

JAN 1990  
 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 13871

JAN 1990  
 WILMINGTON, DE

DATE	TEMPERATURE °F			DEGREE DAYS BASE 65°F		WEATHER TYPES	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES	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	FASTEST 1-MIN	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MOONRISE TO MIDNIGHT		
01	44	32	38	6	26	27	0	1	0	0.22	0.0	29.790	31	15.6	15.9	41	NW	26	31			5	5		
02	43	26	35	3	21	30	0	0	0	0.00	0.0	30.280	26	6.6	6.9	18	NW	14	28			0	0		
03	47	26	37	5	24	28	0	0	0	0.00	0.0	30.250	19	2.4	3.0	10	S	9	17			4	3		
04	52	27	40	8	38	25	0	1	8	0.01	0.0	29.960	21	5.3	6.3	28	SW	15	22			0	8		
05	47	35	41	9	32	24	0	2	0	0.00	0.0	30.050	30	5.8	6.8	18	NW	14	31			9	9		
06	46	35	41	9	29	24	0	1	0	T	0.0	29.990	31	5.0	6.2	28	NW	16	31			6	6		
07	42	27	35	4	25	30	0	1	0	0.00	0.0	30.050	24	3.2	4.0	21	SW	16	22			6	6		
08	37	31	34	3	31	31	0	1	4	0.76	0.5	29.810	34	2.8	4.9	17	N	13	32			10	10		
09	51	28	40	9	34	25	0	1	8	T	0.00	0.0	29.840	18	6.6	7.5	20	S	14	17			6	6	
10	50	37	44	13	34	21	0	1	8	0.01	0.0	29.630	28	8.6	11.0	39	NW	20	32			9	9		
11	48	33	41	10	30	24	0	0	0	0.00	0.0	29.570	22	6.3	8.2	26	S	16	17			10	8		
12	43	30	37	6	19	28	0	0	0	T	0.00	29.490	28	14.2	14.8	39	N	24	27			7	6		
13	37	25	31*	0	12	34	0	0	0	0.00	0.0	29.990	31	14.4	14.9	38	NW	22	31			1	2		
14	42	22*	32	1	20	33	0	0	0	0.00	0.0	30.300	22	4.6	6.7	15	S	10	18			5	6		
15	43	32	38	7	32	27	0	1	0	T	0.16	30.195	22	1.5	2.5	13	S	8	20			10	8		
16	61	28	45	14	36	20	0	1	8	0.00	0.0	30.235	24	2.9	3.4	12	SW	8	24			5	3		
17	59	33	46	15	40	19	0	1	8	0.00	0.0	30.150	19	3.1	4.3	20	SW	14	22			2	4		
18	65*	44	55*	24	47	10	0	0	0	0.00	0.0	29.920	25	9.2	12.1	33	NW	21	34			10	9		
19	45	32	39	8	21	26	0	0	0	0.00	0.0	30.290	33	6.1	7.6	23	NW	12	31			9	7		
20	39	31	35	4	32	30	0	2	4	T	0.28	30.065	12	4.4	4.9	14	S	9	18			9	10		
21	48	35	42	11	38	23	0	2	0	0.02	0.0	29.695	02	3.7	6.6	21	NW	14	33			9	8		
22	48	30	39	8	33	26	0	2	0	0.00	0.0	29.800	23	4.6	5.7	17	SW	13	24			9	8		
23	49	28	39	8	30	26	0	0	0	0.00	0.0	29.990	18	2.5	6.0	17	SE	14	14			9	7		
24	58	42	50	19	41	15	0	1	8	T	0.0	29.890	20	6.2	6.9	21	S	14	24			10	10		
25	58	45	52	21	49	13	0	23	0	1.31	0.0	29.770	17	7.1	7.7	33	SW	16	17			10	10		
26	58	31	45	14	33	20	0	1	0	0.28	0.2	29.775	30	11.3	13.3	37	NW	18	32			10	9		
27	49	25	37	6	25	28	0	0	0	0.00	0.0	30.220	20	6.3	7.8	20	SW	14	19			7	4		
28	57	30	44	13	26	21	0	0	0	0.00	0.0	30.170	36	3.6	6.8	21	NW	14	04			9	7		
29	52	41	47	16	33	18	0	2	0	0.51	0.0	29.840	09	8.8	11.3	33	NW	26	30			10	10		
30	48	40	44	13	31	21	0	0	0	T	0.0	29.840	30	11.2	11.8	46	NW	30	30			8	8		
31	56	29	43	12	30	22	0	1	8	0.00	0.0	30.180	33	2.4	2.8	14	NW	10	32			0	2		
SUM	SUM				TOTAL	TOTAL		NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM						
1522	990				749	0		3.56	1.5	29.970	27	3.4	7.7	46	NW	30	30					225	208		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION		DEP.					DATE:30	DATE:30	POSSIBLE	MONTH	AVG.	AVG.					
49.1	31.9	40.5	9.3	30.6	-299	0		0.45											7.3	6.7					
NUMBER OF DAYS		SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF																	
MAXIMUM TEMP.		MINIMUM TEMP.		2877		0		THUNDERSTORMS		1		PRECIPITATION		SNOW, ICE PELLETS											
≥ 90°		≤ 32°		DEP.		DEP.		HEAVY FOG		6		1.46		25-26		0.6		15							
0		0		20		0		14		0		CLEAR		4		PARTLY CLOUDY		9		CLOUDY		18			

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 T 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

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

*Kenneth D. Wadsworth*

DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1990  
WILMINGTON, DE

13781

HOUR	L.S.T.	VISI-BILITY			WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE				WIND																																												
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR of	NET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR of	NET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																											
JAN 1st																						JAN 2nd																						JAN 3rd																					
01	10	7	1	8	RF	42	42	42	100	31	11	0	UNL	15			30	26	19	64	26	4	0	UNL	12			29	27	23	78	00	0																																
04	10	60	7		R	40	39	37	89	30	7	0	UNL	15			29	26	20	69	29	7	1	UNL	10			28	26	23	82	00	0																																
07	10	50	12			39	35	29	67	30	14	0	UNL	12			27	25	20	75	25	5	6	120	7			27	26	24	89	01	3																																
10	6	55	15			39	33	24	55	30	13	0	UNL	15			35	30	22	59	24	10	7	200	7			36	33	29	76	20	5																																
13	7	50	15			39	32	20	47	31	17	0	UNL	15			41	34	22	47	29	11	7	200	7			43	37	28	56	17	8																																
16	3	UNL	15			39	33	21	49	30	18	0	UNL	15			43	35	20	40	25	7	1	UNL	9			46	37	22	39	19	3																																
19	0	UNL	12			35	30	21	57	30	14	0	UNL	15			34	30	23	64	24	5	0	UNL	12			38	31	19	46	20	3																																
22	0	UNL	12			35	29	18	50	30	12	0	UNL	15			32	29	22	67	00	0	0	UNL	12			34	31	26	73	25	3																																
JAN 4th																						JAN 5th																						JAN 6th																					
01	5	UNL	10			31	29	26	82	18	3	10	200	2		F	47	46	45	93	24	6	10	200	8			36	33	28	73	16	3																																
04	2	UNL	7			30	29	26	85	19	4	8	200	0		F	41	41	40	96	35	5	10	50	7			36	33	29	76	00	0																																
07	4	UNL	4		F	31	30	29	92	00	0	7	200	10		F	41	38	34	76	32	6	10	35	7			36	34	30	79	15	4																																
10	10	27	4		H	36	34	31	82	21	4	8	UNL	15			44	39	32	63	34	9	10	6	2		LF	36	34	32	85	18	3																																
13	10	5	1		FH	40	40	39	96	19	3	8	UNL	12			46	39	30	54	31	12	8	250	7			43	38	31	63	31	12																																
16	10	9	4		FH	51	50	49	93	22	10	9	250	12			42	36	28	58	30	7	1	UNL	8			45	38	29	54	32	12																																
19	10	120	6		FH	51	50	49	93	24	11	10	200	12			38	33	25	60	32	4	0	UNL	7			40	35	27	60	32	8																																
22	10	15	2		F	47	47	46	96	29	5	10	200	10			37	33	27	67	26	4	0	UNL	10			36	32	26	67	34	7																																
JAN 7th																						JAN 8th																						JAN 9th																					
01	0	UNL	10			32	29	21	64	30	6	10	200	6		F	32	31	28	85	00	0	0	UNL	7			33	33	32	96	23	4																																
04	3	UNL	8			29	27	22	75	30	4	10	200	6		F	32	31	29	89	30	4	0	UNL	5			29	28	27	92	28	3																																
07	4	UNL	7			28	26	23	82	00	0	10	200	4		F	33	32	31	92	00	0	7	7	3			30	30	29	96	00	0																																
10	4	UNL	6		H	31	29	24	75	00	0	10	80	2		F	36	34	31	82	00	0	7	UNL	3			37	36	34	89	20	3																																
13	8	250	8			42	35	25	51	22	10	10	100	1		RFH	35	34	32	89	13	4	9	UNL	10			47	43	38	71	22	12																																
16	10	200	8			39	34	26	60	23	3	10	6	0		RFH	35	34	33	92	03	5	7	UNL	15			46	42	36	68	17	9																																
19	10	200	7			36	32	24	62	00	0	10	19	2		RFH	38	34	33	96	34	7	10	37	15			38	37	35	89	17	11																																
22	10	200	7			36	32	26	67	00	0	10	41	4		F	36	35	34	93	32	7	10	29	10			40	39	37	89	17	8																																
JAN 10th																						JAN 11th																						JAN 12th																					
01	10	21	7			38	37	36	93	18	8	5	UNL	15			37	34	29	73	26	7	0	UNL	15			37	32	23	57	27	8																																
04	10	15	5		F	39	38	37	93	17	5	10	35	15			36	33	29	76	24	5	8	80	15			40	32	18	41	26	12																																
07	10	31	5		F	39	39	38	96	23	4	5	UNL	15			34	32	28	79	23	5	9	100	15			40	33	22	49	28	12																																
10	10	50	9			44	41	38	80	28	10	10	250	7			39	35	30	70	18	9	6	110	15			41	34	21	45	28	13																																
13	10	40	15			47	40	31	54	32	17	10	UNL	12			44	39	32	63	18	13	10	110	15			40	34	25	55	31	18																																
16	10	55	15			46	39	29	52	28	14	10	250	15			46	39	29	52	22	8	8	70	15			38	30	14	37	28	16																																
19	10	47	15			40	36	31	70	30	11	10	75	15			44	39	32	63	27	5	7	45	15			35	29	17	48	28	10																																
22	6	40	15			39	35	29	67	29	11	4	UNL	15			40	36	30	68	22	3	7	100	15			32	26	14	47	29	11																																
JAN 13th																						JAN 14th																						JAN 15th																					
01	10	60	15			30	26	18	61	32	10	0	UNL	15			25	22	14	63	25	6	10	70	10			35	33	29	79	20	5																																
04	10	50	15			29	24	12	49	31	12	3	UNL	15			23	20	13	65	18	4	10	25	2		8	RS	33	33	32	96	00	0																															
07	3	UNL	15			28	23	12	51	32	14	9	120	12			27	24	17	66	25	5	10	36	2		8	RS	33	33	32	96	00	0																															
10	0	UNL	15			31	25	12	45	34	19	4	UNL	12			34	29	19	54	29	7	10	80	3		8	F	35	34	33	92	00	0																															
13	0	UNL	15			35	27	10	35	30	17	1	UNL	15			40	35	26	57	30	6	10	60	7			40	38	34	79	23	5																																
16	0	UNL	15			36	28	11	35	31	13	8	UNL	15			40	32	18	41	20	6	8	50	9			43	39	33	68	00	0																																
19	0	UNL	15			29	24	11	47	30	7	10	250	15			34	31	26	73	18	8	9	250	9			38	36	33	82	34	1																																
22	0	UNL	15			25	21	11	55	29	5	10	110	15			34	32	29	82	16	7	0	UNL	7			34	33	32	92	00	0																																
JAN 16th																						JAN 17th																						JAN 18th																					
01	0	UNL	7			31	31	30	96	00	0	8	55	6		F	40	39	38	93	00	0	10	75	8			59	53	47	65	23	11																																
04	0	UNL	6		F	30	30	29	96	00	0	0	UNL	4		F	38	37	36	93	00	0	10	110	8			57	52	47	69	22	11																																
07	0	UNL	5		F	32	31	30	92	00	0	7	UNL	2		F	36	36	35	96	00	0	10	85	8			57	53	49	75	23	10																																
10	6	UNL	4		H	43	40	36	76	26	4	2	UNL	2		FH	46	43	39	77	21	4	10	250	10			61	55	50	67	23	13																																
13	4	UNL	7			59	51	42	54	23	7	0	UNL	5		H	56	49	42	60	17	6	10	110	9			62	56	51	67	23	13																																
16	4	UNL	7			59	51	43	56	22	6	3	UNL	6		H	58	51	45	62	19	6	8	UNL	10			63	56	51	65	25	8																																
19	6	UNL	6		H	51	47	42	72	24	3	3	UNL	7			46	43	40	80	14	5	10	80	8			58	54	50	75	26	5																																
22	2	UNL	6		H	41	39	37	86	28	3	8	95	7			48	45	42	80	32	5	6	UNL	15			51	43	34	52	34	18																																

WEATHER CODES

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

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 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1990  
WILMINGTON, DE 13781

HOUR (L.S.T.)	VISI-BILITY			WEATHER	TEMPERATURE			WIND			SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE			WIND													
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)											
JAN 19th																																
01	3	UNL	15		43	38	30	60	33	10	10	80	12		35	30	19	52	12	7	10	0	0	2	F	39	39	39	100	11	4	
04	3	UNL	15		39	34	25	57	31	9	10	40	5		33	30	25	73	09	3	10	0	0	2	F	39	38	38	96	06	7	
07	2	UNL	15		35	30	20	54	32	5	10	50	3		32	32	31	96	11	5	10	1	0	2	LF	39	39	39	100	36	6	
10	9	UNL	15		40	33	21	47	35	9	10	42	2	8	RF	33	32	31	92	11	6	10	0	0	2	LF	42	41	41	96	33	10
13	9	250	15		42	34	18	38	34	7	10	4	1	4	RF	35	34	32	89	11	5	8	60	12			45	43	41	86	02	6
16	10	100	15		40	32	18	41	33	5	10	3	1		LF	38	38	38	100	16	7	10	200	10			46	44	41	83	30	3
19	10	130	15		37	31	20	50	00	0	10	1	0	2	LF	39	39	39	100	00	0	8	UNL	8			41	38	35	79	32	9
22	9	130	12		36	30	20	52	11	5	10	1	0	2	LF	39	39	39	100	09	3	5	UNL	10			38	36	34	86	17	3
JAN 20th																																
JAN 21st																																
JAN 22nd																																
JAN 23rd																																
JAN 24th																																
JAN 25th																																
JAN 26th																																
JAN 27th																																
JAN 28th																																
JAN 29th																																
JAN 30th																																
JAN 31st																																

SUMMARY BY HOURS

HOUR (L.S.T.)	AVERAGES							RESULTANT WIND	
	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	6	29.950	38	35	30	77	6.7	23	3.3
04	6	29.960	36	33	30	80	6.7	28	5.0
07	7	29.980	35	33	30	82	5.9	30	2.9
10	7	30.010	40	37	31	72	8.4	28	3.6
13	8	29.960	45	40	32	61	11.3	27	5.4
16	7	29.940	46	40	31	59	9.1	26	4.8
19	7	29.960	41	37	31	68	6.8	27	3.1
22	6	29.980	39	36	31	73	6.4	28	2.2

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JAN 1990  
WILMINGTON, DE

13781

DATE	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT												DATE	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
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25	T	T	0.01	0.07	0.03	0.07	0.09	0.04	0.09	0.09	0.09	0.13	0.12	0.13	T	T		T	T		0.12	0.11	0.05	0.06	0.10	25
26	0.02	0.02	0.12	0.04	0.02	T	0.01	0.01	0.01	T	0.01	0.02	T	T												26
27																										27
28																										28
29																										29
30	T	T																								30
31																										31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.07	0.10	0.12	0.15	0.18	0.21	0.22	0.24	0.25	0.28	0.32	0.40
ENDED: DATE	25	25	25	25	25	25	25	25	25	01	25	01
ENDED: TIME	1952	1954	2003	2003	2011	2019	2043	2057	2111	0059	1253	0059

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.

VALIDATED BY:  
MATTHEW BODOSKY

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