

Local Climatological Data

MONTHLY SUMMARY



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

NOVEMBER 1978 RICHMOND, VIRGINIA

DATE	TEMPERATURE °F			DEGREE DAYS		HEATING SEASON		COOLING SEASON		HEATHER TYPES ON DATES OF OCCURRENCE	SNOW-ICE PELLETS OR ICE ON GROUND AT 07AM	PRECIPITATION		AVG. STATION PRES. IN.	WIND			SUNSHINE		SKY COVER TENTHS		DATE		
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING SEASON BEGINS WITH JULY	COOLING SEASON BEGINS WITH JANUARY	WATER EQUIVA- LENT 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	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	73	39	56	2	45	9	0	1	8	0	0	0	0	30.01	02	4.0	4.3	12	NE	638	100	0	0	1
2	71	41	56	2	44	9	0	2	8	0	0	0	0	30.03	29	1.7	3.0	9	NE	502	79	3	2	2
3	71	37	54	1	39	11	0	1	8	0	0	0	0	30.00	03	4.8	5.0	12	NE	556	88	4	5	3
4	59	50	55	2	53	10	0	1	8	0	0	.10	0	29.84	01	8.3	8.9	14	N	0	0	10	10	4
5	75	45	60	7	47	5	0	0	8	0	0	0	0	29.85	34	4.6	4.8	9	NE	458	73	4	5	5
6	79	38	59	7	46	6	0	1	8	0	0	0	0	29.80	17	2.8	3.6	9	S	538	86	3	3	6
7	79	40	54	12	49	1	0	0	8	0	0	0	0	29.77	21	5.2	6.8	18	SW	498	80	8	7	7
8	61	45	53	1	51	12	0	1	8	0	0	.34	0	29.84	01	7.7	8.2	16	N	78	13	10	9	8
9	66	36	51	0	46	14	0	1	8	0	0	0	0	29.91	22	2.0	2.5	8	S	622	100	0	1	10
10	64	43	54	3	52	11	0	1	8	0	0	.30	0	30.01	10	1.9	2.3	8	SE	183	31	10	9	10
11	63	46	55	4	56	10	0	2	8	0	0	0	0	30.08	02	2.9	5.0	8	NW	74	12	9	7	11
12	69	44	57	7	51	8	0	0	8	0	0	0	0	30.07	05	3.3	4.3	8	NE	365	58	10	10	12
13	60	46	55	9	54	10	0	1	8	0	0	0	0	30.15	09	4.3	5.2	14	E	0	0	10	10	13
14	73	44	59	9	51	6	0	0	8	0	0	0	0	30.08	21	4.0	4.9	14	SW	517	84	3	3	14
15	68	56	59	13	60	3	0	0	8	0	0	.02	0	30.05	04	3.4	4.8	8	SW	45	7	10	8	15
16	56	50	53	4	52	12	0	0	8	0	0	1.24	0	30.14	03	8.3	8.6	13	N	0	0	10	10	16
17	68	49	59	10	55	6	0	0	8	0	0	.56	0	30.06	04	2.6	6.6	17	S	0	0	10	10	17
18	75	50	63	15	60	2	0	0	8	0	0	.06	0	29.92	24	4.8	10.2	17	SW	448	74	6	5	18
19	58	40	49	1	41	16	0	0	8	0	0	0	0	30.19	02	5.4	5.8	16	NE	588	99	4	3	19
20	57	39	48	0	41	17	0	0	8	0	0	0	0	30.28	03	4.2	4.5	8	N	485	81	9	8	20
21	62	39	51	4	45	14	0	1	8	0	0	0	0	30.19	02	5.5	5.8	8	NE	385	64	9	8	21
22	54	44	49	2	47	16	0	1	8	0	0	0	0	30.15	03	7.2	7.5	10	NE	255	43	10	10	22
23	54	43	49	3	48	16	0	1	8	0	0	.40	0	29.86	13	1.8	7.5	13	S	0	0	10	10	23
24	68	39	54	8	45	11	0	1	8	0	0	0	0	29.64	30	6.6	9.6	17	NE	513	86	2	4	24
25	49	31	40	-6	31	25	0	0	8	0	0	0	0	29.86	34	8.2	8.8	21	NW	468	79	6	4	25
26	49	28	39	-6	30	26	0	0	8	0	0	0	0	29.97	02	2.5	4.9	11	N	311	52	10	9	26
27	42	37	40	-5	39	25	0	1	8	0	0	.80	0	29.83	05	3.1	7.2	10	N	0	0	10	10	27
28	65	39	52	8	45	13	0	1	8	0	0	0	0	29.82	27	4.2	7.9	17	NW	229	39	9	8	28
29	46	35	41	-3	38	24	0	1	8	0	0	.75	0	30.00	03	3.7	6.8	20	NW	0	0	10	9	29
30	54	40	47	4	44	18	0	1	8	0	0	0	0	29.80	21	2.5	4.2	9	NW	195	33	10	10	30
SUN	SUN					TOTAL	TOTAL			TOTAL	TOTAL			FOR THE MONTH					TOTAL	Z	SUN	SUN		
1888	1264					366	0			4.57	0	29.98	01	2.2	6.0	21	NW	8972	2	219	208			
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.					PRECIPITATION	DEP.							DATE	25	POSSIBLE	MONTH	AVG.	AVG.	
62.9	42.1	52.5	3.5	47	-11.4	0				5.01 INCH	10			1.37						18316	49	7.3	6.9	
NUMBER OF DAYS						TOTAL	TOTAL			SNOW-ICE PELLETS	0			GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW-ICE PELLETS OR ICE AND DATE						
MAXIMUM TEMP.						59	1572			THUNDERSTORMS	0			PRECIPITATION				SNOW-ICE PELLETS						
≥ 90°	≥ 32°	≥ 32°	≥ 0°	DEP.	DEP.					HEAVY FOG	7	1.24	16	0										
0	0	2	0	-108	219					CLEAR	6	PARTLY CLOUDY	5	CLOUDY	19									

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

HOUR	LOW	SKY COVER TENTHS	AVERAGES					RESULTANT WIND	
			STATION PRESSURE IN.	TEMPERATURE	RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.	
01	6	29.98	48	47	46	84	5.0	36	1.3
04	6	29.97	47	46	45	86	4.8	01	2.1
07	8	29.99	46	46	45	86	5.3	35	2.4
10	7	30.01	54	51	49	84	7.2	02	3.7
13	7	29.97	60	54	49	80	7.8	35	2.8
16	7	29.95	61	53	47	65	7.3	35	2.8
19	7	29.98	53	50	47	82	5.0	04	2.4
22	7	29.98	50	48	46	88	5.1	05	1.7

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

HOUR	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	
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