

# Local Climatological Data

## MONTHLY SUMMARY



LATITUDE 38° 40' N LONGITUDE 75° 36' W ELEVATION (GROUND) 74 FT. STANDARD TIME USED: EASTERN WBAN #13781

DATE	TEMPERATURE °F				DEGREE DAYS BASE 65°		WEATHER TYPES ON DATES OF OCCURRENCE	SNOW- ICE PELLETS OR ICE ON GROUND AT 07AM	PRECIPITATION WATER EQUIVA- LENT IN	SNOW- ICE PELLETS IN.	AVG. STATION PRES- SURE IN. ELEV. FEET M.S.L.	WIND				SUNSHINE		SKY COVER TENTHS		DATE	
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JAN.)						COOLING (SEASON ENDS WITH JAN.)	RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE	DIRECTION	MINUTES	PERCENT OF POSSIBLE		SUNRISE TO SUNSET
1	47	30	39	0	23	26	0	0	0	0	30.03	04	2.0	7.2	13	06	3	4	1		
2	54	31	43	0	31	22	0	0	0	0	30.07	25	4.6	6.6	14	04	8	7	2		
3	50	34	42	4	31	23	0	0	0	0	30.14	09	8.5	10.8	15	09	10	8	3		
4	70x	44	57	19	50	8	0	0	0	0	29.55	23	11.4	13.4	21	30	10	10	4		
5	49	37	43	5	34	22	0	0	0	0	29.68	26	5.2	6.2	15	28	10	8	5		
6	59	30	45	8	32	20	0	0	0	0	30.00	28	3.0	3.6	10	25	1	0	6		
7	57	32	45	8	36	20	0	0	0	0	30.22	12	2.3	5.6	10	17	9	6	7		
8	67	47	57x	21	51	8	0	0	0	0	29.88	20	5.1	5.8	16	30	10	10	8		
9	65	30	48	12	44	17	0	0	0	0	29.54	34	7.6	11.2	28	35	10	10	9		
10	32	19	26	-10	11	39	0	0	0	0	30.08	30	14.8	15.0	21	31	3	2	10		
11	34	14	24x	-12	11	41	0	0	0	0	30.41	27	6.9	7.2	12	26	2	2	11		
12	44	20	32	-3	20	33	0	0	0	0	30.29	30	4.1	4.3	12	31	6	6	12		
13	51	22	37	2	25	28	0	0	0	0	29.97	23	6.7	10.4	18	29	2	2	13		
14	39	24	32	-3	14	33	0	0	0	0	30.02	30	14.0	15.7	25	31	1	1	14		
15	50	25	38	4	4	27	0	0	0	0	29.98	22	8.7	8.9	17	22	6	6	15		
16	55	28	42	6	24	23	0	0	0	0	30.01	21	4.6	6.5	13	16	6	6	16		
17	45	35	40	6	24	25	0	0	0	0	29.81	29	19.4	20.6	35	29	3	3	17		
18	47	33	40	6	15	30	0	0	0	0	29.85	29	15.5	16.3	25	30	10	10	18		
19	35	23	29	-5	7	36	0	0	0	0	29.91	31	9.6	10.5	17	30	10	10	19		
20	42	28	35	2	19	30	0	0	0	0	29.77	10	2.9	5.8	13	08	10	10	20		
21	50	32	41	8	31	24	0	0	0	0	29.37	27	15.5	17.4	29	29	9	9	21		
22	42	26	34	1	19	31	0	0	0	0	29.93	25	7.5	8.3	14	25	0	0	22		
23	48	24	36	3	22	29	0	0	0	0	30.05	28	6.0	7.3	14	27	1	1	23		
24	47	25	36	3	29	29	0	0	0	0	29.82	07	10.6	10.9	25	08	10	8	24		
25	45	31	38	5	28	27	0	0	0	0	29.42	28	16.6	21.1	35	28	7	6	25		
26	44	23	34	1	20	31	0	0	0	0	29.80	27	5.8	6.3	15	31	7	6	26		
27	36	23	30	-2	12	35	0	0	0	0	30.08	31	17.0	17.1	24	31	1	1	27		
28	34	18	26	-6	9	39	0	0	0	0	30.34	32	14.1	14.4	20	31	0	0	28		
29	36	13x	25	-7	11	40	0	0	0	0	30.47	34	5.7	6.2	12	35	7	3	29		
30	37	19	28	-4	18	37	0	0	0	0	30.48	15	2.7	3.0	8	15	10	8	30		
31	44	34	39	7	35	26	0	0	0	0	30.37	14	4.5	5.6	12	17	10	10	31		
SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL					TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM	
1455	854				854	0	NUMBER OF DAYS	5.56	T	29.98	28	5.4	10.0	35	28				FOR	185	164
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION							DATE: 25+	POSSIBLE	MONTH			AVG.	AVG.	
46.9	27.5	37.2	2.5	24	-85	0	>.01 INCH	11		2.24									6.0	5.3	
NUMBER OF DAYS		SEASON TO DATE		TOTAL		TOTAL		SNOW-ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON ICE AND DATE					
MAXIMUM TEMP.		MINIMUM TEMP.		1799		1016		THUNDERSTORMS		PRECIPITATION		SNOW-ICE PELLETS									
≥ 90°		≤ 32°		0		0		HEAVY FOG		1		1.64		9		T					
0		1		24		-9		CLEAR		12		PARTLY CLOUDY		6		CLOUDY		13			

DECEMBER 1978 WILMINGTON, DELAWARE

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 † 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	LOCAL TIME	SKY COVER TENTHS	AVERAGE S				TEMPERATURE		RELATIVE HUMIDITY %		WIND SPEED M.P.H.		RESULTANT WIND	
			STATION PRESSURE IN.	AIR °F	WET BULB °F	DEW PT. °F	RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.				
01	5	29.96	34	31	25	70	8.3	28	4.3					
04	8	29.97	32	30	24	72	8.0	28	4.6					
07	11	29.98	32	29	23	70	8.8	29	4.9					
10	14	30.03	38	33	24	60	12.5	29	6.9					
13	17	29.97	44	37	25	49	13.3	28	7.8					
16	20	29.97	43	36	24	50	10.8	28	6.2					
19	23	29.98	38	33	25	61	8.1	28	3.9					
22	26	29.98	36	32	25	66	8.8	28	4.6					

### HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DATE	A. M. HOUR ENDING AT												P. M. HOUR ENDING AT											
	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																								
2																								
3																								
4		.08	.11	.13	.05	.01	.12	.03	.11	.01	.05	T												
5		.16	.15	.14	.02																			
6																								
7																								
8																								
9		.01	.11	.11	.01	.01	.04	.09	.25	.16	.06	.01	.05	.10	.08	.10	.11	.08	.11	.04	.01	T	T	T
10																								
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18																								
19																								
20		.04	.06	.05	.02	.01	.01	.02	T	T	T	T	T	T	T	.01	.01	.02	.20	.05	.03	.03	.03	
21																								
22																								
23																								
24																								
25		.06	.02	.01																				
26																								
27																								
28																								
29																								
30																								
31					T	T	T	.02	.02	.01	.03	.01	.03	.04	.01	.01	.01	.01	T	T	.01	T	T	

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# OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY	TEMP.	WIND	VISI-BILITY	TEMPERATURE				WIND	VISI-BILITY	TEMP.	WIND	VISI-BILITY	TEMPERATURE				WIND	VISI-BILITY	TEMP.	WIND	VISI-BILITY								
					DIR	REL. HUM.	WIND	SPEED						DIR	REL. HUM.	WIND	SPEED						DIR	REL. HUM.	WIND	SPEED	DIR	REL. HUM.	WIND	SPEED
01	0	UNL	12		38	34	29	70	31	6	3	UNL	15		34	32	28	79	23	5	10	60	10		42	37	30	63	05	9

**NOTES**  
 CEILING  
 UNL INDICATES UNLIMITED

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

**WIND**  
 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. ENTRY OF 00 IN THE DIRECTION COLUMN INDICATES CALM.  
 SPEED IS EXPRESSED IN KNOTS; MULTIPLY BY 1.15 TO CONVERT TO MILES PER HOUR.

STATION  
 WILMINGTON DEL  
 YEAR & MONTH  
 78 12

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