

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

RICHMOND, VIRGINIA
 BYRD FIELD
 NOVEMBER 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.)	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)	STAGE James River 8:00AM (feet)	22	23	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)	Speed (m. p. h.)	Direction										
1	73	52	63	+10	2	0	0	0	WSW	10.6	20	W	5:29	52	6	4										1	
2	65	40	53	0	12	0	0	0	NNE	10.8	19	SW	6:25	61	5	2										2	
3	55	34	45	-8	20	0	0	0	S	8.5	13	SE	10:33	100	1	3										3	
4	68	47	58	+6	7	0	0	0	SSW	12.5	17	SW	5:22	51	8	7										4	
5	78	57	68	+16	0	0	0	0	S	12.6	17	S	4:48	46	9	3										5	
6	80	43	62	+10	3	2.71	0	0	S	12.8	26	N	1:44	17	10	10	T									6	
7	43	36	40	-12	23	1.29	0	0	NNW	12.3	17	N	0:00	0	10	10										7	
8	48	36	42	-9	23	0	0	0	N	8.9	12	N	0:08	1	9	9										8	
9	53	31	42	-19	23	0	0	0	NNW	8.3	11	N	10:21	100	1	0										9	
10	58	30	44	-7	21	0	0	0	NNW	5.3	12	N	10:20	100	0	0										10	
11	59	30	45	-5	20	0	0	0	SSE	6.0	12	S	3:12	31	9	7										11	
12	62	40	51	+1	14	0	0	0	ESE	5.8	12	NE	6:55	67	7	6										12	
13	65	44	55	+5	10	0	0	0	N	3.7	9	E	0:43	7	9	9										13	
14	80	56	68	+19	0	0	0	0	NW	3.9	19	N	4:56	48	8	9										14	
15	61	44	53	+4	12	0	0	0	N	12.2	19	N	0:18	3	10	9										15	
16	51	44	48	0	17	0	0	0	SE	5.3	8	NE	0:00	0	10	10										16	
17	54	28	41	-7	24	.05	0	0	N	8.0	17	N	0:00	0	10	8										17	
18	34	21	28	-20	37	0	0	0	NNW	8.4	14	N	7:21	75	3	2										18	
19	54	22	38	-9	27	0	0	0	SSW	8.0	11	NE	10:03	100	1	2										19	
20	50	24	37	-10	28	0	0	0	SE	6.1	10	NE	7:37	76	6	7										20	
21	44	33	39	-8	26	.39	0	0	SSE	5.1	10	SE	0:00	0	10	10										21	
22	60	35	48	+2	17	0	0	0	N	5.8	13	NE	7:33	76	3	6										22	
23	57	29	43	-3	22	.02	0	0	S	4.4	9	S	5:18	53	7	6										23	
24	62	46	54	+8	11	3.00	0	0	SE	8.1	17	S	0:00	0	10	10	T									24	
25	55	32	44	-1	21	.01	0	0	WSW	11.2	22	SW	5:35	56	5	4										25	
26	55	28	42	-3	23	0	0	0	SE	8.0	13	SE	8:15	84	2	2										26	
27	70	42	56	+11	9	.11	0	0	S	12.2	26	S	32:06	21	10	8										27	
28	65	40	53	+9	12	.01	0	0	NNW	13.1	28	S	0:00	0	10	10										28	
29	41	27	34	-10	31	0	0	0	NW	10.2	18	NW	1:02	11	9	6										29	
30	30	42	21	-12	33	0	0	0	SW	9.9	14	SW	9:47	100	0	0										30	
31																											31
Sum	1742	1092				7.64	T			256.6			135:51		198	184										Sum	
Avg	58.1	36.4								8.6	Fastest	Dir.	Possible	%	6.6	6.1											Avg.

T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure. Misc. 28 S 305:06 45

TEMPERATURE: (°F) Average monthly 47.3 Departure from normal -1.1 Highest 80 on 6,14 Lowest 21 on 18,30 Number of days with - Max. 32° or below 0 Max. 90° or above 0 Min. 32° or below 12 Min. 0° or below 0

HEATING DEGREE DAYS (base 65°): Total this month 530 Departure from normal +32 Seasonal total (since July 1) 783 Seasonal departure from normal +42

PRECIPITATION: (In.) Total for the month 7.64 Departure from normal +5.15 Greatest in 24 hours 3.94 on 6-7th Snow, Sleet— Total for the month T Greatest in 24 hours T on 29th Greatest depth on ground T on 29th Dates of - Hail 0 Sleet 0 Glaze 0

BAROMETRIC PRESSURE (In.) Avg. station (elev. 164 *feet, m. s. l.) 29.958 Highest sea level 30.49 on 18th Lowest sea level 29.38 on 24th

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 2R = 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.

Wettest November of record including all combined Richmond records dating from 1871. The 21° minimum temperature on the 18th was a new low record for the date, and the maximum of 80° on the 6th equalled the highest of record for that date.

EXCESSIVE PRECIPITATION

Period:	Minutes	5	10	15	20	30	45	60	80	100	120	150	180
Nov. 6	Amounts	.20	.34	.47	.56	.70	.87	.92	1.01	1.28	1.39	1.51	1.77
Nov. 24		.18	.26	.38	.43	.48	.69	.78	1.10	1.23	1.31	1.41	1.47

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				.02	.01	.01	.01	.01	T									T	T	T	T	.01	.04	T		6	
7	.23	.17	.03	.02	T	.21	.18	.13	.16	.05	.02	.04	.02	T	.01			.34	.92	.48	.34	.19	.37			7	
8																											8
9																											9
10																											10
11																											11
12																											12
13																											13
14				T	T																						14
15																											15
16																											16
17				T	T	.02	.02	.01	T									T	T								17
18																											18
19																											19
20																											20
21																											21
22																											22
23																											23
24				T	.01	.04	.03	.14	.19	.29	.09	.13	.11	.59	.69	.19	.03	T	.06	T	.01	.10	.06	.01			24
25				T			.01																				25
26																											26
27																											27
28	.01	T																							.01	.10	28
29																											29
30																											30
31																											31

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DEPARTMENT OF COMMERCE, WEATHER BUREAU
LOCAL CLIMATOLOGICAL DATA

CHIMBORAZO PARK, RICHMOND, VIRGINIA
 NATIONAL BATTLEFIELD PARK HEADQUARTERS
 NOVEMBER 1959

Latitude 37° 32' N.

Longitude 77° 27' W.

Elevation (ground) 170 ft.

EASTERN Standard time used

Date	Temperature (°F) Δ				Precipitation		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				Date			
	Maximum	Minimum	Average	Departure from normal	Degrees 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	68	51	60	+5	5	.05	0	0															1
2	74	46	60	+6	5	0	0	0															2
3	66	32	49	-5	16	0	0	0															3
4	56	38	47	-7	18	0	0	0															4
5	70	45	58	+4	7	0	0	0															5
6	78	56	67	+14	0	.10	0	0															6
7	78	33	56	+3	9	3.63	0	0															7
8	50	28	39	-13	26	.50	0	0															8
9	47	29	38	-14	27	0	0	0															9
10	55	29	42	-10	23	0	0	0															10
11	73	30	52	+1	13	0	0	0															11
12	55	37	46	-5	19	0	0	0															12
13	60	38	49	-2	16	0	0	0															13
14	75	43	59	+9	6	0	0	0															14
15	79	42	65	+15	0	0	0	0															15
16	46	40	43	-7	22	0	0	0															16
17	49	42	46	-3	19	.08	0	0															17
18	52	19	36	-13	29	0	0	0															18
19	34	19	27	-22	38	0	0	0															19
20	54	21	38	-11	27	0	0	0															20
21	48	27	38	-10	27	0	0	0															21
22	46	35	41	-7	24	0.42	0	0															22
23	53	31	42	-6	23	0	0	0															23
24	55	32	44	-3	21	.98	0	0															24
25	59	40	50	+3	15	2.49	0	0															25
26	51	27	39	-8	26	0	0	0															26
27	55	35	45	-1	20	0	0	0															27
28	69	51	60	+14	5	0.21	0	0															28
29	56	31	44	-2	21	0	0	0															29
30	53	19	36	-9	29	0	0	0															30
31																							31
Sum	1764	1046				8.46	0																Sum
Avg	58.8	34.9									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 46.9
 Departure from normal -2.9
 Highest 79 on 15th
 Lowest 19 on 18,19,30
 Number of days with -
 Max. 32° or below 0
 Max. 90° or above 0
 Min. 32° or below 14
 Min. 0° or below 0

HEATING DEGREE DAYS (base 65°):
 Total this month 536
 Departure from normal +80
 Seasonal total (since July 1) 785
 Seasonal departure from normal +117
 BAROMETRIC PRESSURE (In.)
 Avg. station (elev. *feet, m. s. l.)
 Highest sea level on
 Lowest sea level on

PRECIPITATION: (In.)
 Total for the month 8.46
 Departure from normal +6.05
 Greatest in 24 hours 3.63 on 7th
 Snow, Sleet -
 Total for the month 0
 Greatest in 24 hours 0 on 0
 Greatest depth on ground 0 on 0
 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.

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