

# LOCAL CLIMATOLOGICAL DATA Monthly Summary



GREATER WILMINGTON AIRPORT

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

SEP 1991  
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 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 80 FEET ABOVE M.S.L.	WIND I.M.P.H.					SUNSHINE		SKY COVER (TENTHS)			
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DER 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	MIDNIGHT TO MIDNIGHT	
01	73	58	66	-6	47	0	1		0	0.00	0.0	30.190	05	8.7	10.4	23	NE	18	03			0	0	
02	74	51	63	-9	50	2	0		0	0.00	0.0	30.340	14	3.1	7.8	20	S	14	18			1	1	
03	78	52	65	-7	58	0	0		0	0.00	0.0	30.200	19	4.7	6.9	20	S	13	18			2	1	
04	83	61	72	1	64	0	7		0	0.0	0.0	29.940	23	8.8	9.2	22	SW	17	24			7	6	
05	83	65	74	3	62	0	9		0	0.19	0.0	29.950	32	4.5	7.0	18	N	14	36			4	4	
06	77	63	70	-1	65	0	5		1	0.04	0.0	30.080	33	3.4	4.7	12	N	8	31			10	8	
07	85	61	73	2	60	0	8		1	0.00	0.0	30.150	33	0.9	4.9	13	S	8	17			1	1	
08	87	61	74	4	63	0	9		1	0.00	0.0	30.150	16	1.3	3.4	10	SE	9	13			2	2	
09	87	63	75	5	65	0	10		1	0.00	0.0	30.150	18	3.3	5.0	15	S	10	16			4	4	
10	84	67	76	6	66	0	11		1	0.0	0.0	29.990	23	9.1	9.7	23	SW	16	21			8	7	
11	83	65	74	4	64	0	9		1	0.00	0.0	29.870	34	7.9	9.5	22	SW	17	32			4	6	
12	75	55	65	-4	53	0	0		0	0.00	0.0	29.980	35	5.1	7.0	15	NE	13	04			7	5	
13	80	51	66	-3	58	0	1		0	0.00	0.0	29.955	18	4.0	6.5	16	S	13	17			3	4	
14	75	65	70	1	68	0	5		1	0.84	0.0	29.940	10	4.4	6.5	14	S	13	18			10	10	
15	82	63	73	5	70	0	8		1	0.00	0.0	30.040	16	4.0	5.8	14	S	9	21			9	9	
16	92	71	82	14	76	0	17		1	0.00	0.0	29.960	22	6.8	7.5	16	SW	13	21			4	5	
17	92*	73	83*	15	73	0	18		1	0.74	0.0	29.900	24	5.6	6.8	35	NW	12	21			3	4	
18	83	71	77	10	72	0	12		1	0.02	0.0	29.940	15	4.5	7.5	17	S	13	18			9	9	
19	81	54	68	-1	62	0	3		0	0.68	0.0	29.980	34	3.4	11.3	35	NW	24	34			9	9	
20	66	48	57	-10	45	8	0		0	0.02	0.0	30.110	35	10.4	10.9	28	N	20	36			3	4	
21	66	45	56	-10	42	9	0		0	0.00	0.0	30.220	35	6.9	7.4	21	N	14	36			2	1	
22	68	43	56	-10	46	9	0		0	0.00	0.0	30.275	17	2.9	6.7	15	S	10	15			0	2	
23	70	54	62	-3	57	3	0		0	0.01	0.0	30.120	22	5.7	6.1	18	S	12	23			10	9	
24	74	60	67	2	59	0	2		1	0.66	0.0	30.050	10	4.4	7.6	16	S	14	15			9	10	
25	72	58	65	0	64	0	0		1	2.03	0.0	29.630	28	3.1	8.7	24	N	14	33			10	10	
26	73	52	63	-1	52	2	0		1	0.13	0.0	29.630	29	6.7	8.0	22	W	14	27			3	4	
27	65	46	56	-8	41	9	0		0	0.00	0.0	29.970	31	5.9	7.2	21	NW	13	32			2	1	
28	66	42*	54*	-10	42	11	0		0	0.00	0.0	30.210	31	3.5	5.6	16	W	12	28			1	0	
29	76	47	62	-1	51	3	0		0	0.00	0.0	30.250	27	2.9	7.3	23	SW	15	04			2	3	
30	66	48	57	-6	43	8	0		0	0.00	0.0	30.340	08	5.8	9.3	22	NE	16	05			0	1	
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL			FOR THE MONTH:					TOTAL	%	SUM	SUM		
2316	1713					64	135			5.36	0.0	30.050	28	1.0	7.4	35	NW	24	34			139	140	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.					DEP.											POSSIBLE	MONTH	AVG.	AVG.
77.2	57.1	67.2	-0.7	57.9		28	12			1.77												4.6	4.7	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS ≥ 0.1 INCH		GREATEST IN 24 HOURS AND DATES					GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE									
MAXIMUM TEMP.						MINIMUM TEMP.		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS												
≥ 90°						≤ 32°		DEP.		DEP.		HEAVY FOG												
2						0		28		380		CLEAR 15		PARTLY CLOUDY 6			CLOUDY 9							

\* 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.

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NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

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DIRECTOR  
NATIONAL CLIMATIC DATA CENTER



# OBSERVATIONS AT 3-HOUR INTERVALS

SEP 1991  
WILMINGTON, DE 13781

HOUR L.S.T.	SEP 19th										SEP 20th										SEP 21st										
	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	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)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	
01	10	65	10		77	74	73	88	22	5	10	75	7		53	53	52	96	36	9	0	UNL	20			48	45	42	80	33	6
04	3	UNL	10		76	74	73	91	19	7	10	100	10	RW	54	53	52	93	33	6	0	UNL	20			47	45	42	83	34	7
07	10	UNL	7		76	74	73	91	18	7	2	UNL	12		54	51	49	83	35	11	3	UNL	20			49	46	43	80	34	8
10	10	24	7		81	76	73	77	25	10	2	UNL	15		63	52	41	45	36	12	1	UNL	15			60	50	40	48	02	11
13	10	32	15		64	59	55	73	35	16	3	UNL	15		65	52	40	40	02	14	3	UNL	15			64	52	40	42	35	7
16	10	43	1	8 RW	57	56	55	93	36	8	3	UNL	15		65	52	39	39	34	12	0	UNL	15			64	52	39	40	33	7
19	10	65	7	RW	56	55	54	93	06	4	3	UNL	20		56	49	42	60	33	6	10	UNL	20			58	49	40	51	36	4
22	10	65	7	RW	56	54	53	90	36	8	0	UNL	20		51	48	44	77	34	6	0	UNL	20			50	48	46	86	32	4
SEP 22nd																															
01	0	UNL	15		46	45	44	93	33	5	2	UNL	20		56	53	50	80	22	7	10	55	10			63	62	61	93	32	4
04	0	UNL	20		44	43	42	93	34	5	8	120	15		57	53	50	78	00	0	10	65	5		F	61	60	60	97	35	4
07	0	UNL	15		47	46	44	89	35	4	10	50	15		59	56	53	81	21	5	10	60	2	8 F	61	59	58	90	36	5	
10	0	UNL	15		64	53	43	47	15	6	10	100	10	R	64	61	59	84	20	9	10	UNL	8			69	59	52	55	07	8
13	0	UNL	15		67	55	44	44	17	6	10	100	8		68	64	61	78	23	10	10	100	10			73	60	50	45	13	7
16	1	UNL	20		67	54	42	40	16	6	10	80	12		69	64	60	73	21	7	10	85	10			71	65	61	71	17	9
19	6	UNL	20		61	56	51	70	15	7	10	65	12		66	62	60	81	25	5	10	30	3	RF	66	65	64	93	11	7	
22	7	UNL	20		58	54	51	78	19	5	10	70	12		65	62	60	84	00	0	10	5	2	RF	64	63	63	97	06	7	
SEP 23rd																															
SEP 24th																															
SEP 25th																															
SEP 26th																															
SEP 27th																															
SEP 28th																															
SEP 29th																															
SEP 30th																															

## SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES					RESULTANT WIND	
			TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	4	30.045	63	60	59	87	6.1	32	1.2
04	5	30.040	60	59	58	91	6.1	32	2.2
07	5	30.070	62	60	58	88	6.3	35	2.7
10	4	30.080	71	64	58	65	8.5	31	0.9
13	5	30.050	75	64	56	55	9.2	26	2.8
16	5	30.020	75	64	57	56	9.1	24	4.0
19	6	30.050	68	62	58	71	6.9	19	1.6
22	5	30.060	65	61	59	83	6.7	20	0.8

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

SEP 1991  
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																								01	
02																									02
03																									03
04																									04
05	T	0.02	0.10	0.05	0.01	0.01	T													T	T	T	T	T	05
06							0.02	0.02	T																06
07																									07
08																									08
09																									09
10																									10
11																									11
12																									12
13																									13
14				0.23	0.55	0.06	T			T															14
15																									15
16																									16
17																									17
18				T																					18
19																									19
20	0.01	0.01	T																						20
21																									21
22																									22
23																									23
24																									24
25	0.07	0.03	T	0.04	1.19	0.05																			25
26	0.10	0.01	0.01	0.01	T																				26
27																									27
28																									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)	0.38	0.57	0.77	0.97	1.05	1.09	1.23	1.27	1.28	1.28	1.28	1.28
ENDED: DATE	25	25	25	25	25	25	25	25	25	25	25	25
ENDED: TIME	0511	0511	0511	0511	0513	0521	0511	0521	0535	0535	0535	0535

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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