

Local Climatological Data



MONTHLY SUMMARY

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

APRIL 1977 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 CLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING 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 (BASE ON HEATING WITH JULY)	COOLING (BASE ON COOLING WITH JAN.)		WATER EQUIVALENT IN.	SNOW-ICE PELLETS IN.	RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE	MINUTES		PERCENT OF POSSIBLE	SUNRISE TO SUNSET
1	60	38	49	2	28	16	0	0	0	30.08	32	6.8	8.1	18	31		2	2	1	
2	57	43	50	2	45	19	0	1	1.23	29.94	16	9.8	10.2	18	19		10	7	2	
3	69	51	60	12	45	5	0	0	T	29.77	30	9.8	14.1	23	32		10	9	2	
4	52	42	47	-1	34	18	0	0	.71	29.86	08	11.2	12.8	18	07		10	10	4	
5	55	43	49	0	43	18	0	1	.53	29.33	30	4.9	11.8	31	28		10	10	4	
6	48	35	42	-7	27	23	0	0	T	29.85	27	15.7	16.2	23	28		3	4	5	
7	50	28	40	-6	24	25	0	0	.06	30.17	24	3.3	12.7	18	18		2	3	7	
8	47	30	39	-11	25	26	0	0	0	30.07	31	10.8	12.7	23	31		2	2	8	
9	45	25*	35*	-15	16	30	0	0	0	30.33	32	8.3	9.8	16	32		0	0	9	
10	60	29	45	-5	27	20	0	0	0	30.27	27	6.5	8.3	15	23		4	4	10	
11	68	44	56	5	43	9	0	0	T	30.25	17	6.3	6.8	17	16		0	1	11	
12	87*	47	67	16	47	0	2	0	0	30.16	27	7.7	7.8	16	30		0	0	12	
13	85	57	71	20	45	0	6	0	0	30.00	26	8.7	9.1	17	28		1	1	13	
14	71	51	61	9	36	4	0	0	0	29.89	32	9.6	11.2	18	30		5	5	14	
15	67	38	53	1	32	12	0	0	0	30.03	33	4.0	8.1	17	29		0	0	15	
16	70	39	55	3	31	10	0	0	0	30.00	32	7.2	8.2	18	30		4	4	16	
17	72	42	57	4	30	8	0	0	0	30.04	32	3.8	6.3	16	16		0	1	17	
18	75	42	59	6	38	6	0	0	0	30.06	24	7.4	7.9	18	24		7	7	18	
19	76	49	63	9	41	2	0	0	0	30.07	12	4.6	6.2	13	17		7	7	19	
20	71	50	61	7	46	4	0	0	0	30.29	11	4.5	6.3	16	17		9	9	20	
21	75	47	61	7	52	4	0	1	0	30.30	18	5.3	6.5	15	18		1	4	21	
22	83	55	69	14	59	0	4	1	0	30.14	23	7.5	8.6	16	23		9	8	22	
23	80	65	73*	18	61	0	8	0	0	29.95	22	11.4	11.7	17	22		10	9	23	
24	69	48	59	4	56	6	0	1	.62	29.63	05	5.0	11.7	17	07		10	10	24	
25	65	46	56	0	47	9	0	1	.26	29.61	36	2.2	5.8	12	17		6	6	25	
26	58	46	52	-4	49	13	0	1	.20	29.69	14	5.9	10.4	18	17		6	10	26	
27	63	39	51	-5	42	14	0	0	T	29.80	29	3.8	6.3	13	30		6	6	27	
28	74	41	58	1	47	7	0	1	.30	29.70	32	7.7	10.1	18	34		8	8	28	
29	58	34	46	-11	33	19	0	0	0	30.07	30	7.1	8.2	14	30		0	0	29	
30	68	38	53	-4	39	12	0	0	0	30.18	30	2.1	6.6	10	17		1	1	30	
SUM	SUM				TOTAL	TOTAL			TOTAL	TOTAL		FOR THE MONTH			TOTAL		X	SUM	SUM	
1977	1289				333	20			3.91	T	29.98	28	3.3	9.5	31	28		FOR	144	143
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.			PRECIPITATION	DEP.					DATE: 05	POSSIBLE		MONTH	AVG.	AVG.
65.9	42.8	54.4	2.1	40	-48	20			>.01 INCH	8	0.71							4.8	4.8	
NUMBER OF DAYS		MINIMUM TEMP.		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								
5 30		< 32		5340		25		THUNDERSTORMS 2		PRECIPITATION		SNOW, ICE PELLETS								
0		0		4		0		528		25		CLEAR 13 PARTLY CLOUDY 8 CLOUDY 9								

SUMMARY BY HOURS

* 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

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HOUR	LOCAL TIME	SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE				RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.
				AIR °F	WET BULB °F	DEW PT. °F	WIND SPEED M.P.H.				
01	4	29.98	49	45	36	70	6.8	31	2.1		
04	4	29.97	47	44	39	77	6.3	27	2.2		
07	5	30.01	50	46	42	76	7.7	29	2.9		
10	6	30.03	58	49	40	55	10.4	28	5.5		
13	5	29.98	63	51	39	47	13.4	27	5.3		
16	5	29.95	63	52	39	46	13.1	27	5.7		
19	5	29.95	57	48	38	55	9.5	25	3.0		
22	5	29.98	52	46	40	67	8.6	22	1.4		

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							T	.04	.07	.06	.25			.32	.21	.19	.08	T						
3	T	T	T																					
4							T	T	T	.01	T	T		T	T	T	.01	.10	.27	.15	.05	.11		
5	.04	.18	.08	T	T	.01	T	.06	.01	.03	.02	T		.01	.03	T	.03	.01	T	.02				
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25	T																							
26	.04	.01	.01	.01	.03	.04	T		T	T	T	T		T	.04	T	.02	T						
27																								
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30																								

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Daniel B. Mitchell
 DIRECTOR, NATIONAL CLIMATIC CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SUNSHINE % OF DAY	CEILING HDS. OF FT.	WIND DIRECTION	WIND SPEED KNOTS	WEATHER	TEMPERATURE					WIND DIRECTION	WIND SPEED KNOTS	WEATHER	TEMPERATURE					WIND DIRECTION	WIND SPEED KNOTS	WEATHER	TEMPERATURE											
						AIR °F	NET BULB °F	DEW PT. °F	REL. HUM. %	DIR				AIR °F	NET BULB °F	DEW PT. °F	REL. HUM. %	DIR				AIR °F	NET BULB °F	DEW PT. °F	REL. HUM. %	DIR	AIR °F	NET BULB °F	DEW PT. °F	REL. HUM. %	DIR		
DAY 01																																	
01	3	UNL	20			47	41	32	56	32	7					44	41	38	63	17	7	10	200	1	1	8	RF	54	54	100	0	0	
04	0	UNL	20			41	37	32	70	28	6				44	40	42	89	14	6	8	250	7				54	54	100	0	0		
07	0	UNL	15			45	41	35	68	30	7				45	44	42	89	14	6	8	250	7				54	54	100	0	0		
10	6	UNL	30			53	43	28	38	33	12				46	46	43	83	16	8	8	UNL	15				66	56	47	51	31	17	
13	1	UNL	30			57	43	23	37	32	9				47	46	45	93	15	16	3	UNL	30				69	54	40	35	32	18	
16	0	UNL	30			60	44	21	22	35	5				51	51	51	100	17	14	10	250	25				67	52	36	32	32	16	
19	3	UNL	25			52	41	25	35	34	6				53	52	52	96	16	7	10	250	25				65	45	32	40	33	8	
22	4	UNL	20			49	41	29	46	18	4				55	55	55	100	16	8	10	110	20				53	42	27	37	04	10	
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NOTES
CEILING
UNL INDICATES UNLIMITED

WEATHER
 T TORNADO
 TS THUNDERSTORM
 O SQUALL
 R RAIN
 ZR RAIN SHOWERS
 RW FREEZING RAIN
 DR DRIZZLE
 LZ FREEZING DRIZZLE
 S SNOW
 SP SNOW PELLETS
 IC ICE CRYSTALS
 SW SNOW SHOWERS
 SG SNOW GRAINS
 IP ICE PELLETS
 H HAIL
 F FOG
 GF ICE FOG
 GD GROUND FOG
 BD BLOWING DUST
 SN 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
77 04

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