



LOCAL CLIMATOLOGICAL DATA

Monthly Summary

GREATER WILMINGTON AIRPORT

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

APR 1991
WILMINGTON, DE

DATE	TEMPERATURE °F			DEGREE DAYS BASE 65°F		HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)	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 DEN POINT					WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)		RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	DIRECTION	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT					
01	53	31	42*	-5	35	23	0	1 3 5 8	0	0.11	T	30.040	28	4.1	7.0	30	NW	21	32	9	5						
02	52	35	44	-4	27	21	0		0	0.00	0	30.220	29	9.6	10.6	25	NW	20	30	6	4						
03	57	29*	43	-5	25	22	0		0	0.00	0	30.460	30	3.7	6.1	16	NW	10	32	0	0						
04	62	36	49	1	38	16	0	1	0	0.00	0	30.410	16	7.8	8.5	21	S	17	16	6	5						
05	60	44	52	3	49	13	0	1	0	0.03	0	30.130	21	6.1	6.6	26	SW	14	19	10	8						
06	75	47	61	12	50	4	0	1	8	0	0.00	0	29.980	25	6.3	7.4	22	W	13	28	7	5					
07	84	50	67	17	50	0	2			0	0.00	0	29.910	23	7.3	7.8	26	W	16	23	2	2					
08	86*	54	70	20	54	0	5			0	0.00	0	29.850	19	6.4	7.3	22	S	13	19	7	7					
09	83	66	75*	25	60	0	10			0	0	29.690	22	9.6	11.2	28	S	16	23	6	6						
10	72	46	59	8	40	6	0			0	0.00	0	29.720	28	13.4	15.0	43	NW	26	30	5	4					
11	61	41	51	0	22	14	0			0	0.00	0	30.160	31	16.0	16.4	32	NW	23	30	2	1					
12	59	38	49	-2	20	16	0			0	0.00	0	30.460	36	7.3	10.2	23	N	17	36	3	2					
13	48	40	44	-8	40	21	0	1		0	0.50	0	30.350	13	7.1	11.8	24	NE	17	06	10	9					
14	51	42	47	-5	40	18	0	1		0	0.02	0	30.280	07	13.0	14.4	31	NE	21	04	10	10					
15	53	44	49	-3	48	16	0	1		0	0.44	0	29.970	08	3.0	8.5	17	W	15	08	10	10					
16	75	42	59	6	47	6	0	2		0	0.00	0	29.910	24	8.2	10.0	35	W	18	25	3	4					
17	76	50	63	10	48	2	0	3		0	0.02	0	29.860	04	4.9	7.5	22	NE	16	04	9	7					
18	56	45	51	-2	43	14	0	1	8	0	0.00	0	29.990	06	10.4	11.3	21	NE	16	06	10	9					
19	55	43	49	-5	38	16	0			0	0.00	0	30.080	11	9.0	10.5	21	SE	14	12	10	7					
20	51	43	47	-7	43	18	0	1		0	0.06	0	29.880	07	12.7	13.2	24	NE	20	06	10	10					
21	49	42	46	-8	44	19	0	1		1.55	0	29.400	34	9.0	13.0	24	NE	17	03	10	10						
22	55	42	49	-6	39	16	0			0	0.02	0	29.450	26	12.4	12.7	30	W	20	26	10	10					
23	67	41	54	-1	39	11	0			0	0.00	0	29.730	22	7.1	8.0	22	S	14	19	2	2					
24	62	50	56	1	48	9	0	1 3 8	0	0.50	0	29.740	10	1.7	6.7			13	35	10	10						
25	73	46	60	4	43	5	0			0	0.00	0	30.000	30	6.2	6.4			12	30	0	3					
26	74	48	61	5	49	4	0	1	8	0	0.00	0	30.070	17	2.6	4.4			12	13	6	6					
27	79	50	65	9	57	0	0	1		0	0.00	0	29.900	22	3.8	4.1			9	24	4	4					
28	67	54	61	5	52	4	0	1		0	0.00	0	29.990	08	9.2	9.7			17	06	9	8					
29	64	53	59	2	52	6	0	1		0.03	0	30.080	08	6.3	6.6			13	08	10	10						
30	77	54	66	9	59	0	1	2	8	0	T	29.890	14	0.8	3.6			8	24	9	7						
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM								
1936	1346					320	18			3.28	T	29.990	27	0	8	9.2			26	30			205	185			
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION		DEP.							DATE:	DATE:	10	POSSIBLE	MONTH	AVG.	AVG.				
64.5	44.9	54.7	2.3	43.2	-5.8	18		≥ .01 INCH		11	-0.11										6.8	6.2					
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE													
						TOTAL	TOTAL	≥ 1.0 INCH																			
MAXIMUM TEMP.						4094		19		THUNDERSTORMS		3		PRECIPITATION		SNOW, ICE PELLETS											
≥ 90°						≤ 32°		≤ 0°		DEP.		DEP.		HEAVY FOG		2		1.58		20-21		trace		01			
0						0		2		0		-756		19		CLEAR		7		PARTLY CLOUDY		8		CLOUDY		15	

* 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. Walden
DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

APR 1991 13781
WILMINGTON, DE

HOUR L. S. T.	VISI-BILITY				TEMPERATURE			WIND			VISI-BILITY				TEMPERATURE			WIND																							
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)								
APR 1st																																									
01	0	UNL	20			38	35	31	76	04	3	APR 2nd																													
04	2	UNL	20			32	31	30	92	00	3	APR 3rd																													
07	9	85	6	F		35	34	32	89	06	3	APR 4th																													
10	9	75	9			46	42	37	71	15	6	APR 5th																													
13	10	37	10			50	44	36	59	26	12	APR 6th																													
16	10	50	6	TRW		41	39	37	86	35	12	APR 7th																													
19	4	UNL	12			42	39	36	79	29	6	APR 8th																													
22	1	UNL	15			42	38	33	71	29	8	APR 9th																													
01	0	UNL	15			39	37	33	79	12	4	APR 10th																													
04	0	UNL	10			37	35	33	86	00	0	APR 11th																													
07	1	UNL	4	F		40	38	36	86	21	4	APR 12th																													
10	6	UNL	8			53	46	39	59	20	13	APR 13th																													
13	7	UNL	10			61	51	40	46	15	11	APR 14th																													
16	10	UNL	10			57	48	39	51	17	13	APR 15th																													
19	0	UNL	15			51	46	41	69	16	11	APR 16th																													
22	0	UNL	15			48	46	44	86	13	3	APR 17th																													
01	0	UNL	10			57	52	48	72	21	3	APR 18th																													
04	4	UNL	7			51	49	47	86	24	5	APR 19th																													
07	3	UNL	7			55	52	50	83	24	5	APR 20th																													
10	3	UNL	9			75	61	50	42	22	9	APR 21th																													
13	2	UNL	10			82	64	51	34	23	14	APR 22th																													
16	0	UNL	12			84	63	47	28	24	12	APR 23th																													
19	0	UNL	15			75	61	50	42	22	7	APR 24th																													
22	0	UNL	15			66	58	52	61	23	6	APR 25th																													
01	4	UNL	10			65	59	55	70	22	6	APR 26th																													
04	4	UNL	10			61	57	54	78	20	3	APR 27th																													
07	9	UNL	15			63	59	56	78	24	7	APR 28th																													
10	8	200	15			67	51	33	28	31	18	APR 29th																													
13	3	UNL	15			67	52	36	32	26	15	APR 30th																													
16	3	UNL	15			71	54	36	28	27	12	MAY 1st																													
19	0	UNL	15			61	49	35	38	30	15	MAY 2nd																													
22	0	UNL	15			49	40	28	44	28	20																														
01	2	UNL	10			44	40	34	68	18	10	MAY 3rd																													
04	8	120	10			43	39	34	71	18	8	MAY 4th																													
07	10	120	15			45	40	32	61	18	9	MAY 5th																													
10	10	60	10	R		47	44	40	77	14	14	MAY 6th																													
13	10	40	7	R		46	45	43	89	20	5	MAY 7th																													
16	10	7	2	R	RF	46	46	45	96	12	7	MAY 8th																													
19	10	5	2	R	RF	45	45	45	100	06	10	MAY 9th																													
22	10	5	2	R	RF	45	45	44	96	05	15																														
01	0	UNL	4	F		49	49	48	96	24	4	MAY 10th																													
04	10	0	0	F		48	48	48	100	21	4	MAY 11th																													
07	0	UNL	20			49	49	48	96	23	6	MAY 12th																													
10	0	UNL	20			68	56	46	45	30	15	MAY 13th																													
13	4	UNL	20			73	58	46	38	27	14	MAY 14th																													
16	3	UNL	15			75	59	47	37	25	12	MAY 15th																													
19	2	UNL	12			67	56	47	49	21	8	MAY 16th																													
22	2	UNL	12			61	53	45	56	22	8																														
01	0	UNL	15			57	50	44	62	20	3	MAY 17th																													
04	10	0	0			53	49	45	74	35	6	MAY 18th																													
07	0	UNL	20			53	51	49	86	00	0	MAY 19th																													
10	0	UNL	20			65	57	50	59	28	5	MAY 20th																													
13	4	UNL	20			72	60	50	46	07	8	MAY 21th																													
16	3	UNL	15			74	59	46	37	06	5	MAY 22th																													
19	2	UNL	12			62	57	52	70	01	8	MAY 23th																													
22	2	UNL	12			54	51	49	83	04	12																														

WEATHER CODES

* TORNAO	ZL FREEZING DRIZZLE	IPW ICE PELLET SHOWERS	BN BLOWING SAND
T THUNDERSTORM	S SNOW	A HAIL	BS BLOWING SNOW
O 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

APR 1991
WILMINGTON, DE 13781

HOUR L.S.T.	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	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																																	
APR 19th																																APR 20th																																APR 21st																															
01	0	UNL	15		44	42	39	83	06	5	10	24	15		44	41	38	80	10	9	10	49	4		RF	47	47	46	96	05	14																																																																
04	0	UNL	15		43	41	39	86	07	7	10	21	15		45	42	39	80	08	11	10	13	5		RF	45	45	44	96	03	12																																																																
07	10	UNL	15		44	41	37	77	08	8	10	12	12		46	44	42	86	08	11	10	27	4		RF	45	44	43	93	03	15																																																																
10	10	250	10		50	44	36	59	06	9	10	16	10		50	46	42	74	08	13	10	16	6		RF	46	46	45	96	33	9																																																																
13	10	250	10		53	46	39	59	14	10	10	21	8	R	50	47	44	80	07	11	10	31	5		RF	48	47	46	93	31	9																																																																
16	10	250	8		51	46	41	69	16	12	10	15	7		50	48	45	83	06	17	10	47	10		R	47	46	44	89	32	10																																																																
19	9	200	10		48	43	38	69	14	11	10	10	7		47	46	44	89	06	14	10	55	6		RF	44	43	42	93	30	10																																																																
22	1	UNL	10		44	41	37	77	14	8	10	15	7		48	46	43	83	06	8	10	34	7		R	45	45	44	96	29	11																																																																
APR 22nd																																APR 23rd																																APR 24th																															
01	10	20	10	R	42	41	39	89	27	13	1	UNL	10		49	44	37	64	27	8	4	UNL	10			52	49	45	77	19	7																																																																
04	10	36	15	R	43	42	40	89	27	11	0	UNL	10		45	41	36	71	25	3	10	110	10			52	49	45	77	19	4																																																																
07	10	65	20	R	44	42	39	83	27	15	4	UNL	10		47	44	40	77	23	4	9	110	6	H	53	50	47	80	16	6																																																																	
10	10	25	15	R	48	44	39	71	24	14	1	UNL	15		61	51	41	48	24	8	10	45	5	RF	55	54	53	93	10	4																																																																	
13	10	47	10		54	47	39	57	26	16	2	UNL	15		65	51	37	36	24	11	10	22	7			60	56	53	78	12	10																																																																
16	10	46	10		54	46	38	55	27	10	0	UNL	15		66	52	38	36	19	12	10	65	8			52	51	49	90	01	7																																																																
19	10	65	10		52	46	40	64	29	4	1	UNL	15		59	51	42	54	20	7	10	60	10			51	49	47	86	13	6																																																																
22	10	100	10		51	46	40	66	25	7	6	90	10		53	49	45	74	17	4	10	65	10			51	47	43	74	35	10																																																																
APR 25th																																APR 26th																																APR 27th																															
01	7	60	10		50	47	43	77	30	7	10	UNL	10		53	50	46	77	02	2	0	UNL	6	F	55	55	54	97	19	5																																																																	
04	0	UNL	8		47	45	42	83	30	5	5	UNL	7		50	48	46	86	00	0	0	UNL	6	F	52	51	50	93	00	0																																																																	
07	0	UNL	8		51	47	43	74	31	9	10	UNL	7		54	51	48	80	00	0	3	UNL	4	F	57	55	54	90	00	0																																																																	
10	0	UNL	12		65	55	46	50	31	5	10	UNL	10		68	58	50	53	23	5	2	UNL	10			69	62	57	66	24	5																																																																
13	0	UNL	15		71	56	42	35	31	8	9	UNL	12		72	57	45	38	23	5	8	UNL	10			76	65	58	54	24	7																																																																
16	1	UNL	15		70	56	44	39	27	3	3	UNL	10		72	59	48	43	12	8	2	UNL	8			79	66	58	49	22	5																																																																
19	6	UNL	15		63	52	40	43	28	3	6	110	8		60	55	51	72	12	6	6	UNL	8			72	64	59	64	22	4																																																																
22	10	250	15		59	51	44	58	30	4	4	UNL	7		57	55	53	87	18	6	6	UNL	7			66	62	60	81	17	5																																																																
APR 28th																																APR 29th																																APR 30th																															
01	3	UNL	7		64	62	61	90	00	0	10	16	8		53	50	46	77	08	8	10	3	2	8	F	55	55	54	97	10	3																																																																
04	3	UNL	7		59	58	58	97	00	0	10	11	7		53	51	49	86	07	8	10	1	0	10	F	54	54	54	100	09	6																																																																
07	10	100	2	8	63	62	62	97	07	5	10	13	6	F	53	51	49	86	08	8	10	1	0	6	LF	54	54	54	100	07	7																																																																
10	10	50	8		62	56	51	67	06	12	10	21	5	F	54	54	53	96	07	6	10	4	0	8	F	59	58	57	93	00	0																																																																
13	10	120	15		67	56	47	49	08	11	10	20	10		61	57	53	75	07	5	10	13	5		F	67	63	61	81	23	4																																																																
16	10	75	10		63	54	46	54	08	14	10	19	8		62	58	54	75	11	8	7	100	7			76	68	63	64	00	0																																																																
19	10	37	8		56	51	46	69	10	14	10	18	8		61	57	54	78	11	3	8	250	5		F	70	66	64	81	00	0																																																																
22	10	29	8		55	50	46	72	11	10	10	12	7		57	55	53	87	12	5	2	UNL	7			62	61	61	97	26	5																																																																

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	DEN POINT OF				
01	4	29.990	50	46	43	78	7.9	36	0.5
04	5	29.985	48	45	42	82	7.1	01	1.5
07	7	30.010	49	46	43	82	7.8	38	1.1
10	7	30.020	57	51	44	63	11.1	30	2.5
13	7	29.980	62	53	44	55	11.7	25	3.1
16	7	29.950	62	53	43	55	10.6	23	1.4
19	7	29.960	57	51	44	64	8.4	17	1.6
22	5	29.990	53	49	44	73	9.2	21	1.0

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

APR 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		
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MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.07	0.14	0.18	0.18	0.20	0.24	0.30	0.35	0.38	0.38	0.38	0.38
ENDED: DATE	24	24	24	24	24	24	24	24	24	24	24	24
ENDED: TIME	1530	1530	1530	1538	1546	1530	1530	1538	1554	1554	1554	1554

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:
CHARLOTTE WARD

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