

JAN 1993  
 WILMINGTON, DE  
 NAT'L WEA SER OFC  
 AIRPORT TERMINAL BLDG

ISSN 0198-117X

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary



GREATER WILMINGTON AIRPORT

LATITUDE 39° 40' N LONGITUDE 75° 36' W ELEVATION (GROUND) 74 FEET. TIME ZONE EASTERN 13781

JAN 1993  
 WILMINGTON, DE

DATE	TEMPERATURE °F						DEGREE DAYS BASE 65°F		WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 80 FEET ABOVE M.S.L.	WIND (M.P.H.)					SUNSHINE		SKY COVER (TENTHS)														
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)	WATER EQUIVALENT (INCHES)			SNOW, ICE PELLETS (INCHES)	RESULTANT DIR.		RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	DIRECTION	FATEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT													
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23												
01	59	29	44	12	26	21	0		0	0.00	0.0	30.140	32	17.4	17.8	40	NW	23	32			7	6												
02	38	22	30	-2	21	35	0		0	0.00	0.0	30.480	32	5.8	6.8	21	N	16	35			7	5												
03	41	28	35	3	30	30	0	1	0	0.02	0.0	30.490	14	2.7	3.2	12	SE	7	16			10	10												
04	66*	40	53*	22	45	12	0	1	0	0.00	0.0	30.170	19	9.9	10.5	30	SW	21	21			6	6												
05	64	40	52	21	47	13	0	2	0	1.32	0.0	29.900	27	8.6	14.5	35	S	23	32			7	8												
06	48	35	42	11	32	23	0		0	0.00	0.0	30.160	34	3.8	4.3	15	N	12	31			5	8												
07	46	36	41	10	33	24	0	1	8	0.00	0.0	30.110	14	0.9	2.6	12	E	6	12			10	10												
08	43	40	42	11	37	23	0	1		0.17	0.0	29.985	04	7.1	7.6	18	NE	15	03			10	10												
09	40	29	35	4	27	30	0	1	4	0.17	0.9	30.230	04	14.3	14.4	23	NE	17	04			10	10												
10	29	26	28*	-3	19	37	0	1		0.03	0.5	30.455	05	12.3	12.6	22	NE	16	05			10	10												
11	34	28	31	0	29	34	0	1	6	0.08	0.0	30.380	04	7.1	7.2	15	NE	12	03			10	10												
12	43	34	39	8	38	26	0	1		0.15	0.0	30.190	06	7.7	7.8	14	E	10	05			10	10												
13	47	38	43	13	42	22	0	2		0.16	0.0	29.830	03	2.3	6.9	18	NW	14	30			10	9												
14	42	36	39	9	29	26	0	0		0.00	0.0	30.060	31	8.4	9.0	22	NW	17	31			8	8												
15	41	31	36	6	28	29	0	0		0.00	0.0	30.100	25	3.9	4.7	16	SW	12	23			10	9												
16	41	29	35	5	27	30	0	0		0.00	0.0	29.930	36	4.6	5.2	14	NE	12	03			10	9												
17	43	29	36	6	28	29	0	0	8	0.00	0.0	29.765	26	7.0	8.4	30	NW	14	24			10	9												
18	39	28	34	4	14	31	0	0		0.00	0.0	30.240	33	10.4	10.9	32	NW	21	31			4	5												
19	38	22	30	0	13	35	0	0		0.00	0.0	30.540	33	6.7	7.7	20	N	13	32			0	2												
20	46	22	34	4	19	31	0	0		0.00	0.0	30.500	28	6.2	6.7	16	NW	12	30			0	0												
21	45	22	34	4	32	31	0	1		0.14	0.0	30.370	09	4.7	6.2	14	E	10	10			10	8												
22	51	40	46	16	44	19	0	2		0.27	0.0	29.880	24	4.8	8.9	29	SE	18	15			10	10												
23	48	36	42	12	37	23	0	0		0.0	0.0	30.040	30	8.1	10.3	30	NW	20	31			8	7												
24	58	34	46	16	42	19	0	1		0.13	0.0	29.840	22	8.4	12.0	37	NW	23	28			9	6												
25	42	25	34	4	20	31	0	0		0.00	0.0	30.210	31	12.0	12.3	33	NW	23	31			2	2												
26	36	23	30	0	22	35	0	0		0.00	0.0	30.290	02	3.9	6.4	20	N	15	35			9	6												
27	43	24	34	4	25	31	0	0		0.00	0.0	29.880	33	10.7	11.5	30	NW	23	34			1	2												
28	41	27	34	3	28	31	0	0		0.00	0.0	29.960	23	3.1	7.3	18	S	12	17			9	5												
29	42	23	33	2	20	32	0	1		0.0	0.0	29.990	32	15.6	16.1	49	NW	26	33			4	4												
30	46	20*	33	2	16	32	0	0		0.00	0.0	30.040	26	9.7	11.4	29	SW	21	25			4	4												
31	58	35	47	16	24	18	0	0		0.00	0.0	29.510	26	10.7	12.7	36	SW	21	28			8	8												
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL			TOTAL	TOTAL	FOR THE MONTH:					TOTAL	%	SUM	SUM															
1398	931					843	0			2.64	1.4	30.120	32	3.9	9.2	49	NW	26	33			FOR	228	216											
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.				PRECIPITATION	DEP.					DATE: 29	DATE: 29	POSSIBLE	MONTH	AVG.	AVG.														
45.1	30.0	37.6	7.0	28.8	-223	0				11	-0.39											7.4	7.0												
NUMBER OF DAYS						SEASON TO DATE	TOTAL			GREATEST IN 24 HOURS AND DATES					GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE																				
MAXIMUM TEMP.						MINIMUM TEMP.		2608		THUNDERSTORMS		0	PRECIPITATION		SNOW, ICE PELLETS																				
> 90°						< 32°		< 32°	< 0°	DEP.		DEP.	HEAVY FOG		3			1.32			05			0.9			09			1			11+		
0						1		19		0		-247		0		CLEAR		4			PARTLY CLOUDY			8			CLOUDY			19					

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 † TRACE AMOUNT.  
 + ALSO ON EARLIER DATE(S).  
 HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.  
 BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. COLS 16 & 17: PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED. ONE OF TWO WIND SPEEDS IS GIVEN UNDER COLS 18 & 19: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). ERRORS WILL BE CORRECTED IN SUBSEQUENT PUBLICATIONS.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

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 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1993  
WILMINGTON, DE

13781

HOUR L.S.T.	SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE				WIND			SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE				WIND			SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE				WIND																																																																																									
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	AIR OF		WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF		WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																																																		
JAN 1st																														JAN 2nd																														JAN 3rd																																																												
01	10	130	15		56	52	49	78	33	14	9	43	20		29	24	13	51	01	6	9	120	12		29	27	23	78	00	0	JAN 4th																														JAN 5th																														JAN 6th																													
04	9	30	15		49	44	38	66	33	15	0	UNL	20		25	22	12	58	25	5	10	110	15		31	29	25	79	11	4	JAN 7th																														JAN 8th																														JAN 9th																													
07	10	140	20		44	38	29	56	31	13	1	UNL	20		23	20	11	60	26	4	10	110	15		32	29	24	72	00	0	JAN 10th																														JAN 11th																														JAN 12th																													
10	9	180	20		43	36	24	47	32	14	9	UNL	20		32	28	20	61	02	12	10	120	15		35	32	27	73	07	3	JAN 13th																														JAN 14th																														JAN 15th																													
13	2	UNL	20		44	36	22	42	31	18	8	UNL	20		38	32	22	53	31	6	10	65	15		37	35	33	86	14	4	JAN 16th																														JAN 17th																														JAN 18th																													
16	8	200	20		39	32	19	45	30	16	10	UNL	20		37	34	28	70	31	8	10	50	15		38	36	32	79	15	5	JAN 19th																														JAN 20th																														JAN 21st																													
19	1	UNL	15		33	29	21	61	31	12	4	UNL	15		31	28	23	72	32	4	10	60	10		40	38	36	86	19	4	JAN 22nd																														JAN 23rd																														JAN 24th																													
22	6	44	15		32	28	21	64	32	12	3	UNL	15		28	27	25	89	34	4	10	18	8		40	39	38	93	20	4	JAN 25th																														JAN 26th																														JAN 27th																													

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.16	0.21	0.23	0.25	0.30	0.39	0.47	0.55	0.60	0.64	0.68	0.81
ENDED: DATE	05	05	05	05	05	05	05	05	05	05	05	05
ENDED: TIME	0709	0709	0709	0423	0431	0423	0437	0455	0510	0510	0528	0709

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

### OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1993  
WILMINGTON, DE 13781

HOUR L.S.T.	JAN 19th						JAN 20th						JAN 21st																			
	VISI-BILITY		TEMPERATURE			WIND		VISI-BILITY		TEMPERATURE			WIND		VISI-BILITY		TEMPERATURE			WIND												
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		
01	10	110	12		30	26	16	56	01	5	0	UNL	15		23	21	15	71	29	3	0	UNL	15		27	25	22	81	31	3		
04	6	UNL	12		27	23	14	58	01	8	0	UNL	12		24	21	15	69	27	5	0	UNL	12		22	21	20	92	36	4		
07	0	UNL	12		22	19	12	65	36	6	0	UNL	12		24	21	15	69	25	4	6	UNL	12		30	28	23	75	07	7		
10	0	UNL	20		30	24	10	43	34	8	0	UNL	20		36	30	18	48	29	7	10	220	10		35	33	30	82	07	6		
13	0	UNL	20		36	28	9	32	31	8	0	UNL	20		44	36	22	42	30	9	10	140	10		41	38	34	76	12	4		
16	0	UNL	20		36	29	13	39	33	9	0	UNL	20		44	36	22	42	30	10	10	33	9		42	39	36	79	20	4		
19	0	UNL	15		30	25	13	49	29	4	0	UNL	15		35	30	22	59	22	3	10	32	4		40	40	40	100	08	5		
22	0	UNL	15		28	24	16	61	28	4	0	UNL	15		28	26	21	75	27	4	10	49	6		42	42	42	100	09	8		
JAN 22nd																																
01	10	4	3		46	46	46	100	12	7	10	40	10		42	42	41	96	27	7	0	UNL	10		35	35	34	96	16	3		
04	10	3	3		47	47	47	100	17	11	10	40	10		42	41	40	93	33	12	0	UNL	7		37	37	37	100	18	8		
07	10	0	0		46	46	46	100	25	3	10	44	15		42	39	36	79	30	11	3	UNL	8		36	36	36	100	16	6		
10	10	10	9		47	46	45	93	29	7	4	UNL	15		44	41	38	80	31	13	10	UNL	12		46	44	41	83	17	9		
13	10	200	10		49	46	42	77	31	7	6	40	15		47	43	38	71	30	14	10	29	15		56	53	50	80	20	15		
16	10	110	12		49	45	41	74	24	4	10	250	15		47	43	38	71	27	9	10	55	15		57	54	52	84	18	10		
19	10	50	10		46	42	38	74	26	10	7	250	12		42	39	36	79	21	5	10	28	6		54	54	54	100	24	9		
22	6	70	10		41	41	40	96	25	5	2	UNL	10		37	35	33	86	20	4	10	110	15		44	40	34	68	28	17		
JAN 23rd																																
JAN 24th																																
JAN 25th																																
JAN 26th																																
JAN 27th																																
JAN 28th																																
JAN 29th																																
JAN 30th																																
JAN 31st																																

### WEATHER CODES

- |                     |                        |                  |
|---------------------|------------------------|------------------|
| * TORNADO           | SW SNOW SHOWERS        | GF GROUND FOG    |
| T THUNDERSTORM      | SG SNOW GRAINS         | BD BLOWING DUST  |
| Q SQUALL            | SP SNOW PELLETS        | BN BLOWING SAND  |
| R RAIN              | IC ICE CRYSTALS        | BS BLOWING SNOW  |
| RW RAIN SHOWERS     | IP ICE PELLETS         | BY BLOWING SPRAY |
| ZR FREEZING RAIN    | IPW ICE PELLET SHOWERS | K SMOKE          |
| L DRIZZLE           | A HAIL                 | H HAZE           |
| ZL FREEZING DRIZZLE | F FOG                  | D DUST           |
| S SNOW              | IF ICE FOG             |                  |

CEILING: UNL INDICATES UNLIMITED  
 WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM.  
 SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.151).

### SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	AVERAGES						RESULTANT WIND		
		STATION PRESSURE (INCHES)		TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
		AIR TEMP OF	NET BULB OF	DEW POINT OF						
01	7	30.120	35	33	28	76	7.2	33	3.3	
04	6	30.110	34	32	28	78	8.2	33	2.9	
07	7	30.130	35	32	28	77	8.5	31	4.0	
10	7	30.155	39	35	28	68	10.5	33	4.4	
13	7	30.100	43	37	30	63	11.5	31	5.5	
16	8	30.090	42	37	30	64	10.6	31	5.3	
19	7	30.120	38	35	30	73	7.8	32	2.9	
22	6	30.120	36	33	28	75	7.8	32	3.5	

