

Local Climatological Data



MONTHLY SUMMARY

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

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 GLAZE 7 DUSTSTORM 8 SMOG, HAZE 9 BLOWING SNOW	SNOW-ICE PELLETS OR ICE ON GROUND AT 07AM	PRECIPITATION		AVG. STATION PRESSURE IN. 177	WIND RESULTANT DIR. °	WIND RESULTANT SPEED M.P.H.	WIND AVERAGE SPEED M.P.H.	WIND FASTEST MILE M.P.H.	WIND DIRECTION	SUNSHINE		SKY COVER TENTHS		DATE			
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JULY)	COOLING (SEASON BEGINS WITH JAN.)			WATER EQUIVA- LENT IN.	SNOW-ICE PELLETS IN.							MINUTES	PERCENT OF POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT				
1	57	30	44	-10	29	21	0		0	0	0	29.97	34	10.2	10.6	17	NW	638	100	0	1	22			
2	56	24	40	-14	26	25	0		0	0	0	30.13	32	8	3.2	8	SE	635	100	0	1	23			
3	63	30	47	-6	32	18	0		0	0	0	29.90	18	5.3	5.5	13	SW	403	64	7	5	24			
4	66	33	50	-3	37	15	0		0	0	0	29.76	08	2.2	3.3	7	SW	509	81	5	5	25			
5	56	35	46	-7	28	19	0		0	0	0	29.81	34	6.8	8.1	16	NW	397	63	3	4	26			
6	58	31	45	-7	24	20	0		0	0	0	29.98	24	6.0	6.9	14	SW	627	100	0	0	27			
7	66	29	48	-4	29	17	0		0	0	0	29.78	28	5.1	8.2	17	N	620	99	4	4	28			
8	45	28	37	-15	18	28	0		0	T	T	29.86	33	12.2	12.9	25	NW	358	57	6	4	29			
9	48	17	33	-18	16	32	0		0	0	0	29.88	20	6.6	6.9	18	SW	551	89	7	3	30			
10	68	33	51	0	28	14	0		0	0	0	29.63	26	4.7	7.9	19	W	473	76	3	2	10			
11	60	27	44	-7	27	21	0		0	0	0	29.85	34	3.6	5.3	13	N	522	84	5	5	11			
12	42	28	35	-15	32	30	0	1	8	1	.32	30.03	01	7.1	8.1	12	N	52	8	9	7	12			
13	45	21	33	-17	25	32	0		8	T	T	30.14	31	7.1	7.2	13	NW	613	100	0	1	13			
14	45	18	32	-18	23	33	0		8	0	T	30.01	22	3.0	3.0	8	SW	359	59	8	7	14			
15	40	37	39	-10	34	26	0	1	8	0	.13	29.84	01	3.4	3.7	9	N	0	0	10	10	15			
16	54	27	41	-8	27	24	0	1	8	0	0	30.03	33	2.2	2.5	10	N	575	95	1	1	16			
17	52	28	40	-9	28	25	0	1	8	0	0	29.97	18	3.5	4.5	8	S	189	33	10	7	17			
18	52	31	47	-1	30	18	0		8	0	0	29.64	26	6.3	8.9	18	NW	481	81	1	0	18			
19	75x	38	57	9	33	8	0		0	0	0	29.53	25	9.1	10.5	17	W	386	66	6	6	19			
20	57	32	45	-3	26	20	0		0	0	0	29.58	09	1.8	4.2	13	N	460	77	6	5	20			
21	58	26	42	-5	26	23	0		0	0	0	29.53	29	3.9	6.9	21	W	460	77	6	5	21			
22	47	28	38	-9	19	27	0		0	0	0	29.73	29	10.5	10.8	21	NW	395	66	3	3	22			
23	44	20	32	-14	17	33	0		0	0	0	30.00	26	4.7	6.0	14	NW	562	94	4	2	23			
24	47	16	32	-14	21	33	0		0	0	0	29.87	22	3.7	4.6	10	W	380	64	8	6	24			
25	62	24	43	-3	28	22	0		0	0	0	29.93	20	5.5	5.8	15	W	437	74	7	4	25			
26	68	40	54	9	40	11	0		0	0	0	29.89	20	8.7	9.1	18	SW	281	47	10	9	26			
27	74	53	64x	19	54	1	0	1	8	0	.12	29.77	23	5.9	6.5	11	SW	383	65	4	6	27			
28	65	55	60	16	59	5	0	1	0	0	.73	29.66	18	4.4	5.2	8	SW	0	0	10	10	28			
29	64	29	47	3	42	18	0	1	0	0	.58	29.64	36	4.2	7.2	15	N	0	0	10	10	29			
30	33	15x	-19	-13	13	41	0		0	0	0	30.13	34	4.4	6.5	10	N	588	100	2	1	30			
SUM	579	383	456	-1.5	335	280	0		0	0	0	29.85	28	2.7	6.7	25	NW	12475	87	16	138				
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.						PRECIPITATION	DEP.				DATE: 08	POSSIBLE MONTH	AVG.	AVG.					
55.9	29.4	42.7	-6.3	29	180	0					5	-1.32						18316	68	5.3	4.6				
NUMBER OF DAYS		SEASON TO DATE		SNOW-ICE PELLETS		OREATEST IN 24 HOURS AND DATES		DREATEST DEPTH ON GROUND OF SNOW.																	
MAXIMUM TEMP.		MINIMUM TEMP.		1008		1385		THUNDERSTORMS		PRECIPITATION		SNOW-ICE PELLETS		ICE PELLETS OR ICE AND DATE											
5 90		-4 32		-4 32		-4 0		HEAVY FOG		0		1.28		28-29		1.0		12							
0		0		22		0		CLEAR		9		PARTLY CLOUDY		12		CLOUDY		9							

NOVEMBER 1976 RICHMOND, VIRGINIA

USB FILE COPY

* 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

LOCAL TIME	SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE				RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	RESULTANT WIND SPEED M.P.H.
			AIR °F	WET BULB °F	DEW PT. °F	SEA LEVEL °F				
01	3	29.84	38	35	29	73	4.8	28	1.4	
04	3	29.85	36	33	28	79	4.5	30	1.7	
07	4	29.87	34	32	28	83	4.8	29	1.7	
10	5	29.90	46	39	30	56	8.8	28	3.2	
13	5	29.84	52	42	29	44	10.5	28	5.8	
16	6	29.82	52	42	28	42	8.6	27	4.4	
19	5	29.84	43	38	29	61	5.1	25	1.6	
22	4	29.86	41	36	30	68	5.9	28	2.0	

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
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Daniel B. Mitchell
 DIRECTOR, NATIONAL CLIMATIC CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	DAY	TIME	WIND DIR	WIND SPD	TEMP	REL. HUM.	PRES	VISIB	WEATHER	TEMPERATURE				WIND				WIND DIR	WIND SPD	TEMP	REL. HUM.	PRES	VISIB	WEATHER					
										AIR	SEA	DEW	WIND	DIR	SPD	DIR	SPD								AIR	SEA	DEW	WIND	
01	01	00	0	UNL	15	44	41	37	76	31	4	0	UNL	15	32	31	28	85	35	5	0	UNL	10	34	32	28	79	18	4

NOTES
 CEILING
 UNL INDICATES UNLIMITED

- WEATHER**
- T THUNDERSTORM
 - S SQUALL
 - R RAIN
 - RS RAIN SHOWERS
 - ZR FREEZING RAIN
 - L DRIZZLE
 - ZL FREEZING DRIZZLE
 - S SNOW
 - SP SNOW PELLETS
 - IC ICE CRYSTALS
 - SN SNOW SHOWERS
 - SO SNOW GRAINS
 - IP ICE PELLETS
 - H HAIL
 - F FOG
 - IF ICE FOG
 - OF OZONE FOG
 - BD BLOWING DUST
 - BS BLOWING SAND
 - RN BLOWING SNOW
 - BY BLOWING SPRAY
 - K SMOKE
 - M 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
 RICHMOND VA

YEAR & MONTH
 76 11

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