

JUL 1987  
 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

JUL 1987  
WILMINGTON, DE

DATE	TEMPERATURE °F				DEGREE DAYS BASE 65°F		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 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	DIRECTION	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
01	88	67	78	3	70	0	13	1 3	8	0	0.42	0.0	29.930	16	2.2	5.5	22	S	16	17	9	8		
02	86	71	79	4	73	0	14	1		0	1.37	0.0	29.860	23	5.1	8.4	29	SW	13	24	10	10		
03	87	73	80	5	70	0	15	1		0	7	0.0	29.840	24	8.6	8.6	17	SW	15	24	6	7		
04	87	74	81	6	72	0	16		8	0	0.00	0.0	29.820	24	8.6	8.9	18	SW	14	23	9	9		
05	86	72	79	4	63	0	14		8	0	0.00	0.0	29.930	07	4.0	8.8	20	NE	14	16	9	9		
06	83	68	76	1	63	0	11			0	0.00	0.0	30.040	13	8.3	9.6	20	SE	15	16	8	8		
07	78	67	73	-2	68	0	8	1	8	0	0.01	0.0	29.980	15	7.9	9.0	16	S	13	15	10	10		
08	91	73	82	6	74	0	17	1 3	8	0	0.09	0.0	29.920	22	4.3	6.9	16	NW	12	16	7	6		
09	93	74	84	8	73	0	19	1	8	0	0.00	0.0	29.905	28	3.7	5.9	17	W	15	28	6	5		
10	87	74	81	5	72	0	16	1	8	0	7	0.0	29.870	31	6.0	7.2	16	NW	10	30	9	8		
11	95	75	85	9	72	0	20	1	8	0	7	0.0	29.870	34	2.3	7.3	21	SE	12	14	5	6		
12	92	71	82	6	73	0	17	1 3	8	0	0.10	0.0	29.850	15	0.8	5.5	36	W	21	16	5	5		
13	88	68	78	2	73	0	13	1	8	0	0.00	0.0	29.780	17	5.0	7.5	20	S	15	17	2	2		
14	88	63	76	0	70	0	11	1 3	8	0	0.76	0.0	29.680	27	3.2	9.8	38	SW	30	20	9	8		
15	77	60	69*	-7	53	0	4			0	0.00	0.0	29.880	31	7.7	8.9	22	N	14	35	1	1		
16	79	60	70	-6	54	0	5			0	0.00	0.0	30.020	02	5.5	6.1	16	N	10	02	6	4		
17	83	58*	71	-5	55	0	6			0	0.00	0.0	30.190	34	1.9	6.1	16	NE	9	03	0	0		
18	89	61	75	-1	63	0	10			0	0.00	0.0	30.080	26	5.6	6.8	18	NW	10	22	1	0		
19	93	68	81	5	68	0	16		8	0	0.00	0.0	30.010	32	4.5	6.9	16	NW	12	31	4	4		
20	94	72	83	7	71	0	18	1	8	0	0.00	0.0	29.990	26	6.6	7.6	25	SW	15	24	8	7		
21	98*	74	86	10	70	0	21	1	8	0	7	0.0	29.960	34	6.8	7.6	21	NW	15	33	1	2		
22	95	75	85	8	70	0	20			0	0.00	0.0	29.980	01	4.9	7.8	17	N	14	36	1	1		
23	95	73	84	7	69	0	19	1		0	0.00	0.0	29.980	33	2.3	5.9	15	W	10	16	2	1		
24	95	74	85	8	73	0	20	1	8	0	0.00	0.0	30.010	21	7.5	8.2	18	SW	14	24	2	1		
25	96	78	87*	10	72	0	22		8	0	0.00	0.0	29.970	25	4.5	6.4	16	SW	9	17	6	7		
26	93	69	81	4	72	0	16	1 3 5	8	0	1.20	0.0	29.830	26	4.6	7.2	66	NW	46	32	8	7		
27	89	68	79	2	66	0	14	1		0	0.00	0.0	29.810	31	1.8	5.6	17	NW	10	30	3	3		
28	87	69	78	1	58	0	13	1		0	0.00	0.0	29.820	36	8.4	9.1	21	N	16	02	1	2		
29	84	64	74	-2	55	0	9			0	0.00	0.0	29.920	03	4.8	7.8	17	SE	14	03	1	1		
30	89	67	78	2	67	0	13		8	0	0.00	0.0	29.900	16	3.7	6.3	20	E	13	09	5	5		
31	89	72	81	5	70	0	16		8	0	0.14	0.0	29.870	06	3.7	7.9	15	NE	14	02	6	8		
SUM	2754	2152				TOTAL	TOTAL				TOTAL	TOTAL	29.920	28	1.5	7.5	66	NW	46	32	TOTAL	%	SUM	SUM
AVG.	88.8	69.4	79.1	3.1	67.3	0	105	PRECIPITATION	0.01 INCH.	8	0.19							DATE: 26	DATE: 26	POSSIBLE		159	155	
NUMBER OF DAYS		SEASON TO DATE		TOTAL		TOTAL		SNOW, ICE PELLETS ≥ 1.0 INCH		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE												
MAXIMUM TEMP		MINIMUM TEMP		TOTAL		TOTAL		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS												
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	0	804	HEAVY FOG	0	1.77	01-02	0.0												
12	0	0	0	0	0	0	228	CLEAR	11	PARTLY CLOUDY	10	CLOUDY	10											

\* 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.

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.

**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

JUL 1987  
WILMINGTON, DE 13781

HOUR L.S.T.	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	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)
JUL 1st																															
01	10	140	7	71	70	69	93	32	4	10	5	2	F	71	70	70	97	00	0	10	20	8				77	74	73	88	24	10
04	3	UNL	7	69	68	67	93	00	0	10	8	1	RWF	71	71	71	100	09	7	8	UNL	8				74	73	72	94	24	6
07	8	UNL	7	73	70	69	87	00	0	10	4	1	RWF	72	71	71	97	08	6	7	250	6			F	76	74	73	91	24	7
10	10	UNL	5	80	73	69	69	16	6	10	4	2	F	76	74	73	91	24	8	8	80	8				82	73	69	65	24	8
13	8	UNL	5	85	75	71	63	18	6	10	32	7	F	82	77	75	79	24	5	6	45	7				86	73	66	51	24	11
16	8	UNL	5	85	77	73	67	17	12	8	100	9	F	85	78	75	72	24	8	3	UNL	8				87	74	67	52	24	7
19	10	95	5	80	76	74	82	17	7	10	100	8	F	79	76	74	85	24	9	5	UNL	8				83	74	69	63	24	4
22	10	95	3	71	70	70	97	09	5	10	110	10		77	74	72	85	24	10	8	250	7				78	72	69	74	24	9
JUL 2nd																															
JUL 3rd																															
JUL 4th																															
JUL 5th																															
JUL 6th																															
JUL 7th																															
JUL 8th																															
JUL 9th																															
JUL 10th																															
JUL 11th																															
JUL 12th																															
JUL 13th																															
JUL 14th																															
JUL 15th																															
JUL 16th																															
JUL 17th																															
JUL 18th																															

WEATHER CODES

- \* TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SW SNOW SHOWERS
- SG SNOW GRAINS
- SP SNOW PELLETS
- IC ICE CRYSTALS
- IP ICE PELLETS
- IPW ICE PELLET SHOWERS
- A HAIL
- F FOG
- IF ICE FOG
- GF GROUND FOG
- BD BLOWING DUST
- BN BLOWING SAND
- BS BLOWING SNOW
- BY BLOWING SPRAY
- K SMOKE
- H HAZE
- D DUST

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

JUL 1987  
WILMINGTON, DE 13781

HOUR L.S.T.	SKY COVER (TENTHS)			VISI-BILITY		WEATHER	TEMPERATURE			WIND			SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE			WIND													
	0-3	4-7	8-10	WHOLE MILES	16THS MILE		AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		0-3	4-7	8-10		WHOLE MILES	16THS MILE	AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)									
JUL 19th																																		
01	0	UNL	7			H	73	69	67	82	29	5	5	UNL	3		H	76	72	70	82	00	0	0	UNL	5		H	78	73	70	77	29	5
04	2	UNL	5			H	70	66	66	79	29	5	5	UNL	3		H	72	71	70	94	36	3	0	UNL	5		H	74	71	69	85	27	6
07	5	UNL	3			H	75	69	66	74	31	8	8	UNL	1	4	FH	74	72	71	90	33	3	0	UNL	4		H	81	74	71	72	00	0
10	4	UNL	3			H	84	73	67	57	33	7	7	UNL	2	8	H	85	75	71	63	31	4	0	UNL	5		H	91	78	72	54	32	10
13	2	UNL	4			H	91	76	70	50	33	8	8	UNL	3		H	93	78	71	49	25	8	0	UNL	6		H	95	79	72	48	32	12
16	3	UNL	6			H	91	75	68	47	31	6	6	UNL	4		H	93	78	72	51	23	10	3	UNL	10			98	79	71	42	34	9
19	8	UNL	6			H	87	75	69	55	28	7	7	UNL	3		H	89	78	73	59	24	9	6	UNL	9			92	76	68	46	36	6
22	7	UNL	6			H	79	74	71	77	10	5	5	UNL	5		H	89	76	72	67	28	9	6	UNL	75			86	74	69	57	01	6
JUL 20th																																		
JUL 21st																																		
JUL 22nd																																		
JUL 23rd																																		
JUL 24th																																		
JUL 25th																																		
JUL 26th																																		
JUL 27th																																		
JUL 28th																																		
JUL 29th																																		
JUL 30th																																		
JUL 31st																																		

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	5	29.920	73	70	68	84	5.0	28	2.2
04	5	29.920	71	69	67	87	6.0	32	2.1
07	5	29.950	75	70	68	80	6.8	34	2.4
10	5	29.950	82	73	68	63	8.2	35	1.6
13	5	29.920	86	73	67	53	9.0	28	3.0
16	5	29.890	86	73	67	55	9.2	27	3.3
19	5	29.890	82	72	67	63	7.6	23	3.3
22	5	29.920	76	71	68	78	6.8	18	1.6

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUL 1987  
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				0.38	0.17	0.01					0.65	0.01			T	0.13		0.02		T	0.21	0.19	T	02	
03		T																0.02					T	03	
04																								04	
05																								05	
06																								06	
07						T	0.01																	07	
08	0.03	0.06																						08	
09																								09	
10											T					T	T							10	
11																					T			11	
12																0.02	T	0.06	0.02	T		T		12	
13																								13	
14												0.03		0.03	0.53	0.10	0.02	T	0.05					14	
15																								15	
16																								16	
17																								17	
18																								18	
19																								19	
20																								20	
21																								21	
22																							T	22	
23																								23	
24																								24	
25																								25	
26																1.02	0.18							26	
27																								27	
28																								28	
29																								29	
30																								30	
31																					0.13	0.01		31	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.22	0.42	0.59	0.80	0.92	1.00	1.10	1.13	1.14	1.20	1.20	1.20
ENDED: DATE	26	26	26	26	26	26	26	26	26	26	26	26
ENDED: TIME	1437	1441	1440	1441	1447	1504	1518	1522	1542	1559	1559	1559

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:  
DICK WOLF

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