



LOCAL CLIMATOLOGICAL DATA Monthly Summary

GREATER WILMINGTON AIRPORT

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

JUN 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		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	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
01	89	71	80	13	62	0	15		0	0.00	0.0	29.700	32	5.8	7.9		12	03			6	5	
02	85	64	75	7	60	0	10		0	0.00	0.0	29.730	09	2.0	5.8		12	12			7	6	
03	86	69	78	10	63	0	13	1	8	0.00	0.0	29.670	14	2.3	6.5		17	15			9	8	
04	77	59	68	0	54	0	3	3	8	0.00	0.0	29.700	35	9.3	10.0		31	34			7	6	
05	75	53	64	-5	48	1	0			0.00	0.0	29.980	36	6.3	6.7		12	01			6	5	
06	74	50*	62*	-7	51	3	0			0.00	0.0	30.150	05	3.9	6.9		14	12			5	3	
07	82	51	67	-2	48	0	2			0.00	0.0	30.170	18	1.0	5.2		13	15			2	1	
08	85	57	71	2	49	0	6			0.00	0.0	30.010	29	8.9	9.3		15	32			2	1	
09	90	63	77	7	57	0	12			0.00	0.0	30.050	25	1.0	3.3		12	16			2	1	
10	91	63	77	7	59	0	12	1		0.00	0.0	30.000	24	3.5	5.2		12	27			5	4	
11	90	69	80	10	63	0	15	1	8	0.20	0.0	29.870	23	7.7	8.6		15	24			8	7	
12	86	65	76	5	64	0	11	1	8	0.03	0.0	29.780	26	6.0	6.9		23	25			7	7	
13	78	56	67	-4	46	0	2			0.00	0.0	29.940	31	8.7	9.6		17	32			0	0	
14	85	52	69	-2	49	0	4			0.00	0.0	30.005	27	1.7	4.7		9	14			1	1	
15	94	59	77	6	61	0	12			0.00	0.0	29.820	23	4.0	4.7		10	22			3	3	
16	97*	73	85	13	71	0	20	1	3	8	0.41	0.0	29.700	25	6.0	7.2		29	28			8	8
17	91	71	81	9	72	0	16	1	8	0.00	0.0	29.790	32	2.3	5.3		14	14			9	9	
18	71	62	67	-5	63	0	2	23		0.00	2.41	0.0	30.010	04	7.8	8.2		14	05			10	10
19	72	62	67	-5	64	0	2	1	8	0.00	0.02	0.0	30.010	01	2.4	2.6		6	35			10	10
20	90	66	78	6	69	0	13	1	8	0.00	0.00	29.925	26	3.0	4.7		9	29			4	6	
21	91	68	80	7	67	0	15	1	8	0.00	0.00	29.850	13	2.9	4.2			12			0	2	
22	81	69	75	2	69	0	10	1	8	0.00	0.00	29.820	08	4.1	5.8		12	04			10	9	
23	69	58	64	-9	60	1	0	1		0.12	0.00	29.970	04	7.7	7.7		14	03			10	8	
24	83	56	70	-3	55	0	5	1		0.00	0.00	30.120	13	1.8	5.3		12	15			4	3	
25	82	60	71	-2	57	0	6			0.00	0.00	30.160	16	4.0	5.4		15	15			3	3	
26	81	59	70	-4	56	0	5			0.00	0.00	30.150	17	5.3	5.9		16	16			3	3	
27	86	61	74	0	63	0	9			0.00	0.00	30.140	21	5.0	6.7		20	SW	13	16	3	4	
28	91	66	79	5	67	0	14		8	0.00	0.00	29.995	24	9.7	10.0		23	W	16	22	6	6	
29	95	74	85*	11	69	0	20	1	8	0.00	0.00	29.850	29	9.1	9.9		23	NW	17	31	5	4	
30	95	69	82	8	70	0	17	3	8	0.22	0.0	29.735	32	7.8	11.9		55	N	43	34	6	6	
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL									TOTAL	%	SUM	SUM
2542	1875					5	271			3.41	0.0	29.930	29	1.7	6.7				43	34		161	149
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.			PRECIPITATION	DEP.						DATE:	DATE:	POSSIBLE	MONTH	AVG.	AVG.	
84.7	62.5	73.6	2.4	60.1	-1	79				7	-0.10										5.4	5.0	
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		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS													
MAXIMUM TEMP.		MINIMUM TEMP.		4160		487		1		2.41		18-19+		0.0									
≥ 90°		≤ 32°		≤ 32°		≤ 0°		DEP.		DEP.		HEAVY FOG											
11		0		0		0		-826		252		CLEAR 10		PARTLY CLOUDY 12		CLOUDY 8							

* 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



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

JUN 1991 13781
WILMINGTON, DE

HOUR	L.S.T.	VISI-BILITY			TEMPERATURE				WIND			SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE				WIND												
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/8THS MILE	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)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/8THS MILE	WEATHER	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)					
JUN 1st																																
01	0	UNL	7		73	68	65	76	28	3	3	UNL	10			71	62	56	59	03	8	8	250	7			72	69	68	87	00	0
04	3	UNL	7		71	67	64	79	26	3	2	UNL	10			64	59	56	75	00	0	3	UNL	7			70	68	67	90	02	4
07	2	UNL	7		78	70	66	67	28	4	10	250	15			70	63	58	66	35	8	8	100	7			74	67	63	69	36	5
10	8	100	10		85	72	65	51	30	10	10	UNL	20			78	66	59	52	27	3	10	120	20			79	64	53	41	11	8
13	10	120	10		83	71	64	53	30	10	4	UNL	20			83	66	55	38	18	3	10	120	15			82	67	58	44	11	3
16	6	UNL	15		88	70	60	39	31	8	6	55	15			84	69	61	46	13	9	9	UNL	9			82	69	61	49	14	11
19	8	UNL	10		83	68	59	44	02	7	10	130	10			81	68	61	51	16	5	8	110	5	H		76	72	70	82	17	12
22	4	UNL	10		75	64	57	54	03	9	4	UNL	10			74	71	69	85	12	10	4	UNL	6	H		71	68	66	84	00	0
JUN 2nd																																
JUN 3rd																																
JUN 4th																																
JUN 5th																																
JUN 6th																																
JUN 7th																																
JUN 8th																																
JUN 9th																																
JUN 10th																																
JUN 11th																																
JUN 12th																																
JUN 13th																																
JUN 14th																																
JUN 15th																																
JUN 16th																																
JUN 17th																																
JUN 18th																																

WEATHER CODES

- | | | | |
|------------------|---------------------|-------------------------|------------------|
| * TORNAO | ZL FREEZING DRIZZLE | IPW ICE PELLETT SHOWERS | BN BLOWING SAND |
| T THUNDERSTORM | S SNOW | A HAIL | BS BLOWING SNOW |
| Q SQUALL | SM 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

JUN 1991
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	1/8THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/8THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		
JUN 19th																							
01	10	15	2	8	LF	62	62	62	100	00	0	0	10	21	7		69	67	66	90	00	0	
04	10	5	1	8	LF	62	62	62	100	00	0	0	10	100	7		68	67	66	93	00	0	
07	10	3	1	4	LF	63	62	62	97	00	0	0	4	UNL	2	8	F	72	69	67	84	29	5
10	10	9	10			66	64	63	90	36	4	4	0	UNL	5	H	80	73	69	69	27	5	
13	10	16	8			70	67	65	84	36	3	3	3	UNL	6	H	89	75	68	50	00	0	
16	10	16	7			71	67	65	81	05	5	5	7	UNL	7	H	89	75	69	52	23	4	
19	10	17	6		H	70	67	65	84	02	3	3	9	UNL	7	H	84	75	70	63	27	6	
22	10	20	6		H	69	67	65	87	00	0	0	7	UNL	6	H	77	73	71	82	29	8	
JUN 20th																							
JUN 21st																							
01	10	15	2	8	LF	62	62	62	100	00	0	0	10	21	7		69	67	66	90	00	0	
04	10	5	1	8	LF	62	62	62	100	00	0	0	10	100	7		68	67	66	93	00	0	
07	10	3	1	4	LF	63	62	62	97	00	0	0	4	UNL	2	8	F	72	69	67	84	29	5
10	10	9	10			66	64	63	90	36	4	4	0	UNL	5	H	80	73	69	69	27	5	
13	10	16	8			70	67	65	84	36	3	3	3	UNL	6	H	89	75	68	50	00	0	
16	10	16	7			71	67	65	81	05	5	5	7	UNL	7	H	89	75	69	52	23	4	
19	10	17	6		H	70	67	65	84	02	3	3	9	UNL	7	H	84	75	70	63	27	6	
22	10	20	6		H	69	67	65	87	00	0	0	7	UNL	6	H	77	73	71	82	29	8	
JUN 22nd																							
JUN 23rd																							
JUN 24th																							
01	5	UNL	10			75	72	70	85	00	0	0	10	100	15		69	63	59	71	04	10	
04	9	160	5		FH	74	72	71	90	00	0	0	10	41	15		68	62	58	71	04	10	
07	10	160	2		FH	76	74	73	91	00	0	0	10	95	10	R	63	62	61	93	04	12	
10	10	120	2		H	80	75	73	79	05	7	7	10	14	7	R	63	62	61	93	04	10	
13	10	55	3		FH	78	75	74	88	16	10	10	10	14	8	R	64	61	59	84	04	8	
16	10	100	5		H	77	71	68	74	16	5	5	10	26	10		66	64	62	87	03	5	
19	10	100	6		H	75	70	67	76	03	8	8	3	UNL	10		67	63	61	81	05	6	
22	10	100	8			70	63	58	66	04	7	7	0	UNL	8		60	60	60	100	00	0	
JUN 25th																							
JUN 26th																							
JUN 27th																							
01	0	UNL	10			64	60	57	78	00	0	0	1	UNL	15		63	57	52	68	18	3	
04	0	UNL	10			61	59	57	87	00	0	0	1	UNL	15		61	56	52	72	00	0	
07	1	UNL	7			65	62	60	84	00	0	0	1	UNL	20		67	60	54	63	00	0	
10	0	UNL	12			78	65	57	49	27	4	4	1	UNL	20		76	64	55	48	25	6	
13	4	UNL	12			81	64	52	37	12	9	9	1	UNL	20		80	65	55	42	16	8	
16	5	UNL	10			78	66	58	50	16	11	11	8	UNL	15		80	67	59	49	16	14	
19	7	UNL	10			75	66	61	62	18	8	8	10	UNL	15		73	66	61	66	20	10	
22	4	UNL	10			69	61	55	61	18	5	5	4	UNL	15		70	63	58	66	18	5	
JUN 28th																							
JUN 29th																							
JUN 30th																							
01	10	UNL	10			70	66	63	79	23	9	9	2	UNL	6	H	78	74	72	82	25	11	
04	1	UNL	10			67	65	64	90	25	4	4	0	UNL	7		74	71	69	85	29	6	
07	4	UNL	12			73	69	66	79	25	7	7	2	UNL	2	8	H	80	73	69	69	28	8
10	7	UNL	10			83	73	68	61	22	5	5	2	UNL	4	H	90	75	68	48	31	15	
13	10	UNL	6		H	89	75	68	50	25	11	11	4	UNL	6	H	94	76	68	43	26	12	
16	5	UNL	5		H	90	74	67	47	24	12	12	6	100	7	H	93	76	68	44	32	11	
19	3	UNL	5		H	85	73	67	55	22	10	10	10	110	8	H	89	75	68	50	26	6	
22	3	UNL	5		H	80	73	70	72	24	11	11	4	UNL	7	H	83	74	69	63	28	4	

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	AVERAGES						RESULTANT WIND	
		STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	4	29.920	67	64	61	82	4.6	30	2.0
04	4	29.920	65	62	60	85	3.8	32	2.2
07	5	29.950	70	65	61	76	5.9	31	3.8
10	5	29.960	78	67	60	56	7.9	31	3.8
13	6	29.930	82	67	58	48	8.8	27	1.8
16	6	29.900	82	68	58	47	9.8	29	2.3
19	6	29.900	77	67	61	59	8.0	20	1.9
22	4	29.930	71	65	62	74	6.7	18	0.9

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUN 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																								05	
06																								06	
07																								07	
08																								08	
09																								09	
10																								10	
11																								11	
12		T	T	T			T	0.03			T										0.08	0.12	T	12	
13																								13	
14																								14	
15																								15	
16																								16	
17																								17	
18																								18	
19	T	T	0.01	0.08	0.14	0.72	0.18	0.06	0.02	0.16	0.23	0.16	0.16	T	T	0.06	0.39	0.01	0.01	T	T	0.01	T	0.01	19
20			0.01	0.01	T	T	T	T	T																20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																	0.22	T							30

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.19	0.32	0.40	0.47	0.59	0.69	0.76	0.83	0.89	0.94	1.00	1.05
ENDED: DATE	18	18	18	18	18	18	18	18	18	18	18	18
ENDED: TIME	0550	0555	0600	0604	0610	0616	0619	0625	0634	0654	0724	0724

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

SUBSCRIPTION PRICE AND ORDERING INFORMATION AVAILABLE FROM:
THE NATIONAL CLIMATIC DATA CENTER, FEDERAL BUILDING
ASHEVILLE, NORTH CAROLINA 28801
ATTN: PUBLICATIONS

WILMINGTON, DE
USCOMM - NOAA - ASHEVILLE, NC 225

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

AN EQUAL OPPORTUNITY EMPLOYER

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
COM 210



FIRST CLASS