

Local Climatological Data



MONTHLY SUMMARY

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FT. STANDARD TIME USED: EASTERN UTMAN #13740

DATE	TEMPERATURE °F					DEGREE DAYS BASE 65°		WEATHER TYPES ON DATES OF OCCURRENCE	SNOW- ICE PELLETS ON ICE ON GROUND AT 07AM IN.	PRECIPITATION		AVG. STATION PRES- SURE IN. ELEV. 177 FEET M.S.L.	WIND			SUNSHINE		SKY COVER TENTHS		DATE			
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (BELOW MEANS WITH JUNE)	COOLING (ABOVE MEANS WITH JUNE)			WATER EQUIVA- LENT IN.	SNOW- ICE PELLETS IN.		RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE DIRECTION	MINUTES	PERCENT OF POSSIBLE	SUNRISE TO SUNSET		MIDNIGHT TO MIDNIGHT		
1	58	24*	41	-1	23	24	0		0	0	0	29.88	26	8.0	9.6	21	SW	568	83	5	3	1	
2	53	25	39*	-3	18	26	0		0	0	0	30.14	30	3.3	5.5	12	W	556	86	3	2	2	
3	63	25	44	1	26	21	0		0	0	0	30.13	18	4.6	5.2	14	S	586	67	3	4	3	
4	68	50	59	16	55	6	0	1	0	.16	0	29.78	17	11.2	12.4	32	SE	17	29	10	10	4	
5	68	43	56	13	46	9	0	2	0	0	0	29.78	24	5.7	6.0	14	SW	405	59	8	8	5	
6	56	45	51	7	40	14	0	2	0	.10	0	29.91	25	2.7	2.9	14	N	0	0	10	10	6	
7	57	36	47	3	39	18	0	2	0	.25	0	29.86	36	5.1	6.8	16	NE	202	29	8	7	7	
8	58	26	42	-2	25	23	0	0	0	0	0	30.11	24	1.9	3.7	10	NW	689	100	0	0	8	
9	72	33	53	8	32	12	0	0	0	0	0	30.11	18	8.3	8.3	18	SW	684	98	1	1	9	
10	70	38	55	10	36	10	0	0	0	0	0	30.08	18	7.1	7.6	12	SW	632	80	10	7	10	
11	75	46	61	16	48	4	0	1	0	0	0	30.13	16	4.1	5.0	11	SE	435	62	7	6	11	
12	76	44	60	15	55	5	0	2	0	0	0	30.04	14	7.8	8.3	17	S	315	44	10	8	12	
13	80	57	68	23	57	0	0	4	0	.37	0	29.55	21	8.8	13.1	31	SE	288	41	7	7	13	
14	71	41	56	10	40	9	0	0	0	0	0	29.70	30	7.4	8.5	15	NW	558	78	6	4	14	
15	75	38	56	10	42	9	0	1	0	0	0	29.76	13	1.2	3.5	9	NW	701	98	0	0	15	
16	76	50	63	16	37	2	0	0	0	0	0	29.62	28	7.9	10.4	27	NW	661	82	2	2	16	
17	57	38	53	6	25	12	0	0	0	0	0	29.78	27	4.0	5.8	12	NW	462	67	8	7	17	
18	72	50	61	14	43	4	0	1	0	.15	0	29.27	22	9.1	12.5	32	NW	283	38	8	7	18	
19	60	45	53	5	31	12	0	0	0	0	0	29.60	25	6.3	9.4	20	NW	552	76	8	7	19	
20	56	40	48	0	42	17	0	1	0	.68	0	29.74	18	2.6	7.8	14	NW	204	28	8	7	20	
21	55	30	43	-5	33	22	0	1	0	0	0	29.96	12	3.7	6.6	12	SE	375	51	10	8	21	
22	60	42	51	2	40	14	0	1	0	.78	0	29.46	27	9.9	14.8	31	NW	226	31	8	7	22	
23	58	38	47	-2	17	18	0	0	0	0	0	29.73	31	12.1	12.5	21	NW	735	100	5	3	23	
24	63	35	48	-1	20	16	0	0	0	0	0	29.77	33	9.0	10.6	26	NW	738	100	0	0	24	
25	58	28	43	-7	14	22	0	0	0	0	0	29.82	36	10.4	10.9	18	NW	738	100	0	0	25	
26	63	33	48	-2	16	17	0	0	0	0	0	30.02	36	7.7	8.3	19	N	742	100	0	0	26	
27	68	27	48	-3	30	17	0	0	0	0	0	30.06	15	3.9	4.8	10	SE	657	88	10	7	27	
28	78	50	65	14	48	0	0	0	0	.01	0	29.85	20	10.3	10.8	18	SW	399	53	10	10	28	
29	85*	62	74	22	60	0	0	0	0	0	0	29.78	21	10.9	11.1	16	SW	287	40	9	8	29	
30	81*	66	74*	22	62	0	0	1	0	.08	0	29.77	22	9.3	9.6	16	N	319	42	9	8	30	
31	77	47	62	10	43	3	0	0	0	0	0	29.69	28	8.1	12.2	30	NW	684	81	2	2	31	
SUN	SUN					TOTAL	TOTAL			TOTAL	TOTAL							TOTAL	X	SUN	SUN		
2078	1250					366	22			2.67	0	29.84	24	3.0	8.5	32	NW	14848		186	162		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.					PRECIPITATION	DEP.							DATE	10*	POSSIBLE	MONTH	AVG.	AVG.
67.0	40.3	53.7	6.8	37	-203	14				5.01 INCH	9									22252	67	6.0	5.2

* 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 LOCAL TIME	SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE			RELATIVE HUMIDITY %	WIND SPEED M.P.H.	WIND DIRECTION	SPEED M.P.H.
			AIR °F	WET BULB °F	DEW PT. °F				
01	4	29.85	48	43	37	67	7.0	24	1.9
04	4	29.84	45	42	37	74	6.1	22	1.8
07	6	29.86	44	42	37	78	6.0	18	2.2
10	6	29.87	57	49	38	56	10.1	26	3.7
13	6	29.83	63	51	37	43	11.6	28	6.0
16	5	29.78	65	51	35	38	11.9	23	6.1
19	5	29.81	57	48	37	50	7.8	23	2.2
22	4	29.85	52	45	37	60	7.8	24	1.5

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																									3
4																									4
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28																									28
29																									29
30																									30
31																									31

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Daniel B. Mitchell
 DIRECTOR, NATIONAL CLIMATIC CENTER

MARCH 1977 RICHMOND, VIRGINIA

USB FILE COPY

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER	VISIBILITY	TEMPERATURE	WIND	WIND	WIND	TEMPERATURE	WIND	WIND	TEMPERATURE	WIND	WIND	TEMPERATURE	WIND	WIND
DAY 01															
01	0 UNL	12	35 31 23	62 31 9	0 UNL	12	39 33 23	53 32 8	0 UNL	12	29 27 22	75 100 0	0		
04	0 UNL	12	29 28 24	82 00 0	0 UNL	12	35 29 18	50 30 9	0 UNL	12	26 25 22	85 16 5	5		
07	1 UNL	12	25 25 21	85 17 0	1 UNL	12	28 26 20	42 00 0	1 UNL	12	28 27 25	88 17 4	4		
10	7 UNL	12	46 38 23	37 22 10	3 UNL	12	40 32 10	41 34 6	1 UNL	10	48 41 33	58 23 6	6		
13	4 UNL	12	56 41 19	23 23 13	3 UNL	12	48 36 16	28 31 7	1 UNL	10	60 45 24	25 21 9	0		
16	7 250	12	57 42 21	25 27 14	5 UNL	15	53 38 12	18 27 4	1 UNL	12	63 45 21	20 20 9	0		
19	3 UNL	12	48 38 27	44 28 11	4 UNL	15	43 33 15	32 20 4	1 UNL	12	51 40 25	36 00 0	0		
22	0 UNL	12	44 38 29	56 28 11	0 UNL	12	30 28 23	75 12 4	10 UNL	35	50 45 39	66 00 4	4		
DAY 02															
01	10 25	8	52 46 44	74 13 6	8 250	15	62 60 58	87 23 9	10 40	50 12	55 49 42	62 28 6	6		
04	10 30	8	52 50 48	86 13 8	5 UNL	40	52 52 52	100 00 0	10 40	10 0	50 48 47	89 00 0	0		
07	10 35	8	56 54 52	87 14 10	5 UNL	20	46 46 46	100 00 0	10 40	35 3	48 48 48	86 24 4	4		
10	10 230	7	64 59 56	75 18 10	8 250	10	62 56 51	67 25 7	10 40	30 3	50 50 50	100 23 5	5		
13	10 25	7	68 81 57	88 17 12	10 250	10	66 53 41	40 27 8	10 40	40 3	52 50 49	80 24 5	5		
16	10 13	6	65 63 62	100 06 6	10 120	10	64 52 41	43 27 7	10 35	5	53 51 49	85 00 0	0		
19	10 80	10	64 81 59	84 19 11	10 110	12	60 50 40	48 23 6	10 40	4	49 48 48	85 00 0	0		
22	10 80	10	63 61 59	87 21 10	10 100	12	56 49 42	60 23 4	10 30	1 4	47 47 47	100 00 0	0		
DAY 03															
01	10 25	8	52 46 44	74 13 6	8 250	15	62 60 58	87 23 9	10 40	50 12	55 49 42	62 28 6	6		
04	10 30	8	52 50 48	86 13 8	5 UNL	40	52 52 52	100 00 0	10 40	10 0	50 48 47	89 00 0	0		
07	10 35	8	56 54 52	87 14 10	5 UNL	20	46 46 46	100 00 0	10 40	35 3	48 48 48	86 24 4	4		
10	10 230	7	64 59 56	75 18 10	8 250	10	62 56 51	67 25 7	10 40	30 3	50 50 50	100 23 5	5		
13	10 25	7	68 81 57	88 17 12	10 250	10	66 53 41	40 27 8	10 40	40 3	52 50 49	80 24 5	5		
16	10 13	6	65 63 62	100 06 6	10 120	10	64 52 41	43 27 7	10 35	5	53 51 49	85 00 0	0		
19	10 80	10	64 81 59	84 19 11	10 110	12	60 50 40	48 23 6	10 40	4	49 48 48	85 00 0	0		
22	10 80	10	63 61 59	87 21 10	10 100	12	56 49 42	60 23 4	10 30	1 4	47 47 47	100 00 0	0		
DAY 04															
01	10 25	8	52 46 44	74 13 6	8 250	15	62 60 58	87 23 9	10 40	50 12	55 49 42	62 28 6	6		
04	10 30	8	52 50 48	86 13 8	5 UNL	40	52 52 52	100 00 0	10 40	10 0	50 48 47	89 00 0	0		
07	10 35	8	56 54 52	87 14 10	5 UNL	20	46 46 46	100 00 0	10 40	35 3	48 48 48	86 24 4	4		
10	10 230	7	64 59 56	75 18 10	8 250	10	62 56 51	67 25 7	10 40	30 3	50 50 50	100 23 5	5		
13	10 25	7	68 81 57	88 17 12	10 250	10	66 53 41	40 27 8	10 40	40 3	52 50 49	80 24 5	5		
16	10 13	6	65 63 62	100 06 6	10 120	10	64 52 41	43 27 7	10 35	5	53 51 49	85 00 0	0		
19	10 80	10	64 81 59	84 19 11	10 110	12	60 50 40	48 23 6	10 40	4	49 48 48	85 00 0	0		
22	10 80	10	63 61 59	87 21 10	10 100	12	56 49 42	60 23 4	10 30	1 4	47 47 47	100 00 0	0		
DAY 05															
01	10 25	8	52 46 44	74 13 6	8 250	15	62 60 58	87 23 9	10 40	50 12	55 49 42	62 28 6	6		
04	10 30	8	52 50 48	86 13 8	5 UNL	40	52 52 52	100 00 0	10 40	10 0	50 48 47	89 00 0	0		
07	10 35	8	56 54 52	87 14 10	5 UNL	20	46 46 46	100 00 0	10 40	35 3	48 48 48	86 24 4	4		
10	10 230	7	64 59 56	75 18 10	8 250	10	62 56 51	67 25 7	10 40	30 3	50 50 50	100 23 5	5		
13	10 25	7	68 81 57	88 17 12	10 250	10	66 53 41	40 27 8	10 40	40 3	52 50 49	80 24 5	5		
16	10 13	6	65 63 62	100 06 6	10 120	10	64 52 41	43 27 7	10 35	5	53 51 49	85 00 0	0		
19	10 80	10	64 81 59	84 19 11	10 110	12	60 50 40	48 23 6	10 40	4	49 48 48	85 00 0	0		
22	10 80	10	63 61 59	87 21 10	10 100	12	56 49 42	60 23 4	10 30	1 4	47 47 47	100 00 0	0		
DAY 06															
01	10 25	8	52 46 44	74 13 6	8 250	15	62 60 58	87 23 9	10 40	50 12	55 49 42	62 28 6	6		
04	10 30	8	52 50 48	86 13 8	5 UNL	40	52 52 52	100 00 0	10 40	10 0	50 48 47	89 00 0	0		
07	10 35	8	56 54 52	87 14 10	5 UNL	20	46 46 46	100 00 0	10 40	35 3	48 48 48	86 24 4	4		
10	10 230	7	64 59 56	75 18 10	8 250	10	62 56 51	67 25 7	10 40	30 3	50 50 50	100 23 5	5		
13	10 25	7	68 81 57	88 17 12	10 250	10	66 53 41	40 27 8	10 40	40 3	52 50 49	80 24 5	5		
16	10 13	6	65 63 62	100 06 6	10 120	10	64 52 41	43 27 7	10 35	5	53 51 49	85 00 0	0		
19	10 80	10	64 81 59	84 19 11	10 110	12	60 50 40	48 23 6	10 40	4	49 48 48	85 00 0	0		
22	10 80	10	63 61 59	87 21 10	10 100	12	56 49 42	60 23 4	10 30	1 4	47 47 47	100 00 0	0		
DAY 07															
01	10 25	8	52 46 44	74 13 6	8 250	15	62 60 58	87 23 9	10 40	50 12	55 49 42	62 28 6	6		
04	10 30	8	52 50 48	86 13 8	5 UNL	40	52 52 52	100 00 0	10 40	10 0	50 48 47	89 00 0	0		
07	10 35	8	56 54 52	87 14 10	5 UNL	20	46 46 46	100 00 0	10 40	35 3	48 48 48	86 24 4	4		
10	10 230	7	64 59 56	75 18 10	8 250	10	62 56 51	67 25 7	10 40	30 3	50 50 50	100 23 5	5		
13	10 25	7	68 81 57	88 17 12	10 250	10	66 53 41	40 27 8	10 40	40 3	52 50 49	80 24 5	5		
16	10 13	6	65 63 62	100 06 6	10 120	10	64 52 41	43 27 7	10 35	5	53 51 49	85 00 0	0		
19	10 80	10	64 81 59	84 19 11	10 110	12	60 50 40	48 23 6	10 40	4	49 48 48	85 00 0	0		
22	10 80	10	63 61 59	87 21 10	10 100	12	56 49 42	60 23 4	10 30	1 4	47 47 47	100 00 0	0		
DAY 08															
01	10 25	8	52 46 44	74 13 6	8 250	15	62 60 58	87 23 9	10 40	50 12	55 49 42	62 28 6	6		
04	10 30	8	52 50 48	86 13 8	5 UNL	40	52 52 52	100 00 0	10 40	10 0	50 48 47	89 00 0	0		
07	10 35	8	56 54 52	87 14 10	5 UNL	20	46 46 46	100 00 0	10 40	35 3	48 48 48	86 24 4	4		
10	10 230	7	64 59 56	75 18 10	8 250	10	62 56 51	67 25 7	10 40	30 3	50 50 50	100 23 5	5		
13	10 25	7	68 81 57	88 17 12	10 250	10	66 53 41	40 27 8	10 40	40 3	52 50 49	80 24 5	5		
16	10 13	6	65 63 62	100 06 6	10 120	10	64 52 41	43 27 7	10 35	5	53 51 49	85 00 0	0		
19	10 80	10	64 81 59	84 19 11	10 110	12	60 50 40	48 23 6	10 40	4	49 48 48	85 00 0	0		
22	10 80	10	63 61 59	87 21 10	10 100	12	56 49 42	60 23 4	10 30	1 4	47 47 47	100 00 0	0		
DAY 09															
01	10 25	8	52 46 44	74 13 6	8 250	15	62 60 58	87 23 9	10 40	50 12	55 49 42	62 28 6	6		
04	10 30	8	52 50 48	86 13 8	5 UNL	40	52 52 52	100 00 0	10 40	10 0	50 48 47	89 00 0	0		
07	10 35	8	56 54 52	87 14 10	5 UNL	20	46 46 46	100 00 0	10 40	35 3	48 48 48	86 24 4	4		
10	10 230	7	64 59 56	75 18 10	8 250	10	62 56 51	67 25 7	10 40	30 3	50 50 50	100 23 5	5		
13	10 25	7	68 81 57	88 17 12	10 250	10	66 53 41	40 27 8	10 40	40 3	52 50 49	80 24 5	5		
16	10 13	6	65												