

Local Climatological Data



MONTHLY SUMMARY

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

JUNE 1979

RICHMOND, VIRGINIA

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 GALE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	SNOW, ICE PELLETS OR ICE ON GROUND AT 07AM IN.	PRECIPITATION		AVG. STATION PRESSURE IN. ELEV. FEET M.S.L.	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			WATER EQUIV. 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	87	70	79	8	73	0	14	1 3	0	.34	0	29.82	23	5.5	7.3	17	N	627	72	8	8	1	
2	81	66	74	3	72	0	9	1	0	0	29.84	10	4.3	6.0	12	S	571	65	9	9	2		
3	76	61	69	-2	67	0	4	1	0	.77	0	29.76	11	6.1	7.6	14	NE	187	21	10	10	3	
4	73	60	67	-2	64	0	2	1	0	.61	0	29.65	11	8.5	8.8	16	N	435	50	9	9	4	
5	85	54	70	5	62	0	5	2	0	0	29.65	25	3.3	3.9	12	NW	807	92	9	4	5		
6	87	61	74	3	67	0	9	2	0	0	29.73	20	7.3	7.6	16	SW	700	80	9	5	6		
7	86	66	76	3	69	0	11	1	0	0	29.68	18	7.1	7.5	12	SW	787	89	9	7	7		
8	86	66	76	3	68	0	11	1	0	0	30.00	18	6.7	7.3	13	SW	810	92	8	8	8		
9	89	68	79	3	71	0	14	1	0	0	29.94	18	6.1	6.8	11	SW	640	75	7	7	9		
10	91	68	80	3	72	0	15	1	0	0	29.78	16	4.7	5.8	14	SE	658	75	7	7	10		
11	76	60	68	-7	62	0	3	1	0	.02	0	29.68	16	4.7	10.2	24	N	478	54	8	7	11	
12	81	50	66	-6	54	0	1	0	0	0	29.85	30	3.8	5.6	12	NW	760	86	2	2	12		
13	83	54	69	-6	55	0	4	1	0	0	30.03	36	6.4	6.9	14	N	883	100	1	1	13		
14	80	52	66	-6	52	0	1	0	0	0	30.17	12	4.8	6.3	15	E	883	100	3	2	14		
15	83	48	66	-6	50	0	1	0	0	0	30.12	16	2.8	3.7	8	S	789	90	2	3	15		
16	78	59	69	-6	63	0	4	1	0	.01	0	29.83	11	5.2	6.5	12	E	506	57	10	10	16	
17	73	62	68	-7	66	0	3	1	0	.01	0	29.71	10	5.6	8.5	14	SW	530	60	9	7	17	
18	92	62	77	2	67	0	12	1	0	0	29.74	31	4.7	6.5	15	NW	885	100	4	5	18		
19	79	62	71	-4	61	0	6	1	0	T	0	30.00	02	8.2	9.5	16	NE	535	60	8	7	19	
20	81	56	69	-6	56	0	4	1	0	0	30.15	12	3.6	5.5	14	SE	881	100	4	3	20		
21	72	55	64	-11	56	1	0	0	0	.03	0	30.03	18	6.1	6.2	12	SW	197	22	10	8	21	
22	90	62	76	0	67	0	11	1	0	0	29.81	23	6.0	6.9	11	SW	536	60	6	6	22		
23	91	63	77	1	67	0	12	1	0	0	29.79	23	7.1	7.8	12	W	694	78	8	6	23		
24	77	56	67	-9	63	0	2	1	0	.48	0	29.85	36	5.7	9.8	16	N	86	10	9	8	24	
25	75	51	63	-13	54	0	0	0	0	0	30.05	01	6.7	7.3	14	NE	885	100	3	2	25		
26	76	51	64	-12	55	1	0	0	0	0	30.21	10	6.2	7.2	16	SE	884	100	3	3	26		
27	79	53	66	-10	57	0	1	0	0	0	30.14	08	3.2	4.5	7	SE	868	98	2	2	27		
28	83	56	70	-7	63	0	5	1	0	0	29.96	14	4.4	4.9	11	SE	740	84	9	8	28		
29	89	63	76	-1	66	0	11	1	0	0	29.84	18	6.7	6.8	16	S	563	64	10	9	29		
30	88	67	78	-1	68	0	13	3	0	.15	0	29.67	16	8.2	9.6	20	SW	668	76	10	8	30	
SUM	2467	1783					4	188			2.42	0	29.89	16	1.6	7.1	24	N	18488	FOR	194	174	
AVG.	82.2	59.4	70.8	-3.4	63			6.3										DATE: 11	POSSIBLE MONTH	AVG.	AVG.		
																				26468	74	6.5	5.8
NUMBER OF DAYS		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL	
MAXIMUM TEMP.		MINIMUM TEMP.		3882		351		THUNDERSTORMS		2		PRECIPITATION		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS ON DATE					
≥ 30°		≤ 32°		≥ 0°		DEP.		HEAVY FOG		1		1.38		3-4		0							
4		0		0		-57		-54		CLEAR 6		PARTLY CLOUDY 10		CLOUDY 14									

* 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 DUST 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.	DIRECTION	RESULTANT WIND SPEED M.P.H.
			AIR °F	WET BULB °F	DEW PT. °F	DIR.				
01	4	29.90	65	63	62	80	4.8	17	8	
04	5	29.89	63	62	61	84	3.9	18	1.4	
07	6	29.91	56	65	63	91	6.9	21	1.1	
10	7	29.92	75	67	63	70	8.7	17	1.5	
13	7	29.90	79	69	63	60	8.7	18	2.0	
16	7	29.87	80	69	63	60	10.2	16	2.2	
19	6	29.87	75	68	63	68	7.0	14	3.2	
22	5	29.90	68	65	63	86	5.4	12	1.8	

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

HOUR	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																					.29	.05		
3																								
4		.12	.06	.37	.05	.01	T																	
5																								
6																								
7																								
8																								
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Daniel B. Mitchell
 DIRECTOR, NATIONAL CLIMATIC CENTER

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OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SAT. COVER			TEMPERATURE			WIND			VISI-BILITY			WEATHER	TEMPERATURE			WIND			WEATHER										
	SKY	LOW	TOP	AIR * F	NET BULB * F	DEW * F	REL. * %	DIR	SPEED	DIR	CEILING	MOLES		FEET	AIR * F	NET BULB * F	DEW * F	REL. * %	DIR		SPEED									
DAY 01																														
01	10	10	8	71	71	71	100	18	6	10	49	2	F	71	71	71	100	01	3	10	6	2	8	FH	67	67	67	100	15	6
04	10	10	8	72	72	72	100	22	6	10	45	2	F	70	70	70	100	01	4	10	6	2	8	FH	66	66	66	100	14	6
07	10	10	8	73	72	72	87	24	10	10	4	1	B	71	71	71	100	06	5	10	25	2	6	FH	66	66	66	100	16	6
10	10	10	8	80	76	75	85	25	7	10	11	2	H	75	74	73	94	09	4	10	25	2	2	FH	71	69	68	90	12	5
13	10	10	8	84	77	74	72	25	7	8	100	2	H	80	76	74	82	09	5	10	25	3	2	H	75	70	68	79	12	5
16	10	10	8	84	78	75	74	30	6	6	250	4	H	80	76	75	85	13	8	10	20	5	8	RW	73	70	68	87	06	7
19	10	10	8	78	76	75	88	11	4	6	250	4	H	75	72	70	85	14	8	10	18	6	8	RW	68	68	67	93	08	6
22	10	10	8	71	71	71	100	20	3	7	UNL	5	FH	69	68	68	100	14	5	10	20	3	8	RW	65	65	65	100	07	11
DAY 02																														
01	10	10	8	62	62	62	100	04	8	0	UNL	3	F	60	60	60	100	00	0	7	250	6	H	68	65	64	87	21	4	
04	10	10	8	62	62	62	100	02	9	4	UNL	1	F	56	56	56	100	00	0	6	250	7	H	64	63	62	93	15	3	
07	10	10	8	62	62	62	100	02	10	8	UNL	1	F	60	60	60	100	00	0	10	250	6	H	67	65	65	93	19	4	
10	10	10	8	65	65	65	100	36	10	7	UNL	5	H	78	71	68	71	22	5	10	250	6	H	78	71	68	71	21	7	
13	10	10	8	70	67	65	84	36	10	10	2	5	H	83	72	67	59	28	9	4	UNL	7	H	85	75	70	61	21	12	
16	10	10	8	71	68	66	84	36	10	1	UNL	6	H	85	70	61	45	26	8	8	250	5	H	86	75	70	59	21	9	
19	10	10	8	71	67	65	81	02	6	2	UNL	6	H	78	65	57	49	20	5	2	UNL	5	H	80	73	70	72	20	8	
22	10	10	8	64	63	63	97	00	0	0	UNL	6	H	70	67	65	84	00	0	0	UNL	5	H	73	71	70	90	18	6	
DAY 03																														
01	10	10	8	62	62	62	100	04	8	0	UNL	3	F	60	60	60	100	00	0	7	250	6	H	68	65	64	87	21	4	
04	10	10	8	62	62	62	100	02	9	4	UNL	1	F	56	56	56	100	00	0	6	250	7	H	64	63	62	93	15	3	
07	10	10	8	62	62	62	100	02	10	8	UNL	1	F	60	60	60	100	00	0	10	250	6	H	67	65	65	93	19	4	
10	10	10	8	65	65	65	100	36	10	7	UNL	5	H	78	71	68	71	22	5	10	250	6	H	78	71	68	71	21	7	
13	10	10	8	70	67	65	84	36	10	10	2	5	H	83	72	67	59	28	9	4	UNL	7	H	85	75	70	61	21	12	
16	10	10	8	71	68	66	84	36	10	1	UNL	6	H	85	70	61	45	26	8	8	250	5	H	86	75	70	59	21	9	
19	10	10	8	71	67	65	81	02	6	2	UNL	6	H	78	65	57	49	20	5	2	UNL	5	H	80	73	70	72	20	8	
22	10	10	8	64	63	63	97	00	0	0	UNL	6	H	70	67	65	84	00	0	0	UNL	5	H	73	71	70	90	18	6	
DAY 04																														
01	10	10	8	62	62	62	100	04	8	0	UNL	3	F	60	60	60	100	00	0	7	250	6	H	68	65	64	87	21	4	
04	10	10	8	62	62	62	100	02	9	4	UNL	1	F	56	56	56	100	00	0	6	250	7	H	64	63	62	93	15	3	
07	10	10	8	62	62	62	100	02	10	8	UNL	1	F	60	60	60	100	00	0	10	250	6	H	67	65	65	93	19	4	
10	10	10	8	65	65	65	100	36	10	7	UNL	5	H	78	71	68	71	22	5	10	250	6	H	78	71	68	71	21	7	
13	10	10	8	70	67	65	84	36	10	10	2	5	H	83	72	67	59	28	9	4	UNL	7	H	85	75	70	61	21	12	
16	10	10	8	71	68	66	84	36	10	1	UNL	6	H	85	70	61	45	26	8	8	250	5	H	86	75	70	59	21	9	
19	10	10	8	71	67	65	81	02	6	2	UNL	6	H	78	65	57	49	20	5	2	UNL	5	H	80	73	70	72	20	8	
22	10	10	8	64	63	63	97	00	0	0	UNL	6	H	70	67	65	84	00	0	0	UNL	5	H	73	71	70	90	18	6	
DAY 05																														
01	10	10	8	62	62	62	100	04	8	0	UNL	3	F	60	60	60	100	00	0	7	250	6	H	68	65	64	87	21	4	
04	10	10	8	62	62	62	100	02	9	4	UNL	1	F	56	56	56	100	00	0	6	250	7	H	64	63	62	93	15	3	
07	10	10	8	62	62	62	100	02	10	8	UNL	1	F	60	60	60	100	00	0	10	250	6	H	67	65	65	93	19	4	
10	10	10	8	65	65	65	100	36	10	7	UNL	5	H	78	71	68	71	22	5	10	250	6	H	78	71	68	71	21	7	
13	10	10	8	70	67	65	84	36	10	10	2	5	H	83	72	67	59	28	9	4	UNL	7	H	85	75	70	61	21	12	
16	10	10	8	71	68	66	84	36	10	1	UNL	6	H	85	70	61	45	26	8	8	250	5	H	86	75	70	59	21	9	
19	10	10	8	71	67	65	81	02	6	2	UNL	6	H	78	65	57	49	20	5	2	UNL	5	H	80	73	70	72	20	8	
22	10	10	8	64	63	63	97	00	0	0	UNL	6	H	70	67	65	84	00	0	0	UNL	5	H	73	71	70	90	18	6	
DAY 06																														
01	10	10	8	62	62	62	100	04	8	0	UNL	3	F	60	60	60	100	00	0	7	250	6	H	68	65	64	87	21	4	
04	10	10	8	62	62	62	100	02	9	4	UNL	1	F	56	56	56	100	00	0	6	250	7	H	64	63	62	93	15	3	
07	10	10	8	62	62	62	100	02	10	8	UNL	1	F	60	60	60	100	00	0	10	250	6	H	67	65	65	93	19	4	
10	10	10	8	65	65	65	100	36	10	7	UNL	5	H	78	71	68	71	22	5	10	250	6	H	78	71	68	71	21	7	
13	10	10	8	70	67	65	84	36	10	10	2	5	H	83	72	67	59	28	9	4	UNL	7	H	85	75	70	61	21	12	
16	10	10	8	71	68	66	84	36	10	1	UNL	6	H	85	70	61	45	26	8	8	250	5	H	86	75	70	59	21	9	
19	10	10	8	71	67	65	81	02	6	2	UNL	6	H	78	65	57	49	20	5	2	UNL	5	H	80	73	70	72	20	8	
22	10	10	8	64	63	63	97	00	0	0	UNL	6	H	70	67	65	84	00	0	0	UNL	5	H	73	71	70	90	18	6	
DAY 07																														
01	10	10	8	62	62	62	100	04	8	0	UNL	3	F	60	60	60	100	00	0	7	250	6	H	68	65	64	87	21	4	
04	10	10	8	62	62	62	100	02	9	4	UNL	1	F	56	56	56	100	00	0	6	250	7	H	64	63	62	93	15	3	
07	10	10	8	62	62	62	100	02	10	8	UNL	1	F	60	60	60	100	00	0	10	250	6	H	67	65	65	93	19	4	
10	10	10	8	65	65	65	100	36	10	7	UNL	5	H	78	71	68	71	22	5	10	250	6	H	78	71	68	71	21	7	
13	10	10	8	70	67	65	84	36	10	10	2	5	H	83	72	67	59	28	9	4	UNL	7	H	85	75	70	61	21	12	
16	10	10	8	71	68	66	84	36	10	1	UNL	6	H	85	70	61	45	26	8	8	250	5	H	86	75	70	59	21	9	
19	10	10	8	71	67	65	81	02	6	2	UNL	6	H	78	65	57	49	20	5	2	UNL	5	H	80	73	70	72	20	8	
22	10	10	8	64	63	63	97	00	0	0	UNL	6	H	70	67	65	84	00	0	0	UNL	5	H	73	71	70	90	18	6	
DAY 08																														
01	10	10																												