

Local Climatological Data



MONTHLY SUMMARY

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

DATE	TEMPERATURE °F					DEGREE BASE 65°	DEGREE DAYS	WEATHER TYPES ON DATES OF OCCURRENCE	SNOW, ICE PELLETS OR ICE ON GROUND AT 07 AM IN.	PRECIPITATION WATER EQUIV. IN.	SNOW, ICE PELLETS IN.	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 Jan. 1	RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE M.P.H.	DIRECTION	MINUTES		PERCENT OF POSSIBLE	SUNRISE TO SUNSET
1	65	42	54	11	51	11	0	2	0	.02	0	29.55	23	5.2	7.3	16	SW	64	11	0	9	1	
2	55	41	48	5	40	17	0	0	0	0	0	29.74	26	3.6	4.2	9	NW	293	50	10	4	2	
3	63	31	47	5	35	18	0	0	0	0	0	29.69	22	6.4	7.2	19	SW	270	46	6	6	3	
4	51	40	46	4	38	19	0	0	0	.18	0	29.78	07	6.1	6.3	13	NE	254	44	10	10	4	
5	63	41	52	10	50	13	0	1 3	0	.54	0	29.46	14	4.7	8.5	17	NW	103	18	10	10	5	
6	57	32	45	4	35	20	0	1	0	.15	0	29.27	30	7.5	10.8	20	NW	81	14	10	6	6	
7	37	24	31	-10	12	34	0	0	0	0	0	29.85	30	11.8	12.4	21	NW	581	100	1	6	7	
8	37	17	27	-13	17	38	0	0	0	0	0	30.16	16	2.1	5.9	10	S	433	75	5	6	8	
9	57	25	41	1	24	24	0	1	0	.12	0	29.81	27	7.8	12.5	27	NW	261	45	4	6	9	
10	34	16	25	-15	10	40	0	0	0	0	0	30.24	35	5.3	6.3	15	NW	578	100	0	0	10	
11	31	13	22	-18	13	43	0	0	0	0	0	30.37	01	3.9	5.3	9	N	578	100	0	1	11	
12	40	13	27	-12	15	38	0	0	0	0	0	30.29	18	4.7	4.9	13	SW	577	100	0	3	4	
13	65	31	48	9	30	17	0	0	0	0	0	30.07	20	6.8	7.1	10	SW	562	87	0	4	13	
14	61	50	56	17	55	9	0	2	0	1.20	0	29.87	18	5.3	6.3	12	S	0	0	10	10	14	
15	65	37	51	12	48	14	0	2	0	0	0	29.75	34	6.3	7.8	11	N	552	86	0	3	15	
16	57	30	44	6	35	21	0	1	0	0	0	29.97	09	2.6	3.2	7	N	575	100	0	1	16	
17	61	39	50	12	47	15	0	1	0	.07	0	29.83	05	4.1	4.5	13	NE	328	57	8	9	17	
18	52	43	48	10	47	17	0	1 3	0	1.57	0	29.55	35	9.0	10.6	16	N	3	1	10	10	18	
19	43	39	41	3	39	24	0	1	0	.13	0	29.72	36	12.4	12.8	20	N	0	0	10	10	19	
20	43	38	41	3	39	24	0	2	0	.19	0	29.82	05	4.5	5.6	7	SE	0	0	10	10	20	
21	45	40	43	5	41	22	0	2	0	.66	0	29.55	32	4.0	5.9	10	NW	0	0	10	10	21	
22	45	27	36	-2	25	29	0	0	0	0	0	29.88	27	5.2	6.6	12	W	574	100	0	0	22	
23	52	26	39	2	28	26	0	0	0	0	0	30.02	20	9.0	9.1	17	SW	458	80	10	7	23	
24	59	31	45	8	39	20	0	0	0	0	0	29.86	19	6.8	7.3	13	SW	367	64	7	8	24	
25	63	34	48	12	40	16	0	1	0	.24	0	29.46	24	4.0	10.6	17	NW	358	62	6	7	25	
26	35	19	27	-10	8	38	0	0	0	0	0	29.75	30	7.3	10.1	17	N	519	90	0	1	26	
27	34	11	23	-14	13	42	0	0	0	0	0	29.98	20	3.6	5.6	10	SE	483	84	3	4	27	
28	31	14	23	-14	16	42	0	0	0	0	0	30.07	36	3.3	5.9	10	NE	576	100	7	3	28	
29	43	16	30	-7	16	35	0	0	0	0	0	30.10	22	4.8	5.5	12	W	503	87	3	4	29	
30	39	27	33	-4	29	29	0	1	0	.49	0	30.08	13	2.3	5.8	10	SW	0	0	10	8	30	
31	43	35	39	2	37	25	0	1	0	.01	0	29.94	36	7.7	7.9	10	N	0	0	10	10	31	
SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
1526	922				784	0	NUMBER OF DAYS	5.57	T	29.85	29	1.7	7.4	27	NW	9931	T	17005	55	6.1	5.8		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	5.57	T	29.85	29	1.7	7.4	27	NW	9931	T	17005	55	6.1	5.8		
49.2	29.7	39.5	0.5	31	-22	0	>.01 INCH	14		2.35					DATE: 08	POSSIBLE MONTH	AVG. AVG.						
NUMBER OF DAYS		MINIMUM TEMP.		TOTAL		TOTAL		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
0	2	19	0	-62	461	CLEAR	11	PARTLY CLOUDY	5	CLOUDY	15												

DECEMBER 1977 RICHMOND, VIRGINIA

* 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	AVERAGES						RESULTANT WIND	
		STATION PRESSURE IN.	TEMPERATURE			RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.
01	5	29.85	37	35	31	80	6.6	32	2.1
04	5	29.85	36	34	30	83	6.9	32	1.8
07	6	29.87	34	33	30	88	6.2	01	1.3
10	7	29.89	40	37	32	75	8.6	27	1.2
13	6	29.83	46	41	32	62	8.9	26	3.5
16	6	29.82	47	41	32	59	8.3	27	2.5
19	5	29.85	41	38	32	73	7.0	28	1.6
22	6	29.86	39	36	31	75	7.0	28	1.6

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	.02	T																						
3																								
4																								
5	.11	.04	.04	.07	.01	T	T	T	T	T	.02	.02	T	T	T	.01	.01	.21						
6																								
7																								
8																								
9						.03	.04	.02	.02	.01														
10																								
11																								
12																								
13																								
14							T	.01	.02	T	.01	.01	.02	.01	.08	.09	.11	.12	.25	.47	T			
15																								
16																								
17																								
18	T	.11	.05	.05	.03	.16	.24	.39	.15	.12	.02													
19	.05	T	.06	.02	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
20	T	.02	.11	.19	.14	.06	.13	.01																
21																								
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24																								
25	.01	.02	.06	.09	.04	.02																		
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