

LOCAL CLIMATOLOGICAL DATA

Monthly Summary



NATIONAL WEATHER SERVICE OFC

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

JUL 1983
 WILMINGTON, DELAWARE

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 07AM INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 80 FEET ABOVE M.S.L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)		DATE		
	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	FASTEST MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT			
1	80	64	72	-3	66	0	7		0	0	0	29.97	18	7.8	7.9	15	18			9	8	1	
2	92	71	82	7	71	0	17	2	8	0	0	29.89	23	5.1	6.9	10	22			5	4	2	
3	95	72	84	9	70	0	19		8	0	0	29.96	26	3.0	5.2	8	28			2	1	3	
4	93	73	83	8	71	0	18	3	8	0	.06	29.92	17	5.2	5.6	18	31			4	5	4	
5	84	71	78	3	67	0	13	1	8	0	T	29.78	27	5.2	6.9	9	27			9	9	5	
6	80	62	71	-4	59	0	6		0	0	0	29.90	32	8.7	9.1	14	01			5	4	6	
7	81	55	68*	-7	50	0	3		0	0	0	30.16	34	7.4	8.2	14	02			0	0	7	
8	83	57	70	-6	55	0	5		0	0	0	30.15	28	4.9	6.5	12	20			1	1	8	
9	87	62	75	-1	59	0	10		0	0	0	29.90	30	7.2	7.8	15	31			3	3	9	
10	82	55*	69	-7	48	0	4		0	0	0	29.91	33	7.0	8.3	13	33			2	2	10	
11	83	58	71	-5	51	0	6		0	0	0	29.98	29	5.7	6.2	12	31			9	6	11	
12	91	62	77	1	61	0	12		8	0	0	29.93	27	7.4	7.6	13	27			0	0	12	
13	93	71	82	6	59	0	17		8	0	0	29.89	30	9.4	10.6	18	30			1	1	13	
14	90	63	77	1	58	0	12		0	0	0	29.93	30	7.6	8.1	12	30			3	2	14	
15	97	67	82	6	65	0	17		8	0	0	29.79	29	8.1	8.3	12	30			3	3	15	
16	100*	76	88*	12	67	0	23		8	0	0	29.69	29	9.9	10.1	17	32			4	3	16	
17	97	72	85	9	66	0	20	3	8	0	.42	29.75	34	5.2	9.1	32	34			0	1	17	
18	92	72	82	6	69	0	17		8	0	0	29.80	30	8.0	8.5	13	32			5	6	18	
19	89	70	80	4	69	0	15	3	5	8	1.52	29.88	15	2.4	8.2	28	05			8	6	19	
20	89	69	79	3	68	0	14		8	0	T	29.89	27	5.4	6.8	12	18			7	6	20	
21	92	70	81	5	69	0	16	1	3	8	.06	29.77	27	6.4	8.8	23	26			7	7	21	
22	84	64	74	-3	53	0	9		0	0	0	29.76	31	11.4	12.7	21	31			2	2	22	
23	84	57	71	-6	54	0	6		0	0	.26	29.79	27	4.8	7.8	14	31			7	7	23	
24	91	70	81	4	67	0	16	1	8	0	.01	29.61	31	4.9	9.5	17	30			5	5	24	
25	82	65	74	-3	63	0	9		8	0	0	29.79	32	4.5	5.9	9	36			8	6	25	
26	89	63	76	-1	61	0	11	2	8	0	0	29.89	35	4.2	5.2	12	32			1	1	26	
27	89	63	76	-1	61	0	11		0	0	0	30.03	19	1.2	6.2	10	19			1	1	27	
28	92	68	80	3	63	0	15		8	0	0	30.13	22	8.0	8.9	15	20			3	3	28	
29	91	68	80	4	65	0	15		0	0	0	30.16	20	8.5	9.5	16	17			4	4	29	
30	92	72	82	6	66	0	17		8	0	0	30.08	24	5.6	8.1	12	23			3	5	30	
31	92	73	83	7	70	0	18		8	0	0	30.00	17	4.9	7.6	15	18			2	2	31	
SUM	SUM					TOTAL	TOTAL					TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM		
2756	2055					0	398					2.33	0	29.91	28	4.3	7.9	32	34			123	114
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.					DEP.						DATE: 17	POSSIBLE	MONTH	AVG.	AVG.	
88.9	66.3	77.6	1.6	63	0	57	57					-1.57								4.0	3.7		
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS	GREATEST IN 24 HOURS AND DATES						GREATEST DEPTH ON GROUND OF								
						TOTAL	TOTAL	> 1.0 INCH							SNOW, ICE PELLETS								
MAXIMUM TEMP.		MINIMUM TEMP.				0	680	THUNDERSTORMS	4		PRECIPITATION		SNOW, ICE PELLETS										
> 90°	< 32°	< 32°	< 0°	DEP.	DEP.			HEAVY FOG	2		1.52	19-20	0										
16	0	0	0	0	0	104	104	CLEAR	16	PARTLY CLOUDY	10	CLOUDY	5										

* 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 7 OR MORE OBSERVATIONS AT 3-HOUR INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: 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). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

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, ASHEVILLE, NORTH CAROLINA, 28801

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

L. Roy Hoyt

ACTING DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JUL 1983 13781
WILMINGTON, DELAWARE

HOUR L.S.T.	VISI-BILITY				TEMPERATURE				WIND			WEATHER	VISI-BILITY				TEMPERATURE				WIND			WEATHER								
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	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	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	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
DAY 01																																
01	6	50	12		66	62	60	81	18	7	2	UNL	7		73	70	68	84	00	0	0	UNL	7				77	73	71	82	24	4
04	7	39	8		65	62	60	84	19	6	0	UNL	3		72	69	68	87	19	4	0	UNL	6	H		74	71	70	87	32	3	
07	10	20	10		67	64	62	84	21	4	10	1		2	FH	74	72	71	90	20	9	1	UNL	5	H		80	74	71	74	35	3
10	10	20	10		75	69	66	74	19	7	4	UNL	4		82	76	73	74	16	8	1	UNL	10			89	75	69	52	17	5	
13	10	23	9		77	70	67	71	18	8	5	UNL	6		90	77	71	54	29	6	5	UNL	12			93	77	70	47	31	5	
16	10	28	8		78	73	70	77	18	10	4	UNL	8		91	77	71	52	26	9	3	UNL	9			94	78	71	47	27	6	
19	4	UNL	8		77	72	70	79	18	8	7	UNL	8		86	76	71	61	25	6	0	UNL	8			90	75	68	48	25	5	
22	6	UNL	7		75	72	71	87	18	5	3	UNL	7		80	74	71	74	26	6	0	UNL	7			81	73	70	69	19	5	
DAY 02																																
DAY 03																																
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DAY 15																																
DAY 16																																
DAY 17																																
DAY 18																																

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

JUL 1983 13781
WILMINGTON, DELAWARE

HOUR L.S.T.	SKY COVER (TENTHS)	VISI-BILITY		WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY		WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY		WEATHER	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	AIR OF	WET BULB OF	DEW POINT OF	REL. HUMIDITY %		DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL. HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																		
DAY 19																												DAY 20																												DAY 21																											
01	1	UNL	10		77	71	68	74	29	4	7	250	7							70	67	66	87	30	5	6	UNL	5					73	70	68	84	28	5																																													
04	0	UNL	10		74	69	67	79	28	5	4	UNL	4	H						69	66	65	87	30	7	3	UNL	3	H				71	68	67	87	25	6																																													
07	9	140	4	H	79	72	68	69	00	0	6	UNL	2	H					74	70	68	82	31	6	3	UNL	1	12	H				74	69	67	79	32	7																																													
10	6	UNL	4	H	88	76	70	55	12	6	10	250	2	H					80	73	70	72	23	5	6	UNL	6	H				84	74	69	61	30	5																																														
13	10	250	7		88	76	70	55	20	6	5	UNL	7						87	76	71	59	26	6	7	UNL	7					90	75	68	48	30	12																																														
16	9	230	7		82	74	71	69	17	15	10	110	5	H					86	73	67	53	22	7	10	UNL	7					90	77	71	54	22	10																																														
19	10	24	12	T	75	69	66	74	06	17	7	110	5	H					84	74	69	61	22	6	10	75	6				87	76	71	59	20	10																																															
22	5	UNL	12		72	70	69	90	24	4	7	UNL	10						77	72	70	79	30	5	10	48	6	H				73	69	67	82	30	6																																														
DAY 22																												DAY 23																												DAY 24																											
01	7	120	12		71	63	57	61	32	14	0	UNL	15					61	56	53	75	32	5	10	70	6	F				71	68	67	87	19	8																																															
04	6	UNL	12		67	61	56	68	30	8	0	UNL	15					59	54	50	72	29	6	10	80	6	F				71	68	67	87	24	4																																															
07	1	UNL	15		69	60	53	57	31	11	0	UNL	15					68	59	53	59	33	7	10	75	2	8	F				72	69	68	87	28	6																																														
10	0	UNL	20		75	62	53	46	31	15	7	UNL	15					80	63	50	35	32	7	4	UNL	5	H				82	74	70	67	29	14																																															
13	1	UNL	20		80	64	53	39	32	14	10	250	15					83	66	55	38	25	8	5	UNL	6	H				86	74	68	55	30	11																																															
16	1	UNL	20		84	64	51	32	32	12	10	250	15					81	65	55	41	26	7	4	UNL	10					88	73	66	48	03	11																																															
19	3	UNL	20		78	61	49	36	30	8	10	250	15					77	65	57	50	19	7	3	UNL	10					80	71	67	65	32	4																																															
22	0	UNL	15		70	58	49	47	20	6	10	120	15					75	65	59	58	19	7	0	UNL	10					76	68	64	66	03	8																																															
DAY 25																												DAY 26																												DAY 27																											
01	8	60	12		71	68	66	84	33	3	1	UNL	1	8	F			68	66	65	90	29	4	3	UNL	15					67	63	60	78	32	5																																															
04	2	UNL	10		68	64	62	81	34	4	3	UNL	0	12	F			66	65	64	93	00	0	0	UNL	15					64	60	58	81	30	7																																															
07	8	UNL	10		72	66	62	71	33	5	0	UNL	1	8	H			68	65	64	87	28	4	0	UNL	9					71	64	60	68	30	5																																															
10	10	250	12		76	67	62	62	32	6	0	UNL	15					81	69	62	53	33	6	0	UNL	8					83	69	61	48	00	0																																															
13	10	250	12		81	69	63	54	31	7	2	UNL	15					88	70	60	39	02	10	1	UNL	10					87	69	58	37	06	3																																															
16	9	100	12		80	68	61	52	32	7	2	UNL	15					88	68	55	33	36	7	3	UNL	12					87	70	60	40	15	9																																															
19	2	UNL	12		78	67	61	56	32	4	0	UNL	15					82	67	57	43	02	5	0	UNL	10					82	71	65	56	18	7																																															
22	1	UNL	7		72	67	65	79	17	5	0	UNL	15					74	65	59	60	00	0	3	UNL	8					76	70	67	74	13	7																																															
DAY 28																												DAY 29																												DAY 30																											
01	3	UNL	10		73	67	63	71	20	4	0	UNL	7				71	65	61	71	20	6	10	75	10					75	67	63	66	20	6																																																
04	3	UNL	10		71	66	63	76	13	4	0	UNL	7				69	65	63	81	20	5	10	120	10					73	68	65	76	22	6																																																
07	1	UNL	5	H	74	69	66	76	23	6	0	UNL	7				73	68	66	79	20	7	8	85	15					75	69	66	74	24	6																																																
10	2	UNL	9		84	71	64	51	25	8	2	UNL	10				83	72	67	59	23	8	0	UNL	15					84	73	67	57	26	8																																																
13	3	UNL	9		90	73	65	44	23	8	7	UNL	12				89	72	64	44	24	9	4	UNL	7					89	76	70	54	23	7																																																
16	0	UNL	10		91	71	61	37	23	12	7	250	10				83	73	69	63	17	14	2	UNL	4			H			91	75	67	45	24	8																																															
19	8	UNL	9		83	69	61	48	20	13	6	UNL	10				81	73	69	67	17	9	0	UNL	6			H			86	73	66	51	23	6																																															
22	4	UNL	10		77	66	59	54	23	7	6	250	12				79	68	61	54	22	8	5	UNL	10					81	71	66	60	01	9																																																
DAY 31																												WILMINGTON DEL																												83 07																											
01	4	UNL	8		76	70	67	74	30	4																																																																									
04	5	UNL	7		73	69	67	82	34	4																																																																									
07	5	UNL	3	H	77	72	69	76	10	5																																																																									
10	5	UNL	7		82	75	72	72	17	6																																																																									
13	0	UNL	10		90	78	73	57	15	10																																																																									
16	0	UNL	10		91	76	70	50	18	10																																																																									
19	0	UNL	10		83	75	71	67	17	8																																																																									
22	0	UNL	10		79	73	71	77	19	6																																																																									

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	3	29.91	71	65	62	75	6.2	28	4.2		
04	2	29.90	68	64	61	79	5.6	28	4.0		
07	4	29.93	73	67	63	72	6.9	30	4.3		
10	3	29.93	82	70	63	53	8.9	30	5.5		
13	5	29.91	87	71	63	46	9.9	29	6.3		
16	5	29.88	87	71	62	46	11.0	27	5.5		
19	5	29.87	82	70	63	53	7.8	25	3.2		
22	3	29.90	75	67	63	68	7.2	28	2.6		

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUL 1983 13781
WILMINGTON, DELAWARE

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	
1																								1	
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30																								30	
31																								31	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	00.32	00.52	00.76	00.87	01.07	01.24	01.50	01.52	01.52	01.52	01.52	01.52
ENDED: DATE	19	19	19	19	19	19	19	19	19	19	19	19
ENDED: TIME	1915	1915	1920	1925	1935	1950	2005	2005	2005	2005	2005	2005

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.

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FIRST CLASS