

# Local Climatological Data



## MONTHLY SUMMARY

LATITUDE 39°40' N LONGITUDE 75°36' W ELEVATION (GROUND) 74 FT. STANDARD TIME USED: EASTERN WBAN #13781

JULY 1981 WILMINGTON, DELAWARE

DATE	TEMPERATURE °F			DEGREE DAYS BASE 65°		WEATHER TYPES ON DATES OF OCCURRENCE 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLEWING SNOW	SNOW, ICE PELLETS OR ICE ON GROUND AT 07AM IN.	PRECIPITATION		AVG. STATION PRESSURE IN.	WIND			SUNSHINE		SKY COVER TENTHS		DATE																								
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT			HEATING SEASON BEGINS WITH JAN. 1	COOLING SEASON BEGINS WITH JULY 1		WATER EQUIVALENT IN	SNOW, ICE PELLETS IN.	RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE SPEED M.P.H.	DIRECTION		MINUTES	PERCENT OF POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT																				
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																				
1	83	67	75	0	64	0	10		0	.13	0	30.11	09	12.5	13.5	17	12			9	8	1																				
2	81	67	74	-1	66	0	9	1	0	.38	0	30.19	10	10.6	12.1	16	14			9	9	2																				
3	80	70	75	0	66	0	10	1	0	0	0	30.19	15	7.2	8.2	12	16			10	10	3																				
4	76	68	72	-3	68	0	7	1	0	.70	0	29.93	09	2.8	8.5	17	16			10	10	4																				
5	80	64	72	-3	68	0	7	1	0	T	0	29.79	24	7.0	7.6	10	26			8	7	5																				
6	88	68	78	3	67	0	13	1	0	0	0	29.80	29	4.9	5.8	12	31			5	7	6																				
7	91	70	81	5	66	0	16		0	0	0	29.90	31	6.7	7.1	14	31			5	4	7																				
8	93	71	82	6	68	0	17		0	0	0	29.95	29	8.4	9.5	15	28			3	2	8																				
9	95*	76	86*	10	72	0	21		0	0	0	29.83	28	9.8	10.2	18	29			1	1	9																				
10	91	74	83	7	67	0	18		0	0	0	29.82	30	9.4	10.1	16	31			0	0	10																				
11	91	66	79	3	60	0	14		0	0	0	29.94	33	6.6	7.9	14	32			2	2	11																				
12	91	70	81	5	61	0	16		0	0	0	29.95	23	4.4	6.2	15	25			3	3	12																				
13	91	74	83	7	68	0	18		0	0	0	29.76	25	9.3	9.6	14	23			7	7	13																				
14	87	67	77	1	59	0	12		0	0	0	29.67	31	12.0	13.5	20	32			3	3	14																				
15	85	60	73	-3	55	0	9		0	0	0	29.80	32	8.1	8.6	15	32			2	2	15																				
16	85	63	74	-2	59	0	8		0	T	0	29.83	28	3.6	6.0	14	24			9	9	16																				
17	86	66	76	0	64	0	11		0	0	0	29.86	19	6.4	7.1	10	17			3	3	17																				
18	92	68	80	4	63	0	15		0	0	0	29.92	26	1.8	5.0	15	16			4	4	18																				
19	94	69	82	6	64	0	17		0	0	0	29.91	25	6.5	7.5	12	24			2	2	19																				
20	91	73	82	6	70	0	17	3	0	.76	0	29.74	21	5.9	11.1	16	20			8	8	20																				
21	91	73	82	6	71	0	17	1	0	.12	0	29.60	23	8.6	8.9	16	24			4	4	21																				
22	84	67	76	0	62	0	11	1	0	0	0	29.80	33	9.0	9.2	16	35			5	5	22																				
23	82	59	71	-5	51	0	6	0	0	0	0	30.05	01	6.7	9.5	14	35			0	0	23																				
24	81	65	73	-3	59	0	8		0	T	0	30.15	15	4.9	7.8	15	17			9	9	24																				
25	78	70	74	-2	61	0	9		0	T	0	30.14	14	9.0	9.5	14	14			10	10	25																				
26	86	71	79	3	70	0	14	3	0	T	0	30.04	15	9.5	10.5	16	15			9	9	26																				
27	89	74	82	6	67	0	17		0	0	0	29.99	31	8.5	10.2	15	31			6	6	27																				
28	79	72	76	0	62	0	11	1	0	.40	0	30.00	13	6.2	11.5	18	17			10	8	28																				
29	84	62	73	-3	63	0	8	1	0	.03	0	29.81	28	10.1	12.8	22	30			4	4	29																				
30	85	56*	71*	-5	54	0	6		0	0	0	30.06	32	7.8	8.2	13	35			1	0	30																				
31	86	61	74	-2	57	0	9		0	0	0	30.22	11	9	7.8	16	15			1	1	31																				
SUM	SUM				TOTAL	TOTAL			TOTAL	TOTAL		FOR THE MONTH:					TOTAL	%	SUM	SUM																						
2676	2101				0	381			2.52	0	29.93	27	2.3	9.1	22	30			161	161																						
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION	DEP.			DATE: 29					POSSIBLE	MONTH	AVG.	AVG.																						
86.3	67.8	77.1	1.3	63	0	46		>.01 INCH	7	-1.79									5.2	5.2																						
SEASON TO DATE																						SNOW, ICE PELLETS	GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE																	
NUMBER OF DAYS																						TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
MAXIMUM TEMP.																						MINIMUM TEMP.	0	680	THUNDERSTORMS	3	PRECIPITATION	SNOW	ICE PELLETS	0	0	0	0	0	0	0	0	0	0	0	0	0
590																						32	32	0	DEP.	DEP.	HEAVY FOG	0	76	20	0	0	0	0	0	0	0	0	0	0	0	0
11																						0	0	0	0	0	101	CLEAR	13	PARTLY CLOUDY	7	CLOUDY	11									

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 T TRACE AMOUNT  
 + ALSO ON AN EARLIER DATE, OR DATES.  
 HEAVY FOG: - VISIBILITY 1/4 MILE OR LESS.  
 FIGURES FOR WIND DIRECTIONS ARE TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. 00 = CALM.  
 DATA IN COLS. 6 AND 12-15 ARE BASED ON 7 OR

MORE OBSERVATIONS PER DAY AT 3-HOUR INTERVALS.  
 FASTEST MILE WIND SPEEDS ARE FASTEST OBSERVED ONE-MINUTE VALUES WHEN DIRECTIONS ARE IN TENS OF DEGREES. THE / WITH THE DIRECTION INDICATES PEAK GUST SPEED.  
 ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

### SUMMARY BY HOURS

HOUR	LOWE	SKY COVER TENTHS	STATION PRESSURE IN.	AVERAGES					RESULTANT WIND	
				TEMPERATURE	RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.		
				AIR °F	WET BULB °F	DEW PT. °F				
01	5	29.92	72	66	63	74	7.3	28	1.9	
04	5	29.92	70	66	63	78	7.2	28	2.3	
07	5	29.95	74	68	64	73	8.3	30	2.6	
10	5	29.95	81	70	64	59	10.2	31	2.4	
13	5	29.93	84	71	63	51	11.5	27	1.9	
16	5	29.91	84	71	63	51	11.9	26	3.8	
19	5	29.90	79	69	64	60	8.7	23	2.9	
22	5	29.93	74	68	64	70	7.6	24	2.3	

### HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

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
2																									2
3			.03	.34	.01																				3
4		.01	T	T	.01	.01	.01	T	.18	.07	.19	T	T											4	
5																									5
6																									6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12
13																									13
14																									14
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16																									16
17																									17
18																									18
19																									19
20						.19	.14	.23	T															20	
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29			.03	T																					29
30																									30
31																									31

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# OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER TENTHS	CEILING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE					WIND SPEED KNOTS	SKY COVER TENTHS	CEILING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE					WIND SPEED KNOTS	SKY COVER TENTHS	CEILING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE									
					AIR ° F	HET BULB ° F	DEW PT. ° F	REL. HUM. %	DIR						AIR ° F	HET BULB ° F	DEW PT. ° F	REL. HUM. %	DIR						AIR ° F	HET BULB ° F	DEW PT. ° F	REL. HUM. %	DIR	AIR ° F	HET BULB ° F	DEW PT. ° F	REL. HUM. %	DIR
					16THS MILES	16THS MILES	16THS MILES	16THS MILES	16THS MILES						16THS MILES	16THS MILES	16THS MILES	16THS MILES	16THS MILES						16THS MILES	16THS MILES	16THS MILES	16THS MILES	16THS MILES	16THS MILES	16THS MILES	16THS MILES	16THS MILES	16THS MILES
01	5	UNL	10	DAY 01	68	64	62	81	05	12	8	23	9	DAY 02	67	65	64	90	07	13	8	19	10	DAY 03	71	68	66	84	10	6				
04	8	48	7		69	65	63	81	07	15	10	8	7	RNF	69	67	66	90	05	9	10	100	4	FH	70	67	66	87	09	5				
07	7	50	9		73	68	65	81	07	12	10	39	7		72	68	66	82	07	9	10	13	5		72	69	67	84	12	6				
10	7	52	12		78	70	66	81	11	13	10	10	10		74	69	66	76	12	10	10	90	7		75	70	67	76	15	6				
13	8	32	12		83	70	63	81	29	12	8	29	12		79	69	64	60	10	14	10	110	8		79	69	63	58	18	8				
16	10	55	12		77	67	61	58	10	12	7	50	12		77	71	68	74	14	14	10	250	15		79	69	63	58	17	9				
19	10	60	9	RW	72	67	65	79	10	5	10	32	12		75	69	66	74	10	6	10	100	20		75	68	64	69	16	10				
22	10	8	10		71	68	67	87	08	11	10	14	12		72	68	66	82	12	9	10	85	12		73	70	68	84	15	7				
01	10	7	7	DAY 04	73	70	69	87	16	9	8	32	7	DAY 05	71	68	67	87	23	7	10	250	3	DAY 06	70	68	67	90	23	4				
04	10	90	4	RH	72	69	68	87	00	0	0	UNL	5	F	67	65	64	90	29	5	10	250	1	FH	69	68	67	93	00	0				
07	10	39	8		70	67	65	84	06	6	4	UNL	5		73	70	68	84	06	5	10	250	3	F	73	70	68	84	24	5				
10	10	4	1	RH	70	68	67	90	06	10	10	90	9		77	71	68	74	24	8	6	UNL	4	H	81	72	68	65	31	5				
13	10	10	7	RH	75	70	68	79	15	11	10	12	7		76	71	69	79	25	7	4	UNL	4	H	86	74	68	55	34	3				
16	10	17	2	RH	72	69	68	87	05	8	10	100	5	H	79	72	68	69	26	8	3	UNL	5	H	88	73	65	47	31	6				
19	10	17	4	RH	71	69	68	90	05	7	10	95	4	H	77	71	69	75	23	6	8	UNL	4	H	81	72	67	63	31	7				
22	9	70	8		70	68	67	90	26	8	8	95	3	H	74	70	68	82	22	7	9	250	4	H	75	69	66	74	28	10				
01	4	UNL	5	DAY 07	72	67	65	79	30	6	0	UNL	7	DAY 08	74	69	66	76	29	6	0	UNL	4	DAY 09	77	72	70	79	27	4				
04	0	UNL	5	H	71	67	65	81	31	6	0	UNL	7		72	67	65	79	32	7	0	UNL	4	H	77	72	69	76	28	6				
07	3	UNL	2	B	77	71	68	74	31	6	4	UNL	7		79	72	68	65	29	6	1	UNL	3	H	80	73	70	72	28	8				
10	6	UNL	5	H	85	73	67	55	32	6	8	UNL	8		87	75	69	56	31	10	0	UNL	4	H	90	79	74	59	29	10				
13	8	UNL	6	H	90	74	67	47	31	5	7	UNL	7		91	76	69	49	32	12	4	UNL	6	H	94	79	73	51	30	13				
16	7	250	7		91	73	65	42	33	10	0	UNL	6	H	92	76	69	47	28	13	0	UNL	7	H	95	78	71	46	29	16				
19	3	UNL	7		85	73	67	55	28	6	0	UNL	6	H	88	75	69	53	24	6	0	UNL	5	H	90	78	73	57	24	6				
22	3	UNL	7		78	70	66	67	27	4	0	UNL	4	H	81	73	70	69	24	6	0	UNL	5	H	84	76	72	67	27	8				
01	0	UNL	5	DAY 10	81	74	71	72	26	5	0	UNL	10	DAY 11	72	66	62	71	35	5	9	250	10	DAY 12	73	66	61	66	30	5				
04	0	UNL	5	H	79	72	69	72	25	7	0	UNL	8		76	63	60	78	32	7	10	250	10		72	66	62	71	22	5				
07	0	UNL	5	H	83	74	70	65	29	8	1	UNL	10		76	67	61	60	33	9	8	250	12		74	67	63	69	28	8				
10	1	UNL	8		86	74	68	55	31	14	3	UNL	15		84	67	56	38	32	12	1	UNL	15		87	70	61	42	16	5				
13	1	UNL	10		89	72	63	42	31	13	1	UNL	15		88	69	59	38	32	12	1	UNL	15		89	71	62	41	17	5				
16	0	UNL	10		90	72	63	41	32	10	2	UNL	15		91	70	58	33	03	5	2	UNL	15		91	70	58	33	24	7				
19	0	UNL	10		84	71	65	53	30	8	8	UNL	15		83	68	60	46	29	3	3	UNL	15		84	69	60	44	22	5				
22	0	UNL	10		77	68	63	62	30	5	7	UNL	15		75	67	62	64	28	5	6	95	12		79	68	62	56	22	3				
01	8	100	10	DAY 13	78	68	63	60	23	6	0	UNL	4	DAY 14	76	71	68	76	28	9	1	UNL	12	DAY 15	65	57	50	59	32	5				
04	10	100	8		76	69	66	71	23	7	3	UNL	4	H	74	70	68	82	26	7	0	UNL	10		63	56	51	45	31	6				
07	8	95	5	H	79	73	70	74	25	9	0	UNL	5	H	78	71	68	71	28	11	0	UNL	20		68	59	53	59	32	13				
10	9	85	5	H	85	74	69	59	28	8	5	UNL	8		84	70	63	49	30	16	1	UNL	20		76	65	58	54	35	10				
13	9	85	4	H	87	73	67	52	24	10	4	UNL	12		86	68	57	37	32	15	5	UNL	20		81	66	57	44	34	8				
16	10	85	3	H	90	77	71	54	24	12	2	UNL	15		86	66	54	33	33	13	4	UNL	20		82	67	57	43	30	7				
19	2	UNL	10	H	85	75	70	61	24	8	5	UNL	15		80	62	48	33	34	10	1	UNL	15		80	66	57	45	29	6				
22	0	UNL	5	H	80	73	69	69	26	7	7	UNL	15		72	58	47	41	35	13	0	UNL	15		71	62	56	59	29	5				
01	4	UNL	15	DAY 16	67	61	56	68	28	7	10	85	10	DAY 17	72	66	62	71	24	4	4	UNL	10	DAY 18	70	64	61	73	00	0				
04	5	UNL	12		64	58	54	70	28	5	7	85	12		69	64	61	66	22	5	9	250	10		69	64	61	76	00	0				
07	8	110	15		69	62	58	68	31	4	4	UNL	7		72	66	63	73	20	8	4	UNL	6	H	71	67	64	79	00	0				
10	10	70	15		78	65	56	47	14	3	0	UNL	8		77	70	66	65	23	4	0	UNL	7		84	71	65	53	36	5				
13	10	110	15		82	67	57	43	06	25	3	UNL	8		83	71	64	53	16	7	1	UNL	10		88	69	59	38	30	7				
16	10	70	10		78	67	61	56	27	9	4	UNL	8		86	71	63	46	17	5	3	UNL	10		90	71	61	38	31	7				
19	10	70	8		75	67	63	66	30	4	5	UNL	10		80	69	63	56	18	8	1	UNL	10		79	72	68	69	17	10				
22	10	70	7		74	68	64	71	22	4	3	UNL	10		73	68	66	79	18	8	0	UNL	8		74	66	62	66	19	6				
01	3	UNL	10	DAY 19	71	65	62	73	29	4	10	120	7	DAY 20	79	70	65	62	21	10	8	80	4	DAY 21	76	71	69	79	17	3				
04	1	UNL	4		70	67	65	84	28	4	10	95	7		78	71	68	71	21	8	0	UNL	2	B	FH	76	75	74	94	22	9			
07	6	UNL	4	H	75	69	65	71	27	5	10	41	1	B	75	72	70	85	17	9	1	UNL	2	F	78	75	74	88	24	8				
10	1	UNL	5	H	87	73	66	50	27	8	10	50	2	D	78	75	73	82	22	7	0	UNL	6	H	86	76	72	63	24	12				
13	1	UNL	6	H	93	79	62	36	24	7	10	85	4		88	78	74	63	20	14	9	80	6	H	88	76	70	55	24	11				
16	3	UNL	6	H	92	73	64	40	23	9	5	UNL	4	H	91	78	72	54																