

LOCAL CLIMATOLOGICAL DATA

Monthly Summary



GREATER WILMINGTON AIRPORT

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

MAR 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	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 MINUTES	SKY COVER (TENTHS)			
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEN 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	FASTEST 1-MIN	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	64	29	47	10	35	18	0	1 8	0	0.00	0.0	30.100	16	6.0	6.5	20	S	14	16			9	7
02	69	47	58	21	54	7	0	2	0	0.13	0.0	29.590	19	8.5	9.8	29	SW	18	22			10	10
03	66	48	57	20	54	8	0	1	0	0.78	0.0	29.470	11	4.7	6.9	28	S	16	07			10	10
04	58	37	48	10	44	17	0	1	0	0.08	0.0	29.180	26	6.5	13.9	29	NW	21	31			10	9
05	57	35	46	8	30	19	0	0	0	0.00	0.0	29.670	29	7.0	7.7	25	NW	18	30			2	3
06	60	33	47	9	41	18	0	1	0	0.41	0.0	29.610	16	9.4	10.0	36	S	23	16			9	7
07	52	34	43	4	31	22	0	1	0	0.00	0.0	29.490	29	14.4	15.2	45	N	32	27			5	4
08	44	28	36	-3	16	29	0	0	0	0.00	0.0	29.860	30	10.8	11.7	29	NW	20	29			3	2
09	46	23*	35	-4	16	30	0	0	0	0.00	0.0	29.950	31	7.3	7.6	24	NW	14	31			2	3
10	50	30	40	0	18	25	0	0	0	0.00	0.0	29.860	31	10.9	12.0	33	NW	20	30			0	2
11	43	29	36	-4	12	29	0	0	0	0.00	0.0	29.910	33	14.9	15.6	38	NW	23	35			0	0
12	45	24	35	-5	16	30	0	0	0	0.00	0.0	29.920	32	10.4	11.0	26	N	17	33			0	0
13	38	27	33*	-8	23	32	0	1 4	0	0.09	0.4	29.800	03	3.8	5.6	20	NE	13	07			10	8
14	37	34	36	-5	34	29	0	1 4	0	0.31	T	29.660	03	9.9	11.4	29	NE	16	03			10	10
15	48	33	41	0	32	24	0	0	0	0.02	T	29.980	35	8.4	10.0	23	N	14	36			10	7
16	54	28	41	-1	25	24	0	0	0	0.00	0.0	30.230	31	7.3	8.3	22	NW	16	31			0	0
17	58	29	44	2	29	21	0	0	0	0.00	0.0	30.200	16	5.6	6.7	17	S	17	15			4	4
18	53	42	48	6	44	17	0	1	0	0.78	0.0	29.650	19	4.8	6.4	24	SE	15	17			10	9
19	55	42	49	6	35	16	0	1	0	T	0.0	29.540	30	16.4	16.6	38	NW	25	31			7	7
20	57	37	47	4	31	18	0	0	0	0.00	0.0	29.860	29	8.9	10.2	31	NW	17	28			0	3
21	56	41	49	5	33	16	0	0	0	0.00	0.0	29.950	12	4.8	6.4	22	S	16	17			10	8
22	50	42	46	2	41	19	0	1 8	0	0.03	0.0	29.990	05	10.1	10.6	24	NE	16	05			10	8
23	46	40	43	-1	42	22	0	1	0	0.95	0.0	29.910	07	10.1	10.5	25	NE	16	09			10	10
24	60	43	52	7	42	13	0	23 8	0	0.01	0.0	29.640	27	6.0	9.1	48	NW	25	28			10	8
25	53	38	46	1	36	19	0	0	0	T	0.0	29.950	30	7.3	8.1	23	W	14	31			10	7
26	54	32	43	-2	35	22	0	0	0	0.08	0.0	30.140	16	2.9	8.1	17	S	13	15			7	6
27	63	44	54	8	49	11	0	1 8	0	0.30	0.0	29.810	13	4.6	6.0	15	E	13	15			10	10
28	77*	54	66*	20	38	0	1	0	0	T	0.0	29.525	25	13.7	16.1	41	SW	31	26			5	7
29	57	49	53	7	44	12	0	1	0	0.42	0.0	29.570	07	2.9	5.9	17	NE	14	03			10	10
30	49	33	41	-6	30	24	0	1 4	0	0.25	0.5	29.810	34	11.6	12.4	28	N	20	36			8	6
31	51	27	39	-8	23	26	0	0	0	0.00	0.0	30.220	10	3.1	6.7	15	E	12	11			0	0
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL									TOTAL	%	SUM	SUM
1670	1112					617	1	NUMBER OF DAYS		4.64	0.9	29.810	31	3.1	9.8	48	NW	32	27			201	185
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION		DEP.						DATE: 24	DATE: 7	POSSIBLE			MONTH	AVG.	AVG.
53.9	35.9	44.9	3.1	33.3	-10.2			> .01 INCH	15	0.77												6.5	6.0
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES					GREATEST DEPTH ON GROUND OF								
MAXIMUM TEMP		MINIMUM TEMP		37.4		1		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS											
≥ 90°		≤ 32°		≤ 32°		≤ 0°		HEAVY FOG		2		0.5		30									
0		0		11		0		-6.98		1		CLEAR 9		PARTLY CLOUDY 5		CLOUDY 17							

* 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 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

MAR 1991
WILMINGTON, DE

13781

HOUR L.S.T.	VISI-BILITY			TEMPERATURE				WIND			VISI-BILITY	TEMPERATURE				WIND		
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	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)		
MAR 1st																		
01	0	UNL	7	35	35	35	100	00	0	10	200	10	50	47	43	77	00	0
04	0	UNL	7	32	32	31	96	00	0	10	3	2	53	53	56	16	5	8
07	6	UNL	4	30	30	29	96	00	0	10	1	0	56	56	56	100	17	8
10	10	UNL	5	49	44	37	64	17	5	10	15	15	63	61	59	87	21	16
13	8	UNL	8	60	48	35	39	13	10	10	UNL	15	69	62	58	60	23	15
16	10	220	9	58	48	37	46	16	11	10	30	15	68	61	56	66	22	11
19	10	140	9	50	44	37	61	17	11	9	200	15	59	56	53	81	16	7
22	10	UNL	9	48	44	40	74	16	4	10	200	15	52	51	50	93	16	5
MAR 2nd																		
MAR 3rd																		
MAR 4th																		
MAR 5th																		
MAR 6th																		
MAR 7th																		
MAR 8th																		
MAR 9th																		
MAR 10th																		
MAR 11th																		
MAR 12th																		
MAR 13th																		
MAR 14th																		
MAR 15th																		
MAR 16th																		
MAR 17th																		
MAR 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

MAR 1991 WILMINGTON, DE 13781

HOUR L. S. T.	VISI-BILITY			WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE				WIND										
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)									
MAR 19th																														
01	6	85	6	F	48	47	45	89	30	9	8	85	10		43	38	32	65	27	7	10	200	8		47	39	28	48	36	3
04	10	40	10		47	43	39	74	30	14	3	UNL	10		39	36	32	76	22	5	10	200	8		43	38	32	65	00	0
07	10	23	9	RW	42	40	37	83	32	12	0	UNL	10		40	36	31	70	30	8	10	120	10		44	35	21	40	08	5
10	10	33	12		46	42	36	68	30	16	0	UNL	15		49	41	30	48	30	15	10	110	15		47	37	22	37	12	10
13	7	60	15		54	45	33	45	31	18	0	UNL	15		54	47	39	57	29	15	10	110	15		54	46	36	51	17	14
16	4	UNL	15		53	44	32	45	30	18	0	UNL	15		56	44	28	34	31	14	10	85	10		53	47	40	62	15	7
19	6	70	10		49	41	30	48	30	14	5	UNL	15		49	40	27	43	30	4	5	UNL	8		54	48	42	64	09	4
22	3	UNL	10		45	39	30	56	29	14	10	250	10		46	40	31	56	21	4	0	UNL	10		49	46	43	80	18	4
MAR 20th																														
MAR 21st																														
MAR 22nd																														
MAR 23rd																														
MAR 24th																														
MAR 25th																														
MAR 26th																														
MAR 27th																														
MAR 28th																														
MAR 29th																														
MAR 30th																														
MAR 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			DIRECTION	SPEED (MPH)				
01	6	29.810	41	38	34	76	6.8	34	3.0				
04	6	29.800	40	37	34	80	7.9	31	1.8				
07	6	29.825	39	37	33	79	8.0	33	2.7				
10	6	29.840	47	41	34	64	12.7	31	4.3				
13	6	29.810	51	44	34	57	14.0	28	4.8				
16	7	29.780	51	44	33	55	11.8	29	6.1				
19	6	29.800	46	41	33	63	10.1	31	2.7				
22	6	29.810	43	40	34	72	7.7	32	1.9				

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

MAR 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							0.01	0.09	0.03															02	
03							T	T	T															03	
04										0.04	0.02	0.01	0.01	T										04	
05																								05	
06																								06	
07																								07	
08																								08	
09																								09	
10																								10	
11																								11	
12																								12	
13																								13	
14	0.01	T	0.01	0.01	0.01	0.06	0.02	0.01	T	0.01	0.01	0.02	0.02	T	T	T	0.02	0.02	0.02	0.02	T	0.01	T	14	
15	T	T	0.01	0.01	T	T	T	T	T				T	T	T	T	T	T	T	T	0.01	0.01	T	T	15
16																								16	
17																								17	
18				0.06	0.08	0.12	0.12	0.05	0.07	0.16	0.04	0.06	0.02	T										18	
19																								19	
20																								20	
21																								21	
22																								22	
23	T	T	0.01	0.10	0.07	0.01	0.01	0.01	T	0.02	0.11	0.20	0.02	T	0.11	0.07	0.01	T	T	T	0.01	T		23	
24	T																							24	
25																								25	
26																								26	
27	T			0.05	0.01	0.01	0.07	0.11	0.04	0.01											T	0.05	0.03	27	
28		T																						28	
29																								29	
30	0.02	0.03	0.02	0.03	0.08		0.06	0.01	T	0.03	0.06	0.04	0.03	0.01	0.01	0.06	0.02	0.05	0.09	0.01	T		T	0.01	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	0.11	0.14	0.19	0.22	0.25	0.28	0.31	0.38	0.45	0.51	0.59
ENDED: DATE	03	03	03	03	03	03	03	03	23	23	23	23
ENDED: TIME	1624	1628	1634	1638	1638	1638	1638	1724	1304	1320	1340	1340

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:
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MATTHEW BODOSKY

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