

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

RICHMOND, VIRGINIA
 BYRD FIELD
 MARCH 1961

Latitude $37^{\circ} 30' N$. Longitude $77^{\circ} 20' W$. Elevation (ground) 162 ft. Eastern Standard time used

Date	Temperature (°F)						Precipitation		Snow, Sleet, or Ice on ground at 7:00 AM (In.)	Wind	Fastest mile		Sunshine	Sky cover		Thunderstorm or distant lightning	Weather restricting visibility to 1/4 mile or less	Cooling Degree Days (Base 60°)	James River Stage at City Locks Stage, in Feet & 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.)	Speed (m. p. h.)		Direction	Total (hours and minutes)							
1	43	33	38	-5	27	.11	0	0	W	5.6	8	NW	0:00	0	10	9					1	
2	58	34	46	+2	19	T	0	0	WNW	7.0	10	SW	11:25	100	2	3					2	
3	69	38	54	+10	11	0	0	0	SSW	10.0	14	SW	10:28	91	5	3					3	
4	81	47	64	+20	1	.01	0	0	SSW	6.8	15	SW	6:02	52	6	8					4	
5	84	63	74	+29	0	0	0	0	SW	7.8	13	SW	4:35	40	10	9					5	
6	84	61	73	+28	0	0	0	0	SW	10.3	25	NW	2:10	19	9	8					6	
7	83	61	72	+27	0	0	0	0	WSW	9.3	14	E	6:32	56	8	8					7	
8	61	43	52	+6	13	.57	0	0	E	10.3	17	E	0:00	0	10	10		RLF			8	
9	47	39	43	-3	22	.02	0	0	WNW	12.3	21	W	0:27	4	9	9					9	
10	47	28	38	-8	27	0	0	0	NW	13.3	26	NW	11:44	100	1	2					10	
11	64	24	44	-3	21	0	0	0	SW	8.5	21	SW	11:46	100	3	1					11	
12	75	35	55	+8	10	0	0	0	SE	5.3	12	SE	10:17	87	3	4					12	
13	62	44	53	+6	12	.03	0	0	E	8.7	16	E	5:00	42	7	8					13	
14	61	44	53	+6	12	.09	0	0	NE	6.6	14	N	1:12	10	9	8		DL			14	
15	70	41	56	+8	9	0	0	0	WSW	10.5	24	SW	9:17	78	8	6					15	
16	55	34	45	+3	20	.12	0	0	NW	10.3	26	NW	8:08	68	5	5					16	
17	43	27	35	-13	30	0	0	0	NNE	10.2	30	N	12:00	100	0	1					17	
18	44	22	33	-15	32	.11	0	0	E	7.2	11	SE	1:33	13	9	7					18	
19	64	36	50	+1	15	.19	0	0	WNW	6.8	14	NE	5:20	44	8	8					19	
20	57	36	47	-2	18	0	0	0	NNE	8.6	16	NE	12:08	100	3	4					20	
21	52	35	44	-5	21	.52	T	0	E	9.2	27	E	2:14	18	10	10					21	
22	41	37	39	-10	26	1.01	0	0	NNE	9.3	17	NE	0:00	0	10	10					22	
23	49	38	44	-6	21	.02	0	0	WNW	6.8	12	W	0:06	1	9	9					23	
24	45	37	41	-9	24	.26	0	0	ESE	6.9	10	NE	0:00	0	10	9					24	
25	62	37	50	0	15	0	0	0	NW	9.4	23	NW	12:19	100	1	1					25	
26	67	33	50	0	15	0	0	0	WNW	5.2	12	N	12:22	100	1	2					26	
27	81	43	62	+11	3	0	0	0	SSW	8.3	17	SW	9:09	74	8	8					27	
28	83	50	67	+16	0	.10	0	0	SW	8.4	18	NW	7:24	59	9	9					28	
29	76	43	60	+9	5	0	0	0	WSW	7.2	15	W	10:46	86	5	5					29	
30	63	44	54	+4	11	T	0	0	NE	6.2	14	NW	6:31	52	6	6					30	
31	46	41	44	-8	21	.86	0	0	ESE	9.4	17	E	0:00	0	10	10					31	
Sum	1917	1228				4.02	T			261.7			190:55	204	200			27	66.9		Sum	
Avg	61.8	39.6								8.4	Fastest	Dir.	Possible	%	6.6	6.5					Avg.	
T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure.																						

TEMPERATURE (°F)
 Average monthly 50.7
 Departure from normal +3.2
 Highest 84 on 5th, 6th
 Lowest 22 on 18th
 Number of days with -
 Max. 32° or below 0
 Max. 90° or above 0
 Min. 32° or below 4
 Min. 0° or below 0

HEATING DEGREE DAYS (base 65°)
 Total this month 461
 Departure from normal -89
 Seasonal total (since July 1) 3720
 Seasonal departure from normal +102

PRECIPITATION (In.)
 Total for the month 4.02
 Departure from normal +.60
 Greatest in 24 hours 1.48 on 21st-22nd
 Snow, Sleet -
 Total for the month T
 Greatest in 24 hours T on 21st
 Greatest depth on ground T on 21st
 Dates of - Hail 0
 Sleet 21st Glaze 0

BAROMETRIC PRESSURE (In.)
 Avg. station (elev. 164 feet m. s. l.) 29.819
 Highest sea level 30.58 on 18th
 Lowest sea level 29.41 on 8th

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.

New daily high temperature records established on 4 consecutive days, 4th through 7th. Also, 84° on 5th set a new record for highest so early in season.

NO EXCESSIVE PRECIPITATION

Since June 26, 1959, temperature data have normally been taken from a new type of thermometer in a different and well-exposed location.

Errata: February 1961: Snow, Col. 8, 0; Average Wind Speed 7.8 on 6th, Sum of Column 11 231.9, Average 8.3.

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																	.01	.06	.03	.01					T	2
3																										3
4																										4
5																										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

EMBORAZO PARK, RICHMOND, VIRGINIA
 NATIONAL BATTLEFIELD PARK HEADQUARTERS
 MARCH 1961

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

Date	Temperature (°F) ¹			Precipitation		Snow, Sleet, or Ice on ground at 8:00 AM (In.)	Wind			Sunshine		Sky cover			Weather restricting visibility to 1/4 mile or less					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)	Thunderstorm or distant lightning	
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	57	34	46	+ 2	19	.07																	1
2	44	36	40	- 5	25	.10																	2
3	57	37	47	+ 2	18	0																	3
4	69	39	54	+ 9	11	0																	4
5	81	62	72	+26	0	0																	5
6	84	61	73	+27	0	0																	6
7	81	60	71	+25	0	0																	7
8	80	44	62	+16	3	0																	8
9	48	40	44	- 3	21	.50																	9
10	47	32	40	- 7	25	0																	10
11	48	25	37	-10	28	0																	11
12	64	42	53	+ 5	12	0																	12
13	75	45	60	+12	5	0																	13
14	53	43	48	0	17	.25																	14
15	61	39	50	+ 2	15	0																	15
16	69	45	57	+ 8	8	.17																	16
17	54	28	41	- 8	24	T																	17
18	43	26	35	-14	30	T																	18
19	45	34	40	- 9	25	.37																	19
20	63	36	50	0	15	0																	20
21	57	36	47	- 3	18	0																	21
22	53	35	44	- 6	21	1.01																	22
23	40	36	38	-12	27	.57																	23
24	50	35	43	- 8	22	.11																	24
25	47	38	43	- 8	22	.25																	25
26	62	34	48	- 3	17	0																	26
27	66	44	55	+ 4	10	0																	27
28	78	50	64	+12	1	0																	28
29	81	50	66	+14	0	.17																	29
30	75	51	63	+11	2	0																	30
31	64	44	54	+ 2	11	0																	31
Sum	1896	1261				3.62																	Sum
Avg	61.2	40.7									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 51.0
 Departure from normal + 2.8
 Highest 84 on 6th
 Lowest 25 on 11th
 Number of days with -
 Max. 32° or below 0
 Max. 90° or above 0
 Min. 32° or below 4
 Min. 0° or below 0

HEATING DEGREE DAYS (base 65°):
 Total this month 452
 Departure from normal - 77
 Seasonal total (since July 1) 3576
 Seasonal departure from normal +130

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

PRECIPITATION: (In.)
 Total for the month 3.62
 Departure from normal + .19
 Greatest in 24 hours 1.01 on 22nd
 Snow Sleet-
 Total for the month 0
 Greatest in 24 hours 0 on -
 Greatest depth on ground 0 on -
 Dates of - Hail
 Sleet Glaze

Symbols used in columns 18-19
 A = Hail L = Drizzle
 BS = Blowing snow N = Sand
 DL = Distant lightning R = Rain
 D = Dust S = Snow
 I = 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 the date of entry.