

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

RICHMOND, VIRGINIA  
BYRD FIELD  
SEPTEMBER 1961

Latitude 37° 30' N. Longitude 77° 20' W. Elevation (ground) 162 ft. Eastern Standard time used

Date	Temperature (°F)					Precipitation		Snow, Sleet, or Ice on ground at 7:00 AM (In.)	Wind			Sunshine		Sky cover		Thunderstorm or distant lightning	Weather restricting visibility to 1/4 mile or less	Cooling Degree Days (base 65°)	James River Stage at City Locks Stage in feet 6 AM	Date	
	Maximum	Minimum	Average	Departure from normal	Degree days (base 65°)	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)	Midnight to midnight (tenths)						
1	92	67	80	+6	0	0	0	SSW	7.2	15	SW	8:51	68	8	6			15	1.5	1	
2	94	73	84	+10	0	.03	0	S	5.8	13	N	10:35	82	5	5	T		17	1.8	2	
3	95	72	84	+10	0	0	0	W	5.4	9	NE	8:21	65	5	6	T		17	-0.2	3	
4	93	71	82	+9	0	.01	0	NNW	6.5	16	W	6:22	49	7	6	T		14	-0.1	4	
5	93	69	81	+8	0	0	0	N	6.0	9	N	12:42	99	2	2			16	-0.8	5	
6	94	71	83	+10	0	.27	0	ESE	4.3	17	NE	6:59	55	5	5	T		15	-0.3	6	
7	90	70	80	+7	0	.60	0	SE	4.7	14	SW	8:01	63	3	3	T	RH	15	0.1	7	
8	87	68	78	+5	0	.01	0	NE	6.0	9	SE	4:05	32	8	8			13	0.8	8	
9	88	64	76	+3	0	0	0	N	4.4	7	NE	11:16	89	5	5			12	0.9	9	
10	89	66	78	+6	0	0	0	S	5.7	9	S	11:36	92	3	3			13	0.9	10	
11	91	67	79	+7	0	0	0	SSW	6.5	9	SW	12:17	97	2	2			14	0.6	11	
12	92	67	80	+8	0	0	0	S	6.1	10	SE	11:55	95	1	1			14	0.5	12	
13	89	66	78	+6	0	0	0	SSE	7.3	9	S	12:11	97	3	2			14	0.9	13	
14	83	70	77	+6	0	.14	0	S	7.7	18	SW	1:56	15	8	5			13	1.8	14	
15	74	54	64	-7	1	.01	0	N	8.6	14	NE	1:01	8	10	8			5	1.5	15	
16	73	46	60	-11	5	0	0	N	8.5	17	N	12:24	100	1	1			0	1.9	16	
17	75	48	62	-9	3	0	0	NE	9.4	15	NE	4:21	35	5	5			1	2.0	17	
18	63	54	59	-11	6	.19	0	NE	12.3	22	NE	0:00	0	10	8			1	2.8	18	
19	71	63	67	-3	0	.02	0	NE	11.6	15	NE	0:00	0	10	10			5	2.8	19	
20	71	65	68	-2	0	.36	0	NNE	12.6	20	N	0:00	0	10	10			8	2.8	20	
21	88	65	77	+8	0	0	0	NNW	7.9	14	W	9:21	77	3	3			11	0.4	21	
22	88	59	74	+8	0	0	0	N	6.8	14	N	12:10	100	0	0			11	0.8	22	
23	91	63	77	+8	0	0	0	NNW	4.2	12	N	12:03	99	1	1			12	0.7	23	
24	92	66	79	+11	0	0	0	NNE	6.1	10	N	11:30	95	3	3			13	0.7	24	
25	92	62	77	+9	0	0	0	NW	5.9	11	W	11:15	93	3	2	DL		13	1.5	25	
26	88	63	76	+9	0	0	0	W	6.0	7	NE	8:25	70	4	4	DL		11	2.5	26	
27	69	62	66	-1	0	0	0	NE	6.7	12	NE	0:00	0	10	9	T		5	2.0	27	
28	84	56	70	+3	0	0	0	NE	5.9	12	NE	11:16	94	7	5			6	2.1	28	
29	75	44	60	-6	5	0	0	NNE	6.1	10	NE	11:53	100	0	0			0	2.3	29	
30	77	39	58	-8	7	0	0	ESE	5.5	12	NE	11:51	100	0	0			0	2.1	30	
31																					31
Sum	2541	1870				1.64	0		207.8			244:37		142	128			304	37.3	Sum	
Avg	81.7	62.3							6.9	Fastest			4.7	4.3					1.2		Avg.
T									Misc.	22	NE	372:43	66								Misc.

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

**TEMPERATURE: (°F)**  
 Average monthly 73.5  
 Departure from normal +3.2  
 Highest 95 on 3rd  
 Lowest 39 on 30th  
 Number of days with -  
 Max. 32° or below 0  
 Max. 90° or above 12  
 Min. 32° or below 0  
 Min. 0° or below 0

**HEATING DEGREE DAYS (base 65°):**  
 Total this month 27  
 Departure from normal -6  
 Seasonal total (since July 1) 27  
 Seasonal departure from normal -6

**BAROMETRIC PRESSURE (In.)**  
 Avg. station (elev. 164 \*feet, m. s. l.) 29.922  
 Highest sea level 30.41 on 30th  
 Lowest sea level 29.76 on 14th

**PRECIPITATION: (In.)**  
 Total for the month 1.64  
 Departure from normal -2.01  
 Greatest in 24 hours .87 on 6-7th  
 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  
 BS - 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

New record low temperature of 45.8 on 16th broke old record of 49.2 set in 1902.  
 New record low temperature of 39.3 on 30th broke old record of 39.6 set in 1951.  
**EXCESSIVE PRECIPITATION**  
 Period: Minutes 5 10 15 20 30 45 60 80 100 120 150 180  
 Sept. 7th Amounts .29 .51 .60 .60 .60 .60 .60 .60 .60 .60 .60 .60

**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																								1	
2																								2	
3																								3	
4			T																					4	
5				T																				5	
6																								6	
7																								7	
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29																								29	
30																								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**

HIMBORAZO PARK, RICHMOND, VIRGINIA  
 NATIONAL BATTLEFIELD PARK HEADQUARTERS  
 SEPTEMBER 1961

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 at 8:00 AM (In.)	Wind			Sunshine		Sky cover		Thunderstorm or distant lightning	Weather restricting visibility to 1/4 mile or less	20	21	22	23	Date			
	Maximum	Minimum	Average				Departure from normal	Degrees 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	92	72	82	+7	0	.10																	1
2	94	72	83	+8	0	0																	2
3	93	71	82	+7	0	0																	3
4	93	71	82	+7	0	0																	4
5	92	74	83	+9	0	0																	5
6	92	74	83	+9	0	0																	6
7	94	72	83	+9	0	0																	7
8	90	71	81	+7	0	.02																	8
9	95	66	81	+7	0	0																	9
10	89	62	76	+3	0	0																	10
11	97	67	82	+9	0	0																	11
12	92	67	80	+7	0	0																	12
13	93	67	80	+7	0	0																	13
14	94	70	82	+10	0	0																	14
15	84	69	77	+5	0	.03																	15
16	74	49	62	-10	3	0																	16
17	81	51	66	-6	2	0																	17
18	74	52	63	-8	2	0																	18
19	65	58	62	-9	3	.18																	19
20	70	64	67	-3	0	.04																	20
21	72	63	68	-2	0	.44																	21
22	88	63	76	+6	0	0																	22
23	77	65	71	+2	0	0																	23
24	91	65	78	+9	0	0																	24
25	92	62	77	+9	0	0																	25
26	92	68	80	+12	0	.02																	26
27	87	62	75	+7	0	0																	27
28	70	58	64	-3	1	0																	28
29	83	52	68	+1	0	0																	29
30	86	46	66	-1	0	0																	30
31																							31
Sum	2586	1923				.83																	Sum
Avg	86.2	64.1									Fastest	Dir.	Possible	%									Avg.

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

**TEMPERATURE: (°F)**  
 Average monthly 75.2  
 Departure from normal +4.0  
 Highest 97 on 11th  
 Lowest 46 on 30th  
 Number of days with -  
 Max. 32° or below 0  
 Max. 90° or above 16  
 Min. 32° or below 0  
 Min. 0° or below 0

**HEATING DEGREE DAYS (base 65°):**  
 Total this month 9  
 Departure from normal -22  
 Seasonal total (since July 1) 9  
 Seasonal departure from normal -22

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

**PRECIPITATION: (In.)**  
 Total for the month .83  
 Departure from normal -2.53  
 Greatest in 24 hours .44 on 21st  
 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 the date of entry.