

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU  
**LOCAL CLIMATOLOGICAL DATA**

RICHMOND, VIRGINIA  
 BYRD FIELD  
 JULY 1960

Latitude 37° 30' N. Longitude 77° 30' W. Elevation (ground) 162 ft. Eastern Standard time used

Date	Temperature (°F)						Precipitation		Snow, Sleet, or Ice on ground at 7:00 AM (In.)	Prevailing direction	Wind			Sunshine		Sky cover		Thunderstorm or distant lightning	Weather restricting visibility to 1/4 mile or less	Cooling Degree Days (base 65°)	STAGE James River 8:00AM (feet)	Date
	Maximum	Minimum	Average	Departure from normal	Degree days (base 65°)	Total (Water equivalent) (In.)	Snow, Sleet (In.)	Average speed (m. p. h.)			Fastest mile	Total (hours and minutes)	Percent of possible	Sunrise to sunset (tenths)	Midnight to midnight (tenths)							
1	80	68	74	-3	0	.54	0	SSW	7.2	16	SW	3:04	21	10	8	T		11	1.8	1		
2	87	66	77	0	0	0	0	NNW	6.4	9	N	14:44	100	2	1			12	0.7	2		
3	94	65	80	+3	0	0	0	S	8.7	17	S	9:44	66	8	7			15	0.1	3		
4	88	71	80	+3	0	0	0	N	6.9	12	NE	13:59	95	3	4			13	-0.1	4		
5	86	65	76	-1	0	0	0	NNW	6.5	10	NE	9:38	66	4	5			9	-0.1	5		
6	82	64	73	-4	0	0	0	E	6.4	10	E	8:03	55	9	9			10	0.0	6		
7	85	63	74	-4	0	0	0	N	6.4	13	NE	14:39	100	4	4			10	0.2	7		
8	86	59	73	-5	0	0	0	NNW	6.0	10	NW	13:49	94	2	2			8	0.7	8		
9	92	61	77	-1	0	0	0	SW	6.7	11	SW	13:08	90	5	5			11	1.3	9		
10	82	65	74	-4	0	.04	0	S	7.9	15	S	3:38	25	9	9			10	1.5	10		
11	86	68	77	-1	0	.27	0	SSE	6.3	16	S	5:56	41	9	9	T		12	2.5	11		
12	85	67	76	-2	0	0	0	N	5.1	9	N	6:23	44	8	8		F	11	2.8	12		
13	89	65	77	-1	0	0	0	S	6.5	15	S	11:56	82	6	5			13	2.6	13		
14	90	65	78	0	0	T	0	NNW	10.4	21	NW	8:54	61	9	8			13	2.1	14		
15	84	59	72	-6	0	0	0	NNW	8.5	14	N	13:58	96	1	1			8	1.4	15		
16	86	55	71	-7	0	0	0	SE	5.8	14	SE	14:11	98	1	1			8	1.3	16		
17	89	61	75	-3	0	0	0	S	7.0	17	S	12:20	85	5	4			11	0.0	17		
18	91	64	78	0	0	0	0	SE	8.4	17	SE	11:52	82	3	3			12	0.0	18		
19	92	67	80	+2	0	.07	0	S	6.9	13	W	11:25	79	8	7	T		14	-0.1	19		
20	93	72	83	+5	0	0	0	NNE	6.8	12	N	10:52	75	4	6			15	-0.1	20		
21	87	63	75	-3	0	0	0	N	7.3	12	NE	12:33	87	2	3			10	-0.1	21		
22	91	58	75	-3	0	0	0	SSE	6.6	14	S	13:25	93	3	2			11	0.6	22		
23	99	68	84	+6	0	1.07	0	S	8.2	26	SW	13:08	92	3	3	T		15	0.9	23		
24	90	69	80	+2	0	0	0	ESE	5.4	11	E	11:38	81	3	4	DL		15	1.3	24		
25	89	71	80	+2	0	0	0	E	7.3	13	E	12:11	85	5	5			14	1.3	25		
26	88	67	78	0	0	0	0	ESE	8.7	20	SE	7:34	53	7	7			12	2.2	26		
27	83	72	78	0	0	1.04	0	S	8.3	17	S	0:36	4	10	10	T		13	2.3	27		
28	87	68	78	0	0	0	0	E	4.2	8	NE	10:36	75	10	10		F	13	2.3	28		
29	72	65	69	-9	0	2.15	0	NNE	8.3	19	NE	0:00	0	10	10			8	2.7	29		
30	87	65	76	-2	0	.24	0	NNW	10.8	16	NW	10:16	73	5	5			12	3.7	30		
31	88	65	77	-1	0	1.92	0	SW	8.7	30	NW	8:17	59	9	9	T		13	1.7	31		
Sum	2708	2021				7.34	0							312:26		178	170		362	37.5	Sum	
Avg	87.4	65.2												7.2	Fastest 30	Dir. NW	Possible 70	% 5.7	5.5		1.2	Avg. Misc.

T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure.

<b>TEMPERATURE: (°F)</b> Average monthly 76.3 Departure from normal -1.2 Highest 99 on 23rd Lowest 55 on 16th Number of days with - Max. 32° or below 0 Max. 90° or above 9 Min. 32° or below 0 Min. 0° or below 0	<b>HEATING DEGREE DAYS (base 65°):</b> Total this month 0 Departure from normal 0 Seasonal total (since July 1) 0 Seasonal departure from normal 0	<b>PRECIPITATION: (In.)</b> Total for the month 7.34 Departure from normal +1.70 Greatest in 24 hours 2.39 on 29-30 Snow, Sleet— Total for the month 0 Greatest in 24 hours 0 on - Greatest depth on ground 0 on - Dates of - Hail 0 Sleet 0 Glaze 0	<b>Symbols used in columns 18-19</b> A = Hail L = Drizzle BS = Blowing snow N = Sand DL = Distant lightning R = Rain D = Dust S = Snow E = Sleet T = Thunderstorm F = Fog ZL = Freezing drizzle H = Haze ZR = Freezing rain K = Smoke
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New record minimum temperature set on 16th, 55.0. Following driest June of record, soil moisture continued exceedingly short until rains beginning on the 23rd.

Period:	EXCESSIVE PRECIPITATION												
	Minutes	5	10	15	20	30	45	60	80	100	120	150	180
July 23	Amounts	.32	.58	.68	.71	.82	.89	1.02	1.07	1.07	1.07	1.07	1.07
27		.16	.28	.38	.43	.54	.63	.66	.71	.78	.81	.81	.85
31		.40	.59	.67	.80	.90	1.11	1.24	1.37	1.57	1.63	1.64	

**HOURLY PRECIPITATION (In.)**

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						.33	.07				.01	.10	.01												1
2																									2
3																									3
4																									4
5																									5
6																									6
7																									7
8																									8
9																									9
10																									10
11		.02	.12	.13																					11
12																									12
13																									13
14																									14
15																									15
16																									16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																						.94	.13		23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30		.13	.08	.02																					30
31																									31

Known errors found in this issue will be published in later issues.  
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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU  
**LOCAL CLIMATOLOGICAL DATA**

CHIMBORAZO PARK, RICHMOND, VIRGINIA  
 NATIONAL BATTLEFIELD PARK HEADQUARTERS  
 JULY 1960

Latitude 37° 32' N. Longitude 77° 27' W. Elevation (ground) 170 ft Eastern Standard time used

Date	Temperature (°F)			Departure from normal	Degree days (base 65°)	Precipitation		Snow, Sleet or Ice on ground at (In.)	Wind			Sunshine		Sky cover		Thunderstorm or distant lightning	Weather restricting visibility to 1/4 mile or less	20	21	22	23	24
	Maximum	Minimum	Average			Total (Water equivalent) (In.)	Snow, Sleet (In.)		Prevailing direction	Average speed (m. p. h.)	Fastest mile		Total (hours and minutes)	Percent of possible	Sunrise to sunset (tenths)							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				
1	93	68	81	+3	0	.33																1
2	96	67	82	+1	0	.32																2
3	88	67	78	0	0	0																3
4	95	72	84	+8	0	0																4
5	94	66	80	+2	0	0																5
6	86	65	76	-1	0	0																6
7	87	65	76	-1	0	0																7
8	86	62	74	-3	0	0																8
9	86	63	75	-2	0	0																9
10	93	65	79	+1	0	0																10
11	82	68	75	-3	0	.10																11
12	86	66	76	-2	0	0																12
13	86	66	76	-2	0	0																13
14	91	72	82	+4	0	0																14
15	90	60	75	-3	0	0																15
16	86	60	73	-5	0	0																16
17	89	63	76	-2	0	0																17
18	89	66	78	-1	0	0																18
19	92	67	80	+1	0	0																19
20	91	71	81	+2	0	.02																20
21	94	67	81	+2	0	0																21
22	88	62	75	-4	0	0																22
23	92	67	80	+1	0	0																23
24	98	68	83	+4	0	1.10																24
25	92	72	82	+3	0	0																25
26	89	67	78	-1	0	0																26
27	89	69	79	+1	0	0																27
28	84	67	76	-2	0	.26																28
29	87	69	78	-1	0	0																29
30	74	64	69	-9	0	2.30																30
31	88	66	77	-1	0	0																31
Sum	2761	2057				4.43																Sum
Avg	89.1	66.4									Fastest	Dir.	Possible	%								Avg.

T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure. Misc.

**TEMPERATURE: (°F)**  
 Average monthly 77.8  
 Departure from normal -0.1  
 Highest 98 on 24th  
 Lowest 60 on 15th-16th  
 Number of days with -  
 Max. 32° or below 0  
 Max. 90° or above 13  
 Min. 32° or below 0  
 Min. 0° or below 0

**HEATING DEGREE DAYS (base 65°):**  
 Total this month 0  
 Departure from normal 0  
 Seasonal total (since July 1) 0  
 Seasonal departure from normal 0

**BAROMETRIC PRESSURE (In.)**  
 Avg. station (elev. \*feet, m. s. l.)  
 Highest sea level on  
 Lowest sea level on

**PRECIPITATION: (In.)**  
 Total for the month 4.43  
 Departure from normal - .95  
 Greatest in 24 hours 2.30 on 30th  
 Snow, Sleet -  
 Total for the month 0  
 Greatest in 24 hours 0 on -  
 Greatest depth on ground 0 on -  
 Dates of - Hail  
 Sleet 0 Glaze 0

**Symbols used in columns 18-19**  
 A = Hail L = Drizzle  
 BS = Blowing snow N = Sand  
 DL = Distant lightning R = Rain  
 D = Dust S = Snow  
 E = Sleet T = Thunderstorm  
 F = Fog ZL = Freezing drizzle  
 H = Haze ZR = Freezing rain  
 K = Smoke  
 \*When this elevation differs from the present station elevation this level was selected to permit comparison of data for a longer period of homogeneous record.

1 Observation day for 24 hours ending at 8 A.M. Maximum temperatures will usually have occurred on calendar day preceding date of entry.