

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 SMOKE, HAZE 9 BLOWING SNOW	SNOW, ICE PELLETS ON GROUND AT 07AM IN.	PRECIPITATION		AVG. STATION PRESSURE IN. - - - ELEV. 177 FEET M.S.L.	WIND				SUNSHINE		SKY COVER TENTHS		DATE			
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JAN.)	COOLING (SEASON BEGINS WITH JAN.)			WATER EQUIVALENT IN.	SNOW, ICE PELLETS IN.		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		MIDNIGHT TO MIDNIGHT		
1	81	67	74	-3	66	0	9	1	3	8	0	.10	0	29.89	16	1.5	9.1	19	E	368	42	8	7	1
2	84	68	76	-1	66	0	11	23	8	0	.05	0	30.03	12	5.1	6.0	12	SE	386	44	9	9	2	
3	81	70	76	-1	69	0	11	1	8	0	.13	0	30.05	10	3.9	4.9	6	SE	29	3	10	10	3	
4	86	70	78	0	70	0	13	1	8	0	1.57	0	29.79	26	1.3	8.2	13	SE	443	50	8	8	4	
5	90	70	80	2	68	0	15	1	3	8	.32	0	29.71	22	4.8	5.8	14	N	448	51	9	9	5	
6	84	71	78	0	72	0	13	1	3	8	.10	0	29.72	30	1.6	4.5	7	N	195	22	10	10	6	
7	93	71	82	4	71	0	17	1	8	0	0	0	29.83	34	4.5	5.8	7	N	843	96	2	3	7	
8	95	71	83	5	70	0	18	1	8	0	0	0	29.89	33	4.3	4.9	9	N	756	86	2	1	8	
9	96	75	86	8	74	0	21	1	8	0	0	0	29.79	26	6.1	7.1	7	NW	812	93	2	2	9	
10	96	76	86	8	75	0	21	1	3	8	.95	0	29.75	33	4.0	5.8	15	E	504	58	5	5	10	
11	92	72	82	4	69	0	17	1	8	0	0	0	29.85	34	4.6	5.8	7	NE	792	91	3	3	11	
12	93	69	81	3	71	0	16	1	8	0	0	0	29.86	19	3.2	4.8	6	SW	819	94	3	2	12	
13	92	75	84	6	73	0	19	1	8	0	0	0	29.72	24	5.7	7.8	11	NW	437	50	9	9	13	
14	95	76	86	8	70	0	21	1	8	0	0	0	29.59	31	7.5	9.6	14	NE	627	72	9	8	14	
15	85	66	76	-2	58	0	11	1	8	0	0	0	29.73	34	7.6	8.6	9	NW	870	100	5	3	15	
16	76	67	72	-6	66	0	7	1	8	0	0	0	29.73	15	3.1	3.7	5	SE	0	0	10	10	16	
17	86	69	78	0	68	0	13	2	8	0	0	0	29.74	03	5.6	7.2	8	NE	706	81	8	7	17	
18	91	65	78	0	66	0	13	1	8	0	0	0	29.81	03	3.1	4.5	8	N	823	96	4	4	18	
19	96	67	81	3	68	0	16	1	8	0	0	0	29.83	19	4.1	4.8	15	S	365	100	4	4	19	
20	96	76	86*	8	73	0	21	1	8	0	0	0	29.68	19	10.7	11.1	18	SW	568	77	8	8	20	
21	97*	73	85	7	74	0	20	1	3	8	0	0	29.54	20	7.5	8.3	31	NW	753	87	4	4	21	
22	87	71	79	1	68	0	14	1	8	0	.50	0	29.70	36	6.9	7.1	12	N	861	100	3	2	22	
23	84	67	76	-2	63	0	11	1	8	0	0	0	29.91	04	4.7	5.9	12	NE	690	80	4	3	23	
24	78	66	72	-6	66	0	7	1	8	0	.04	0	30.00	10	3.5	4.5	7	SE	309	36	10	9	24	
25	87	70	79	1	71	0	14	1	8	0	0	0	29.97	11	5.1	6.3	9	NE	396	46	9	9	25	
26	93	72	83	5	74	0	18	1	3	8	.03	0	29.93	19	4.2	5.2	20	NW	330	39	9	9	26	
27	96	74	85	7	74	0	20	1	8	0	.08	0	29.91	34	3.1	5.9	8	N	628	74	6	7	27	
28	96	74	85	7	74	0	20	1	3	8	.10	0	29.87	19	4.5	8.6	25	NW	459	54	7	8	28	
29	93	68	81	3	69	0	16	1	8	0	.04	0	29.74	29	4.7	10.2	19	N	376	44	7	6	29	
30	83	62	73	-5	56	0	8	1	8	0	0	0	29.97	03	5.8	7.3	13	NE	849	100	0	0	30	
31	85	58*	72*	-6	59	0	7	1	8	0	0	0	30.09	08	3.8	5.3	11	E	536	63	5	4	31	

JULY 1981 RICHMOND, VIRGINIA

SUM	SUM	TOTAL		TOTAL		NUMBER OF DAYS		TOTAL		TOTAL		FOR THE MONTH:		DATE:		TOTAL		SUM	
2766	2166				458				4.01	0	29.83	29	5	6	31	17584	192	182	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.			PRECIPITATION	DEP.			DATE:	21	21	26897	65	6.2	5.9	
89.2	69.9	79.6	1.7	69	0	58		>.01 INCH	13	-1.62									

* 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.

SEASON TO DATE
 SNOW, ICE PELLETS > 1.0 INCH
 THUNDERSTORMS 8
 HEAVY FOG 2
 CLEAR 7
 PARTLY CLOUDY 10
 CLOUDY 14

SUMMARY BY HOURS

HOURS	SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE				RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.
			AIR °F	NET BULB °F	DEW PT.	WIND DIR.				
01	6	29.82	73	70	68	85	4.3	31	.9	
04	6	29.81	71	69	68	88	4.9	28	.4	
07	6	29.84	74	70	68	84	6.2	30	.8	
10	6	29.85	82	73	69	66	7.0	31	1.4	
13	6	29.83	87	74	69	55	8.0	26	1.9	
16	7	29.80	87	74	69	56	9.1	33	1.1	
19	6	29.81	81	73	69	68	6.7	03	1.9	
22	6	29.84	76	71	69	81	4.9	14	1.9	

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													.04	T										
2																		.02	.03	T				T
3	T	.01	.04	T	T									T	T		.01	.01	.02	T			.03	.01
4		.01	.18	.33	.18	.08	.09	.06	.01	.32	.31	T												
5																		.15	.17	T	T			T
6		.03	T	.01	.01	T			.01				T	T										
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OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	DAY 01										DAY 02										DAY 03									
	SKY COVER	VISIBILITY	WIND	TEMPERATURE				WIND	SKY COVER	VISIBILITY	WIND	TEMPERATURE				WIND	SKY COVER	VISIBILITY	WIND	TEMPERATURE										
				AIR ° F	NET BULB ° F	DEW PT. ° F	REL. HUM. %					AIR ° F	NET BULB ° F	DEW PT. ° F	REL. HUM. %					AIR ° F	NET BULB ° F	DEW PT. ° F	REL. HUM. %							
01	10	35	8	69	67	66	90	33	10	10	4	4	69	67	66	90	20	4	10	30	5	RWF	70	69	68	93	00	0		
04	10	35	8	67	67	67	100	25	6	6	6	6	69	68	68	97	05	3	10	30	4	RWF	70	69	68	93	00	0		
07	10	25	7	74	68	67	93	17	8	8	7	7	78	70	68	67	11	6	10	30	5	F	71	70	69	93	06	4		
10	9	17	7	74	69	67	79	10	9	9	8	8	84	68	59	43	12	9	10	140	8	R	81	72	68	65	16	7		
13	10	18	5	81	69	63	54	26	9	9	10	10	78	70	65	64	12	8	10	35	8	R	78	71	67	69	13	7		
16	9	25	6	77	70	67	81	09	6	6	10	10	72	69	68	87	14	5	10	35	7	R	75	72	70	85	09	5		
19	4	UNL	8	71	67	65	67	09	8	8	10	10	71	69	68	90	11	3	10	35	7	R	72	71	70	93	06	4		
22	0	UNL	8																											

NOTES
 CEILING UNLIMITED

WEATHER

- # TORNADO
- T THUNDERSTORM
- O SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SP SNOW PELLETS
- IC ICE CRYSTALS
- SH SNOW SHOWERS
- SG SNOW GRAINS
- IP ICE PELLETS
- A HAIL
- F FOG
- IF ICE FOG
- GF GROUND FOG
- BD BLOWING DUST
- BN BLOWING SAND
- BS BLOWING SNOW
- BY BLOWING SPRAY
- K SMOKE
- H HAZE
- O 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 81 07

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