



# DECEMBER 1998

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# WILMINGTON, DE

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

DECEMBER 1998  
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	62	42	52	11	38	47	13	0	BR				0.00	30.02	30.11	10.7	28	11.9	37	30	31	29	01					
02	62	34	48	8	34	42	17	0					0.00	30.08	30.17	7.1	22	7.6	25	23	21	23	02					
03	68	41	55	15	43	49	10	0					0.00	29.88	29.96	6.5	22	6.9	17	23	15	24	03					
04	75*	50	63*	23	55	58	2	0	RA				T	29.92	30.00	5.9	25	6.4	22	24	18	25	04					
05	65	53	59	20	57	58	6	0	RA BR				T	29.96	30.04	2.8	07	3.5	11	05	10	05	05					
06	68	45	57	18	53	54	8	0	BR HZ				0.00	29.87	29.96	1.7	15	3.8	11	15	10	15	06					
07	72	50	61	23	56	59	4	0	RA BR				0.04	29.84	29.92	4.4	24	8.8	23	21	18	23	07					
08	52	49	51	13	47	49	14	0	RA BR				0.31	29.99	30.07	4.2	04	7.0	18	02	14	04	08					
09	50	32	41	3	32	39	24	0	RA				0.06	30.20	30.28	8.0	33	9.7	23	36	20	36	09					
10	51	30	41	4	31	37	24	0					0.00	30.25	30.34	5.5	27	6.3	14	27	11	27	10					
11	48	31	40	3	28	36	25	0					0.00	30.25	30.33	9.1	29	9.8	28	29	22	29	11					
12	47	27	37	0	30	35	28	0					0.00	30.31	30.40	4.6	22	6.0	18	24	15	23	12					
13	45	41	43	7	38	41	22	0	RA BR				0.12	29.96	30.05	3.5	34	5.0	14	35	11	35	13					
14	45	27	36	0	24	33	29	0					0.00	30.12	30.20	9.7	34	10.2	23	35	18	01	14					
15	50	24	37	1	26	33	28	0					0.00	30.20	30.29	4.8	23	5.3	20	23	16	23	15					
16	51	31	41	5	34	37	24	0	BR				0.00	29.85	29.94	3.3	29	4.4	13	32	11	31	16					
17	46	33	40	5	34	38	25	0	RA BR				0.02	29.67	29.76	8.2	28	9.1	28	30	23	30	17					
18	44	32	38	3	24	33	27	0					0.00	30.10	30.18	7.5	27	10.1	26	29	23	29	18					
19	54	34	44	9	34	40	21	0					0.00	30.22	30.31	9.7	19	10.2	29	20	23	21	19					
20	53	43	48	14	41	45	17	0	RA				T	30.28	30.37	3.6	05	5.2	17	04	15	04	20					
21	56	45	51	17	47	48	14	0	BR				0.00	30.16	30.24	5.8	15	7.6	22	18	18	19	21					
22	64	23	44	10	33	41	21	0	RA BR				0.07	29.98	30.06	15.3	27	20.7	47*	30	36	29	22					
23	26	18	22	-12	9	19	43	0	SN FZFG BR				0.16	30.47	30.56	4.1	34	4.6	18	31	15	31	23					
24	29	22	26	-7	18	23	39	0	RA SN BR				0.05	30.29	30.38	6.7	31	8.1	15	30	13	29	24					
25	33	18	26	-7	15	23	39	0	BR				0.00	30.37	30.46	4.1	28	5.3	14	31	11	30	25					
26	31	13*	22*	-11	20	22	43	0	BR				0.00	30.16	30.25	1.9	26	2.3	11	27	9	27	26					
27	38	15	27	-6	24	28	38	0	BR HZ				0.00	30.26	30.35	3.6	18	5.2	16	13	15	15	27					
28	43	32	38	5	35	37	27	0	RA BR				0.02	30.04	30.12	3.7	35	4.1	15	01	13	36	28					
29	40	36	38	6			27	0	RA BR				0.15	29.70	29.78	4.0	35	5.9	15	05	13	05	29					
30	37	18	28	-4	17	26	37	0	RA SN BR				0.01	29.68	29.77	15.8	29	16.7	41	31	36*	29	30					
31	26	20	23	-9	15	21	42	0	SN BR				T	30.07	30.16	7.0	23	7.3	17	21	15	20	31					
< MONTHLY AVERAGES										TOTALS-->				<- MONTHLY AVERAGES														
5.5 4.9 5.2										<----- DEPARTURE FROM NORMAL ----->				-2.47 SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.37 DATE :08-09					SEA LEVEL PRESSURE DATE TIME														
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: DATE :					MAXIMUM : 30.68 23 1001														
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: DATE :					MINIMUM : 29.45 30 0500														
HEATING: 738 -167 1537 -252									NUMBER OF DAYS WITH =>					MAXIMUM TEMP ≥ 90: 0					MINIMUM TEMP ≤ 32: 17					PRECIPITATION ≥ 0.01 INCH : 11				
COOLING: 0 0 1186 140														MAXIMUM TEMP ≤ 32 : 4					MINIMUM TEMP ≤ 0 : 0					PRECIPITATION ≥ 0.10 INCH : 4				
														THUNDERSTORMS : 0					HEAVY FOG : 0					SNOWFALL ≥ 1.0 INCH :				

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## WILMINGTON, DE

DECEMBER 1998 ILG WBAN # 13781

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.04		
08													08												08		0.31		
09													09												09		0.06		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.12		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.02		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.07		
23													23												23		0.16		
24													24												24		0.05		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.02		
29													29												29		0.15		
30													30												30		0.01		
31													31												31		0.01		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

# 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	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unknown Precipitation		

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

# WILMINGTON, DE DECEMBER 1998

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.

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

## ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							4.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							7.00	10.00	
05							2.00	10.00	
06							2.00	10.00	
07							1.50	10.00	
08							5.00	10.00	
09							7.00	10.00	
10							8.00	10.00	
11							10.00	10.00	
12							9.00	10.00	
13							4.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							4.00	10.00	
17							3.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							3.00	10.00	
22							6.00	10.00	
23							.75	10.00	
24							3.00	10.00	
25							6.00	10.00	
26							4.00	10.00	
27							5.00	10.00	
28							5.00	10.00	
29							1.00	7.00	
30							3.00	10.00	
31							1.50	10.00	
<b>MONTHLY AVGS</b>							5.64	9.90	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible:									
Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING									
31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0									
0            10            12									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

DECEMBER 1998

ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Okta			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			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
SUNRISE: 0704								DEC 01	SUNSET: 1639								SUNRISE: 0710								DEC 07	SUNSET: 1638							
01	CLR	NC			4.00	BR		45	45	45	100	0	00	29.83	29.92	01	CLR	NC			1.50	BR		50	50	50	100	0	00	29.79	29.88		
04	CLR	NC			7.00			46	46	46	100	3	25	29.82	29.91	04	CLR	NC			10.00			57	54	55	90	8	20	29.76	29.85		
07	BKN	060			10.00			56	52	54	87	7	24	29.88	29.97	07	CLR	NC			10.00			61	57	59	87	10	22	29.77	29.86		
10	CLR	NC			10.00			62	37	50	40	24	29	30.01	30.09	10	CLR	NC			10.00			68	59	63	73	14	23	29.80	29.88		
13	CLR	NC			10.00			61	30	47	31	23	30	30.04	30.13	13	BKN	110			10.00			72	59	64	64	10	22	29.78	29.87		
16	CLR	NC			10.00			58	32	46	38	16	29	30.10	30.19	16	OVC	100			10.00			71	59	64	66	6	23	29.82	29.91		
19	CLR	NC			10.00			51	31	42	46	8	24	30.17	30.26	19	OVC	095			10.00			66	55	60	68	6	30	29.91	30.00		
22	CLR	NC			10.00			47	31	40	54	8	25	30.20	30.29	22	OVC	095			10.00	-RA		58	53	55	84	10	36	30.00	30.09		
SUNRISE: 0705								DEC 02	SUNSET: 1639								SUNRISE: 0710								DEC 08	SUNSET: 1638							
01	CLR	NC			10.00			41	30	37	65	5	26	30.20	30.29	01	OVC	100			10.00			52	47	49	83	12	05	30.01	30.10		
04	CLR	NC			10.00			40	32	37	73	5	25	30.19	30.28	04	OVC	029			10.00	-RA		49	46	48	90	7	06	30.04	30.13		
07	CLR	NC			10.00			36	31	34	82	6	18	30.19	30.28	07	OVC	033			10.00			49	43	46	80	8	09	30.06	30.14		
10	CLR	NC			10.00			51	38	45	61	9	22	30.18	30.27	10	OVC	041			10.00			50	45	48	83	10	05	30.03	30.12		
13	CLR	NC			10.00			59	29	46	32	16	22	30.07	30.16	13	OVC	025			5.00	-RA BR		50	49	49	96	6	05	29.96	30.04		
16	CLR	NC			10.00			60	32	47	35	10	21	29.98	30.07	16	OVC	005			7.00	-RA		50	50	50	100	6	27	29.93	30.01		
19	CLR	NC			10.00			53	36	45	52	6	21	29.97	30.06	19	OVC	005			6.00	-RA BR		50	50	50	100	10	30	29.96	30.04		
22	CLR	NC			10.00			50	37	44	61	6	21	29.94	30.03	22	OVC	090			5.00	-RA BR		50	50	50	100	8	31	29.95	30.04		
SUNRISE: 0706								DEC 03	SUNSET: 1639								SUNRISE: 0711								DEC 09	SUNSET: 1638							
01	CLR	NC			10.00			49	40	45	71	5	24	29.91	30.00	01	OVC	060			7.00	-RA		48	47	47	96	7	31	29.97	30.06		
04	CLR	NC			10.00			46	40	43	79	5	16	29.92	30.01	04	OVC	080			10.00			44	37	41	76	12	35	30.03	30.12		
07	CLR	NC			10.00			43	40	42	89	3	17	29.91	29.99	07	OVC	085			10.00			42	32	38	68	15	36	30.13	30.22		
10	CLR	NC			10.00			51	42	47	71	7	25	29.92	30.01	10	CLR	NC			10.00			44	30	38	58	12	33	30.23	30.32		
13	CLR	NC			10.00			67	45	55	45	13	23	29.84	29.93	13	CLR	NC			10.00			49	27	40	43	12	34	30.21	30.29		
16	CLR	NC			10.00			67	47	56	49	8	21	29.81	29.90	16	CLR	NC			10.00			48	28	40	46	13	31	30.24	30.33		
19	FEW	NC			10.00			59	43	51	56	8	21	29.82	29.91	19	CLR	NC			10.00			43	28	37	56	5	25	30.30	30.39		
22	CLR	NC			10.00			57	46	51	67	8	22	29.84	29.93	22	CLR	NC			10.00			38	29	34	70	6	24	30.34	30.42		
SUNRISE: 0707								DEC 04	SUNSET: 1638								SUNRISE: 0712								DEC 10	SUNSET: 1638							
01	CLR	NC			10.00			57	48	52	72	6	23	29.86	29.94	01	CLR	NC			10.00			33	29	32	85	7	30	30.31	30.40		
04	CLR	NC			10.00			54	48	51	80	0	00	29.86	29.95	04	CLR	NC			10.00			34	27	31	76	7	31	30.32	30.41		
07	CLR	NC			10.00			51	49	50	92	3	23	29.91	30.00	07	CLR	NC			10.00			34	28	32	79	3	29	30.33	30.42		
10	CLR	NC			9.00			63	54	58	73	7	22	29.94	30.03	10	CLR	NC			9.00			41	33	38	74	3	24	30.33	30.42		
13	FEW	NC			10.00			73	59	65	62	12	27	29.89	29.98	13	CLR	NC			10.00			50	30	42	46	8	28	30.25	30.34		
16	SCT	NC			10.00			72	59	64	64	10	27	29.89	29.98	16	CLR	NC			10.00			50	31	42	48	8	25	30.17	30.26		
19	CLR	NC			10.00			63	58	60	84	7	24	29.94	30.03	19	CLR	NC			10.00			45	32	40	61	7	22	30.16	30.26		
22	BKN	055			7.00			60	58	59	93	5	24	29.96	30.05	22	CLR	NC			10.00			43	36	40	76	6	24	30.16	30.25		
SUNRISE: 0708								DEC 05	SUNSET: 1638								SUNRISE: 0713								DEC 11	SUNSET: 1638							
01	OVC	080			7.00			61	58	59	90	3	27	29.97	30.06	01	CLR	NC			10.00			44	32	39	63	9	27	30.14	30.22		
04	OVC	090			6.00	BR		59	58	58	96	5	08	29.98	30.07	04	CLR	NC			10.00			42	29	37	60	8	27	30.14	30.23		
07	OVC	037			5.00	BR		57	57	57	100	0	00	30.00	30.09	07	FEW	NC			10.00			40	29	36	65	12	28	30.20	30.28		
10	OVC	032			3.00	BR		60	58	59	93	0	00	30.03	30.11	10	CLR	NC			10.00			46	29	39	51	14	27	30.24	30.33		
13	BKN	090			2.00	-RA BR		60	59	59	96	0	00	29.96	30.05	13	CLR	NC			10.00			48	27	39	44	22	30	30.22	30.31		
16	CLR	NC			3.00	BR		64	61	62	90	5	09	29.92	30.01	16	CLR	NC			10.00			45	25	37	46	13	30	30.25	30.34		
19	CLR	NC			6.00	BR		59	56	57	90	5	08	29.92	30.01	19	CLR	NC			10.00			38	26	33	62	7	29	30.32	30.41		
22	OVC	085			8.00			56	53	54	90	8	06	29.88	29.97	22	CLR	NC			10.00			36	26	32	67	6	36	30.35	30.44		
SUNRISE: 0709								DEC 06	SUNSET: 1638								SUNRISE: 0714								DEC 12	SUNSET: 1639							
01	FEW	NC			7.00			51	50	51	96	3	03	29.87	29.96	01	CLR	NC			10.00			30	26	29	85	7	29	30.37	30.46		
04	CLR	NC			2.50	BR		47	47	47	100	6	31	29.89	29.98	04	CLR	NC			10.00			31	27	29	85	5	29	30.38	30.47		
07	BKN	055			10.00			48	47	47	96	0	00	29.91	30.00	07	CLR	NC			10.00			30	26	29	85	0	00	30.38	30.47		
10	OVC	080			7.00			55	50	52	83	0	00	29.92	30.01	10	CLR	NC			10.00			40	30	36	68	7	21	30.38	30.47		
13	CLR	NC			6.00	HZ		64	54	58	70	7	15	29.85	29.93	13	CLR	NC			10.00			47	29	40	50	10	22	30.33	30.42		
16	SCT	NC			7.00			64	58	60	81	7	16	29.84	29.93	16	CLR	NC			10.00			46	33	40	61	8	21	30.27	30.36		
19	CLR	NC			6.00	BR		59	57	58	93	8	15	29.85	29.93	19	OVC	120			10.00			43	35	40	74	5	19	30.25	30.34		
22	CLR	NC			4.00	BR		55	55	55	100	0	00	29.83	29.92	22	CLR	NC			10.00			42	34	39	73	3	19	30.21	30.29		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

DECEMBER 1998

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	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
			SUNRISE: 0715		DEC 13		SUNSET: 1639								SUNRISE: 0718		DEC 19		SUNSET: 1641									
01	OVC	075	10.00			42	35	39	76	5	19	30.16	30.25	01	CLR	NC			10.00		36	25	32	64	12	17	30.25	30.34
04	OVC	080	10.00			42	38	40	85	3	19	30.08	30.17	04	CLR	NC			10.00		36	28	33	73	12	16	30.24	30.33
07	OVC	060	10.00	-RA		42	40	41	92	0	00	30.03	30.12	07	CLR	NC			10.00		38	32	36	79	8	18	30.25	30.34
10	OVC	029	4.00	-RA BR		42	41	42	96	0	00	30.02	30.11	10	CLR	NC			10.00		44	33	39	65	14	19	30.25	30.34
13	BKN	029	5.00	-RA BR		43	41	42	93	8	02	29.88	29.97	13	CLR	NC			10.00		52	33	44	49	16	20	30.18	30.27
16	OVC	095	10.00			44	38	41	79	6	35	29.83	29.92	16	SCT	NC			10.00		51	35	44	54	10	20	30.19	30.28
19	OVC	085	10.00			43	36	40	76	5	35	29.86	29.94	19	OVC	085			10.00		50	37	44	61	9	18	30.20	30.29
22	OVC	110	10.00			44	32	39	63	6	33	29.88	29.97	22	FEW	NC			10.00		47	41	44	80	5	19	30.19	30.28
			SUNRISE: 0715		DEC 14		SUNSET: 1639								SUNRISE: 0719		DEC 20		SUNSET: 1641									
01	CLR	NC	10.00			43	32	38	65	9	34	29.90	29.98	01	BKN	110			10.00		45	42	44	90	3	17	30.19	30.27
04	CLR	NC	10.00			38	30	35	73	10	35	29.95	30.04	04	OVC	070			10.00		43	42	43	97	0	00	30.20	30.29
07	CLR	NC	10.00			36	26	32	67	16	35	30.04	30.13	07	OVC	070			10.00		44	42	43	93	0	00	30.25	30.33
10	CLR	NC	10.00			39	24	33	55	13	34	30.13	30.21	10	OVC	050			10.00		49	40	45	71	5	03	30.32	30.40
13	CLR	NC	10.00			44	20	35	38	13	01	30.12	30.21	13	OVC	050			10.00		52	40	46	64	3	06	30.29	30.38
16	CLR	NC	10.00			44	19	35	37	8	34	30.16	30.24	16	FEW	NC			10.00		51	41	46	69	7	06	30.29	30.38
19	CLR	NC	10.00			35	19	30	52	7	31	30.23	30.32	19	OVC	039			10.00		49	42	46	77	6	07	30.31	30.40
22	CLR	NC	10.00			27	21	25	78	8	30	30.27	30.36	22	OVC	060			10.00		47	42	45	83	7	09	30.32	30.41
			SUNRISE: 0716		DEC 15		SUNSET: 1639								SUNRISE: 0720		DEC 21		SUNSET: 1642									
01	CLR	NC	10.00			29	22	27	75	5	29	30.28	30.37	01	OVC	065			10.00		46	41	44	83	3	05	30.31	30.40
04	CLR	NC	10.00			27	21	25	78	3	26	30.28	30.37	04	OVC	075			10.00		45	42	44	90	3	34	30.30	30.38
07	CLR	NC	10.00			29	22	27	75	6	24	30.29	30.38	07	OVC	009			10.00		45	43	44	93	3	06	30.30	30.38
10	CLR	NC	10.00			40	28	35	63	8	24	30.29	30.38	10	OVC	007			8.00		48	48	48	100	7	VR	30.28	30.37
13	CLR	NC	10.00			49	25	39	39	13	25	30.20	30.29	13	FEW	NC			10.00		54	50	52	87	8	12	30.17	30.26
16	CLR	NC	10.00			48	27	39	44	8	21	30.14	30.24	16	CLR	NC			8.00		53	50	51	89	8	16	30.11	30.20
19	CLR	NC	10.00			41	29	36	62	0	00	30.09	30.18	19	OVC	010			4.00	BR	49	49	49	100	9	15	30.04	30.13
22	CLR	NC	10.00			35	29	33	78	3	17	30.09	30.18	22	OVC	019			3.00	BR	50	50	50	100	10	15	29.93	30.02
			SUNRISE: 0717		DEC 16		SUNSET: 1640								SUNRISE: 0720		DEC 22		SUNSET: 1642									
01	CLR	NC	10.00			34	31	33	89	0	00	30.01	30.10	01	OVC	015			6.00	BR	57	56	56	96	15	19	29.80	29.89
04	CLR	NC	10.00			33	32	33	96	3	25	29.97	30.06	04	OVC	017			9.00		62	59	60	90	21	20	29.68	29.77
07	CLR	NC	10.00			33	32	33	96	5	14	29.90	29.99	07	OVC	021			8.00	-RA	63	62	62	97	17	22	29.65	29.73
10	CLR	NC	10.00			38	33	36	83	0	00	29.90	29.99	10	BKN	100			10.00		49	41	45	74	17	29	29.82	29.91
13	CLR	NC	10.00			48	33	42	56	10	31	29.78	29.87	13	FEW	NC			10.00		44	28	38	53	25	29	29.93	30.02
16	CLR	NC	9.00			49	36	43	61	8	30	29.76	29.85	16	CLR	NC			10.00		38	19	31	47	22	29	30.07	30.15
19	CLR	NC	9.00			43	36	40	76	6	25	29.78	29.87	19	CLR	NC			10.00		31	7	24	36	25	30	30.24	30.33
22	CLR	NC	6.00	BR		37	35	36	93	0	00	29.75	29.84	22	CLR	NC			10.00		26	4	20	38	14	31	30.38	30.47
			SUNRISE: 0717		DEC 17		SUNSET: 1640								SUNRISE: 0721		DEC 23		SUNSET: 1643									
01	SCT	NC	6.00	BR		35	34	35	96	0	00	29.69	29.78	01	CLR	NC			10.00		22	5	18	48	9	31	30.43	30.52
04	OVC	070	6.00	BR		39	38	39	96	6	07	29.64	29.73	04	CLR	NC			10.00		19	6	16	57	5	33	30.47	30.56
07	OVC	050	6.00	-RA BR		38	37	38	97	5	29	29.64	29.73	07	CLR	NC			10.00		19	6	16	57	3	29	30.54	30.63
10	OVC	034	4.00	-RA BR		41	41	41	100	6	23	29.66	29.75	10	CLR	NC			10.00		23	0	18	36	5	35	30.59	30.68
13	FEW	NC	10.00			45	35	41	68	14	30	29.62	29.71	13	BKN	120			10.00		25	1	19	35	0	00	30.49	30.58
16	OVC	055	10.00			45	31	39	58	18	28	29.64	29.73	16	OVC	032			10.00		26	5	21	40	3	31	30.45	30.54
19	BKN	070	10.00			40	29	36	65	13	28	29.68	29.78	19	OVC	016			2.50	-SN	23	18	21	81	0	00	30.42	30.51
22	FEW	NC	10.00			39	30	35	70	22	29	29.74	29.83	22	OVC	019			3.00	-SN BR	22	21	22	96	6	34	30.37	30.46
			SUNRISE: 0718		DEC 18		SUNSET: 1640								SUNRISE: 0721		DEC 24		SUNSET: 1643									
01	CLR	NC	10.00			35	29	33	78	7	24	29.81	29.90	01	OVC	060			5.00	BR	22	20	21	92	7	35	30.31	30.40
04	CLR	NC	10.00			34	27	31	76	12	27	29.87	29.96	04	OVC	021			3.00	-SN BR	22	20	21	92	8	01	30.27	30.36
07	FEW	NC	10.00			34	26	31	73	9	26	30.00	30.09	07	OVC	070			10.00		23	19	22	85	8	32	30.26	30.35
10	CLR	NC	10.00			39	27	34	62	20	30	30.10	30.19	10	BKN	080			10.00		26	17	23	69	8	31	30.	

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

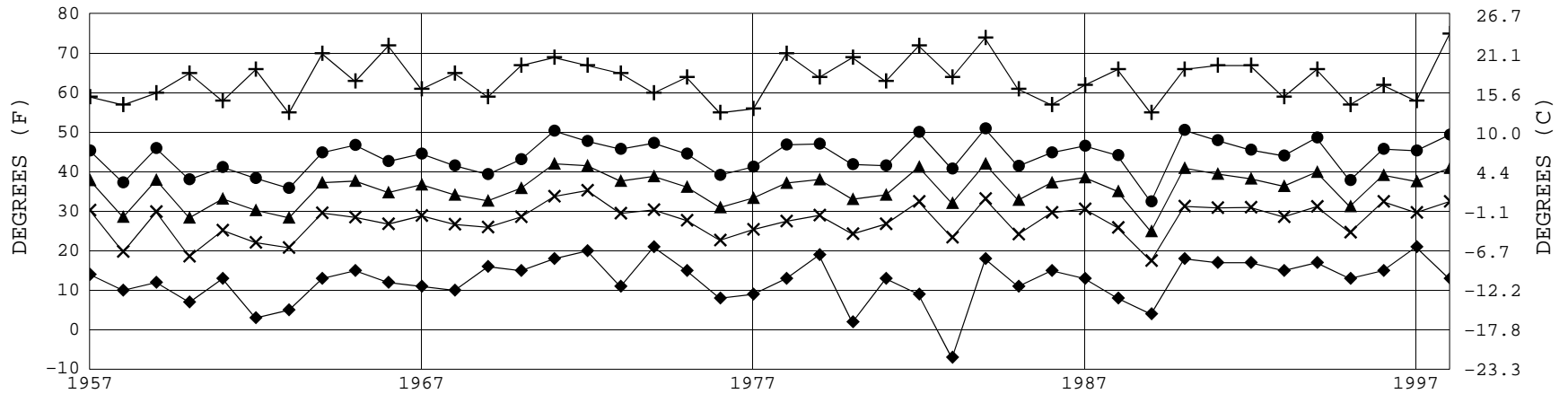
DECEMBER 1998

ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)																																																																																																																																																																																																																																																																																																																																												
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)					SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL																																																																																																																																																																																																																																																																																																																																																							
SUNRISE: 0721										DEC 25				SUNSET: 1644				SUNRISE: 0723										DEC 31				SUNSET: 1648																																																																																																																																																																																																																																																																																																																																														
01	CLR	NC						10.00		27	13	23	55	10	32	30.33	30.42	01	CLR	NC						10.00		21	8	18	57	7	23	30.08	30.17																																																																																																																																																																																																																																																																																																																																											
04	CLR	NC						10.00		24	14	21	65	7	30	30.37	30.46	04	CLR	NC						10.00		20	9	17	62	6	24	30.08	30.17																																																																																																																																																																																																																																																																																																																																											
07	CLR	NC						10.00		22	11	19	63	6	26	30.39	30.49	07	OVC	085						10.00		21	9	18	59	8	24	30.12	30.21																																																																																																																																																																																																																																																																																																																																											
10	CLR	NC						10.00		26	13	22	57	10	31	30.43	30.53	10	OVC	033						10.00		23	9	19	55	7	25	30.13	30.22																																																																																																																																																																																																																																																																																																																																											
13	CLR	NC						10.00		31	15	26	52	0	00	30.39	30.47	13	OVC	015						1.50	-SN BR	25	21	24	85	12	22	30.05	30.14																																																																																																																																																																																																																																																																																																																																											
16	CLR	NC						10.00		31	16	26	54	6	23	30.36	30.45	16	BKN	027						10.00		26	19	24	75	9	24	30.01	30.10																																																																																																																																																																																																																																																																																																																																											
19	CLR	NC						10.00		27	15	23	61	6	21	30.36	30.45	19	BKN	036						10.00		24	18	22	77	8	23	30.03	30.12																																																																																																																																																																																																																																																																																																																																											
22	CLR	NC						10.00		23	15	21	72	3	23	30.35	30.45	22	CLR	NC						10.00		21	18	20	88	6	22	30.03	30.12																																																																																																																																																																																																																																																																																																																																											
SUNRISE: 0722										DEC 26				SUNSET: 1644				<h3>3-HOURLY OBSERVATION NOTES</h3> <p>Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.                      Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.                      NC= No ceiling detected.                      &amp; = Original observation contained additional weather elements.                      See page 3 for additional notes.</p>																																																																																																																																																																																																																																																																																																																																																												
01	CLR	NC						10.00		20	17	19	89	0	00	30.30	30.39																																																																																																																																																																																																																																																																																																																																																													
04	CLR	NC						4.00	BR	15	14	15	95	0	00	30.26	30.35																																																																																																																																																																																																																																																																																																																																																													
07	CLR	NC						6.00	BR	16	14	15	92	0	00	30.20	30.29																																																																																																																																																																																																																																																																																																																																																													
10	CLR	NC						5.00	BR	24	22	23	91	0	00	30.20	30.29																																																																																																																																																																																																																																																																																																																																																													
13	CLR	NC						10.00		29	22	27	75	0	00	30.10	30.19																																																																																																																																																																																																																																																																																																																																																													
16	CLR	NC						10.00		30	20	27	66	6	23	30.05	30.14																																																																																																																																																																																																																																																																																																																																																													
19	CLR	NC						10.00		28	24	27	85	5	24	30.08	30.17																																																																																																																																																																																																																																																																																																																																																													
22	CLR	NC						8.00		27	23	26	85	6	26	30.14	30.23																																																																																																																																																																																																																																																																																																																																																													
SUNRISE: 0722										DEC 27				SUNSET: 1645				<h3>SUMMARY BY HOUR</h3> <table border="1"> <thead> <tr> <th rowspan="3">HOUR (LST)</th> <th colspan="10">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th rowspan="2">CEILOMETER</th> <th rowspan="2">EFF CLD AMT</th> <th rowspan="2">DRY BULB</th> <th rowspan="2">DEW POINT</th> <th rowspan="2">WET BULB</th> <th rowspan="2">RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th rowspan="2">VISIBILITY (MILES)</th> <th rowspan="2">WIND SPEED (MPH)</th> <th rowspan="2">SPEED</th> <th rowspan="2">DIRECTION</th> </tr> <tr> <th>STATION</th> <th>SEA LEVEL</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>39</td><td>33</td><td>37</td><td>81</td><td>30.06</td><td>30.14</td><td>8.47</td><td>6</td><td>3</td><td>27</td></tr> <tr><td>02</td><td></td><td></td><td>38</td><td>33</td><td>36</td><td>83</td><td>30.06</td><td>30.15</td><td>8.67</td><td>6</td><td>3</td><td>28</td></tr> <tr><td>03</td><td></td><td></td><td>39</td><td>34</td><td>37</td><td>82</td><td>30.06</td><td>30.15</td><td>8.81</td><td>6</td><td>2</td><td>27</td></tr> <tr><td>04</td><td></td><td></td><td>38</td><td>33</td><td>36</td><td>84</td><td>30.05</td><td>30.14</td><td>8.53</td><td>6</td><td>2</td><td>27</td></tr> <tr><td>05</td><td></td><td></td><td>38</td><td>34</td><td>36</td><td>86</td><td>30.05</td><td>30.14</td><td>8.71</td><td>6</td><td>2</td><td>28</td></tr> <tr><td>06</td><td></td><td></td><td>38</td><td>34</td><td>36</td><td>85</td><td>30.06</td><td>30.15</td><td>8.84</td><td>7</td><td>3</td><td>27</td></tr> <tr><td>07</td><td></td><td></td><td>38</td><td>33</td><td>36</td><td>85</td><td>30.07</td><td>30.16</td><td>9.03</td><td>6</td><td>3</td><td>28</td></tr> <tr><td>08</td><td></td><td></td><td>38</td><td>33</td><td>37</td><td>84</td><td>30.08</td><td>30.17</td><td>8.42</td><td>6</td><td>3</td><td>29</td></tr> <tr><td>09</td><td></td><td></td><td>40</td><td>34</td><td>38</td><td>80</td><td>30.10</td><td>30.19</td><td>8.55</td><td>7</td><td>4</td><td>29</td></tr> <tr><td>10</td><td></td><td></td><td>42</td><td>34</td><td>39</td><td>72</td><td>30.10</td><td>30.19</td><td>8.50</td><td>8</td><td>5</td><td>29</td></tr> <tr><td>11</td><td></td><td></td><td>45</td><td>33</td><td>40</td><td>67</td><td>30.09</td><td>30.18</td><td>8.53</td><td>10</td><td>6</td><td>28</td></tr> <tr><td>12</td><td></td><td></td><td>46</td><td>33</td><td>41</td><td>62</td><td>30.07</td><td>30.16</td><td>8.78</td><td>11</td><td>7</td><td>28</td></tr> <tr><td>13</td><td></td><td></td><td>47</td><td>32</td><td>41</td><td>60</td><td>30.05</td><td>30.14</td><td>8.65</td><td>10</td><td>6</td><td>28</td></tr> <tr><td>14</td><td></td><td></td><td>48</td><td>33</td><td>41</td><td>59</td><td>30.04</td><td>30.13</td><td>8.84</td><td>11</td><td>6</td><td>27</td></tr> <tr><td>15</td><td></td><td></td><td>48</td><td>33</td><td>41</td><td>59</td><td>30.04</td><td>30.12</td><td>9.32</td><td>10</td><td>5</td><td>28</td></tr> <tr><td>16</td><td></td><td></td><td>47</td><td>32</td><td>41</td><td>60</td><td>30.04</td><td>30.13</td><td>9.11</td><td>10</td><td>6</td><td>27</td></tr> <tr><td>17</td><td></td><td></td><td>44</td><td>32</td><td>40</td><td>65</td><td>30.05</td><td>30.14</td><td>9.10</td><td>7</td><td>4</td><td>27</td></tr> <tr><td>18</td><td></td><td></td><td>43</td><td>32</td><td>39</td><td>67</td><td>30.06</td><td>30.15</td><td>8.84</td><td>7</td><td>3</td><td>25</td></tr> <tr><td>19</td><td></td><td></td><td>42</td><td>33</td><td>38</td><td>70</td><td>30.07</td><td>30.16</td><td>8.98</td><td>8</td><td>4</td><td>26</td></tr> <tr><td>20</td><td></td><td></td><td>41</td><td>33</td><td>38</td><td>73</td><td>30.07</td><td>30.16</td><td>8.83</td><td>7</td><td>3</td><td>26</td></tr> <tr><td>21</td><td></td><td></td><td>40</td><td>33</td><td>37</td><td>75</td><td>30.07</td><td>30.16</td><td>8.74</td><td>7</td><td>3</td><td>26</td></tr> <tr><td>22</td><td></td><td></td><td>40</td><td>33</td><td>37</td><td>78</td><td>30.08</td><td>30.17</td><td>8.68</td><td>7</td><td>3</td><td>27</td></tr> <tr><td>23</td><td></td><td></td><td>39</td><td>33</td><td>37</td><td>79</td><td>30.08</td><td>30.17</td><td>8.45</td><td>5</td><td>2</td><td>29</td></tr> <tr><td>24</td><td></td><td></td><td>39</td><td>32</td><td>36</td><td>79</td><td>30.07</td><td>30.16</td><td>8.40</td><td>6</td><td>2</td><td>27</td></tr> </tbody> </table>										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			39	33	37	81	30.06	30.14	8.47	6	3	27	02			38	33	36	83	30.06	30.15	8.67	6	3	28	03			39	34	37	82	30.06	30.15	8.81	6	2	27	04			38	33	36	84	30.05	30.14	8.53	6	2	27	05			38	34	36	86	30.05	30.14	8.71	6	2	28	06			38	34	36	85	30.06	30.15	8.84	7	3	27	07			38	33	36	85	30.07	30.16	9.03	6	3	28	08			38	33	37	84	30.08	30.17	8.42	6	3	29	09			40	34	38	80	30.10	30.19	8.55	7	4	29	10			42	34	39	72	30.10	30.19	8.50	8	5	29	11			45	33	40	67	30.09	30.18	8.53	10	6	28	12			46	33	41	62	30.07	30.16	8.78	11	7	28	13			47	32	41	60	30.05	30.14	8.65	10	6	28	14			48	33	41	59	30.04	30.13	8.84	11	6	27	15			48	33	41	59	30.04	30.12	9.32	10	5	28	16			47	32	41	60	30.04	30.13	9.11	10	6	27	17			44	32	40	65	30.05	30.14	9.10	7	4	27	18			43	32	39	67	30.06	30.15	8.84	7	3	25	19			42	33	38	70	30.07	30.16	8.98	8	4	26	20			41	33	38	73	30.07	30.16	8.83	7	3	26	21			40	33	37	75	30.07	30.16	8.74	7	3	26	22			40	33	37	78	30.08	30.17	8.68	7	3	27	23			39	33	37	79	30.08	30.17	8.45	5	2	29	24			39	32	36	79	30.07	30.16	8.40	6	2	27
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)																																																																																																																																																																																																																																																																																																																																																																			
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11			45	33	40	67	30.09	30.18	8.53	10	6	28																																																																																																																																																																																																																																																																																																																																																																		
12			46	33	41	62	30.07	30.16	8.78	11	7	28																																																																																																																																																																																																																																																																																																																																																																		
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17			44	32	40	65	30.05	30.14	9.10	7	4	27																																																																																																																																																																																																																																																																																																																																																																		
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07	CLR	NC						5.00	BR	15	14	15	95	6	31	30.27	30.36																																																																																																																																																																																																																																																																																																																																																													
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16	FEW	NC						10.00		37	29	34	73	9	15	30.27	30.36																																																																																																																																																																																																																																																																																																																																																													
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SUNRISE: 0722										DEC 28				SUNSET: 1646				<table border="1"> <thead> <tr> <th rowspan="2">HOUR (LST)</th> <th rowspan="2">SKY COVER</th> <th rowspan="2">CEILING 100'S OF FT</th> <th rowspan="2">OBSERVATION TIME (LST)</th> <th rowspan="2">EFF CLD AMT Ok/as</th> <th rowspan="2">VISIBILITY (MILES)</th> <th rowspan="2">WEATHER</th> <th colspan="4">TEMPERATURE ° F</th> <th colspan="2">WIND</th> <th colspan="2">PRESSURE (INCHES, HG)</th> </tr> <tr> <th>DRY BULB</th> <th>DEW POINT</th> <th>WET BULB</th> <th>RELATIVE HUMIDITY (PCT)</th> <th>SPEED (MPH)</th> <th>DIRECTION TENS OF DEG</th> <th>STATION</th> <th>SEA LEVEL</th> </tr> </thead> <tbody> <tr><td>01</td><td>CLR</td><td>NC</td><td></td><td></td><td></td><td></td><td>10.00</td><td></td><td>35</td><td>29</td><td>33</td><td>78</td><td>0</td><td>00</td><td>30.16</td><td>30.24</td></tr> <tr><td>04</td><td>OVC</td><td>026</td><td></td><td></td><td></td><td></td><td>10.00</td><td></td><td>34</td><td>33</td><td>34</td><td>97</td><td>0</td><td>00</td><td>30.10</td><td>30.19</td></tr> <tr><td>07</td><td>OVC</td><td>090</td><td></td><td></td><td></td><td></td><td>8.00</td><td></td><td>34</td><td>33</td><td>34</td><td>97</td><td>0</td><td>00</td><td>30.07</td><td>30.16</td></tr> <tr><td>10</td><td>SCT</td><td>NC</td><td></td><td></td><td></td><td></td><td>6.00</td><td>BR</td><td>37</td><td>35</td><td>36</td><td>93</td><td>3</td><td>33</td><td>30.08</td><td>30.17</td></tr> <tr><td>13</td><td>OVC</td><td>090</td><td></td><td></td><td></td><td></td><td>7.00</td><td></td><td>42</td><td>35</td><td>39</td><td>76</td><td>0</td><td>00</td><td>30.03</td><td>30.12</td></tr> <tr><td>16</td><td>OVC</td><td>080</td><td></td><td></td><td></td><td></td><td>7.00</td><td></td><td>42</td><td>36</td><td>39</td><td>79</td><td>7</td><td>33</td><td>29.98</td><td>30.07</td></tr> <tr><td>19</td><td>BKN</td><td>120</td><td></td><td></td><td></td><td></td><td>8.00</td><td></td><td>40</td><td>36</td><td>38</td><td>86</td><td>8</td><td>35</td><td>29.97</td><td>30.06</td></tr> <tr><td>22</td><td>OVC</td><td>046</td><td></td><td></td><td></td><td></td><td>8.00</td><td></td><td>39</td><td>37</td><td>38</td><td>93</td><td>5</td><td>34</td><td>29.96</td><td>30.05</td></tr> </tbody> </table>										HOUR (LST)	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Ok/as	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	01	CLR	NC					10.00		35	29	33	78	0	00	30.16	30.24	04	OVC	026					10.00		34	33	34	97	0	00	30.10	30.19	07	OVC	090					8.00		34	33	34	97	0	00	30.07	30.16	10	SCT	NC					6.00	BR	37	35	36	93	3	33	30.08	30.17	13	OVC	090					7.00		42	35	39	76	0	00	30.03	30.12	16	OVC	080					7.00		42	36	39	79	7	33	29.98	30.07	19	BKN	120					8.00		40	36	38	86	8	35	29.97	30.06	22	OVC	046					8.00		39	37	38	93	5	34	29.96	30.05																																																																																																																																																																																				
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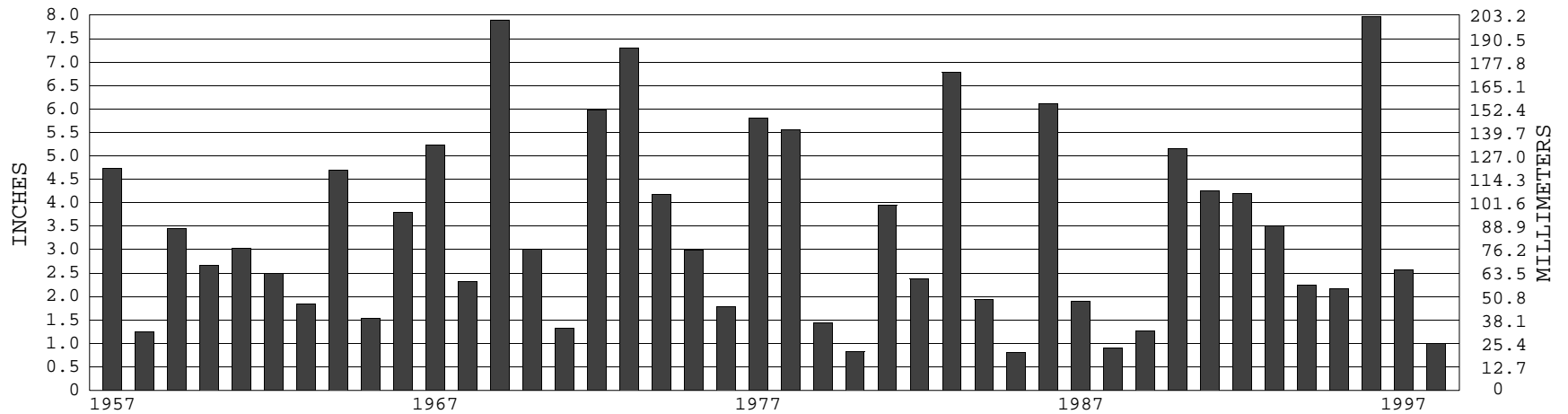
### WILMINGTON, DE DECEMBER TEMPERATURES



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

Long-Term (1957-1998) Mean: 35.9      1961-1990 Normal: 35.8

### WILMINGTON, DE DECEMBER PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 3.44

1961-1990 Normal: 3.48



**DECEMBER 1998  
WILMINGTON, DE**

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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

DIRECTOR

## NOTICE

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

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828–271–4010(TDD)  
or [orders@ncdc.noaa.gov](mailto:orders@ncdc.noaa.gov)  
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