

OCTOBER 1995
WILMINGTON, DE
GREATER WILMINGTON AIRPORT

LOCAL CLIMATOLOGICAL DATA

published by: National Climatic Data Center



LATITUDE: 39° 40' N LONGITUDE: 75° 36' W ELEVATION (GROUND): 74 FEET TIME ZONE: EASTERN STANDARD ISSN # 0198-117X WBAN # 13781

DATE	TEMPERATURE° F						DEG DAYS BASE 65°		SIGNIFICANT WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES				SUNSHINE		CLOUDINESS									
	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 WIND SPEED	RES DIR	AVERAGE SPEED	MAXIMUM				TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN				
																			5-SEC		2-MIN				CEILOMETER TENTHS	SATELLITE TENTHS	CEILOMETER TENTHS	SATELLITE TENTHS			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			
01	70	48	59	-3	52	56	6	0	F	0		0.0	0.00	30.01	30.10	0.6	15	4.3	11	25	9	25			1		1				
02	81	53	67	5	57	61	0	2	F+H	0		0.0	0.00	29.87	29.95	3.4	27	4.5	15	30	11	28			1	0	1	0			
03	82	54	68	7	59	63	0	3	FH	0		0.0	0.00	29.83	29.92	3.1	13	5.8	15	16	11	16			4	3	3				
04	76	65	71	10	65	67	0	6	RF	0		0.0	0.16	29.82	29.90	3.8	18	5.6	13	21	11	21			3		6				
05	77	66	72	12	71	71	0	7	RF	0		0.0	1.91	29.70	29.78	6.8	10	9.5	29	16	22	15			10	10					
06	84*	71	78*	18	67	70	0	13		0		0.0	0.00	29.64	29.72	7.8	21	9.5	30	20	23	21			0	3	1				
07	71	62	67	8	64	65	0	2	FH	0		0.0	0.00	29.77	29.85	6.6	3	7.4	16	32	15	33			10		10				
08	70	49	60	1	49	54	5	0	F	0		0.0	0.00	29.97	30.05	7.9	31	8.3	22	30	20	31			2	0		0			
09	70	46	58	-1	46	52	7	0		0		0.0	0.00	30.08	30.17	1.0	19	4.3	10	13	9	15			0	0					
10	73	48	61	3	52	56	4	0	FH	0		0.0	0.00	30.12	30.20	2.8	15	4.6	14	14	11	15			0	0	0	0			
11	73	50	62	4	55	58	3	0	FH	0		0.0	0.00	30.12	30.21	1.0	18	3.9	10	16	9	16			1		0				
12	81	52	67	9	54	59	0	2	FH	0		0.0	0.00	30.07	30.16	5.0	26	5.8	16	22	14	23			0						
13	81	53	67	10	54	59	0	2	FH	0		0.0	0.00	30.00	30.09	4.1	22	5.3	16	20	14	23			0	0					
14	76	58	67	11	65	66	0	2	TRFH	0		0.0	2.48	29.71	29.80	4.8	20	8.6	30	31	28	30			9	8	9				
15	62	48	55	-1	40	48	10	0	RF	0		0.0	0.09	29.64	29.72	10.8	27	11.2	26	28	22	30			1	3	3				
16	60	42	51	-5	33	43	14	0		0		0.0	0.00	29.89	29.98	11.7	28	12.5	32	29	26	28			0		0				
17	63	39	51	-5	35	43	14	0		0		0.0	0.00	30.22	30.31	5.2	30	6.0	23	32	21	31			0	0					
18	68	38	53	-2	41	47	12	0		0		0.0	0.00	30.19	30.27	5.2	22	6.2	21	20	17	21			0	2		1			
19	71	43	57	2	49	53	8	0	F	0		0.0	0.00	30.16	30.24	2.1	15	3.8	11	15	10	15			0	0					
20	75	49	62	7	60	61	3	0	RF+	0		0.0	0.16	29.95	30.03	8.5	11	9.9	26	13	21	13			9		7				
21	71	44	58	4	52	54	7	0	RF	0		0.0	1.13	29.68	29.76	2.9	20	12.0	36	15	30	14			10		7				
22	63	39	51	-3	41	46	14	0		0		0.0	0.00	30.06	30.14	7.0	23	7.6	21	24	17	24			0	0	0				
23	74	40	57	3	48	52	8	0		0		0.0	0.00	30.21	30.30	2.3	17	3.5	13	16	11	15			0	0	0				
24	74	45	60	7	54	57	5	0	F	0		0.0	0.00	30.00	30.09	8.6	20	10.1	31	22	26	22			0	0	1				
25	65	43	54	1	40	46	11	0		0		0.0	0.00	30.02	30.10	7.9	31	8.2	25	32	22	31			0	2	1	2			
26	63	38	51	-2	39	44	14	0	FH	0		0.0	0.00	29.95	30.03	1.9	30	4.7	9	20	8	21			1		0				
27	66	40	53	1	52	54	12	0	TRFH	0		0.0	0.90	29.74	29.82	7.8	15	9.1	24	14	20	15			1		4				
28	68	50	59	7	51	55	6	0	RF	0		0.0	1.18	29.50	29.58	9.4	25	10.1	34	28	29	26			6	5	5	6			
29	57	39	48	-4	38	44	17	0		0		0.0	0.00	29.89	29.97	11.3	27	12.0	41	29	36	29			4		2	1			
30	57	38*	48*	-3	36	43	17	0		0		0.0	0.00	30.19	30.28	7.4	27	8.4	25	28	22	29			1		2				
31	60	48	54	3	45	49	11	0	R	0		0.0	T	30.24	30.33	1.1	12	3.3	11	07	9	14			7		8				
70.4 48.3 59.3 3.1 50.4 54.7 <----- MONTHLY AVERAGES ----->										29.94 30.03		2.6 24		7.3 <- MONTHLY AVERAGES ->		3		3													
DEPARTURE 3.8 2.6			DEGREE DAYS MONTHLY SEASON TO DATE						TOTAL SNOWFALL: 0.0 TOTAL PRECIPITATION: 8.01						SUNSHINE TOTALS: PERCENT POSSIBLE:						PERCENT POSSIBLE:										
			TOTAL DEPARTURE 208 -80 249 -74						PRECIP. DEPARTURE: 5.13 TOTAL DATE 14-15						WIND SPEED DIRECTION DATE						MAXIMUM 5-SECOND : 41 29 29										
HEATING:			208 -80 249 -74						GREATEST 24-HR PRECIPITATION: 2.57						MAXIMUM 2-MINUTE : 36 29 29																
COOLING:			39 24 1266 220						GREATEST 24-HR SNOWFALL: 0.0																						
			GREATEST SNOW DEPTH: 0																												
NUMBER OF DAYS WITH -->			SKY CONDITIONS CLEAR 9 PARTLY CLOUDY 2 CLOUDY 3						MAXIMUM TEMP ≥ 90 : 0 MINIMUM TEMP ≤ 32 : 0						PRECIPITATION ≥ 0.01 INCH : 8						<- NUMBER OF DAYS WITH										
									MAXIMUM TEMP ≤ 32 : 0 MINIMUM TEMP ≤ 0 : 0						PRECIPITATION ≥ 0.10 INCH : 7																
									THUNDERSTORMS : 2 HEAVY FOG : 2						SNOWFALL ≥ 1.0 INCH : 0																

OCTOBER 1995
WILMINGTON, DE

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

OCTOBER 1995 WBAN # 13781
WILMINGTON, DE

DATE	A.M. HOUR (L.S.T.) ENDING AT												DATE	P.M. HOUR (L.S.T.) ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	7	8	9	10	11	12	
01													01												01	
02													02												02	
03													03												03	
04			T								T	T	04	T	0.01	T	T	0.01	0.01	0.02	0.02	0.01	0.01	0.06	0.01	04
05		T	T	0.01	T	0.07	0.45	0.32	0.51	0.31	0.13	T	05	T	T	T	T	0.01	0.01	0.02	T	0.01	0.01	0.06	0.01	05
06													06												06	
07													07												07	
08													08												08	
09													09												09	
10													10												10	
11													11												11	
12													12												12	
13													13												13	
14						0.07	T	T	0.05	0.14	0.15	0.04	14	0.07	0.13	0.35			0.03	0.94	0.13	0.11		0.05	0.09	14 * 2.35
15	0.05	0.04											15													15
16													16												16	
17													17												17	
18													18												18	
19													19												19	
20													20								0.01	0.06	0.08		T	20 * 0.15
21	T					T	0.27	0.18	0.27	0.30	0.08	0.02	21	T	0.01										21	
22													22												22	
23													23												23	
24													24												24	
25													25												25	
26													26												26	
27													27							T	0.08	0.29	0.35	0.01	0.09	27 * 0.82
28	0.25	0.43	0.22	0.11	0.04	T							28			T	T									28 * 1.05
29													29												29	
30													30												30	
31									T	T			31													31

PUBLISHED BY: NCDC, ASHEVILLE, NC.

* The sum of the hourly totals follows the * when it disagrees with the daily total on page 1. NWS does not edit ASOS hourly precipitation but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

MAXIMUM SHORT DURATION PRECIPITATION (MSDP) **

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)												
ENDED: DATE												
ENDED: TIME												

** NCDC derives MSDP data from one-minute ASOS data. The MSDP data are not printed when inconsistent with ASOS hourly totals.

The time indicated is the ending time of the interval.
Date and time are not entered for trace amounts.

REFERENCE NOTES :

WFO = WEATHER FORECAST OFFICE.

ASOS = AUTOMATED SURFACE OBSERVING SYSTEM.

* = EXTREME FOR THE MONTH (LAST OCCURRENCE IF MORE THAN ONE).

T = TRACE PRECIPITATION AMOUNT.

+ = ALSO OCCURS ON EARLIER DATES.

F+ = HEAVY FOG, VISIBILITY .25 MILES OR LESS.

BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

THE HEATING DEGREE DAY SEASON BEGINS JULY 1.

THE COOLING DEGREE DAY SEASON BEGINS JANUARY 1.

CEILOMETER (30-SECOND) DATA ARE USED TO DERIVE CLOUDINESS AT OR BELOW 12,000 FEET. THIS CLOUDINESS IS THE MEAN CLOUD COVER DETECTED DURING THE TIME INTERVAL (HOUR, SUNRISE TO SUNSET, OR MIDNIGHT TO MIDNIGHT).

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. 50 x 50 KM).

SKY CONDITION IS BASED ON THE SUM (NOT TO EXCEED 10) 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 - 3 TENTHS, PARTLY CLOUDY = 4 - 7 TENTHS, AND CLOUDY = 8 - 10 TENTHS.

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' INDICATES CALM.

SR-SS = SUNRISE TO SUNSET. MN-MN = MIDNIGHT TO MIDNIGHT.

SNOWFALL IS FOR THE 24-HOUR PERIOD ENDING AT THE TIME INDICATED IN COLUMN HEADING.

WATER EQUIVALENT OF SNOW ON THE GROUND IS REPORTED ONLY WHEN THE DEPTH IS 2 OR MORE INCHES.

H, F, F+, P-, R, S, AND ZR ARE REPORTED FROM ASOS AUTOMATED SENSORS.

OTHER WEATHER TYPES MAY BE ADDED TO THE REPORT BY STATION PERSONNEL OR BE PROVIDED BY THE WEATHER FORECAST OFFICE (WFO).

A HAIL	GL GLAZE	SG SNOW GRAINS
BD BLOWING DUST	H HAZE	SP SNOW PELLETS
BN BLOWING SAND	IC ICE CRYSTALS	T THUNDER
BS BLOWING SNOW	IF ICE FOG	V VOLCANIC ASH
BY BLOWING SPRAY	IP ICE PELLETS	ZL FREEZING DRIZZLE
D DUST	K SMOKE	ZR FREEZING RAIN
F FOG	L DRIZZLE	& TORNADO
F+ HEAVY FOG	P- UNKN. PRECIP.	&C FUNNEL CLOUD
GF GROUND FOG	R RAIN	&W WATERSPOUT
	S SNOW	

NORMALS ARE FOR THE YEARS 1961 - 1990.

A HEATING (COOLING) DEGREE DAY IS THE DEFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65°F.

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 THE MOISTURE CONTENT WAS INCREASED TO 100% RELATIVE HUMIDITY.

TEMPERATURE - HUMIDITY INDEX (STEADMAN, 1979)

TEMPERATURE ° F	RELATIVE HUMIDITY (PERCENT)										
	0	10	20	30	40	50	60	70	80	90	100
120	107	116	130	148							
115	103	111	120	135	151						
110	99	105	112	123	137	150					
105	95	100	105	113	123	135	149				
100	91	95	99	104	110	120	132	144			
95	87	90	93	96	101	107	114	124	136		
90	83	85	87	90	93	96	100	106	113	122	
85	78	80	82	84	86	88	90	93	97	102	108
80	73	75	77	78	79	81	82	85	86	88	91
75	69	70	72	73	74	75	76	77	78	79	80
70	64	65	66	67	68	69	70	70	71	71	72

APPARENT
TEMPERATURE

WIND CHILL EQUIVALENT TEMPERATURE (SIPLE & PASSEL, 1945)

TEMPERATURE ° F	WIND VELOCITY (MPH)									
	4	5	10	15	20	25	30	35	40	45
45	45	43	34	29	26	23	21	20	19	18
40	40	37	26	23	19	16	13	12	11	10
35	35	32	22	16	12	8	6	4	3	2
30	30	27	16	9	4	1	-2	-4	-5	-6
25	25	22	10	2	-3	-7	-10	-12	-13	-14
20	20	16	3	-5	-10	-15	-18	-20	-21	-22
15	15	11	-3	-11	-17	-22	-25	-27	-29	-30
10	10	6	-9	-18	-24	-29	-33	-35	-37	-38
5	5	0	-15	-25	-31	-36	-41	-43	-45	-46
0	0	-5	-22	-31	-39	-44	-49	-52	-53	-54
-5	-5	-10	-27	-38	-46	-51	-56	-58	-60	-62
-10	-10	-15	-34	-45	-53	-59	-64	-67	-69	-70
-15	-15	-21	-40	-51	-60	-66	-71	-74	-76	-78
-20	-20	-26	-46	-58	-67	-74	-79	-82	-84	-85
-25	-25	-31	-52	-65	-74	-81	-86	-89	-92	-93
-30	-30	-36	-58	-72	-81	-88	-93	-97	-100	-102

ADDITIONAL INFORMATION :

OBSERVATIONS AT 3-HOURLY INTERVALS

OCTOBER 1995 WBAN # 13781
WILMINGTON, DE

HOUR (LST)	W 12K FEET			SATELLITE > 12K FT				VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	W 12K FEET			SATELLITE > 12K FT				VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		
	CEILOMETER TENTHS	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT TENTHS	LOWEST CLOUD TOP	HIGHEST CLOUD TOP	DRY BULB			DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	CEILOMETER TENTHS	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT TENTHS	LOWEST CLOUD TOP	HIGHEST CLOUD TOP	DRY BULB	DEW POINT	WET BULB			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
01	8	32	SUNRISE: 0558						OCT 01	SUNSET: 1746								01	7	110	SUNRISE: 0604													OCT 07	SUNSET: 1736			
04	0	NC	0357	5	140	330	10.00			58	51	54	78	3	04	30.11	30.20	04	10	6	0357	9	210	330	5.00	F	71	68	69	90	5	08	29.71	29.79				
07	0	NC	0657	0	NT	NT	7.00			51	50	51	96	0	00	30.08	30.17	07	10	4	0658	1	220	380	7.00		71	69	70	93	6	06	29.70	29.79				
10	0	NC					10.00			51	49	50	93	3	34	30.10	30.19	10	10	4					7.00		66	64	65	93	9	05	29.75	29.84				
13	1	NC					10.00			64	51	57	63	5	10	30.07	30.15	10	10	4					7.00		66	63	64	90	8	04	29.79	29.87				
16	0	NC					10.00			69	53	60	57	0	00	29.98	30.07	13	10	6					5.00	F	67	64	65	90	8	03	29.77	29.85				
19	0	NC					10.00			69	53	60	57	6	18	29.95	30.02	16	10	8	1557	7	150	330	5.00	F	68	64	66	87	8	02	29.77	29.85				
22	0	NC					10.00			62	54	58	75	5	20	29.95	30.03	19	10	6					5.00	F	64	62	63	93	9	36	29.80	29.88				
							7.00			56	53	54	90	0	00	29.95	30.03	22		4	2157	2	130	460	5.00	F	63	62	62	97	6	33	29.84	29.92				
01	0	NC	SUNRISE: 0559						OCT 02	SUNSET: 1744								01	9	65	SUNRISE: 0605													OCT 08	SUNSET: 1734			
04	0	NC	0357	0	NT	NT	4.00	F		54	51	52	90	0	00	29.91	30.00	04	5	NC	0357	0	NT	NT	5.00	F	62	59	60	90	6	32	29.86	29.95				
07	9	1	0657	0	NT	NT	<.25	F		53	52	53	96	0	00	29.89	29.98	07	8	70	0657	0	NT	NT	7.00		58	55	56	90	6	31	29.89	29.98				
10	0	NC	0957	0	NT	NT	10.00			55	55	55	100	3	25	29.91	29.99	10	3	42	0957	0	NT	NT	10.00		58	52	55	81	7	28	29.95	30.03				
13	0	NC	1257	0	NT	NT	10.00			70	60	64	71	6	27	29.91	29.98	13	0	NC	1258	2	150	150	10.00		64	47	55	54	14	31	30.00	30.07				
16	0	NC	1557	0	NT	NT	10.00			79	58	66	49	8	32	29.84	29.93	16	0	NC	1557	0	NT	NT	10.00		67	45	55	45	14	33	29.95	30.04				
19	0	NC					10.00			80	52	64	38	8	29	29.82	29.90	19	0	NC					10.00		66	45	55	47	12	31	29.95	30.04				
22	0	NC	2157	0	NT	NT	5.00	F		71	61	65	71	5	23	29.84	29.92	22		NC					10.00		57	46	51	67	6	32	30.02	30.09				
							7.00			64	60	62	87	0	00	29.86	29.95		NC	2157	0	NT	NT	10.00		52	46	49	80	6	31	30.05	30.13					
01	0	NC	SUNRISE: 0600						OCT 03	SUNSET: 1742								01	0	NC	SUNRISE: 0606													OCT 09	SUNSET: 1733			
04	0	NC	0357	0	NT	NT	5.00	F		61	58	59	90	0	00	29.86	29.94	04	0	NC	0357	2	130	460	10.00		48	45	47	89	6	33	30.05	30.13				
07	0	NC	0657	3	150	440	4.00	F		57	54	55	90	3	27	29.88	29.96	07	0	NC	0657	0	NT	NT	7.00		47	44	46	89	5	32	30.07	30.16				
10	1	NC	0957	1	130	150	10.00			57	54	55	90	3	35	29.89	29.98	10	0	NC	0957	0	NT	NT	10.00		48	45	47	89	3	33	30.11	30.20				
13	6	70	1257	3	300	440	10.00			71	52	60	51	7	07	29.91	29.99	13	0	NC	1257	0	NT	NT	10.00		61	44	52	54	5	10	30.14	30.23				
16	6	65					10.00			78	55	64	45	5	07	29.82	29.91	16	0	NC	1557	0	NT	NT	10.00		65	44	54	47	5	16	30.08	30.17				
19	2	NC					7.00			76	61	67	60	7	15	29.79	29.86	19		NC					10.00		67	47	56	49	6	14	30.05	30.13				
22	10	65					7.00			72	66	68	82	7	16	29.79	29.86	22		NC					10.00		59	49	54	70	5	20	30.07	30.16				
							7.00			72	65	68	79	9	16	29.80	29.88		NC	2157	0	NT	NT	10.00		57	48	52	72	0	00	30.09	30.18					
01	NC		SUNRISE: 0601						OCT 04	SUNSET: 1741								01	0	NC	SUNRISE: 0607													OCT 10	SUNSET: 1731			
04	50						10.00			70	65	67	84	8	16	29.77	29.86	04	0	NC	0357	0	NT	NT	7.00		52	49	51	90	0	00	30.11	30.19				
07	10	100					7.00			70	65	67	84	10	18	29.77	29.85	07	0	NC	0657	0	NT	NT	5.00	F	50	48	49	93	3	33	30.11	30.19				
10	0	NC					10.00			69	65	67	87	3	17	29.80	29.88	10	0	NC	0657	0	NT	NT	5.00		50	48	49	93	3	34	30.14	30.22				
13	1	NC					7.00	R		72	66	68	82	9	22	29.84	29.92	13	0	NC	0958	0	NT	NT	10.00		65	55	59	70	3	15	30.15	30.23				
16	2	NC	1558	10	330	350	7.00	R		76	67	70	74	7	15	29.80	29.88	16	0	NC	1258	0	NT	NT	10.00		69	53	60	57	3	14	30.10	30.19				
19	10	50					10.00	R		71	66	68	84	6	20	29.82	29.90	19	0	NC	1557	0	NT	NT	10.00		68	55	61	63	10	17	30.08	30.17				
22	10	27					3.00	RF		68	65	66	90	0	00	29.86	29.94	22	0	NC					10.00		63	54	58	73	5	16	30.10	30.19				
							7.00			66	65	65	97	5	35	29.88	29.96		NC	2157	0	NT	NT	10.00		60	53	56	78	5	12	30.14	30.22					
01	10	4	SUNRISE: 0602						OCT 05	SUNSET: 1739								01	0	NC	SUNRISE: 0608													OCT 11	SUNSET: 1730			
04	9	2	0357	10	300	380	5.00	F		66	66	66	100	6	02	29.84	29.93	04	0	NC					10.00		55	52	53	90	0	00	30.13	30.22				
07	10	4	0657	10	330	410	1.00	RF		67	67	67	100	6	08	29.80	29.89	07	0	NC	0357	0	NT	NT	7.00		52	50	51	93	3	33	30.12	30.21				
10	10	10	0957	9	260	380	1.50	RF		68	67	67	97	12	05	29.80	29.88	10	2	NC					5.00	F	53	51	52	93	0	00	30.15	30.24				
13	10	2	1257	10	320	380	2.50	F		68	67	67	97	7	07	29.77	29.86	13	0	NC					10.00		66	55	60	68	0	00	30.16	30.25				
16	25	1557					5.00	RF		73	73	73	100	0	00	29.70	29.79	16	0	NC					10.00		72	56	63	57	3	12	30.11	30.19				
19	95						10.00			76	75	75	97	8	10	29.64	29.72	19	1	NC					10.00		72	58	64	62	7	15	30.08	30.17				
22	30	2157	9	220	330		10.00			75	73	74	94	13	13	29.59	29.68	22	0	NC					7.00		66	57	61	73	3	20	30.10	30.19				
							10.00			75	73	74	94	17	13	29.50	29.59		NC	2157	0	NT	NT	5.00	H	61	56	58	84	6	18	3						

OBSERVATIONS AT 3-HOURLY INTERVALS

OCTOBER 1995 WBAN # 13781
WILMINGTON, DE

HOUR (LST)	≤ 12K FEET		SATELLITE > 12K FT				VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		SATELLITE > 12K FT				VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		
	CEILOMETER TENTHS	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT TENTHS	LOWEST CLOUD TOP	HIGHEST CLOUD TOP			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		CEILOMETER TENTHS	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT TENTHS	LOWEST CLOUD TOP	HIGHEST CLOUD TOP			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0610 OCT 13 SUNSET: 1727																																		
01	0	NC					7.00		58	55	56	90	6	25	30.05	30.12	01	0	NC	0057	0	NT	NT	10.00			48	44	46	86	0	00	30.15	30.24
04	0	NC	0357	0	NT	NT	5.00	F	56	53	54	90	0	00	30.04	30.12	04	0	NC	0357	0	NT	NT	10.00			44	42	43	93	0	00	30.16	30.24
07	0	NC	0657	0	NT	NT	5.00	F	55	51	53	87	0	00	30.05	30.14	07	0	NC	0657	0	NT	NT	7.00			45	43	44	93	3	34	30.18	30.27
10	0	NC	0957	0	NT	NT	10.00		71	54	61	55	3	22	30.05	30.14	10	0	NC	0957	0	NT	NT	10.00			65	52	58	63	0	00	30.20	30.28
13	0	NC	1257	0	NT	NT	10.00		78	55	64	45	9	21	30.00	30.08	13	0	NC				10.00			69	51	59	53	6	14	30.15	30.24	
16	0	NC					10.00		76	50	61	40	8	21	29.96	30.04	16	0	NC	1557	1	130	460	10.00			69	51	59	53	8	16	30.13	30.21
19	0	NC					10.00		64	53	58	68	8	21	29.96	30.04	19	0	NC				10.00			61	53	57	75	7	13	30.14	30.22	
22	0	NC	2157	5	150	300	7.00		63	55	59	75	5	33	29.95	30.04	22	0	NC	2157	0	NT	NT	10.00			57	55	56	93	5	11	30.15	30.23
SUNRISE: 0611 OCT 14 SUNSET: 1725																																		
01	2	NC					5.00	H	61	56	58	84	0	00	29.93	30.01	01	0	NC	0057	0	NT	NT	7.00			50	49	50	96	0	00	30.13	30.22
04	10	26	0357	4	130	300	7.00		66	60	62	81	0	00	29.88	29.96	04	0	NC	0357	0	NT	NT	5.00			49	49	49	100	3	03	30.10	30.19
07	10	55	0657	10	200	270	5.00	F	67	65	66	93	9	15	29.82	29.91	07	10	1	0658	0	NT	NT	<.25	F		57	57	57	100	9	07	30.08	30.16
10	10	15	0957	10	250	300	1.75	RF	69	68	68	97	5	17	29.80	29.89	10	10	1	0958	1	150	210	2.00	F		63	63	63	100	5	09	30.05	30.12
13	10	25	1257	6	230	330	7.00	R	73	70	71	90	9	17	29.68	29.76	13	10	50				10.00			75	60	66	60	16	15	29.95	30.03	
16	10	23					10.00		76	71	73	85	8	19	29.59	29.68	16	8	48				10.00			72	62	66	71	13	12	29.88	29.96	
19	10	19					7.00	TR	69	68	68	97	14	22	29.54	29.62	19	6	65				10.00			68	64	66	87	14	10	29.84	29.92	
22	10		2157	10	350	380											22	10	7	2157	7	210	330	10.00			67	66	66	97	16	14	29.77	29.84
SUNRISE: 0612 OCT 15 SUNSET: 1724																																		
01	10	55					4.00	RF	58	56	57	93	5	25	29.61	29.68	01	10	11				10.00			69	67	68	93	21	14	29.68	29.76	
04	9	60	0357	10	300	400	10.00		54	47	50	77	7	28	29.61	29.70	04	10	25				10.00			70	67	68	90	23	14	29.59	29.68	
07	0	NC	0658	9	230	330	10.00		53	44	49	72	12	27	29.64	29.73	07	10	32				2.50	RF		53	52	53	96	16	30	29.61	29.69	
10	0	NC	0958	3	130	230	10.00		54	39	47	57	15	27	29.64	29.73	10	10	25				2.00	RF		52	51	52	96	7	34	29.64	29.72	
13	3	NC	1257	1	150	440	10.00		60	38	49	44	13	27	29.59	29.67	13	10	23				10.00			55	54	55	97	0	00	29.59	29.67	
16	3	NC					10.00		60	35	48	39	15	28	29.57	29.66	16	10	38				10.00			52	48	50	86	10	29	29.64	29.73	
19	0	NC					10.00		53	35	45	51	7	26	29.68	29.75	19	0	NC				10.00			47	43	45	86	6	23	29.77	29.85	
22	0	NC	2157	0	NT	NT	10.00		49	35	43	59	8	24	29.73	29.82	22	0	NC				10.00			45	41	43	86	6	22	29.86	29.94	
SUNRISE: 0613 OCT 16 SUNSET: 1722																																		
01	0	NC	0057	3	330	460	10.00		46	34	41	63	6	23	29.75	29.83	01	0	NC				10.00			43	39	41	86	6	25	29.91	30.00	
04	0	NC	0357	0	NT	NT	10.00		47	34	41	61	12	26	29.75	29.84	04	0	NC	0357	0	NT	NT	10.00			41	37	39	86	7	22	29.96	30.05
07	0	NC	0657	0	NT	NT	10.00		46	34	41	63	10	26	29.82	29.90	07	0	NC	0657	0	NT	NT	10.00			42	38	40	86	3	24	30.02	30.11
10	0	NC	0957	0	NT	NT	10.00		54	34	45	47	17	27	29.86	29.95	10	0	NC	0957	0	NT	NT	10.00			55	44	50	67	10	23	30.08	30.17
13	0	65	1257	1	150	440	10.00		59	32	47	36	18	28	29.86	29.94	13	0	NC	1257	0	NT	NT	10.00			63	40	52	43	13	26	30.07	30.15
16	0	70					10.00		58	32	46	38	16	29	29.89	29.98	16	0	NC	1557	0	NT	NT	10.00			60	41	51	50	10	21	30.07	30.15
19	0	NC					10.00		51	31	42	47	10	27	30.00	30.08	19	0	NC				10.00			54	43	49	67	7	19	30.12	30.21	
22	0	NC	2157	0	NT	NT	10.00		47	33	41	58	7	26	30.07	30.16	22	0	NC				10.00			50	43	47	77	5	23	30.15	30.24	
SUNRISE: 0614 OCT 17 SUNSET: 1721																																		
01	0	NC	0057	0	NT	NT	10.00		42	33	38	71	3	25	30.12	30.21	01	0	NC				10.00			47	43	45	86	0	00	30.17	30.26	
04	0	NC	0357	0	NT	NT	10.00		42	33	38	71	6	29	30.16	30.25	04	0	NC	0357	0	NT	NT	7.00			43	42	43	96	0	00	30.20	30.29
07	0	NC	0657	0	NT	NT	10.00		40	33	37	76	6	23	30.23	30.32	07	0	NC	0657	0	NT	NT	7.00			42	41	42	96	3	33	30.25	30.34
10	0	NC					10.00		55	37	47	51	14	33	30.27	30.36	10	0	NC	0957	0	NT	NT	10.00			60	52	56	75	3	21	30.26	30.35
13	0	NC	1257	0	NT	NT	10.00		60	33	48	36	13	30	30.24	30.32	13	0	NC	1257	0	NT	NT	10.00			69	53	60	57	3	17	30.22	30.30
16	0	NC	1557	0	NT	NT	10.00		61	32	48	34	6	30	30.21	30.30	16	0	NC	1557	0	NT	NT	10.00			70	50	59	49	7	14	30.19	30.28
19		NC					10.00		53	37	46	55	0	00	30.24	30.32	19	0	NC				10.00			61	56	58	84	6	16	30.20	30.29	
22		NC					10.00		44	40	42	86	3	30	30.24	30.33	22	0	NC				10.00			58	50	54	75	5	17	30.21	30.29	
SUNRISE: 0615 OCT 18 SUNSET: 1720																																		
01	0	NC					10.00		45	38	42	77	0	00	30.24	30.33	01	0	NC				10.00			55	51	53	87	5	16	30.17	30.26	
04	0	NC					10.00		39	37	38	93	3	32	30.22	30.30	04	0	NC				10.00			45	44	45	96	0	00	30.12	30.21	
07	0	NC	0658	0	NT	NT	10.00		40	37	39	89	0	00	30.23	30.32	07	0	NC				.75	F		46	45	46	96	0	00	30.11	30.20	
10	0	NC	0957	1	150	440	10.00		60	46	53	60	12	21	30.23	30.32	10	0	NC	0958	0	NT	NT	10.00			65	58	61	78	12	20	30.07	30.16
13	NC	1257	7	260	330		10.00		66	44	55	45	15	22	30.16	30.25	13	2	NC	1257														

OBSERVATIONS AT 3-HOURLY INTERVALS

OCTOBER 1995 WBAN # 13781
WILMINGTON, DE

HOUR (LST)	≤ 12K FEET		SATELLITE > 12K FT				VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		
	CEILOMETER TENTHS	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT TENTHS	100'S OF FT				DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
					LOWEST CLOUD TOP	HIGHEST CLOUD TOP											CLOUD TOP
SUNRISE: 0623 OCT 25 SUNSET: 1710																	
01	7	90					10.00			61	42	51	50	13	30	29.95	30.03
04	0	NC					10.00			53	42	48	66	8	33	30.00	30.08
07	0	NC	0657	0	NT	NT	10.00			48	37	43	66	8	30	30.07	30.15
10	0	NC	0957	0	NT	NT	10.00			54	38	47	55	8	32	30.07	30.15
13	0	NC	1257	3	260	440	10.00			57	40	49	53	14	32	30.02	30.11
16	0	NC	1557	4	180	380	10.00			55	39	47	55	14	32	30.00	30.09
19	0	NC					10.00			48	39	44	71	6	30	30.02	30.10
22	0	NC	2157	0	NT	NT	10.00			45	40	43	83	5	30	30.00	30.08
SUNRISE: 0624 OCT 26 SUNSET: 1709																	
01	0	NC	0057	0	NT	NT	10.00			42	38	40	86	5	29	30.00	30.08
04	0	NC	0357	0	NT	NT	7.00			40	37	39	89	5	31	29.98	30.06
07	0	NC	0657	0	NT	NT	5.00	F		39	37	38	93	6	32	29.98	30.06
10	1	NC	0957	0	NT	NT	10.00			53	40	47	62	3	34	29.98	30.07
13	0	NC					10.00			56	39	48	53	0	00	29.93	30.02
16	0	NC					10.00			57	40	49	53	6	14	29.91	29.98
19	0	NC					10.00			49	41	45	74	5	21	29.91	29.99
22	0	NC	2157	3	130	300	7.00			44	41	43	89	3	04	29.91	30.00
SUNRISE: 0625 OCT 27 SUNSET: 1707																	
01	0	NC	0057	0	NT	NT	7.00			43	41	42	93	0	00	29.91	29.99
04	3	NC	0357	7	130	230	7.00			41	40	41	96	0	00	29.88	29.96
07	0	NC	0657	1	130	230	3.00	F		45	43	44	93	3	01	29.88	29.95
10	0	NC	0958	3	130	380	7.00			59	52	55	78	9	14	29.84	29.92
13	0	NC					10.00			64	53	58	68	16	15	29.75	29.83
16	1	NC					10.00			64	56	59	75	15	13	29.64	29.73
19	10	90					7.00	R		65	62	63	90	13	15	29.57	29.65
22	10	28	2157	10	300	380	4.00	TRF		65	65	65	100	10	16	29.55	29.64
SUNRISE: 0626 OCT 28 SUNSET: 1706																	
01	10	36	0057	10	300	420	10.00	R		64	63	63	97	9	22	29.50	29.57
04	10	30	0357	10	270	300	5.00	RF		61	60	60	97	9	25	29.45	29.53
07	10	16	0658	9	210	260	10.00			61	60	60	97	5	17	29.45	29.54
10	8	100	0958	5	130	380	10.00			63	61	62	93	9	25	29.48	29.55
13	5	75	1258	3	150	380	10.00			67	49	57	53	13	27	29.41	29.50
16	1	NC	1557	2	270	460	10.00			62	40	51	45	9	25	29.45	29.54
19	0	NC					10.00			56	40	48	55	9	26	29.55	29.64
22	0	NC	2157	3	210	460	10.00			51	42	47	72	12	24	29.62	29.70
SUNRISE: 0627 OCT 29 SUNSET: 1705																	
01	0	NC	0057	0	NT	NT	10.00			50	42	46	74	10	25	29.66	29.75
04	0	NC	0358	0	NT	NT	10.00			48	42	45	80	8	24	29.73	29.82
07	0	NC	0658	1	130	180	10.00			47	42	45	83	8	25	29.82	29.91
10	2	NC	0958	2	150	460	10.00			55	43	49	64	14	26	29.86	29.94
13	7	46	1257	9	180	230	10.00			54	40	47	59	15	29	29.86	29.94
16	2	NC					10.00			53	34	44	49	14	29	29.93	30.01
19	0	NC					10.00			48	32	41	54	15	30	30.04	30.12
22	0	NC	2157	0	NT	NT	10.00			42	33	38	71	7	25	30.08	30.17
SUNRISE: 0628 OCT 30 SUNSET: 1704																	
01	0	NC	0057	0	NT	NT	10.00			39	33	37	79	7	25	30.11	30.20
04	0	NC	0358	0	NT	NT	10.00			39	32	36	76	6	24	30.14	30.23
07	0	NC	0658	0	NT	NT	10.00			39	33	37	79	7	27	30.19	30.28
10	0	NC	0958	0	NT	NT	10.00			52	37	45	57	15	29	30.22	30.31
13	0	NC					10.00			56	34	46	44	20	30	30.18	30.27
16	4	NC					10.00			57	36	47	46	8	26	30.19	30.28
19	9	100					10.00			51	38	45	61	6	21	30.22	30.31
22	NC		2157	6	210	330	10.00			49	39	44	69	5	24	30.24	30.32

HOUR (LST)	≤ 12K FEET		SATELLITE > 12K FT				VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		
	CEILOMETER TENTHS	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT TENTHS	100'S OF FT				DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
					LOWEST CLOUD TOP	HIGHEST CLOUD TOP											CLOUD TOP
SUNRISE: 0629 OCT 31 SUNSET: 1702																	
01		100	0057	7	230	330	10.00			51	39	45	64	3	17	30.22	30.30
04	10	100					10.00			51	43	47	74	0	00	30.23	30.32
07	10	100					10.00			49	45	47	86	0	00	30.27	30.35
10	9	70					10.00	R		52	46	49	80	7	02	30.30	30.39
13	4	NC					10.00			58	45	51	62	6	15	30.22	30.31
16	6	100					10.00			58	46	52	65	3	13	30.20	30.29
19	10	80					10.00			57	44	51	62	0	00	30.23	30.32
22	3	100					10.00			51	46	49	83	0	00	30.24	30.33
HOURLY SUMMARY NOTES																	
CEILING IS REPORTED IN HUNDREDS OF FEET (ABOVE GROUND LEVEL)																	
FOR CLOUDS AT OR BELOW 12,000 FEET.																	
CLOUD TOPS ARE REPORTED IN HUNDREDS OF FEET (ABOVE MEAN SEA LEVEL) FOR CLOUDS ABOVE 12,000 FEET.																	
NC = A CEILING WAS NOT DETECTED AT OR BELOW 12,000 FEET.																	
NT = CLOUD TOPS WERE NOT DETECTED ABOVE 12,000 FEET.																	
SEE PAGE 3 FOR ADDITIONAL NOTES.																	
SUMMARY BY HOURS																	
HOUR (LST)	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	AVERAGES				RESULTANT						
							PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)						
							STATION	SEA LEVEL			SPEED	DIRECTION					
01	3	2	55	50	52	85	29.94	30.03	8.40	5	2	22					
02	2	2	54	50	52	86	29.94	30.02	7.95	5	2	24					
03	2	2	53	50	51	88	29.93	30.02	7.79	5	2	25					
04	3	2	53	49	51	88	29.94	30.03	7.84	5	2	25					
05	3	2	52	49	51	88	29.95	30.03	8.05	6	2	27					
06	3	2	52	49	51	88	29.96	30.04	7.42	6	1	26					
07	3	2	52	50	49	89	29.97	30.05	6.36	6	2	29					
08	3	2	56	51	53	83	29.98	30.07	7.04	7	3	28					
09	3	2	59	51	55	75	29.99	30.07	8.01	8	3	28					
10	2	1	62	51	56	70	29.98	30.07	8.75	8	3	26					
11	3	2	65	51	57	63	29.97	30.05	9.09	10	3	27					
12	3	2	66	51	58	59	29.95	30.03	9.26	10	4	24					
13	3	2	67	50	58	57	29.93	30.01	9.40	9	4	25					
14	3	3	68	51	59	56	29.91	30.00	9.31	10	4	24					
15	3	2	68	50	58	56	29.91	29.99	9.56	10	4	23					
16	2	2	67	50	58	57	29.91	29.99	9.58	10	4	22					
17	3	3	65	51	57	62	29.91	30.00	9.52	9	3	21					
18	3	3	62	51	56	68	29.92	30.01	9.61	7	3	21					
19	3		61	51	56	72	29.93	30.02	9.45	7	3	21					
20	3	2	59	51	55	76	29.94	30.02	8.94	7	3	21					
21	2	2	58	51	55	79	29.95	30.03	8.77	6	3	20					
22	3	3	57	51	54	82	29.96	30.04	8.67	6	2	20					
23	3	2	56	51	54	85	29.93	30.01	8.77	5	2	24					
24	3	3	55	51	53	86	29.94	30.03	8.27	5	2	24					

HOURLY SUMMARY NOTES

CEILING IS REPORTED IN HUNDREDS OF FEET (ABOVE GROUND LEVEL)

FOR CLOUDS AT OR BELOW 12,000 FEET.

CLOUD TOPS ARE REPORTED IN HUNDREDS OF FEET (ABOVE MEAN SEA LEVEL) FOR CLOUDS ABOVE 12,000 FEET.

NC = A CEILING WAS NOT DETECTED AT OR BELOW 12,000 FEET.

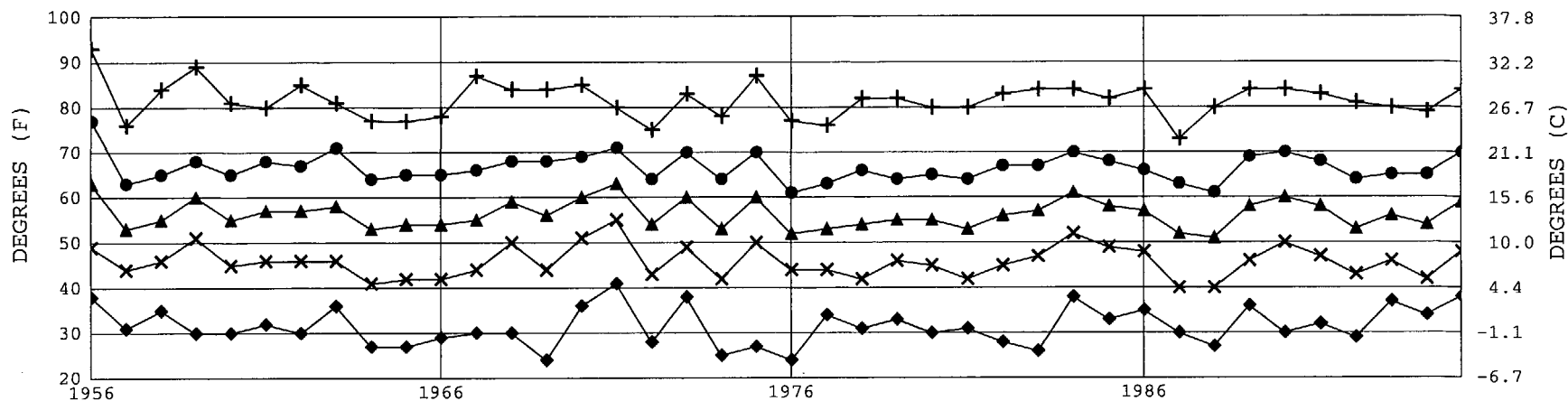
NT = CLOUD TOPS WERE NOT DETECTED ABOVE 12,000 FEET.

SEE PAGE 3 FOR ADDITIONAL NOTES.

SUMMARY BY HOURS

HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01	3	2	55	50	52	85	29.94	30.03	8.40	5	2	22
02	2	2	54	50	52	86	29.94	30.02	7.95	5	2	24
03	2	2	53	50	51	88	29.93	30.02	7.79	5	2	25
04	3	2	53	49	51	88	29.94	30.03	7.84	5	2	25
05	3	2	52	49	51	88	29.95	30.03	8.05	6	2	27
06	3	2	52	49	51	88	29.96	30.04	7.42	6	1	26
07	3	2	52	50	49	89	29.97	30.05	6.36	6	2	29
08	3	2	56	51	53	83	29.98	30.07	7.04	7	3	28
09	3	2	59	51	55	75	29.99	30.07	8.01	8	3	28
10	2	1	62	51	56	70	29.98	30.07	8.75	8	3	26
11	3	2	65	51	57	63	29.97	30.05	9.09	10	3	27
12	3	2	66	51	58	59	29.95	30.03	9.26	10	4	24
13	3	2	67	50	58	57	29.93	30.01	9.40	9	4	25
14	3	3	68	51	59	56	29.91	30.00	9.31	10	4	24
15	3	2	68	50	58	56	29.91	29.99	9.56	10	4	23
16	2	2	67	50	58	57	29.91	29.99	9.58	10	4	22
17	3	3	65	51	57	62	29.91	30.00	9.52	9	3	21
18	3	3	62	51	56	68	29.92	30.01	9.61	7	3	21
19	3	3	61	51	56	72	29.93	30.02	9.45	7	3	21
20	3	2	59	51	55	76	29.94	30.02	8.94	7	3	21
21	2	2	58	51	55	79	29.95	30.03	8.77	6	3	20
22	3	3	57	51	54	82	29.96	30.04	8.67	6	2	20
23	3	2	56	51	54	85	29.93	30.01	8.77	5	2	24
24	3	3	55	51	53	86	29.94	30.03	8.27	5	2	24

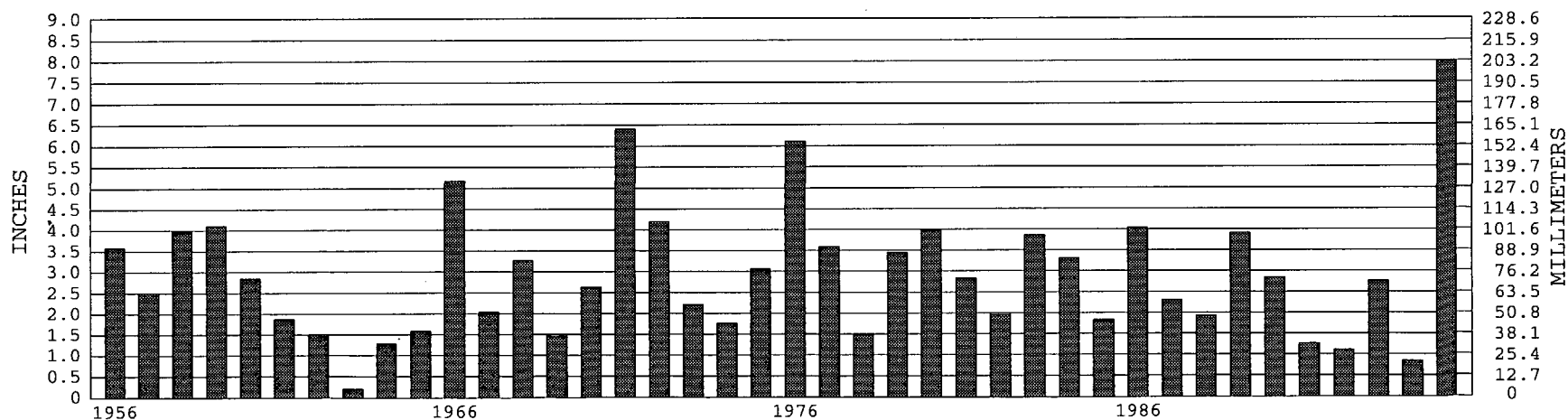
WILMINGTON, DE OCTOBER TEMPERATURES



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

Long-Term (1956-1995) Mean: 56.3 1961-1990 Normal: 56.2

WILMINGTON, DE OCTOBER PRECIPITATION



Long-Term (1956-1995) Mean Monthly Total: 2.93

1961-1990 Normal: 2.88

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