

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

RICHMOND, VIRGINIA  
 BYRD FIELD  
 DECEMBER 1959

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 7:00AM (In.)	Wind			Sunshine		Sky cover		Thunderstorm or distant lightning	Weather restricting visibility to 1/4 mile or less	COOLING DEGREE DAYS (Base 60)	STAGE James River 8:00AM (feet)			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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	50	24	37	-6	28	0	0	0	SE	5.9	11	E	8:46	100	1	1			0	0.6			1
2	55	25	40	-3	25	0	0	0	SE	5.5	13	S	8:45	100	8	6			0	1.9			2
3	53	31	42	+1	23	0	0	0	NNW	7.4	13	N	9:44	100	4	3			0	2.5			3
4	57	30	44	+2	21	0	0	0	NNE	7.5	13	NE	9:43	100	0	2			0	3.3			4
5	53	30	42	0	23	0	0	0	NW	4.1	8	N	3:10	33	10	8			0	3.0			5
6	50	40	45	+4	20	.06	0	0	SE	5.7	11	S	0:00	0	10	10			0	3.0			6
7	45	33	39	-2	26	T	T	0	WSW	16.3	25	SW	6:36	68	5	5		FK	0	2.0			7
8	52	29	41	0	24	0	0	0	SW	9.8	17	SW	9:39	100	0	0			0	-0.9			8
9	60	25	43	+3	22	0	0	0	SW	7.9	13	SW	9:38	100	0	0			0	-0.6			9
10	56	24	40	0	25	0	0	0	WNW	5.0	8	NW	9:38	100	6	4			0	-1.3			10
11	60	25	43	+3	22	.01	0	0	S	7.2	11	SE	7:30	78	9	7			0	-1.2			11
12	61	48	55	+15	10	.71	0	0	SSE	10.3	20	W	0:00	0	10	9			0	-0.7			12
13	56	35	46	+7	19	T	0	0	W	10.0	19	NW	7:30	78	4	3			0	-0.1			13
14	47	27	37	-2	28	0	0	0	N	6.4	14	N	9:35	100	2	3			0	1.4			14
15	52	24	38	-1	27	0	0	0	SSW	5.7	11	S	4:54	51	8	5			0	2.1			15
16	66	34	50	+11	15	T	0	0	SSW	6.5	9	W	8:17	86	7	6			0	2.4			16
17	59	42	51	+12	14	T	0	0	NNE	4.2	10	NE	0:03	1	10	10			0	2.0			17
18	49	45	47	+8	18	.34	0	0	NNE	8.6	20	N	0:00	0	10	10			0	2.6			18
19	45	32	39	0	26	.72	1.2	T	NNW	14.0	22	NW	6:24	67	4	4		S	0	3.3			19
20	38	23	31	-8	34	0	0	0	NNW	6.1	9	N	8:09	85	5	5			0	3.4			20
21	41	30	36	-3	29	0	0	0	WNW	5.1	10	NE	0:23	4	10	9			0	3.5			21
22	36	24	30	-9	35	0	0	0	NW	9.0	16	NW	9:34	100	0	0			0	3.1			22
23	30	17	24	-15	41	0	0	0	NNE	7.3	9	N	4:16	45	8	7			0	2.9			23
24	38	22	30	-9	35	.01	0	0	N	8.1	9	N	0:57	10	9	9			0	2.5			24
25	46	30	38	-1	27	T	T	0	NNW	3.6	8	NW	1:07	12	10	8			0	1.8			25
26	63	32	48	+10	17	0	0	0	SSW	5.9	10	SW	3:22	35	10	9			0	1.3			26
27	69	49	59	+21	6	0	0	0	SW	8.0	14	SW	7:29	78	3	7			0	0.3			27
28	61	48	55	+17	10	.39	0	0	S	10.8	19	SW	0:00	0	10	9			0	1.0			28
29	60	38	49	+11	16	T	0	0	WSW	7.9	13	SW	0:05	1	10	6			0	2.0			29
30	50	35	43	+5	22	0	0	0	WSW	8.2	13	SW	5:25	57	5	5			0	2.8			30
31	43	27	35	-3	30	T	T	0	N	6.8	15	NW	4:12	44	7	6			0	3.0			31
Sum	1601	978				2.24	1.2			234.9			164:51		195	176			0	52.9			Sum
Avg	51.6	31.5								7.4	Fastest	Dir.	Possible	%	6.3	5.7				1.7			Avg.
T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure.																							

TEMPERATURE: (°F) Average monthly 41.6 Departure from normal +2.1 Highest 69 on 27th Lowest 17 on 23rd Number of days with - Max. 32° or below 1 Max. 90° or above 0 Min. 32° or below 20 Min. 0° or below 0

HEATING DEGREE DAYS (base 65°): Total this month 718 Departure from normal -73 Seasonal total (since July 1) 1501 Seasonal departure from normal -31

BAROMETRIC PRESSURE (In.) Avg. station (elev. 164 \*feet, m. s. l.) 29.52 Highest sea level 30.66 on 24th Lowest sea level 29.36 on 6th

PRECIPITATION: (In.) Total for the month 2.24 Departure from normal -.65 Greatest in 24 hours 0.97 on 18-19 Snow, Sleet- Total for the month 1.2 Greatest in 24 hours 1.2 on 19th Greatest depth on ground 1 on 19th Dates of - Hail 0 Sleet 19th 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.

Errata November 1959: Max temp, 15th, 62°. Sum of max, 1743. Greatest snow depth on ground, none.

NO EXCESSIVE PRECIPITATION

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																								4	
5																								5	
6																								6	
7																								7	
8																								8	
9																								9	
10																								10	
11																								11	
12																								12	
13																								13	
14																								14	
15																								15	
16																								16	
17																								17	
18																								18	
19																								19	
20																								20	
21																								21	
22																								22	
23																								23	
24																								24	
25																								25	
26																								26	
27																								27	
28																								28	
29																								29	
30																								30	
31																								31	

Known errors found in this issue will be published as errata in later issues.

Subscription Price: \$1.50 per year including supplement and annual summary if published. Separate copies 15 cents for each month, 15 cents for annual.

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.

DEPARTMENT OF COMMERCE, WEATHER BUREAU  
**LOCAL CLIMATOLOGICAL DATA**

SHIMBORAZO PARK, RICHMOND, VIRGINIA  
 NATIONAL BATTLEFIELD PARK HEADQUARTERS  
 DECEMBER 1939

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

Date	Temperature (°F) <sup>Δ</sup>					Precipitation		Snow, Sleet, or Ice on ground at 8:00 AM (In.)	9	Wind			Sunshine		Sky cover			20	21	22	23	24
	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)	Thunderstorm or distant lightning					
1	40	20	30	-15	35	0																1
2	48	24	36	-9	29	0																2
3	53	26	40	-4	25	0																3
4	52	32	42	-2	23	0																4
5	57	31	44	+1	21	0																5
6	49	37	43	0	22	0																6
7	45	31	38	-5	27	0.12																7
8	40	25	33	-9	32	0																8
9	49	25	37	-5	28	0																9
10	57	27	42	+1	23	0																10
11	57	27	42	+1	23	0																11
12	58	27	43	+2	22	0.24																12
13	57	41	49	+9	16	0.50																13
14	58	30	44	+4	21	0																14
15	47	25	36	-4	29	0																15
16	50	27	39	-1	26	0																16
17	64	32	48	+8	17	0																17
18	56	42	49	+9	16	0.06																18
19	45	30	38	-2	27	.09																19
20	43	24	34	-6	31	0																20
21	39	27	33	-7	32	0																21
22	39	26	33	-7	32	0																22
23	36	18	27	-13	38	0																23
24	30	18	24	-16	41	0																24
25	41	28	35	-5	30	T																25
26	61	32	47	+7	18	0																26
27	57	35	46	+6	19	0																27
28	67	47	57	+17	8	0																28
29	57	47	52	+12	13	0.74																29
30	46	43	45	+5	20	T																30
31	55	34	45	+5	20	0																31
Sum	1553	938																				Sum
Avg	50.1	30.3									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 40.2  
 Departure from normal -0.6  
 Highest 61 on 26th  
 Lowest 18 on 23, 24  
 Number of days with -  
 Max. 32° or below 1  
 Max. 90° or above 0  
 Min. 32° or below 23  
 Min. 0° or below 0

HEATING DEGREE DAYS (base 65°):  
 Total this month 762  
 Departure from normal +12  
 Seasonal total (since July 1) 1547  
 Seasonal departure from normal +129  
 BAROMETRIC PRESSURE (In.)  
 Avg. station (elev. \*feet, m. s. l.)  
 Highest sea level on  
 Lowest sea level on

PRECIPITATION: (In.)  
 Total for the month 1.75  
 Departure from normal -1.17  
 Greatest in 24 hours .74 on 29th  
 Snow, Sleet -  
 Total for the month  
 Greatest in 24 hours on  
 Greatest depth on ground on  
 Dates of - Hail  
 Sleet Glaze

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

<sup>Δ</sup> Observation day for 24 hours ending 8 A.M. Maximum temperatures will usually have occurred on calendar day preceding the date of entry.