

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

RICHMOND, VIRGINIA  
 BYRD FIELD  
 AUGUST 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 7:00AM (In.)	Snow, Sleet (In.)	Wind			Sunshine		Sky cover		Thunderstorm or distant lightning	Weather restricting visibility to 1/4 mile or less	Cooling Degree Days (Base 60°)	James River at City Locks #1 Stage in feet, 6AM	Date
	Maximum	Minimum	Average	Departure from normal	Degree days (base 65°)	Total (Water equivalent) (In.)	Prevailing direction	Average speed (m. p. h.)			Fastest mile	Total (hours and minutes)	Percent of possible	Sunrise to sunset (tenths)	Midnight to midnight (tenths)							
1	85	65	75	-3	0	.01	0	0	S	3.6	8	SE	10:09	72	9	2			13	0.9	1	
2	94	69	82	+4	0	0	0	0	SSW	5.9	10	SW	13:20	96	3	2			16	-0.9	2	
3	95	72	84	+6	0	.17	0	0	SW	7.2	29	NW	10:49	77	3	7	T		17	-1.0	3	
4	95	71	83	+5	0	.70	0	0	S	8.5	29	S	9:51	70	7	7	T		15	-0.9	4	
5	91	70	81	+4	0	T	0	0	SW	5.8	11	S	7:58	57	9	9	T		15	0.3	5	
6	90	69	80	+3	0	.56	0	0	SSW	5.5	24	NW	8:12	59	10	8	T		13	0.6	6	
7	87	68	78	+1	0	.44	0	0	SSE	5.2	32	W	7:31	54	8	9	T	F	13	1.4	7	
8	92	71	82	+5	0	.03	0	0	SW	7.7	17	NW	11:57	86	6	6	T		16	2.0	8	
9	90	73	82	+5	0	0	0	0	SE	5.8	12	SE	10:11	74	9	9	DL		16	2.1	9	
10	93	67	80	+3	0	2.85	0	0	SSW	5.8	25	NW	8:27	61	6	7	T		15	2.5	10	
11	82	68	75	-2	0	T	0	0	N	4.8	8	NE	5:33	40	10	10	T		12	2.8	11	
12	77	70	74	-3	0	.20	0	0	NE	6.8	11	NE	1:44	13	10	10			11	2.8	12	
13	87	69	78	+1	0	.11	0	0	N	6.9	11	NW	10:18	75	8	7	T		13	2.4	13	
14	92	69	81	+4	0	.20	0	0	SW	6.1	13	NW	8:53	65	7	9	T		14	1.0	14	
15	88	71	80	+3	0	T	0	0	SW	4.5	8	S	8:29	62	8	8	DL		14	1.8	15	
16	86	67	77	+1	0	0	0	0	NE	8.7	16	NE	9:58	73	5	5	DL		12	0.4	16	
17	78	64	71	-5	0	0	0	0	NNE	8.3	15	N	5:51	43	9	8			9	0.9	17	
18	80	62	71	-5	0	0	0	0	N	7.2	17	NE	10:55	81	9	8			8	0.3	18	
19	87	62	75	-1	0	0	0	0	SSW	5.3	9	SW	13:28	100	3	4			10	0.3	19	
20	90	65	78	+2	0	0	0	0	S	8.2	13	SW	13:26	100	7	5	DL		13	0.9	20	
21	90	70	80	+4	0	.06	0	0	SSW	8.3	16	W	10:49	81	8	7	DL		15	0.8	21	
22	83	70	77	+1	0	T	0	0	SW	6.8	12	SW	2:09	16	10	10			13	1.7	22	
23	86	71	79	+3	0	0	0	0	MNW	5.3	10	N	3:29	26	9	10			13	2.0	23	
24	78	64	71	-4	0	0	0	0	NNE	9.0	13	NE	3:27	26	9	8			10	1.7	24	
25	78	58	68	-7	0	0	0	0	NE	9.8	22	NE	12:56	98	5	4			6	3.0	25	
26	73	64	69	-6	0	.12	0	0	N	7.2	15	NE	0:09	1	10	10			8	2.8	26	
27	87	69	78	+3	0	0	0	0	S	4.6	9	SE	8:18	63	7	6			13	2.8	27	
28	90	68	79	+4	0	0	0	0	SE	4.8	9	S	13:08	100	2	1			15	2.5	28	
29	90	68	79	+4	0	0	0	0	SSE	6.2	13	SE	11:34	88	2	3			15	2.2	29	
30	93	72	83	+9	0	.22	0	0	SSW	5.4	10	W	6:54	53	4	4	T		15	1.1	30	
31	92	70	81	+7	0	1.53	0	0	SSW	6.2	12	N	8:59	69	7	7	T		13	0.0	31	
Sum	2699	2106				7.20	0			201.4			268:52		219	213			401	42.1	Sum	
Avg	87.1	67.9								6.5	Fastest	Dir.	Possible	%	7.1	6.9				1.4	Avg.	
T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure. Misc. 32 W 420:35 64																						

**TEMPERATURE: (\*F)** Average monthly 77.5, Departure from normal +1.6, Highest 95 on 3rd, 4th, Lowest 58 on 25th, Number of days with - Max. 32° or below 0, Max. 90° or above 15, 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.

**PRECIPITATION: (In.)** Total for the month 7.20, Departure from normal +2.15, Greatest in 24 hours 2.85 on 10th, Snow, Sleet - 0, 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.

**BAROMETRIC PRESSURE (In.)** Avg. station (elev. 164 feet, m. s. l.) 29.872, Highest sea level 30.28 on 17th, Lowest sea level 29.80 on 23rd.

**Symbols used in columns 18-19:** A = Hail, B = Blowing snow, DL = Distant lightning, D = Dust, E = Sleet, F = Fog, H = Haze, K = Smoke, L = Drizzle, N = Sand, R = Rain, S = Snow, T = Thunderstorm, ZL = Freezing drizzle, ZR = Freezing rain.

\*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.

\*\*Zero of City Locks gage at 0 feet MSL.

The 2.77 inches of rain in one hour on the 10th was the fifth heaviest one hour fall of record.

**EXCESSIVE PRECIPITATION:**

Period:	Minutes	5	10	15	20	30	45	60	80	100	120	150	180
August 7	Amounts	.20	.32	.42	.44	.44	.44	.44	.44	.44	.44	.44	.44
10		.52	.94	1.28	1.56	2.03	2.60	2.72	2.84	2.85	2.85	2.85	2.85
31		.25	.40	.49	.60	.72	.85	.90	.99	1.03	1.04	1.15	1.23

Errata: July 1960: 5th - min temperature 64, mean 75, departure -2, Sum column 3: 2020

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	.01	T	T																					1	
2																								2	
3																								3	
4																								4	
5	T	T													.29	T	.29	T	T	.01	.16	T	.04	.07	5
6															T	.27	.27	.02							6
7						T	T	T										.01	.02	.44	T	T			7
8																									8
9																									9
10																									10
11																									11
12															T	T	T	.08	.06	.02	T				12
13																									13
14	.20			.08	.03	T	.04	T	T	T															14
15																									15
16																									16
17																									17
18																									18
19																									19
20																									20
21																						.05	.01		21
22				T	T	T		T	T	T				T	T	T	T							22	
23																									23
24																									24
25																									25
26								T	.02	T					T	.05	.03	T	.01	.01	T				26
27																									27
28																									28
29																									29
30																.22	T								30
31																.77	.26	.16	.09	.14	.11	T			31

Known errors found in this issue will be published in later issues. Checks and money orders should be made payable and remittances and correspondence should be sent to the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

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

EMBORAZO PARK, RICHMOND, VIRGINIA  
 NATIONAL BATTLEFIELD PARK HEADQUARTERS  
 AUGUST 1960

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

Date	Temperature (°F)			Precipitation (Water equivalent) (In.)	Snow, Sleet (In.)	Snow, Sleet, or Ice on ground (In.)	Wind			Sunshine		Sky cover			Thunderstorm or distant lightning	Weather restricting visibility to 1/4 mile or less					Date		
	Maximum	Minimum	Average				Departure from normal	Degree days (base 65°)	Prevailing direction	Average speed (m. p. h.)	Fastest mile		Total (hours and minutes)	Percent of possible								Sunrise to sunset (tenths)	Midnight to midnight (tenths)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	88	64	76	-2	0	3.00																	1
2	86	66	76	-2	0	0																	2
3	94	72	83	+5	0	0																	3
4	95	70	83	+5	0	.48																	4
5	95	69	82	+4	0	.44																	5
6	91	69	80	+2	0	0																	6
7	91	67	79	+1	0	.97																	7
8	93	69	81	+3	0	.54																	8
9	91	72	82	+4	0	T																	9
10	90	72	81	+4	0	0																	10
11	93	63	78	+1	0	.80																	11
12	83	68	76	-1	0	.07																	12
13	79	63	71	-6	0	0																	13
14	81	63	72	-5	0	0																	14
15	91	70	81	+5	0	T																	15
16	87	67	77	0	0	0																	16
17	86	65	76	-1	0	0																	17
18	79	63	71	-6	0	0																	18
19	81	63	72	-5	0	0																	19
20	85	65	75	-1	0	0																	20
21	90	69	80	+4	0	0																	21
22	91	70	81	+5	0	T																	22
23	83	70	77	+1	0	0																	23
24	87	69	78	+2	0	0																	24
25	79	60	70	-6	0	0																	25
26	79	63	71	-5	0	0																	26
27	79	63	71	-4	0	.33																	27
28	89	68	79	+4	0	0																	28
29	92	69	81	+6	0	0																	29
30	92	70	81	+6	0	0																	30
31	94	71	83	+8	0	T																	31
Sum	2714	2082				6.63																	Sum
Avg	87.5	67.2																					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 77.4  
 Departure from normal +1.1  
 Highest 95 on 4th-5th  
 Lowest 60 on 25th  
 Number of days with -  
 Max. 32° or below 0  
 Max. 90° or above 15  
 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 6.63  
 Departure from normal +1.68  
 Greatest in 24 hours 3.00 on 1st  
 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

**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.

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

Thunderstorms on the 6th in Richmond's West end produced excessive rains causing severe flash flooding. The Richmond Three Chopt Station recorded a total of 3.79 inches, most of which fell within an hour. Water damage to about 100 homes exceeded \$200,000. This storm was comparable to the one August 7-8, 1959, which flooded about the same area.