



# DECEMBER 1999

## 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): 93 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			
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	37	23	30	-11	7	23	35	0				0.00	30.28	30.39	12.9	33	13.1	31	33	24	33	01		
02	48	25	37	-3	17	29	28	0				0.00	30.19	30.29	7.5	30	8.3	18	30	16	31	02		
03	57	28	43	3	27	36	22	0				0.00	30.12	30.22	2.0	21	2.5	11	21	10	21	03		
04	67*	36	52	12	41	47	13	0	RA			T	30.07	30.17	4.4	25	5.1	25	27	22	27	04		
05	63	39	51	12	31	43	14	0	BR HZ			0.00	30.00	30.10	5.7	15	6.3	17	15	15	16	05		
06	59	49	54*	15	50	53	11	0	RA BR			0.50	29.78	29.88	3.0	25	7.8	23	32	20	30	06		
07	51	36	44	6	32	39	21	0				0.00	30.03	30.12	15.3	30	15.5	34	30	26	30	07		
08	51	31	41	3	30	36	24	0				0.00	30.27	30.37	4.9	26	5.4	11	28	10	30	08		
09	54	31	43	5	35	39	22	0	BR			0.00	30.23	30.33	2.5	16	4.0	11	15	11	15	09		
10	56	40	48	11	44	46	17	0	RA BR HZ			0.41	29.84	29.94	4.8	23	10.0	45*	31	36*	31	10		
11	48	36	42	5	24	35	23	0				0.00	29.98	30.08	15.7	28	16.1	36	30	29	29	11		
12	50	31	41	4	23	33	24	0				0.00	30.03	30.14	3.2	28	5.8	16	25	13	33	12		
13	45	28	37	1	38	39	28	0	RA BR			0.61	29.97	30.07	4.1	02	5.1	15	31	14	31	13		
14	45	41	43	7	42	43	22	0	RA BR			1.15	29.83	29.93	12.9	03	15.0	38	07	30	06	14		
15	45	37	41	5	42	42	24	0	BR			0.00	29.95	30.05	2.6	14	7.2	16	16	14	17	15		
16	49	34	42	6	31	39	23	0	BR			0.00	29.88	29.98	8.3	26	9.2	32	25	26	25	16		
17	46	30	38	3	20	32	27	0				0.00	30.08	30.18	7.1	23	7.6	24	24	18	22	17		
18	46	30	38	3	27	34	27	0				0.00	30.17	30.27	5.6	04	6.8	16	05	14	05	18		
19	45	35	40	5	29	35	25	0				0.00	30.27	30.37	13.3	04	13.7	25	03	21	03	19		
20	52	38	45	11	42	43	20	0	RA FG+ BR			0.25	30.02	30.12	8.7	03	11.2	26	05	22	05	20		
21	46	34	40	6	24	34	25	0	RA HZ			0.01	30.05	30.15	8.5	29	9.1	26	29	22	30	21		
22	40	27	34	0	17	28	31	0	RA SN UP			0.01	30.16	30.26	7.7	30	8.0	20	30	17	31	22		
23	43	22	33	-1	20	29	32	0				0.00	30.12	30.22	6.6	26	9.1	26	30	24	31	23		
24	30	17	24	-9	8	20	41	0				0.00	30.13	30.23	9.4	31	9.5	20	31	16	30	24		
25	30	16*	23*	-10	10	20	42	0				0.00	30.22	30.32	6.8	28	8.4	21	28	18	28	25		
26	37	22	30	-3	17	26	35	0				0.00	29.71	29.81	8.0	23	10.3	25	30	22	30	26		
27	38	28	33	0	15	27	32	0				0.00	29.73	29.83	10.9	27	11.3	28	28	23	28	27		
28	32	22	27	-6	16	25	38	0	SN			T	29.65	29.75	5.4	25	6.8	20	31	16	29	28		
29	38	26	32	0	18	27	33	0				0.00	29.73	29.83	9.2	26	11.8	26	28	22	28	29		
30	51	32	42	10	28	36	23	0				0.00	29.77	29.87	4.9	22	6.5	21	22	16	22	30		
31	49	31	40	8	33	38	25	0	BR			0.00	29.97	30.07	2.2	03	3.5	15	04	13	04	31		

46.7	30.8	38.8	■ ■	27.0	34.7	26.0	0.0	< MONTHLY AVERAGES	TOTALS-->	2.94	30.01	30.11	3.9	29	8.7	<-- MONTHLY AVERAGES					
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2.8	3.2	3.0	■ ■	<----- DEPARTURE FROM NORMAL ----->						- .54	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 1.47 DATE: 13-14				SEA LEVEL PRESSURE DATE TIME											
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: DATE: DATE:				MAXIMUM MINIMUM : 30.47 01 0151 : 29.62 29 0051							
HEATING: 807 -98				1646 -143				NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0 MINIMUM TEMP ≤ 32: 19				PRECIPITATION ≥ 0.01 INCH : 7			
COOLING: 0 0				1209 163								MAXIMUM TEMP ≤ 32 : 3 MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 5			
												THUNDERSTORMS : 0 HEAVY FOG : 1				SNOWFALL ≥ 1.0 INCH :			

DECEMBER 1999 WILMINGTON, DE

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## WILMINGTON, DE

DECEMBER 1999

ILG

WBAN # 13781

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04						T	T	T	T				04												04		T		
05													05												05		0.00		
06				0.02	T	0.05	0.09	0.03	0.02	0.06	0.04	0.01	06	T	0.16	0.02				T	T			06		0.50			
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10	0.18	0.15	0.03	T	0.05	T			T		10		0.41			
11													11												11		0.00		
12													12												12		0.00		
13													13	0.09	0.15	0.01	0.01	0.02	0.05	0.03	0.06	0.04	0.04	0.03	0.07	13	0.60	0.61	
14	0.01					0.02	0.11	0.17	0.24	0.08	0.05	0.04	14	0.02	0.23		0.01	T				0.02	0.01		14	1.01	1.15		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20	T		T	T	T	T	0.02	T	0.01	T	0.01	0.01	20	0.02	0.01	0.03	0.02	0.10	T	T	T	0.02		T	T	0.25			
21													21				T	0.01	T	T					21		0.01		
22	T	0.01	T	T	T	T	T						22												22		0.01		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28	T	T		
29													29												29		0.00		
30													30												30		0.00		
31													31												31		0.00		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

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 : 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.



# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

DECEMBER 1999

ILG

WBAN # 13781

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)				
	SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL			
			SUNRISE: 0704	DEC 01		SUNSET: 1639									SUNRISE: 0709	DEC 07		SUNSET: 1638								
01	CLR	NC	10.00		27	15	23	61	13	32	30.36	30.47	01	OVC	080		10.00		49	39	44	69	17	31	29.80	29.89
04	CLR	NC	10.00		24	11	20	57	12	32	30.35	30.45	04	CLR	NC		10.00		45	33	40	63	17	30	29.86	29.95
07	CLR	NC	10.00		23	7	19	50	12	34	30.34	30.45	07	CLR	NC		10.00		43	34	39	71	15	29	29.95	30.04
10	CLR	NC	10.00		29	3	22	33	21	33	30.31	30.41	10	SCT	NC		10.00		47	32	41	56	16	31	30.02	30.12
13	CLR	NC	10.00		36	2	27	23	18	35	30.23	30.33	13	FEW	NC		10.00		50	34	43	54	21	32	30.03	30.13
16	CLR	NC	10.00		35	3	26	26	18	35	30.23	30.33	16	CLR	NC		10.00		49	29	41	46	14	30	30.07	30.17
19	CLR	NC	10.00		30	6	23	36	10	32	30.26	30.36	19	CLR	NC		10.00		41	30	37	65	10	28	30.15	30.25
22	CLR	NC	10.00		28	10	23	47	8	32	30.24	30.34	22	CLR	NC		10.00		37	30	34	76	9	29	30.19	30.29
			SUNRISE: 0705	DEC 02		SUNSET: 1639									SUNRISE: 0710	DEC 08		SUNSET: 1638								
01	CLR	NC	10.00		27	12	23	53	9	32	30.22	30.32	01	CLR	NC		10.00		34	28	32	79	8	29	30.21	30.31
04	CLR	NC	10.00		28	14	24	56	10	32	30.22	30.32	04	CLR	NC		10.00		34	27	31	76	5	25	30.24	30.34
07	CLR	NC	10.00		26	16	23	66	9	31	30.24	30.35	07	CLR	NC		10.00		31	27	29	85	6	24	30.28	30.38
10	CLR	NC	10.00		38	18	31	44	13	31	30.25	30.35	10	CLR	NC		10.00		40	29	36	65	7	30	30.32	30.42
13	CLR	NC	10.00		46	17	36	31	12	27	30.18	30.28	13	CLR	NC		10.00		50	30	42	46	7	29	30.27	30.37
16	CLR	NC	10.00		45	18	35	34	13	28	30.14	30.24	16	CLR	NC		10.00		50	31	42	48	6	25	30.25	30.35
19	CLR	NC	10.00		39	16	31	39	3	22	30.16	30.26	19	CLR	NC		10.00		42	31	38	65	7	25	30.28	30.38
22	CLR	NC	10.00		34	22	30	61	0	00	30.14	30.24	22	CLR	NC		10.00		38	32	36	79	3	26	30.31	30.41
			SUNRISE: 0706	DEC 03		SUNSET: 1639									SUNRISE: 0711	DEC 09		SUNSET: 1638								
01	CLR	NC	10.00		33	23	30	67	5	20	30.11	30.22	01	CLR	NC		9.00		35	31	33	85	6	27	30.29	30.38
04	CLR	NC	9.00		28	24	27	85	0	00	30.11	30.21	04	CLR	NC		8.00		34	30	32	85	0	00	30.29	30.38
07	CLR	NC	10.00		29	24	27	82	0	00	30.14	30.24	07	CLR	NC		8.00		33	30	32	89	3	28	30.28	30.39
10	CLR	NC	10.00		40	28	35	63	3	21	30.15	30.25	10	CLR	NC		8.00		44	34	40	68	0	00	30.31	30.41
13	CLR	NC	10.00		56	30	45	37	5	23	30.09	30.19	13	CLR	NC		10.00		53	37	46	55	6	13	30.24	30.34
16	CLR	NC	10.00		53	26	42	35	8	21	30.10	30.20	16	CLR	NC		10.00		51	34	43	52	8	15	30.18	30.28
19	CLR	NC	10.00		49	30	41	48	3	22	30.13	30.23	19	CLR	NC		9.00		44	40	42	85	6	13	30.18	30.28
22	CLR	NC	10.00		48	30	40	50	0	00	30.10	30.19	22	OVC	110		9.00		44	40	42	85	3	13	30.13	30.23
			SUNRISE: 0707	DEC 04		SUNSET: 1638									SUNRISE: 0712	DEC 10		SUNSET: 1638								
01	CLR	NC	10.00		42	31	38	65	5	18	30.06	30.16	01	BKN	100		8.00		43	40	42	89	5	08	30.07	30.16
04	CLR	NC	10.00		40	33	37	77	0	00	30.02	30.11	04	BKN	090		5.00 BR		41	40	41	96	5	08	30.00	30.10
07	OVC	075	10.00		42	37	40	82	0	00	30.05	30.15	07	BKN	065		5.00 BR		44	41	43	89	5	13	29.93	30.03
10	CLR	NC	10.00		51	39	45	64	5	24	30.08	30.18	10	OVC	037		6.00 HZ		52	47	49	83	10	18	29.85	29.95
13	CLR	NC	10.00		65	46	55	51	18	27	30.04	30.14	13	OVC	016		2.50 RA BR		53	52	52	96	10	18	29.76	29.86
16	OVC	060	10.00		63	45	54	52	10	27	30.06	30.16	16	OVC	012		8.00		54	53	53	97	8	20	29.67	29.76
19	OVC	055	10.00		60	46	53	60	0	00	30.11	30.21	19	OVC	007		6.00 BR		54	53	53	97	10	24	29.68	29.78
22	CLR	NC	10.00		51	45	48	80	6	25	30.13	30.23	22	SCT	NC		10.00		45	33	40	63	17	31	29.83	29.93
			SUNRISE: 0708	DEC 05		SUNSET: 1638									SUNRISE: 0713	DEC 11		SUNSET: 1638								
01	CLR	NC	8.00		48	45	47	89	0	00	30.11	30.21	01	CLR	NC		10.00		40	24	34	53	20	29	29.88	29.98
04	CLR	NC	2.50 BR		44	40	42	85	0	00	30.10	30.20	04	CLR	NC		10.00		40	25	34	55	16	29	29.93	30.03
07	CLR	NC	2.00 HZ		41	30	37	65	0	00	30.10	30.20	07	CLR	NC		10.00		38	25	33	60	16	28	29.99	30.09
10	CLR	NC	5.00 HZ		53	29	43	40	7	15	30.08	30.18	10	CLR	NC		10.00		43	25	36	49	17	28	30.02	30.11
13	CLR	NC	10.00		62	27	47	26	13	15	29.98	30.08	13	CLR	NC		10.00		47	24	38	41	24	28	29.97	30.06
16	CLR	NC	10.00		59	26	45	28	7	16	29.93	30.03	16	CLR	NC		10.00		46	23	37	40	16	30	29.98	30.08
19	CLR	NC	10.00		52	26	41	37	9	16	29.91	30.01	19	CLR	NC		10.00		42	23	35	47	12	26	30.02	30.12
22	CLR	NC	10.00		49	26	40	41	8	15	29.90	30.00	22	CLR	NC		10.00		37	24	32	60	8	24	30.01	30.11
			SUNRISE: 0709	DEC 06		SUNSET: 1638									SUNRISE: 0714	DEC 12		SUNSET: 1639								
01	SCT	NC	10.00		50	23	39	35	6	16	29.86	29.96	01	CLR	NC		10.00		35	24	31	64	6	27	29.99	30.09
04	OVC	044	8.00	-RA	58	53	55	84	10	19	29.81	29.91	04	CLR	NC		10.00		34	23	30	64	12	28	30.01	30.11
07	OVC	049	7.00	-RA	57	56	56	96	9	18	29.79	29.89	07	CLR	NC		10.00		33	21	29	61	10	30	30.06	30.16
10	OVC	006	3.00	-RA BR	57	57	57	100	6	17	29.77	29.87	10	CLR	NC		10.00		40	22	33	49	8	28	30.11	30.22
13	OVC	041	9.00	-RA	57	54	55	90	0	00	29.75	29.85	13	CLR	NC		10.00		48	18	37	30	6	28	30.04	30.14
16	OVC	049	8.00		56	54	55	93	3	03	29.73	29.83	16	CLR	NC		10.00		49	23	39	36	0	00	30.01	30.11
19	OVC	047	10.00	-RA	54	48	51	80	7	32	29.77	29.87	19	CLR	NC		10.00</									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

DECEMBER 1999

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		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		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT
SUNRISE: 0714								DEC 13	SUNSET: 1639								SUNRISE: 0718								DEC 19	SUNSET: 1641							
01	CLR	NC				10.00		31	27	29	85	5	03	30.02	30.12	01	CLR	NC					10.00		38	28	34	68	10	02	30.24	30.34	
04	CLR	NC				10.00		29	26	28	89	5	36	30.00	30.10	04	BKN	038				10.00		36	26	32	67	13	01	30.25	30.35		
07	OVC	027				10.00		39	33	37	79	5	07	29.99	30.09	07	SCT	NC				10.00		35	26	32	70	15	04	30.27	30.37		
10	OVC	023				10.00		43	35	40	74	5	11	30.00	30.10	10	OVC	038				10.00		37	25	33	62	14	03	30.32	30.42		
13	OVC	021				2.00	RA BR	43	43	43	100	5	32	29.95	30.05	13	CLR	NC				10.00		43	28	37	56	13	05	30.27	30.36		
16	OVC	005				1.50	-RA BR	44	44	44	100	3	04	29.93	30.03	16	FEW	NC				10.00		44	32	39	63	10	09	30.26	30.36		
19	OVC	005				2.50	-RA BR	44	44	44	100	8	02	29.93	30.03	19	OVC	030				10.00		41	32	37	70	12	05	30.29	30.39		
22	OVC	021				4.00	-RA BR	42	42	42	100	8	35	29.96	30.05	22	BKN	080				10.00		39	29	35	67	12	04	30.27	30.37		
SUNRISE: 0715								DEC 14	SUNSET: 1639								SUNRISE: 0719								DEC 20	SUNSET: 1641							
01	OVC	007				9.00		42	42	42	100	9	03	29.93	30.03	01	OVC	060				10.00		39	30	35	70	12	03	30.25	30.35		
04	OVC	021				9.00		43	41	42	93	15	03	29.91	30.01	04	OVC	055				10.00	-RA	38	33	36	83	10	03	30.20	30.30		
07	OVC	011				5.00	RA BR	42	41	42	96	20	04	29.90	30.00	07	OVC	044				6.00	-RA BR	39	37	38	93	16	03	30.16	30.26		
10	OVC	007				5.00	RA BR	42	41	42	96	23	06	29.82	29.92	10	OVC	009				4.00	-RA BR	41	40	41	96	18	05	30.11	30.22		
13	OVC	009				6.00	RA BR	43	42	43	97	23	06	29.69	29.79	13	OVC	004				1.25	-RA BR	45	44	45	97	16	04	29.99	30.09		
16	OVC	007				10.00	-RA	44	43	44	96	13	34	29.76	29.86	16	OVC	002				1.25	-RA BR	50	50	50	100	10	05	29.89	29.98		
19	OVC	007				10.00		45	43	44	93	14	02	29.78	29.88	19	VV	001				0.25	FG	51	51	51	100	5	36	29.83	29.93		
22	OVC	007				5.00	-RA BR	44	44	44	100	9	30	29.85	29.95	22	OVC	014				10.00		44	43	44	96	8	31	29.88	29.98		
SUNRISE: 0716								DEC 15	SUNSET: 1639								SUNRISE: 0719								DEC 21	SUNSET: 1641							
01	OVC	015				9.00		43	42	43	97	9	32	29.89	29.99	01	OVC	049				7.00		45	44	45	97	3	25	29.89	29.99		
04	CLR	NC				10.00		40	39	40	97	7	33	29.95	30.04	04	OVC	055				8.00		46	40	43	79	7	26	29.97	30.07		
07	OVC	050				7.00		40	39	40	97	5	23	29.99	30.09	07	CLR	NC				5.00	HZ	40	31	36	70	6	25	30.01	30.11		
10	OVC	006				8.00		44	42	43	93	8	07	30.02	30.12	10	CLR	NC				10.00		39	25	34	57	15	31	30.08	30.18		
13	OVC	004				4.00	BR	44	44	44	100	8	14	29.99	30.09	13	OVC	048				10.00		40	12	31	32	18	30	30.10	30.19		
16	OVC	002				2.00	BR	43	43	43	100	12	15	29.95	30.05	16	OVC	048				10.00	-RA	37	15	30	41	9	31	30.09	30.19		
19	OVC	002				6.00	BR	44	44	44	100	6	14	29.93	30.02	19	OVC	070				10.00		35	21	30	57	5	27	30.12	30.22		
22	OVC	010				9.00		44	42	43	93	9	16	29.90	30.00	22	OVC	048				10.00		36	18	30	48	7	30	30.13	30.23		
SUNRISE: 0716								DEC 16	SUNSET: 1639								SUNRISE: 0720								DEC 22	SUNSET: 1642							
01	OVC	005				4.00	BR	44	43	44	96	6	13	29.82	29.92	01	OVC	036				10.00		34	18	29	52	10	30	30.09	30.19		
04	OVC	026				3.00	BR	45	44	45	97	0	00	29.81	29.91	04	OVC	036				9.00	-SN	33	23	30	67	9	31	30.10	30.21		
07	OVC	075				4.00	BR	43	42	43	97	6	24	29.84	29.94	07	OVC	040				10.00		32	23	29	69	8	32	30.14	30.24		
10	FEW	NC				10.00		46	33	40	61	9	25	29.88	29.97	10	OVC	060				10.00		34	19	29	54	9	29	30.17	30.27		
13	FEW	NC				10.00		49	26	40	41	14	27	29.83	29.92	13	CLR	NC				10.00		39	13	30	34	13	30	30.15	30.24		
16	BKN	075				10.00		46	24	37	42	8	25	29.83	29.93	16	CLR	NC				10.00		37	10	29	33	12	30	30.16	30.26		
19	CLR	NC				10.00		42	20	34	41	13	26	29.95	30.05	19	CLR	NC				10.00		33	9	26	36	5	25	30.21	30.31		
22	CLR	NC				10.00		37	22	32	54	6	25	29.99	30.09	22	CLR	NC				10.00		29	15	25	56	0	00	30.23	30.33		
SUNRISE: 0717								DEC 17	SUNSET: 1640								SUNRISE: 0720								DEC 23	SUNSET: 1642							
01	CLR	NC				10.00		34	22	30	61	5	22	30.00	30.09	01	CLR	NC				10.00		26	19	24	75	6	31	30.22	30.32		
04	CLR	NC				10.00		33	20	29	59	6	23	30.05	30.15	04	CLR	NC				10.00		25	14	22	63	5	28	30.22	30.32		
07	CLR	NC				10.00		32	20	28	61	7	22	30.08	30.18	07	CLR	NC				10.00		23	16	21	74	5	31	30.21	30.31		
10	CLR	NC				10.00		40	18	32	41	15	25	30.13	30.23	10	CLR	NC				10.00		35	18	29	50	6	19	30.18	30.28		
13	CLR	NC				10.00		45	16	35	31	16	22	30.08	30.18	13	CLR	NC				10.00		40	25	34	55	12	23	30.06	30.16		
16	CLR	NC				10.00		45	19	35	35	10	22	30.07	30.17	16	OVC	065				10.00		41	29	36	62	8	22	30.00	30.10		
19	CLR	NC				10.00		40	20	33	45	0	00	30.10	30.20	19	SCT	NC				10.00		38	25	33	60	12	27	30.02	30.12		
22	OVC	110				10.00		36	26	32	67	5	36	30.09	30.19	22	CLR	NC				10.00		32	18	27	56	12	30	30.06	30.16		
SUNRISE: 0718								DEC 18	SUNSET: 1640								SUNRISE: 0721								DEC 24	SUNSET: 1643							
01	OVC	100				10.00		35	28	32	76	0	00	30.07	30.17	01	CLR	NC				10.00		27	14	23	58	9	31	30.09	30.19		
04	BKN	090				10.00		32	28	31	85	6	31	30.10	30.20	04	CLR	NC				10.00		24	9	20	52	10	30	30.10	30.20		
07	CLR	NC				10.00		33	24	30	70	5	34	30.15	30.25	07	CLR	NC				10.00		22	9	18	57	6	32	30.12	30.22		
10	CLR	NC				10.00		42	24	35	49	13	05	30.20	30.31	10	CLR	NC				10.00		26	7	21	44	14	30	30.15	30.25		
13	CLR	NC				10.00		46	26	38	46	9	08	30.17	30.27	13	CLR	NC				10.00		29	8	23	41	12	31	30.08	30.18		
16	CLR	NC				10.00		44	27	37	51	8	05	30.18	30.28	16	CLR	NC				10.00		28	4	22	35	13	31	30.07	30.17		
19	CLR	NC				10.00		38	27	34	65	6	05	30.20	30.30	19	FEW	NC				10.00		24	7	20	48	10	32	30.16	30.27		
22	FEW	NC				10.00		37	27	33	67	7	07	30.25	30.35	22	CLR	NC				10.00		19	8	16	62	6	31	30.21	30.32		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

DECEMBER 1999

ILG

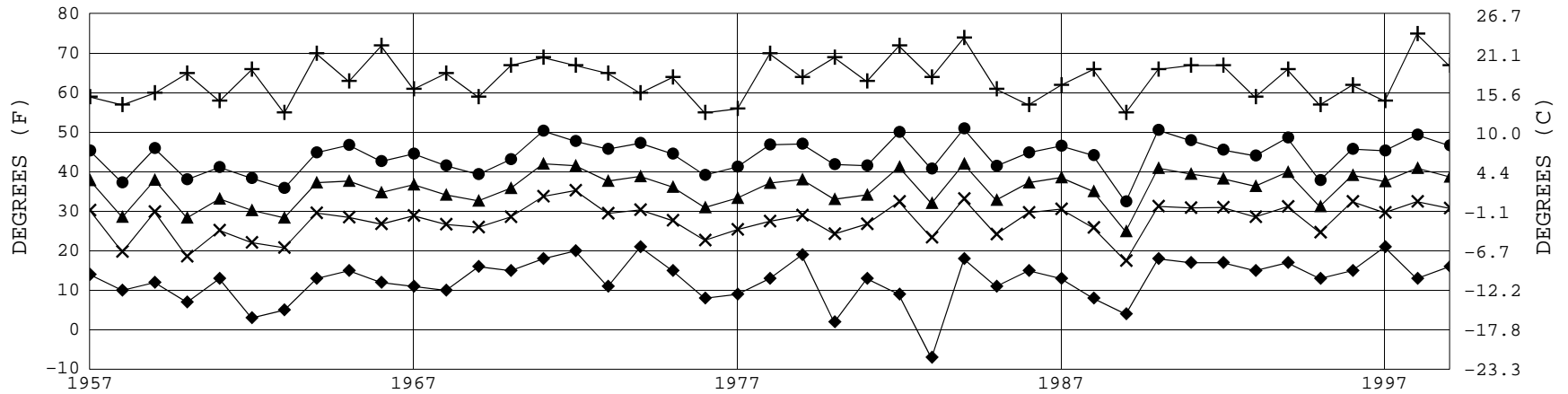
WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	DRY BULB	DEW POINT		WET BULB	DRY BULB					DEW POINT	WET BULB	SPEED (MPH)		DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB		DEW POINT	WET BULB		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		17	7	15	64	7	29	30.23	30.34	01	OVC	070						10.00		41	31	37	67	0	00	29.85	29.95		
04	CLR	NC						10.00		18	7	15	62	7	26	30.25	30.35	04	FEW	NC					9.00		39	32	36	76	0	00	29.86	29.96			
07	CLR	NC						10.00		18	8	15	65	7	30	30.28	30.38	07	OVC	060					10.00		41	33	38	74	7	03	29.90	30.00			
10	CLR	NC						10.00		24	10	20	55	10	34	30.32	30.42	10	OVC	050					10.00		42	34	39	73	8	01	29.97	30.06			
13	CLR	NC						10.00		29	10	23	45	17	29	30.25	30.35	13	OVC	042					10.00		46	34	41	63	5	34	29.95	30.05			
16	CLR	NC						10.00		29	11	24	47	14	28	30.22	30.32	16	CLR	NC					9.00		47	34	41	61	5	10	29.97	30.06			
19	CLR	NC						10.00		25	13	21	60	3	22	30.19	30.29	19	CLR	NC					8.00		40	34	37	79	3	15	30.06	30.16			
22	CLR	NC						10.00		25	14	22	63	6	21	30.12	30.22	22	CLR	NC					6.00	BR	35	32	34	89	3	18	30.10	30.20			
SUNRISE: 0722									DEC 26	SUNSET: 1644									<b>3-HOURLY OBSERVATION NOTES</b>																		
01	CLR	NC						10.00		22	14	20	71	7	18	30.03	30.13	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.																			
04	CLR	NC						10.00		24	14	21	65	12	19	29.90	30.00	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																			
07	CLR	NC						10.00		25	16	22	69	9	19	29.79	29.89	NC = No ceiling detected.																			
10	CLR	NC						10.00		31	18	27	59	14	19	29.67	29.77	& = Original observation contained additional weather elements.																			
13	CLR	NC						10.00		35	19	30	52	15	27	29.58	29.68	See page 3 for additional notes.																			
16	CLR	NC						10.00		35	17	29	48	6	26	29.58	29.68																				
19	OVC	070						10.00		33	20	29	59	8	25	29.63	29.73																				
22	OVC	037						10.00		35	24	31	64	14	29	29.65	29.75																				
SUNRISE: 0722									DEC 27	SUNSET: 1645																											
01	OVC	050						10.00		33	16	27	49	9	29	29.69	29.79																				
04	SCT	NC						10.00		31	14	26	49	12	28	29.67	29.78																				
07	OVC	049						10.00		31	17	26	56	7	24	29.73	29.83																				
10	SCT	NC						10.00		35	16	29	46	18	26	29.77	29.87																				
13	SCT	NC						10.00		35	15	28	44	14	27	29.71	29.81																				
16	FEW	NC						10.00		34	15	28	46	12	29	29.71	29.81																				
19	BKN	100						10.00		33	15	27	48	6	24	29.74	29.84																				
22	SCT	NC						10.00		32	16	27	52	16	28	29.76	29.86																				
SUNRISE: 0722									DEC 28	SUNSET: 1646																											
01	OVC	095						10.00		30	15	25	54	9	28	29.76	29.86																				
04	FEW	NC						10.00		26	16	23	66	7	28	29.75	29.85																				
07	CLR	NC						10.00		25	15	22	66	0	00	29.77	29.87																				
10	CLR	NC						10.00		29	15	25	56	7	26	29.77	29.87																				
13	FEW	NC						10.00		31	12	25	45	7	VR	29.62	29.72																				
16	CLR	NC						10.00		31	13	25	47	10	23	29.55	29.65																				
19	SCT	NC						10.00		29	15	25	56	5	22	29.54	29.64																				
22	OVC	110						10.00		29	20	26	69	7	24	29.53	29.63																				
SUNRISE: 0723									DEC 29	SUNSET: 1646																											
01	OVC	080						10.00		29	24	27	82	5	22	29.52	29.62																				
04	OVC	075						10.00		29	17	25	61	13	27	29.57	29.67																				
07	CLR	NC						10.00		27	16	24	63	12	25	29.66	29.76																				
10	CLR	NC						10.00		32	17	27	54	17	29	29.76	29.86																				
13	FEW	NC						10.00		36	15	29	42	17	27	29.78	29.88																				
16	CLR	NC						10.00		36	16	29	44	9	23	29.81	29.91																				
19	CLR	NC						10.00		32	17	27	54	5	19	29.84	29.94																				
22	CLR	NC						10.00		31	19	27	61	7	19	29.80	29.90																				
SUNRISE: 0723									DEC 30	SUNSET: 1647																											
01	BKN	100						10.00		36	22	31	57	12	21	29.74	29.84																				
04	CLR	NC						10.00		34	25	31	70	5	22	29.70	29.80																				
07	CLR	NC						10.00		35	26	32	70	8	21	29.72	29.82																				
10	CLR	NC						10.00		43	27	37	53	13	23	29.76	29.86																				
13	CLR	NC						10.00		51	27	41	39	7	25	29.74	29.84																				
16	CLR	NC						10.00		50	29	41	44	3	27	29.77	29.86																				
19	CLR	NC						10.00		43	30	38	60	0	00	29.83	29.93																				
22	CLR	NC						10.00		40	30	36	68	5	35	29.87	29.96																				

## SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			36	26	33	71	30.01	30.11	9.48	7	4	30
02			36	27	33	72	30.01	30.11	9.55	8	4	29
03			35	27	32	71	30.01	30.11	9.42	8	5	29
04			35	26	32	73	30.01	30.11	9.05	8	5	30
05			34	26	32	74	30.01	30.11	8.97	8	4	30
06			35	27	32	75	30.02	30.12	8.70	7	3	30
07			34	26	32	74	30.03	30.13	8.68	8	3	30
08			35	27	32	73	30.03	30.13	8.35	8	2	30
09			37	27	34	68	30.04	30.14	8.74	9	4	30
10			40	27	35	61	30.04	30.14	9.00	11	4	30
11			42	26	37	55	30.03	30.13	9.16	13	6	30
12			44	26	37	53	30.01	30.11	9.41	12	6	30
13			45	27	38	53	29.99	30.08	8.86	12	6	29
14			45	27	38	53	29.97	30.07	8.46	11	4	28
15			45	27	38	52	29.97	30.07	8.84	11	6	28
16			44	27	38	54	29.97	30.07	9.02	9	4	28
17			42	28	37	59	29.98	30.08	8.99	8	3	28
18			41	28	36	61	29.99	30.09	9.09	7	2	26
19			41	28	36	63	30.00	30.10	9.09	7	2	27
20			40	28	36	65	30.00	30.10	9.04	7	3	27
21			38	27	34	66	30.01	30.11	9.39	8	4	28
22			38	27	34	68	30.01	30.11	9.45	7	4	29
23			37	27	33	69	30.02	30.11	9.26	7	4	29
24			37	27	33	69	30.01	30.11	9.10	8	3	28

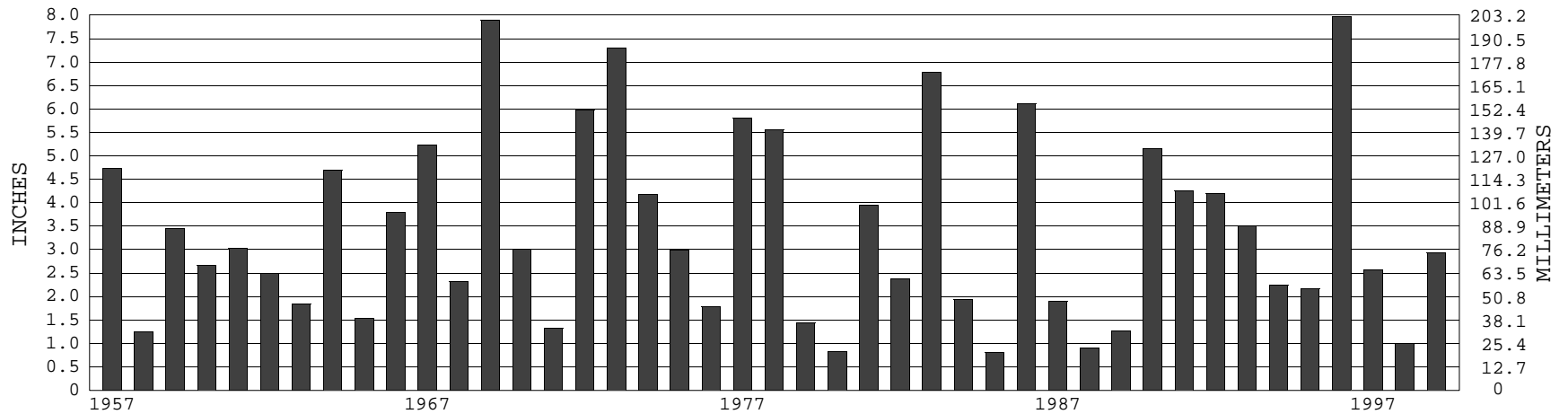
### WILMINGTON, DE DECEMBER TEMPERATURES



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

Long-Term (1957-1999) Mean: 35.9      1961-1990 Normal: 35.8

### WILMINGTON, DE DECEMBER PRECIPITATION



Long-Term (1957-1999) Mean Monthly Total: 3.43

1961-1990 Normal: 3.48



**DECEMBER 1999  
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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