



DECEMBER 1996

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

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM					
																			5-SEC		2-MIN			
																			SPEED	DIR	SPEED	DIR		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	56	44	50	9	48	50	15	0	RA BR HZ				0.91	29.80	29.89	15.3	15	15.4	29	15	24	15	01	
02	56	31	44	4	34	40	21	0	TSRA RA BR				0.73	29.83	29.91	11.4	28	11.2	36	30	29	29	02	
03	49	26	38	-2	32	35	27	0	BR				0.00	30.06	30.15	3.8	18	6.1	21	15	18	15	03	
04	48	34	41	1	33	38	24	0	BR				0.00	30.07	30.16	10.9	30	10.4	29	30	25	30	04	
05	44	30	37	-2	30	36	28	0	RA BR HZ				0.01	30.06	30.14	4.6	11	6.9	25	07	23	05	05	
06	45	33	39	0	31	36	26	0	RA				1.04	29.66	29.75	12.5	31	14.0	38	31	32	31	06	
07	44	33	39	1	37	38	26	0	RA BR				0.71	29.68	29.76	4.1	01	8.0	18	31	16	32	07	
08	50	32	41	3	29	36	24	0	RA BR				T	29.58	29.66	8.0	27	9.5	24	30	21	30	08	
09	41	31	36	-2	25	31	29	0					0.00	29.80	29.89	11.8	30	12.4	28	29	23	30	09	
10	41	29	35	-2	25	32	30	0					0.00	30.00	30.08	5.3	22	7.9	17	19	15	18	10	
11	44	38	41	4	30	37	24	0	RA BR HZ				0.13	29.88	29.97	1.4	13	4.9	13	04	11	03	11	
12	53	42	48	11	36	43	17	0	RA BR HZ				0.23	30.00	30.09	11.3	05	11.6	21	05	18	05	12	
13	51	39	45	9	45	45	20	0	RA BR				2.09	29.98	30.06	12.7	03	15.0	28	35	21	35	13	
14	41	37	39	3	37	38	26	0	RA BR				1.29	30.11	30.20	13.6	34	13.7	25	36	22	35	14	
15	45	36	41	5	37	39	24	0					0.00	30.28	30.36	9.1	01	9.7	25	01	20	02	15	
16	45	41	43	7	42	43	22	0	RA BR				0.04	30.14	30.22	6.0	05	6.1	13	07	11	06	16	
17	53	44	49	14	47	47	16	0	RA FG+ BR				0.06	29.82	29.90	3.7	19	7.4	21	23	17	21	17	
18	50	43	47	12	44	46	18	0	RA BR HZ				0.05	29.84	29.92	3.3	18	4.0	17	29	15	29	18	
19	43	25	34	-1	33	35	31	0	RA SN BR UP				0.23	29.72	29.81	9.6	31	10.9	39*	29	32	29	19	
20	27	19	23	-11	8	19	42	0					0.00	30.16	30.25	13.3	27	13.6	29	26	26	28	20	
21	30	15*	23*	-11	12	20	42	0					0.00	30.47	30.56	6.1	24	5.3	16	23	14	23	21	
22	39	19	29	-5	22	28	36	0	RA				T	30.34	30.43	6.4	20	4.4	16	19	13	20	22	
23	47	28	38	4	32	36	27	0	BR HZ				0.00	30.18	30.27	3.9	18	4.6	14	16	11	15	23	
24	62*	37	50	17	45	48	15	0	RA BR				0.36	29.80	29.89	12.3	21	16.1	37	29	32*	28	24	
25	36	25	31	-2	17	27	34	0					0.00	30.14	30.23	13.3	28	14.2	33	31	30	29	25	
26	36	23	30	-3	23	28	35	0	RA				T	30.35	30.44	2.6	34	4.6	10	09	9	09	26	
27	51	33	42	9	32	37	23	0	RA BR				0.01	30.17	30.26	3.5	31	3.6	14	28	11	29	27	
28	46	33	40	7	40	41	25	0	FG+ BR				0.00	30.11	30.20	5.3	15	5.8	15	15	14	15	28	
29	56	46	51*	19	50	50	14	0	RA FG+ BR				0.06	29.94	30.02	3.1	17	4.6	13	22	11	23	29	
30	51	35	43	11	38	42	22	0	FG+ BR				0.00	30.13	30.22	5.2	31	7.7	21	32	17	32	30	
31	41	26	34	2	31	34	31	0	RA BR				0.01	30.10	30.19	8.6	02	9.7	22	01	20	01	31	

DECEMBER 1996
WILMINGTON, DE

45.8	32.5	39.2	■ ■	33.1	37.3	25.6	0.0	< MONTHLY AVERAGES	TOTALS-->	7.96	30.01	30.09	2.5	29	9.0	<- MONTHLY AVERAGES	
1.9	4.9	3.4	■ ■	----- DEPARTURE FROM NORMAL ----->						4.49	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						
DEGREE DAYS								GREATEST 24-HR PRECIPITATION: 2.73 DATE: 13-14				SEA LEVEL PRESSURE DATE TIME					
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: DATE: DATE:				MAXIMUM : 30.62 DATE: 21 1038					
HEATING: 794 -111				1882 93				GREATEST SNOW DEPTH: DATE: DATE:				MINIMUM : 29.50 DATE: 06 0351					
COOLING: 0 0				1038 -8				NUMBER OF DAYS WITH →		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 14		PRECIPITATION ≥ 0.01 INCH : 17			
								MAXIMUM TEMP ≤ 32 : 2		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 10					
								THUNDERSTORMS : 1		HEAVY FOG : 4		SNOWFALL ≥ 1.0 INCH : 0					

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

DECEMBER 1996 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	0.10	0.06	0.05	0.04	0.06	0.03			T	0.04	0.02	0.09	01	0.87	0.91	
02	0.19	0.42	0.13	T	0.01	0.02	0.01	0.11	0.05	0.05	0.04	0.07	02												02	0.77	0.73		
03													03												03		0.00		
04													04												04		0.00		
05													05							T	T	T	T	T	05	T	0.01		
06	0.15	0.19	0.20	0.19	0.29	0.03		T					06	0.08	0.11	0.12	0.14	0.05	0.07	0.05	0.01	0.01			06	1.05	1.04		
07									T				07										T		07		0.71		
08										T			08										T		08		T		
09													09											T	09		0.00		
10													10												10		0.00		
11								T					11	T	0.02	T	T	0.02	0.04	0.03	T				11		0.13		
12												0.02	12			0.15						0.02	0.01	0.02	12		0.23		
13	0.01	0.07	0.03	0.07	0.06	0.05	0.03	0.04	0.02		0.01	0.03	13	0.10	0.07	0.31	0.12	0.10	0.12	0.12	0.07	0.10	0.11	0.17	13	2.06	2.09		
14	0.19	0.11	0.05	0.17	0.17	0.08	0.05	0.01	0.09	0.09	0.03	0.05	14	0.01	0.02	0.01	0.04	0.03	0.04	0.02	0.02	0.03	T	0.01	14	1.32	1.29		
15													15												15		0.00		
16													16									T	0.01	0.02	16		0.04		
17				0.01	T	T				0.01	0.02	0.01	17			0.01								0.01	17		0.06		
18													18												18	0.04	0.05		
19	0.03	0.07	0.03	0.03	0.01	T	0.02	T	0.01	0.02	0.01		19	T				0.01	T	T	T	T	T	0.04	19	0.24	0.23		
20	T												20											T	20	T	0.00		
21													21												21		0.00		
22													22									T			22		T		
23													23												23		0.00		
24													24			T	0.08	0.05	0.06	0.06	0.06	0.09	0.02		24		0.36		
25													25												25		0.00		
26													26								T	T	T	T	26		T		
27		0.01	T	T	T								27												27		0.01		
28													28												28		0.00		
29			0.01									0.01	29	0.03	T							0.01			29		0.06		
30													30												30		0.00		
31							0.01	T				T	31	T											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	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 DECEMBER 1996

Ceilorometer (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							1.50	10.00	
02							2.50	10.00	
03							4.00	10.00	
04							4.00	10.00	
05							6.00	10.00	
06							3.00	10.00	
07							1.00	10.00	
08							4.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							3.00	10.00	
12							1.00	10.00	
13							1.25	9.00	
14							5.00	10.00	
15							10.00	10.00	
16							1.75	10.00	
17							.50	10.00	
18							4.00	10.00	
19							1.25	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							7.00	10.00	
23							5.00	10.00	
24							3.00	10.00	
25							10.00	10.00	
26							8.00	10.00	
27							4.00	10.00	
28							.25	8.00	
29							<.25	2.50	
30							.25	10.00	
31							1.00	10.00	
MONTHLY AVGS							4.27	9.66	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 3 15 8									

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

DECEMBER 1996

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: 0704						DEC 01	SUNSET: 1639						SUNRISE: 0710						DEC 07	SUNSET: 1638							
01	OVC	002			3.00 BR	44	30	38	58	8	15	30.04	30.13	01	BKN	120			10.00	36	30	34	79	5	09	29.81	29.90
04	OVC	003			3.00 BR	47	47	47	100	10	16	29.98	30.06	04	CLR	NC			10.00	35	31	33	85	7	12	29.78	29.88
07	OVC	043			3.00 -RA BR	49	49	49	100	10	16	29.95	30.04	07	BKN	090			10.00	37	33	35	86	8	08	29.76	29.85
10	OVC	004			3.00 -RA BR	52	51	52	97	22	15	29.88	29.96	10	OVC	040			3.00 -RA BR	41	38	40	89	7	08	29.76	29.85
13	OVC	013			3.00 RA BR	52	51	52	97	21	15	29.80	29.88	13	OVC	005			1.00 -RA BR	43	42	43	97	5	36	29.65	29.74
16	OVC	042			6.00 -RA BR	52	50	51	93	16	15	29.73	29.82	16	OVC	027			1.50 RA BR	42	41	42	96	13	33	29.59	29.68
19	OVC	009			10.00	53	52	52	96	20	16	29.64	29.73	19	OVC	011			10.00 -RA	40	38	39	93	12	34	29.58	29.67
22	OVC	003			2.00 BR	54	53	53	97	22	15	29.54	29.63	22	OVC	070			10.00	40	37	39	89	7	34	29.56	29.65
SUNRISE: 0705						DEC 02	SUNSET: 1639						SUNRISE: 0711						DEC 08	SUNSET: 1638							
01	OVC	009			5.00 -RA BR	56	55	55	97	16	15	29.44	29.53	01	OVC	034			8.00	38	35	37	89	15	29	29.55	29.64
04	OVC	060			10.00 -RA	49	43	46	80	15	28	29.58	29.67	04	CLR	NC			8.00	35	31	33	85	10	28	29.57	29.66
07	OVC	049			10.00	47	44	46	90	9	24	29.66	29.74	07	CLR	NC			6.00 BR	32	30	31	92	7	23	29.59	29.68
10	FEW	NC			10.00	46	33	40	61	22	27	29.81	29.90	10	CLR	NC			10.00	40	31	36	70	8	25	29.59	29.68
13	CLR	NC			10.00	47	28	39	48	17	28	29.86	29.95	13	CLR	NC			10.00	48	31	41	52	13	26	29.54	29.62
16	CLR	NC			10.00	45	26	37	48	13	27	29.94	30.03	16	CLR	NC			10.00	48	25	39	41	6	25	29.56	29.65
19	CLR	NC			10.00	40	25	34	55	6	29	30.02	30.11	19	CLR	NC			10.00	41	24	35	51	3	19	29.58	29.67
22	CLR	NC			10.00	36	27	33	70	0	00	30.08	30.16	22	BKN	060			10.00	38	31	35	76	9	36	29.57	29.66
SUNRISE: 0706						DEC 03	SUNSET: 1638						SUNRISE: 0712						DEC 09	SUNSET: 1638							
01	CLR	NC			8.00	31	28	30	89	0	00	30.08	30.18	01	OVC	048			10.00	35	30	33	82	15	31	29.61	29.70
04	CLR	NC			6.00 BR	29	27	28	92	5	31	30.10	30.19	04	CLR	NC			10.00	33	25	30	72	14	30	29.62	29.71
07	CLR	NC			6.00 BR	29	28	29	96	0	00	30.12	30.22	07	OVC	045			10.00	32	23	29	69	13	29	29.69	29.78
10	CLR	NC			9.00	39	30	35	70	0	00	30.15	30.24	10	OVC	055			10.00	34	25	31	70	18	31	29.77	29.85
13	CLR	NC			10.00	47	36	42	66	12	16	30.08	30.17	13	OVC	049			10.00	36	28	33	73	16	32	29.78	29.87
16	CLR	NC			10.00	46	36	42	68	13	14	30.02	30.11	16	CLR	NC			10.00	40	23	34	51	15	31	29.84	29.93
19	FEW	NC			10.00	41	35	38	79	5	14	30.01	30.10	19	CLR	NC			10.00	33	23	30	67	7	30	29.93	30.02
22	OVC	033			9.00	37	34	36	89	3	02	29.98	30.07	22	CLR	NC			10.00	31	23	28	72	9	28	30.00	30.09
SUNRISE: 0707						DEC 04	SUNSET: 1638						SUNRISE: 0713						DEC 10	SUNSET: 1638							
01	FEW	NC			7.00	36	34	35	93	3	05	29.95	30.04	01	CLR	NC			10.00	31	25	29	79	7	26	30.03	30.12
04	OVC	080			6.00 BR	37	35	36	93	0	00	29.97	30.05	04	CLR	NC			10.00	32	23	29	69	10	28	30.06	30.16
07	CLR	NC			4.00 BR	36	35	36	97	6	27	30.01	30.10	07	CLR	NC			10.00	30	23	28	75	6	25	30.09	30.18
10	CLR	NC			10.00	45	32	39	61	21	30	30.06	30.15	10	CLR	NC			10.00	35	24	31	64	7	25	30.10	30.19
13	OVC	035			10.00	46	32	40	58	20	30	30.07	30.16	13	CLR	NC			10.00	39	22	33	50	8	22	30.00	30.09
16	BKN	043			10.00	46	31	40	56	18	30	30.09	30.18	16	CLR	NC			10.00	40	24	34	53	10	19	29.92	30.01
19	OVC	047			10.00	43	32	38	65	7	29	30.16	30.25	19	BKN	070			10.00	38	26	33	62	13	16	29.89	29.98
22	CLR	NC			10.00	38	30	35	73	8	28	30.19	30.27	22	SCT	NC			10.00	38	28	34	68	6	17	29.89	29.98
SUNRISE: 0708						DEC 05	SUNSET: 1638						SUNRISE: 0713						DEC 11	SUNSET: 1638							
01	SCT	NC			10.00	37	30	34	76	0	00	30.17	30.26	01	OVC	055			10.00	39	31	36	73	6	16	29.86	29.95
04	CLR	NC			10.00	35	29	33	78	3	33	30.16	30.25	04	OVC	070			10.00	40	32	37	73	3	13	29.85	29.94
07	CLR	NC			10.00	33	28	31	82	3	36	30.18	30.27	07	OVC	060			10.00	41	31	37	67	0	00	29.87	29.96
10	CLR	NC			10.00	41	30	37	65	12	07	30.20	30.29	10	OVC	049			9.00	42	32	38	68	6	09	29.89	29.98
13	CLR	NC			10.00	43	29	37	58	10	14	30.11	30.20	13	OVC	085			6.00 HZ	42	31	37	65	5	13	29.85	29.94
16	CLR	NC			10.00	42	31	38	65	7	13	30.03	30.12	16	OVC	065			5.00 HZ	43	31	38	63	5	35	29.86	29.95
19	OVC	041			9.00 -RA	42	31	37	65	9	09	29.95	30.04	19	OVC	075			6.00 -RA	43	29	37	58	3	07	29.89	29.98
22	OVC	018			10.00 -RA	43	31	38	63	9	12	29.79	29.88	22	BKN	085			5.00 HZ	43	28	37	56	9	04	29.91	30.00
SUNRISE: 0709						DEC 06	SUNSET: 1638						SUNRISE: 0714						DEC 12	SUNSET: 1639							
01	OVC	026			4.00 RA	42	30	37	62	13	05	29.59	29.68	01	OVC	070			4.00 BR	43	20	35	40	9	05	29.93	30.01
04	OVC	029			4.00 RA	43	32	38	65	20	32	29.42	29.50	04	OVC	065			3.00 BR	44	43	44	96	10	05	29.94	30.03
07	OVC	011			10.00	38	32	36	79	22	30	29.51	29.60	07	OVC	010			3.00 BR	45	31	39	58	9	06	29.98	30.07
10	FEW	NC			10.00	42	29	37	60	22	31	29.62	29.70	10	OVC	002			1.75 HZ	48	20	37	33	13	05	30.02	30.11
13	OVC	031			10.00	44	31	39	60	18	31	29.69	29.78	13	OVC	015			6.00 HZ	53	20	40	27	12	05	30.00	30.09
16	OVC	033			10.00	43	31	38	63	12	28	29.76	29.85	16	OVC	010			5.00 BR	51	49	50	92	16	07	30.01	30.10
19	CLR	NC			10.00	37	30	34	76	7	29	29.81	29.90	19	OVC	012			10.00	50	46	48	86	13	07	30.04	30.13
22	CLR	NC			10.00	38	29	34	70	0	00	29.80	29.89	22	OVC	002			2.00 -RA BR	48	48	48	100	13	06	30.04	30.13

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

DECEMBER 1996

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 Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0715						DEC 13						SUNSET: 1639						SUNRISE: 0719						DEC 19						SUNSET: 1641					
01	OVC	002			3.00	-RA BR	47	47	47	100	14	05	30.00	30.09	01	OVC	050			7.00	-RA	42	39	41	89	0	00	29.85	29.94						
04	OVC	002			4.00	RA BR	50	50	50	100	14	06	29.98	30.06	04	OVC	016			6.00	-RA BR	40	39	40	97	7	36	29.79	29.88						
07	OVC	006			4.00	-RA BR	50	49	49	96	16	06	29.97	30.06	07	OVC	009			10.00		38	37	38	97	6	36	29.76	29.85						
10	OVC	004			2.00	BR	47	46	47	97	15	06	29.97	30.06	10	OVC	008			5.00	-RA BR	38	36	37	93	9	35	29.74	29.83						
13	OVC	004			1.75	-RA BR	47	46	46	97	17	06	29.92	30.01	13	OVC	008			2.50	BR	37	36	37	96	8	32	29.67	29.75						
16	OVC	008			3.00	RA BR	45	44	45	97	10	01	29.95	30.04	16	OVC	011			8.00		37	35	36	93	10	32	29.59	29.68						
19	OVC	014			9.00	-RA	42	40	41	92	17	35	29.99	30.08	19	OVC	023			9.00	UP	36	32	34	86	20	29	29.61	29.70						
22	OVC	050			6.00	RA BR	39	37	38	93	18	34	29.99	30.08	22	OVC	027			10.00		27	21	25	78	23	30	29.73	29.82						
SUNRISE: 0716						DEC 14						SUNSET: 1639						SUNRISE: 0719						DEC 20						SUNSET: 1641					
01	OVC	034			7.00	RA	39	37	38	93	14	35	29.99	30.08	01	FEW	NC			10.00		24	14	21	65	25	29	29.84	29.93						
04	OVC	010			7.00	RA	38	36	37	93	12	33	30.01	30.09	04	FEW	NC			10.00		20	8	17	60	16	27	29.96	30.05						
07	OVC	012			10.00	-RA	38	36	37	93	13	34	30.03	30.12	07	CLR	NC			10.00		19	5	16	54	17	28	30.08	30.17						
10	OVC	049			10.00	-RA	41	38	40	89	14	35	30.09	30.18	10	CLR	NC			10.00		22	7	18	52	16	27	30.18	30.27						
13	OVC	011			9.00	-RA	41	39	40	93	14	34	30.10	30.19	13	SCT	NC			10.00		26	9	21	48	16	27	30.15	30.24						
16	OVC	039			9.00	-RA	40	37	39	89	15	35	30.15	30.24	16	SCT	NC			10.00		26	7	21	44	20	29	30.21	30.30						
19	OVC	035			10.00	-RA	38	36	37	93	14	33	30.21	30.30	19	CLR	NC			10.00		23	8	19	53	10	26	30.29	30.38						
22	OVC	110			10.00		38	35	37	89	13	33	30.23	30.32	22	CLR	NC			10.00		21	9	18	59	8	28	30.36	30.45						
SUNRISE: 0716						DEC 15						SUNSET: 1639						SUNRISE: 0720						DEC 21						SUNSET: 1642					
01	OVC	021			10.00		39	34	37	82	12	34	30.23	30.32	01	CLR	NC			10.00		19	9	16	65	8	28	30.40	30.49						
04	OVC	024			10.00		39	34	37	82	13	01	30.26	30.36	04	CLR	NC			10.00		18	9	16	68	5	24	30.45	30.54						
07	OVC	019			10.00		38	34	36	86	9	36	30.29	30.39	07	CLR	NC			10.00		15	11	14	84	5	19	30.48	30.57						
10	OVC	020			10.00		42	35	39	76	15	03	30.31	30.40	10	CLR	NC			10.00		22	11	19	63	3	34	30.52	30.61						
13	OVC	022			10.00		45	37	41	74	12	02	30.27	30.36	13	CLR	NC			10.00		29	11	24	47	8	24	30.49	30.58						
16	OVC	020			10.00		44	38	41	79	8	01	30.28	30.36	16	CLR	NC			10.00		29	11	24	47	12	23	30.48	30.57						
19	OVC	012			10.00		42	39	41	89	6	35	30.29	30.38	19	CLR	NC			10.00		25	14	22	63	6	19	30.46	30.55						
22	OVC	016			10.00		42	39	41	89	6	04	30.26	30.35	22	CLR	NC			10.00		23	15	21	72	0	00	30.46	30.55						
SUNRISE: 0717						DEC 16						SUNSET: 1640						SUNRISE: 0720						DEC 22						SUNSET: 1642					
01	OVC	008			7.00		42	40	41	92	7	04	30.24	30.33	01	CLR	NC			10.00		23	17	21	78	6	19	30.42	30.51						
04	OVC	017			5.00	BR	42	41	42	96	7	04	30.21	30.30	04	CLR	NC			7.00		19	17	18	92	5	27	30.41	30.50						
07	OVC	011			10.00		42	39	41	89	5	07	30.20	30.29	07	CLR	NC			9.00		23	19	22	85	0	00	30.39	30.48						
10	OVC	013			10.00		44	40	42	85	5	08	30.20	30.29	10	CLR	NC			10.00		31	24	29	76	7	20	30.40	30.49						
13	OVC	010			10.00		44	41	43	89	6	05	30.12	30.21	13	CLR	NC			10.00		37	23	32	57	8	19	30.31	30.40						
16	OVC	008			7.00		44	42	43	93	6	03	30.08	30.17	16	BKN	110			10.00		37	23	32	57	5	19	30.28	30.37						
19	OVC	002			2.00	BR	44	43	44	96	8	04	30.07	30.16	19	SCT	NC			10.00		36	24	32	62	0	00	30.28	30.37						
22	OVC	002			2.00	-RA BR	44	44	44	100	7	05	30.03	30.12	22	FEW	NC			10.00		35	25	31	67	5	16	30.26	30.35						
SUNRISE: 0718						DEC 17						SUNSET: 1640						SUNRISE: 0721						DEC 23						SUNSET: 1643					
01	OVC	002			3.00	BR	44	44	44	100	8	06	29.93	30.02	01	FEW	NC			10.00		33	27	31	78	0	00	30.24	30.34						
04	OVC	002			1.25	-RA BR	44	44	44	100	5	04	29.90	29.99	04	CLR	NC			9.00		29	26	28	89	0	00	30.23	30.32						
07	OVC	002			1.25	BR	44	44	44	100	6	06	29.83	29.91	07	OVC	110			7.00		31	28	30	89	0	00	30.24	30.33						
10	OVC	002			0.75	BR	46	46	46	100	3	10	29.81	29.89	10	OVC	100			9.00		39	30	35	70	3	VR	30.27	30.36						
13	OVC	006			10.00		52	51	52	97	7	19	29.73	29.82	13	CLR	NC			10.00		45	31	39	58	7	14	30.18	30.27						
16	OVC	024			10.00		51	49	50	92	9	21	29.74	29.83	16	OVC	095			10.00		46	32	40	58	3	13	30.15	30.24						
19	OVC	014			10.00		51	47	49	86	15	22	29.79	29.88	19	CLR	NC			10.00		40	34	37	79	6	16	30.14	30.23						
22	OVC	014			10.00		50	46	48	86	9	21	29.81	29.90	22	CLR	NC			8.00		40	37	39	89	8	15	30.08	30.18						
SUNRISE: 0718						DEC 18						SUNSET: 1640						SUNRISE: 0721						DEC 24						SUNSET: 1643					
01	OVC	014			10.00		49	46	47	90	3	27	29.80	29.89	01	CLR	NC			10.00		41	37	39	86	10	15	30.01	30.09						
04	OVC	014			10.00		48	45	47	89	0	00	29.82	29.91	04	CLR	NC			10.00		52	41	47	66	16	18	29.92	30.01						
07	OVC	016			10.00		47	45	46	93	5	16	29.83	29.92	07	CLR	NC			10.00		53	45	49	74	18	19	29.87	29.96						
10	OVC	014			6.00	BR	48	46	47	93	3	18	29.85	29.94	10	FEW	NC			10.00		56	50	53	81	16	19	29.83	29.92						
13	OVC	012			6.00	BR	49	46	47	90	0	00	29.82	29.91	13	BKN	060			10.00		61	50	55	67	21	20	29.72	29.81						
16	OVC	012			6.00	BR	49	46	47	90	5	17	29.80	29.88	16	OVC	037			9.00	-RA	60	51	55	72	18	20	29.65	29.73						
19	OVC	014			6.00	HZ	48	42	45	80	12	30	29.86	29.95	19	OVC	013			6.00	RA BR	52	51	52	97	12	23	29.67	29.75						
22	OVC	027			10.00		45	37	41	74	7	33	29.90	29.99	22	SCT	NC			10.00		46	36	42	68	22	30	29.75	29.84						

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

DECEMBER 1996

ILG

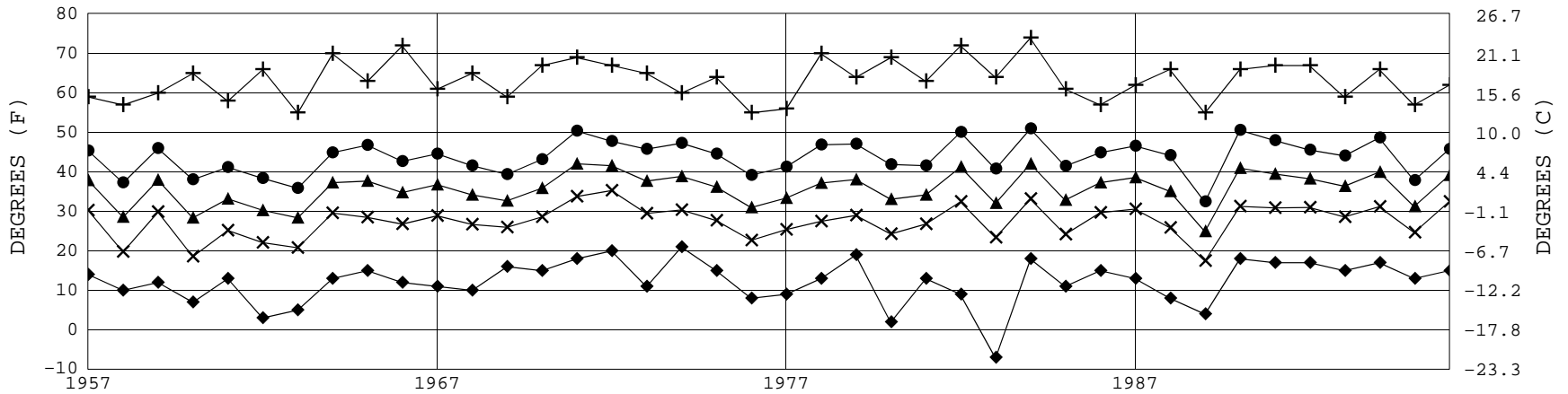
WBAN # 13781

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)
SUNRISE: 0722						DEC 25	SUNSET: 1644						SUNRISE: 0723						DEC 31	SUNSET: 1648							
01	OVC	042			10.00	36	22	31	57	20	30	29.88	29.97	01	OVC	027			10.00	39	34	37	82	5	08	30.12	30.21
04	FEW	NC			10.00	31	16	26	54	24	29	29.98	30.06	04	OVC	041			10.00	38	31	35	76	12	05	30.08	30.16
07	CLR	NC			10.00	30	15	25	54	18	29	30.05	30.14	07	OVC	016			10.00	39	34	37	82	9	05	30.00	30.09
10	CLR	NC			10.00	32	14	26	47	22	28	30.16	30.25	10	OVC	008			4.00	40	38	39	93	7	05	29.97	30.06
13	CLR	NC			10.00	35	17	29	48	14	27	30.17	30.26	13	OVC	006			6.00	40	38	39	93	8	35	29.98	30.07
16	CLR	NC			10.00	35	16	29	46	10	27	30.19	30.28	16	OVC	008			10.00	35	32	34	89	13	35	30.09	30.19
19	CLR	NC			10.00	31	17	26	56	3	21	30.24	30.33	19	OVC	029			10.00	32	26	30	79	10	35	30.21	30.30
22	CLR	NC			10.00	28	19	25	69	7	25	30.29	30.38	22	CLR	NC			10.00	28	20	25	72	10	35	30.30	30.40
SUNRISE: 0722						DEC 26	SUNSET: 1645						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 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. & = Original observation contained additional weather elements. See page 3 for additional notes.														
01	CLR	NC			10.00	26	18	24	71	7	30	30.35													30.44		
04	CLR	NC			10.00	26	18	24	71	0	00	30.41													30.50		
07	CLR	NC			10.00	25	17	23	72	3	07	30.43													30.52		
10	CLR	NC			10.00	30	18	26	61	7	11	30.46													30.55		
13	CLR	NC			10.00	33	21	29	61	7	11	30.39													30.48		
16	CLR	NC			10.00	35	25	31	67	6	01	30.31													30.40		
19	BKN	065			10.00	33	26	31	75	5	03	30.30													30.39		
22	OVC	022			9.00	35	31	33	85	5	03	30.23													30.32		
SUNRISE: 0722						DEC 27	SUNSET: 1645																				
01	OVC	016			8.00	37	34	36	89	0	00	30.15	30.24														
04	OVC	020			7.00	36	34	35	93	6	34	30.14	30.23														
07	SCT	NC			7.00	34	32	33	92	3	31	30.15	30.24														
10	CLR	NC			7.00	39	31	36	73	0	00	30.19	30.28														
13	CLR	NC			10.00	50	32	42	50	5	33	30.13	30.22														
16	CLR	NC			10.00	49	32	42	52	7	29	30.16	30.24														
19	CLR	NC			10.00	42	31	38	65	5	30	30.20	30.29														
22	CLR	NC			7.00	35	31	33	85	0	00	30.19	30.28														
SUNRISE: 0722						DEC 28	SUNSET: 1646																				
01	BKN	060			5.00	35	33	34	93	6	04	30.16	30.24														
04	OVC	070			7.00	39	34	37	82	0	00	30.17	30.26														
07	OVC	055			8.00	39	37	38	93	7	13	30.15	30.24														
10	OVC	055			6.00	42	38	40	85	13	15	30.17	30.26														
13	OVC	012			5.00	45	41	43	86	10	15	30.10	30.19														
16	OVC	015			4.00	45	43	44	93	8	16	30.06	30.14														
19	OVC	001			1.00	43	43	43	100	7	14	30.04	30.13														
22	OVC	001			0.25	45	45	45	100	6	14	30.04	30.13														
SUNRISE: 0723						DEC 29	SUNSET: 1647																				
01	VV	001			0.25	46	46	46	100	0	00	30.02	30.11														
04	VV	001			0.25	46	46	46	100	0	00	30.00	30.09														
07	OVC	004			0.25	47	47	47	100	7	17	29.96	30.05														
10	OVC	002			1.00	49	49	49	100	5	16	29.97	30.06														
13	OVC	004			0.75	52	52	52	100	8	12	29.85	29.94														
16	OVC	001			0.75	53	53	53	100	3	15	29.85	29.93														
19	SCT	NC			2.50	54	54	54	100	5	22	29.88	29.97														
22	VV	001			0.25	50	50	50	100	5	24	29.95	30.03														
SUNRISE: 0723						DEC 30	SUNSET: 1648																				
01	CLR	NC			0.25	45	45	45	100	3	25	29.98	30.06														
04	CLR	NC			4.00	43	43	43	100	5	25	30.03	30.11														
07	CLR	NC			9.00	46	40	43	79	10	28	30.07	30.16														
10	CLR	NC			9.00	49	40	45	71	10	28	30.18	30.27														
13	CLR	NC			10.00	50	37	44	61	10	32	30.16	30.25														
16	CLR	NC			10.00	48	37	43	66	12	01	30.17	30.26														
19	CLR	NC			10.00	41	34	38	76	5	02	30.22	30.31														
22	CLR	NC			10.00	36	33	35	89	0	00	30.18	30.27														

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)	DIRECTION	SPEED	DIRECTION
							STATION	SEA LEVEL					
01			38	32	36	82	29.99	30.08	7.40	8	2	27	
02			38	32	36	81	29.99	30.08	7.02	8	4	27	
03			37	31	35	81	30.00	30.08	7.31	9	4	27	
04			37	33	36	84	29.99	30.08	7.34	9	4	27	
05			37	33	35	85	29.99	30.08	8.01	8	2	27	
06			37	32	35	84	30.00	30.09	8.06	7	2	27	
07			37	32	35	84	30.01	30.10	7.98	8	2	27	
08			37	33	36	84	30.02	30.11	7.04	8	2	27	
09			39	33	37	80	30.03	30.12	6.94	9	2	27	
10			41	33	38	75	30.04	30.12	7.60	10	2	27	
11			42	33	39	74	30.03	30.12	7.81	11	2	27	
12			43	34	40	71	30.01	30.10	8.00	10	3	28	
13			44	34	40	70	29.99	30.08	7.97	10	2	29	
14			44	33	40	69	29.98	30.07	8.04	10	2	28	
15			44	34	40	70	29.98	30.07	7.85	10	1	28	
16			43	34	40	71	29.99	30.07	8.20	9	2	27	
17			42	34	39	74	29.99	30.08	7.98	8	1	27	
18			41	34	38	77	30.00	30.09	8.24	8	2	27	
19			40	33	38	77	30.01	30.10	8.73	8	2	27	
20			40	33	37	79	30.01	30.10	8.53	7	1	27	
21			39	33	37	79	30.01	30.10	8.01	8	2	27	
22			38	33	36	80	30.01	30.10	8.08	8	2	27	
23			38	32	36	80	30.01	30.10	8.26	8	2	27	
24			38	32	35	82	30.01	30.10	7.58	7	2	27	

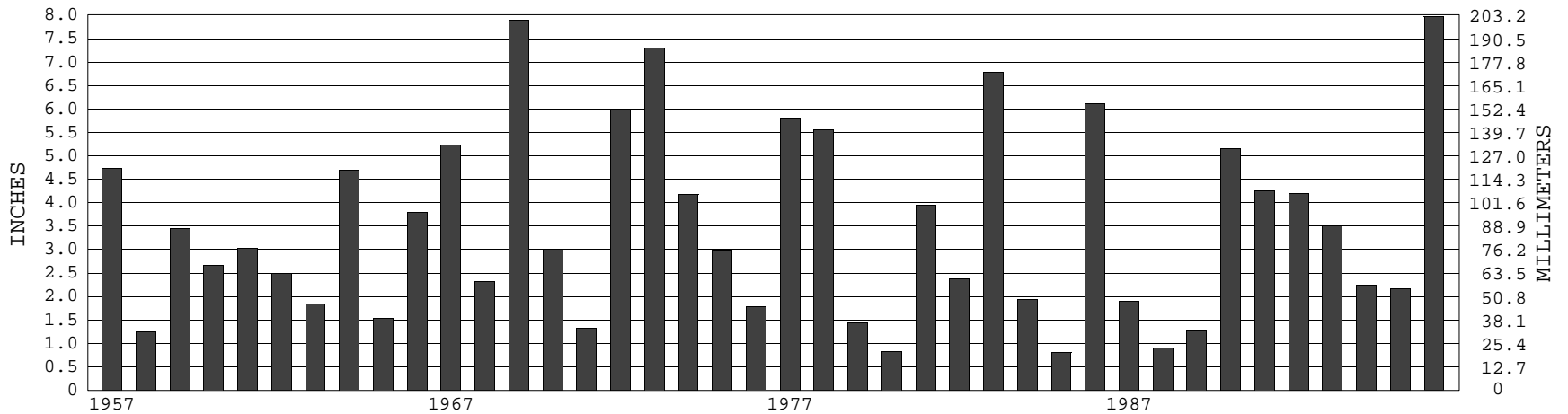
WILMINGTON, DE DECEMBER TEMPERATURES



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

Long-Term (1957-1996) Mean: 35.7 1961-1990 Normal: 35.8

WILMINGTON, DE DECEMBER PRECIPITATION



Long-Term (1957-1996) Mean Monthly Total: 3.52

1961-1990 Normal: 3.48



**DECEMBER 1996
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.

Kenneth D Hadean

DIRECTOR

NOTICE

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

We welcome your questions or comments, please contact us at
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