

NOV 1989  
WILMINGTON, DE  
NAT'L NEA 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

NOV 1989  
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 ISEASON BEGINS WITH JUL	COOLING ISEASON BEGINS WITH JAN			WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)		RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT			
01	60	42	51	0	38	14	0		0	T	0.0	30.040	30	9.2	9.6	25	NW	16	31			5	5	
02	55	39	47	-3	37	18	0		0	0.02	0.0	30.090	06	0.9	3.9	15	F	8	07			9	9	
03	51	35	43	-7	39	22	0	1	0	0.14	0.0	29.955	32	6.7	7.9	32	NW	20	33			9	7	
04	49	30	40	-10	27	25	0		0	0.00	0.0	30.210	29	0.4	4.7	13	S	7	18			3	4	
05	59	33	46	-3	41	19	0	1	0	0.00	0.0	30.190	16	6.1	8.5	20	S	16	17			5	5	
06	60	48	54	5	49	11	0	1	0	T	0.0	29.945	20	6.9	7.4	21	SW	12	22			10	7	
07	61	40	51	2	49	14	0	2	8	0.00	0.0	29.870	17	3.0	5.8	18	S	13	18			8	7	
08	60	50	55	7	54	10	0	2	8	0.60	0.0	29.735	13	4.0	5.2	16	SE	12	10			10	10	
09	66	44	55	7	50	10	0	2		0.39	0.0	29.530	25	5.5	10.0	39	W	21	28			8	6	
10	56	41	49	1	33	16	0			T	0.0	29.750	25	7.7	9.7	32	W	20	29			5	2	
11	56	36	46	-1	34	19	0			0.00	0.0	29.890	22	8.9	9.5	25	SW	17	22			6	5	
12	59	42	51	4	31	14	0			0.00	0.0	30.010	31	7.4	9.1	26	NW	18	32			7	5	
13	59	39	49	2	37	16	0			0.00	0.0	30.210	16	3.8	7.3	18	S	16	17			6	5	
14	72*	46	59	13	53	6	0	2		0.00	0.0	29.995	20	4.5	5.8	18	SW	13	22			9	7	
15	71	59	65*	19	59	0	0	1	8	0.11	0.0	29.800	19	9.1	9.8	22	S	16	18			10	9	
16	70	39	55	10	43	10	0	1		0.23	0.0	29.430	23	7.6	16.0	55	NW	40	30			8	6	
17	44	34	39	-6	20	26	0			0.00	0.0	29.900	27	8.0	9.6	24	NW	18	29			0	0	
18	49	28	39	-6	23	26	0			0.00	0.0	30.040	28	7.4	9.2	31	NW	17	30			8	4	
19	42	25	34	-10	17	31	0			0.00	0.0	30.180	26	6.4	8.6	16	SW	15	26			6	6	
20	63	40	52	-8	32	13	0			T	0.0	29.440	25	10.2	14.3	59	NW	32	32			8	7	
21	44	27	36	-8	13	29	0			0.00	0.0	29.600	31	22.1	22.6	58	NW	35	32			4	2	
22	34	22	28	-15	12	37	0			0.18	1.9	30.010	33	4.3	5.7	20	NW	12	32			7	8	
23	32	20*	26*	-17	19	39	0	1		0.20	3.7	29.880	35	8.9	10.2	23	N	16	01			9	7	
24	37	21	29	-14	16	36	0			3.00	0.0	30.160	28	7.6	8.8	25	W	16	30			0	1	
25	43	21	32	-10	26	33	0			2.00	0.0	30.030	21	6.5	6.7	18	SW	13	21			8	7	
26	55	41	48	6	36	17	0	1		T	0.0	29.820	28	6.1	7.9	25	NW	16	31			8	7	
27	52	35	44	3	33	21	0	1		0.12	0.0	30.080	15	2.7	6.1	17	S	12	17			7	9	
28	62	44	53	12	43	12	0	1	8	T	0.0	29.730	28	8.4	12.7	35	NW	18	33			10	10	
29	44	25	35	-6	17	30	0			0.00	0.0	30.030	32	11.7	12.5	26	NW	17	30			8	6	
30	44	23	34	-6	18	31	0			0.00	0.0	29.910	27	8.9	10.0	25	W	17	29			4	3	
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL			FOR THE MONTH:				TOTAL	%	SUM	SUM			
1609	1069					605	0			1.99	5.6	29.915	27	4.4	9.2	59	NW	40	30			for	205	176
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.					DEP.						DATE: 20	DATE: 16	POSSIBLE	MIN			AVG.	AVG.	
53.6	35.6	44.6	-1.0	33.3		23	0		9	-1.34												6.8	5.9	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF										
						TOTAL	TOTAL	≥ 0.1 INCH						SNOW, ICE PELLETS OR ICE AND DATE										
MAXIMUM TEMP.		MINIMUM TEMP.		897		1177		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS												
≥ 90°		≤ 32°		≤ 32°		≤ 0°		DEP.		HEAVY FOG		22-23		6										
0		1		10		0		-3		162		CLEAR 3		PARTLY CLOUDY 11 CLOUDY 16										

\* 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

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NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

*Kenneth D. Haden*  
DIRECTOR NATIONAL CLIMATIC DATA CENTER

# OBSERVATIONS AT 3-HOUR INTERVALS

NOV 1989  
WILMINGTON, DE

13781

HOUR	L. S. T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	TEMPERATURE				WIND	
							AIR of	NET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)						AIR of	NET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)						AIR of	NET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
NOV 1st																																		
01	9	110	15				59	55	51	75	32	12	8	UNL	15			43	39	34	71	30	4	10	55	5	RF	49	47	45	86	00	0	
04	0	UNL	15				54	53	52	93	27	7	10	250	15			41	39	36	83	32	5	10	50	4	RF	49	47	45	86	05	5	
07	0	UNL	15				51	45	39	64	31	12	9	200	12			43	39	34	71	00	0	10	45	1	RF	48	46	44	86	33	4	
10	2	UNL	15				53	46	37	55	31	14	6	UNL	12			51	43	34	52	07	7	10	8	1	RF	50	49	48	93	31	6	
13	8	UNL	15				55	46	34	45	31	13	10	250	12			55	46	34	45	18	4	10	29	4		48	45	42	80	32	16	
16	6	UNL	15				56	45	32	40	29	6	10	120	10			53	46	37	55	00	0	10	40	15		45	40	33	63	32	14	
19	6	UNL	15				48	42	34	59	30	6	10	65	10		R	51	46	40	66	00	0	0	UNL	15		40	37	32	73	27	7	
22	10	250	15				46	41	34	63	25	3	10	100	10		R	51	49	46	83	11	4	0	UNL	15		36	33	28	73	31	6	
NOV 2nd																																		
NOV 3rd																																		
NOV 4th																																		
NOV 5th																																		
NOV 6th																																		
NOV 7th																																		
NOV 8th																																		
NOV 9th																																		
NOV 10th																																		
NOV 11th																																		
NOV 12th																																		
NOV 13th																																		
NOV 14th																																		
NOV 15th																																		
NOV 16th																																		
NOV 17th																																		
NOV 18th																																		

## WEATHER CODES

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

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

NOV 1989  
WILMINGTON, DE 13781

HOUR L.S.T.	VISI-BILITY			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)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																																																																																																																																																																										
NOV 19th												NOV 20th												NOV 21st																																																																																																																																																																																																															
01	0	UNL	10	30	26	16	56	30	8	7	60	12	42	36	26	53	22	6	0	UNL	15	43	34	20	40	30	21	04	0	UNL	10	28	24	14	56	30	6	10	120	10	42	36	28	58	22	8	1	UNL	15	41	32	15	35	31	24	07	4	UNL	10	26	23	16	66	30	5	10	120	10	43	38	30	60	21	5	1	UNL	15	36	30	18	48	31	20	10	7	UNL	12	33	28	17	52	32	7	6	110	15	52	43	31	45	22	10	3	UNL	20	37	29	13	37	31	26	13	7	UNL	15	39	31	14	36	26	13	5	UNL	15	60	51	41	50	22	15	8	60	20	37	29	11	34	33	26	16	10	250	15	38	31	16	41	23	9	10	250	15	61	50	38	43	22	12	0	UNL	15	36	28	8	31	31	26	19	10	65	15	38	31	18	44	21	4	2	UNL	15	56	48	40	55	24	11	0	UNL	15	32	25	7	35	33	14	22	10	55	15	40	33	22	49	20	8	10	47	10	46	37	24	42	32	26	0	UNL	15	29	23	9	43	31	10								
NOV 22nd												NOV 23rd												NOV 24th																																																																																																																																																																																																															
01	2	UNL	15	27	22	8	45	33	8	10	5	0	26	25	24	92	03	7	9	65	15	23	21	15	71	26	4	04	1	UNL	15	24	20	9	53	30	6	10	7	0	26	25	24	92	01	10	0	UNL	15	24	21	15	69	28	10	07	10	110	15	26	21	9	49	33	9	10	28	5	27	25	21	78	35	12	0	UNL	15	22	20	14	71	26	6	10	2	UNL	15	31	25	10	41	30	7	9	36	15	28	25	20	72	36	13	0	UNL	15	31	26	14	49	30	12	13	10	110	15	33	26	8	35	32	6	10	32	15	30	26	19	64	36	9	0	UNL	15	36	30	17	46	30	14	16	10	95	15	32	25	8	36	24	3	9	80	15	32	27	18	56	31	12	0	UNL	15	36	30	17	46	31	12	19	10	70	12	32	26	12	43	00	0	0	UNL	15	25	22	15	66	30	6	0	UNL	15	31	27	18	59	20	5	22	10	15	1	27	26	25	92	01	4	0	UNL	15	21	19	15	78	29	4	0	UNL	15	27	24	18	69	23	5								
NOV 25th												NOV 26th												NOV 27th																																																																																																																																																																																																															
01	0	UNL	15	25	22	15	66	00	0	10	55	15	41	37	31	68	20	3	10	200	12	44	39	31	60	30	4	04	5	UNL	12	27	26	23	85	19	4	10	50	12	41	37	32	70	21	5	10	200	12	40	36	31	70	25	6	07	7	UNL	8	26	25	24	92	18	4	10	60	8	42	40	38	86	21	4	0	UNL	10	36	34	30	79	00	0	10	9	250	10	35	32	26	70	21	7	10	50	5	45	42	39	80	27	8	4	UNL	10	48	39	27	44	06	4	13	5	UNL	10	43	37	27	53	20	9	10	55	8	51	47	43	74	32	9	9	UNL	10	51	41	28	41	10	6	16	9	250	10	42	36	28	58	21	8	2	UNL	10	54	47	39	57	31	11	10	75	10	47	41	32	56	16	8	19	8	UNL	12	38	34	27	65	23	4	0	UNL	15	46	41	35	66	29	8	10	55	10	44	41	37	77	14	9	22	10	65	15	39	35	30	70	23	6	3	UNL	15	43	39	33	68	30	7	10	43	8	44	44	43	96	03	3								
NOV 28th												NOV 29th												NOV 30th																																																																																																																																																																																																															
01	10	24	2	F	45	44	43	93	12	4	10	200	15	42	36	26	53	32	10	0	UNL	15	24	21	12	60	20	5	04	10	21	2	F	46	45	44	93	17	6	8	45	15	40	34	24	53	31	11	0	UNL	15	25	22	15	66	20	6	07	10	13	3	F	54	53	52	93	22	11	10	200	15	36	30	18	48	31	14	0	UNL	12	26	24	18	72	20	6	10	10	12	4	F	57	55	53	87	23	12	10	140	15	37	30	15	41	33	14	5	UNL	12	36	30	19	50	28	10	13	10	120	6	F	59	56	53	81	25	14	7	47	15	37	31	18	46	34	13	0	UNL	15	42	34	21	43	28	12	16	9	230	10	H	61	50	38	43	32	15	5	UNL	20	35	28	14	42	01	11	4	UNL	15	43	34	19	38	29	14	19	9	230	15		52	44	33	49	32	15	0	UNL	15	30	25	12	47	32	9	0	UNL	15	37	31	19	48	27	11	22	10	120	15		46	39	30	54	31	13	0	UNL	15	26	22	11	53	30	6	0	UNL	15	34	29	18	52	26	8

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	5	29.920	43	39	33	71	7.1	27	3.3
04	5	29.910	42	38	33	74	7.7	27	3.9
07	6	29.920	41	38	33	77	7.4	25	2.9
10	6	29.930	48	43	35	63	11.2	27	4.4
13	7	29.890	51	44	35	56	12.9	27	7.4
16	7	29.890	50	43	32	52	11.8	27	6.7
19	5	29.920	45	40	32	62	8.4	26	4.0
22	5	29.905	43	39	32	68	8.6	28	4.6

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

NOV 1989  
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			
01	T																							01			
02																			T	T	T	T	T	0.02	02		
03	0.04	0.02	0.02	0.01	0.01	0.01	0.02	0.01	T	T								T						03			
04																								04			
05																								05			
06					T	T																		06			
07																								07			
08																								08			
09	T	T	0.05	T	T		0.03	0.02	T		0.03	0.26						0.03	0.19	0.29	0.02		0.02	0.04	0.01	T	09
10																									10		
11																									11		
12																									12		
13																									13		
14																									14		
15	T	0.06	0.01	0.04	T																			15			
16																								16			
17																								17			
18																								18			
19																								19			
20																								20			
21																								21			
22																								22			
23	0.03	0.06	0.04	0.04	0.01	0.01	0.01	T	T															23			
24																								24			
25																								25			
26																								26			
27																								27			
28	T																							28			
29																								29			
30																								30			

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.12	0.17	0.21	0.23	0.25	0.26	0.29	0.33	0.41	0.48	0.50	0.51
ENDED: DATE	09	09	09	09	09	09	08	08	08	08	08	08
ENDED: TIME	1125	1125	1127	1131	1131	1131	1702	1702	1700	1702	1702	1659

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.

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