29.82	29.91														
22	BKN	110			7.00	75	71	72	88	7	16	29.82	29.90														
SUNRISE: 0457 JUL 27						SUNSET: 1921																					
01	BKN	095			6.00 HZ	75	70	72	84	6	17	29.81	29.89														
04	CLR	NC			4.00 BR	73	71	72	94	7	19	29.78	29.87														
07	FEW	NC			2.50 BR	74	72	73	94	6	18	29.80	29.88														
10	CLR	NC			4.00 HZ	85	75	78	72	7	19	29.78	29.87														
13	CLR	NC			5.00 HZ	90	71	77	54	12	22	29.73	29.82														
16	CLR	NC			5.00 HZ	87	75	78	67	14	16	29.70	29.78														
19	FEW	NC			3.00 HZ	84	75	78	74	5	16	29.69	29.78														
22	CLR	NC			4.00 HZ	82	75	77	79	0	00	29.72	29.80														
SUNRISE: 0458 JUL 28						SUNSET: 1920																					
01	CLR	NC			3.00 BR	78	76	77	93	9	25	29.72	29.80														
04	CLR	NC			4.00 BR	74	71	72	91	6	32	29.71	29.79														
07	CLR	NC			6.00 HZ	77	69	72	77	6	30	29.76	29.84														
10	CLR	NC			10.00	83	67	72	59	7	VR	29.77	29.85														
13	CLR	NC			10.00	88	67	74	50	9	30	29.74	29.83														
16	CLR	NC			10.00	91	70	76	50	8	24	29.68	29.77														
19	FEW	NC			10.00 -TSRA	77	73	74	88	10	22	29.68	29.77														
22	CLR	NC			4.00 BR	75	74	74	96	6	28	29.73	29.82														
SUNRISE: 0459 JUL 29						SUNSET: 1919																					
01	BKN	100			4.00 BR	74	72	73	94	7	30	29.75	29.84														
04	BKN	095			10.00	74	67	69	79	12	32	29.77	29.85														
07	CLR	NC			1.50 HZ	74	62	67	67	9	34	29.85	29.93														
10	CLR	NC			10.00	80	54	64	41	13	01	29.92	30.00														
13	CLR	NC			10.00	80	50	63	35	10	35	29.91	30.00														
16	CLR	NC			10.00	81	47	62	30	13	32	29.92	30.00														
19	CLR	NC			10.00	76	48	60	37	9	32	29.96	30.05														
22	CLR	NC			10.00	65	49	56	56	7	34	30.03	30.11														
SUNRISE: 0460 JUL 30						SUNSET: 1918																					
01	CLR	NC			10.00	63	45	54	52	6	35	30.07	30.16														
04	CLR	NC			10.00	57	47	52	69	5	33	30.08	30.17														
07	CLR	NC			10.00	65	48	56	54	9	35	30.12	30.21														
10	CLR	NC			10.00	76	49	61	39	8	02	30.14	30.23														
13	CLR	NC			10.00	79	48	61	34	5	VR	30.12	30.21														
16	BKN	075			10.00	79	48	61	34	3	VR	30.10	30.19														
19	CLR	NC			10.00	74	50	60	43	7	35	30.10	30.19														
22	CLR	NC			10.00	68	60	63	76	8	18	30.15	30.23														

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			70	63	66	79	29.89	29.97	8.16	7	2	25	
02			69	62	65	80	29.88	29.97	8.29	7	1	30	
03			68	62	65	81	29.88	29.97	8.13	6	2	31	
04			68	62	64	84	29.89	29.97	8.13	6	2	32	
05			67	62	64	84	29.89	29.98	7.65	6	2	33	
06			68	62	65	82	29.91	29.99	7.44	6	2	33	
07			71	62	66	73	29.91	30.00	7.74	7	2	34	
08			74	61	66	65	29.92	30.01	8.65	9	4	34	
09			77	61	67	59	29.92	30.01	8.61	8	2	34	
10			80	60	68	55	29.92	30.01	9.06	7	1	36	
11			81	60	68	50	29.92	30.00	9.13	10	2	28	
12			83	59	68	48	29.91	29.99	9.26	9	3	28	
13			84	59	68	46	29.89	29.98	9.11	9	2	26	
14			84	59	68	45	29.88	29.97	9.08	11	3	25	
15			85	59	69	45	29.87	29.95	9.16	10	4	25	
16			85	59	69	45	29.86	29.94	8.85	10	4	23	
17			84	60	69	47	29.86	29.94	9.00	11	3	24	
18			82	60	69	50	29.86	29.94	8.81	10	3	22	
19			80	61	68	56	29.86	29.95	9.06	9	3	24	
20			77	61	67	62	29.87	29.96	8.90	7	1	24	
21			75	63	67	67	29.89	29.97	8.74	7	2	21	
22			74	63	67	72	29.89	29.98	8.47	6	1	20	
23			73	63	67	73	29.90	29.98	8.42	6	2	26	
24			71	63	66	75	29.90	29.98	8.35	6	1	29	

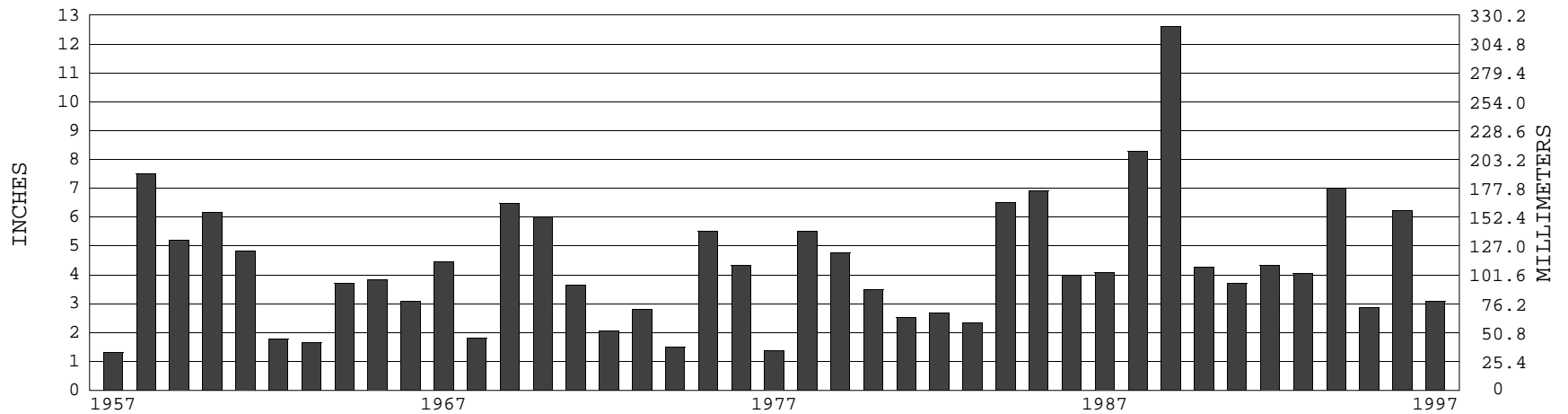
WILMINGTON, DE JULY TEMPERATURES



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

Long-Term (1957-1997) Mean: 76.4 1961-1990 Normal: 76.4

WILMINGTON, DE JULY PRECIPITATION



Long-Term (1957-1997) Mean Monthly Total: 4.35

1961-1990 Normal: 4.23



JULY 1997
WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

ACTING DIRECTOR

NOTICE

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

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