

JUN 1988  
 WILMINGTON, DE  
 NAT'L WEA 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

JUN 1988  
 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 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		MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
																SPEED	DIRECTION	SPEED	DIRECTION						
01	92	62	77	10	61	0	12	3	8	0	0.12	0.0	29.660	30	9.3	11.7	44	N	30	36			2	4	
02	68	54	61	-7	43	4	0			0	0.00	0.0	29.810	08	5.9	11.5	25	N	15	16			9	9	
03	64	52	58	-10	41	7	0			0	0.00	0.0	29.840	08	9.1	9.7	24	E	14	07			9	9	
04	66	45*	56*	-12	45	9	0			0	T	0.0	29.890	33	5.6	7.6	17	NW	10	32			8	6	
05	83	49	66	-3	46	0	1			0	0.00	0.0	29.750	28	13.4	13.9	37	NW	20	26			1	3	
06	85	62	74	5	49	0	9			0	0.00	0.0	29.670	30	9.4	10.7	28	NW	18	30			8	8	
07	89	66	78	9	59	0	13	3		0	0.03	0.0	29.590	34	6.1	8.0	26	NW	15	31			9	9	
08	71	60	66	-3	45	0	1			0	T	0.0	29.670	06	2.9	5.8	14	NE	10	01			9	9	
09	62	51	57	-13	49	8	0	1		0	0.06	0.0	29.735	02	5.6	8.1	23	NE	15	03			10	9	
10	69	46	58	-12	39	7	0			0	0.00	0.0	29.950	34	8.3	9.0	18	NW	15	30			1	2	
11	77	46	62	-8	43	3	0			0	0.00	0.0	29.980	32	7.5	8.8	23	NW	15	32			1	1	
12	87	57	72	1	50	0	7			0	0.00	0.0	29.980	29	8.6	9.4	23	NW	16	32			4	4	
13	92	62	77	6	57	0	12			0	0.00	0.0	30.080	29	6.2	7.1	16	NW	13	33			8	7	
14	95	65	80	9	58	0	15		8	0	0.00	0.0	30.150	29	5.2	6.1	16	NW	10	26			4	3	
15	94	68	81	10	62	0	16	1	8	0	0.00	0.0	30.070	23	5.4	6.3	18	W	13	22			0	1	
16	91	69	80	8	68	0	15	1	8	0	0.00	0.0	29.920	19	5.8	7.7	21	SW	14	17			4	5	
17	80	69	75	3	63	0	10	1	8	0	0.00	0.0	29.880	36	5.1	6.0	16	N	12	36			10	10	
18	85	66	76	4	64	0	11	1	8	0	0.00	0.0	30.030	13	3.4	7.7	22	NE	16	16			4	4	
19	84	64	74	2	65	0	9	1	8	0	0.00	0.0	30.100	17	8.0	8.3	23	S	17	16			1	2	
20	92	69	81	9	67	0	16	1	8	0	0.00	0.0	29.970	22	7.5	8.8	20	SW	13	21			2	3	
21	95	73	84	11	67	0	19		8	0	0.00	0.0	29.835	28	5.6	7.0	18	NW	13	32			3	3	
22	98*	71	85*	12	69	0	20	1	8	0	0.00	0.0	29.770	24	8.7	9.4	24	SW	17	24			6	6	
23	95	68	82	9	63	0	17		8	0	0.00	0.0	29.780	31	4.8	10.6	24	NW	17	35			7	5	
24	80	58	69	-4	48	0	4			0	0.00	0.0	30.090	12	3.7	9.7	25	S	18	18			3	2	
25	78	59	69	-4	57	0	4			0	0.00	0.0	29.960	18	10.4	10.9	26	S	18	17			5	5	
26	91	63	77	3	59	0	12			0	T	0.0	29.640	30	4.8	10.3	30	NW	16	34			7	7	
27	82	56	69	-5	49	0	4			0	0.00	0.0	29.795	36	7.4	8.8	25	N	15	36			3	2	
28	85	57	71	-3	47	0	6			0	0.00	0.0	29.830	28	5.5	7.3	22	W	14	27			3	4	
29	84	63	74	0	50	0	9			0	T	0.0	29.740	32	6.0	8.1	18	NW	12	29			5	5	
30	77	52	65	-9	41	0	0			0	0.00	0.0	29.690	32	9.5	10.5	25	NW	16	31			3	2	
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS			TOTAL	TOTAL	FOR THE MONTH:						TOTAL	%	SUM	SUM			
2491	1802					38	242				0.21	0.0	29.860	30	3.0	8.8	44	N	30	36			for	149	149
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	32	50	PRECIPITATION			DEP.						DATE: 1	DATE: 1	POSSIBLE	MONTH	AVG.	AVG.			
83.0	60.1	71.6	0.4	54.1				≥ .01 INCH.		3	-3.30												5.0	5.0	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES						GREATEST DEPTH ON GROUND OF									
MAXIMUM TEMP.		MINIMUM TEMP.		5005		304		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS													
≥ 90°		≤ 32°		≤ 32°		≤ 0°		HEAVY FOG		0		0.12 01		0.0											
10		0		0		0		19		69		CLEAR 12		PARTLY CLOUDY 9		CLOUDY 9									

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 † 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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**noaa**

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

JUN 1988 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)											
JUN 1st																																	
01	5	UNL	8			69	64	60	73	31	5	9	90	15			61	54	48	63	35	13	10	70	15			53	49	45	74	11	7
04	0	UNL	8			67	63	61	81	26	4	9	95	15			58	53	49	72	36	7	10	50	10			52	48	44	74	09	6
07	0	UNL	8			76	67	62	62	30	8	9	200	15			55	47	39	55	02	6	9	250	15			55	50	44	67	08	10
10	0	UNL	8			84	70	62	48	30	12	9	250	15			60	50	40	48	06	9	8	UNL	15			61	50	38	43	08	12
13	0	UNL	8			88	70	59	38	30	15	9	UNL	15			64	51	38	38	08	10	10	55	15			62	50	37	40	07	12
16	2	UNL	7			89	72	63	42	28	15	9	250	15			67	53	40	37	15	7	9	70	15			62	51	39	43	06	8
19	8	250	6		H	74	68	65	74	26	10	10	60	15			59	52	46	62	16	12	3	UNL	15			59	48	36	42	06	7
22	6	250	7			75	66	60	60	30	10	10	75	15			55	50	44	67	13	10	10	70	15			57	48	39	51	09	9
JUN 2nd																																	
JUN 3rd																																	
JUN 4th																																	
JUN 5th																																	
JUN 6th																																	
JUN 7th																																	
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JUN 13th																																	
JUN 14th																																	
JUN 15th																																	
JUN 16th																																	
JUN 17th																																	
JUN 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

JUN 1988  
WILMINGTON, DE 13781

HOUR L.S.T.	JUN 19th										JUN 20th										JUN 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	0	UNL	5	H	67	65	64	90	00	0	2	UNL	2	FH	71	69	68	90	17	7	0	UNL	4	H	76	71	69	79	24	7	
04	1	UNL	2	8 FH	66	65	64	93	00	0	10	14	12	FH	71	70	69	93	19	6	0	UNL	3	H	74	71	69	85	00	0	
07	1	UNL	2	4	70	66	63	79	22	3	5	UNL	2	8 FH	73	70	69	87	21	6	2	UNL	2	4	H	78	73	71	79	25	8
10	1	UNL	4	H	79	71	66	65	17	7	0	UNL	5	H	82	74	70	67	25	7	2	UNL	4	H	88	73	66	48	32	7	
13	0	UNL	8	H	83	69	60	46	17	14	0	UNL	6	H	90	74	67	47	26	7	4	UNL	5	H	93	75	66	41	32	9	
16	0	UNL	9	H	83	70	63	51	16	15	0	UNL	5	H	91	73	64	41	27	8	2	UNL	6	H	95	75	65	37	32	11	
19	3	UNL	2	12	73	69	67	82	17	12	0	UNL	5	H	86	72	64	48	24	10	7	60	6	H	91	74	66	44	28	6	
22	7	5	3	H	70	68	67	90	15	10	0	UNL	6	H	80	72	68	67	22	7	3	UNL	5	H	86	72	64	48	00	0	
JUN 22nd										JUN 23rd										JUN 24th											
01	3	UNL	3	H	76	73	71	85	00	0	6	UNL	4	H	83	75	71	67	23	7	0	UNL	10		66	54	43	43	04	8	
04	1	UNL	2	H	74	70	68	82	00	0	6	UNL	3	H	79	74	72	79	24	8	1	UNL	10		60	52	44	56	36	6	
07	3	UNL	2	H	80	74	71	74	25	6	7	UNL	3	H	82	75	71	69	24	9	8	UNL	15		65	55	46	50	04	8	
10	7	UNL	4	H	93	76	69	46	24	9	3	UNL	5	H	92	76	68	46	29	12	3	UNL	15		73	58	45	37	07	10	
13	4	UNL	5	H	98	77	68	38	25	12	10	45	5	H	89	75	68	50	32	12	1	UNL	15		78	59	43	29	09	9	
16	10	UNL	5	H	96	77	68	40	24	11	9	70	9		84	72	65	53	36	7	0	UNL	15		77	64	56	48	18	11	
19	9	200	4	H	91	76	69	49	24	10	6	UNL	10		81	65	55	41	02	10	0	UNL	15		70	62	56	61	17	13	
22	9	200	4	H	86	76	72	63	22	10	0	UNL	12		72	58	47	41	05	11	0	UNL	15		65	58	53	65	15	9	
JUN 25th										JUN 26th										JUN 27th											
01	4	UNL	10		60	56	53	78	21	5	3	UNL	10		70	65	62	76	20	10	3	UNL	10		62	55	49	63	33	6	
04	6	UNL	9		59	55	51	75	00	0	7	UNL	10		70	65	62	76	19	7	1	UNL	15		57	53	49	75	31	7	
07	0	UNL	15		65	59	54	68	24	4	1	UNL	7		76	70	67	74	23	10	0	UNL	20		63	55	49	61	35	12	
10	3	UNL	15		73	62	55	53	16	11	6	100	7		83	74	70	65	27	8	4	UNL	20		72	59	48	43	02	12	
13	8	UNL	15		77	64	55	47	17	15	8	80	8		83	72	67	59	24	8	4	UNL	20		78	61	47	34	36	9	
16	10	UNL	15		78	66	59	52	17	16	10	200	15		85	65	52	32	33	9	6	60	20		80	61	47	31	04	10	
19	5	UNL	15		73	67	63	71	18	13	10	200	12		73	60	51	46	34	12	2	UNL	15		77	60	46	33	32	5	
22	4	UNL	12		72	64	59	64	19	11	9	200	12		67	57	49	53	36	9	0	UNL	15		68	58	50	53	00	0	
JUN 28th										JUN 29th										JUN 30th											
01	2	UNL	10		62	60	58	87	36	3	10	75	10		73	60	50	45	25	6	0	UNL	10		61	51	42	50	02	5	
04	0	UNL	10		57	54	51	81	34	4	10	75	10		73	59	47	40	26	5	0	UNL	10		53	49	44	72	32	6	
07	0	UNL	12		68	59	51	55	34	5	6	70	12		72	60	51	48	32	5	1	UNL	15		63	53	44	50	31	9	
10	1	UNL	15		80	61	45	29	34	5	2	UNL	15		78	63	52	41	04	5	3	UNL	15		70	56	43	38	32	10	
13	3	UNL	15		83	60	41	23	30	6	5	UNL	15		83	65	52	34	32	10	7	55	15		75	58	43	32	29	13	
16	9	230	15		82	59	40	23	27	12	6	50	15		82	64	52	36	27	10	6	85	15		75	58	43	32	31	14	
19	10	100	15		79	60	44	29	24	6	7	70	15		79	63	52	39	29	10	0	UNL	15		71	53	35	27	35	11	
22	10	100	15		72	59	48	43	22	5	0	UNL	10		70	55	42	36	36	9	0	UNL	15		61	50	38	43	35	8	

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	29.870	65	59	54	69	5.8	29	1.9
04	5	29.860	63	58	54	75	5.4	31	2.9
07	4	29.890	67	60	54	64	7.9	32	4.2
10	4	29.890	76	63	54	48	10.4	34	4.3
13	5	29.860	80	64	53	41	11.3	30	4.6
16	6	29.830	80	65	54	42	11.3	28	4.6
19	6	29.840	75	63	54	50	9.4	25	3.5
22	5	29.860	70	61	54	60	7.8	25	1.5

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUN 1988  
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																0.02	0.10						T	T	01
02																									02
03																									03
04																									04
05																									05
06																									06
07																									07
08																0.01	0.02	T							08
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30																									30

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.05	0.07	0.07	0.08	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.12
ENDED: DATE	01	01	01	01	01	01	01	01	01	01	01	01
ENDED: TIME	1714	1720	1720	1726	1726	1726	1726	1730	1730	1730	1730	1730

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:  
DON GRISINGER

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