

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

RICHMOND, VIRGINIA
 BYRD FIELD
 OCTOBER 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 60°)	James River Stage at City Locks** Stage in feet 8 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	80	47	64	-1	1	T	0	0	ESE	5.7	12	NE	5:43	48	7	7				1.8	1
2	68	61	65	0	0		1.38	0	N	9.7	14	N	0:00	0	10	10	F			1.6	2
3	64	48	56	-9	9		.23	0	NNE	10.6	18	N	0:00	0	10	10				-0.1	3
4	64	41	53	-11	12		.02	0	N	10.5	18	N	9:12	79	2	4				-0.1	4
5	70	35	53	-11	12		0	0	S	4.4	8	SW	11:39	100	0	0				-0.1	5
6	79	40	60	-3	5		0	0	S	3.3	7	NW	11:37	100	0	0				-0.1	6
7	81	43	62	-1	3		0	0	SW	2.9	4	N	11:23	98	5	3				-0.4	7
8	82	48	65	+3	0		0	0	N	3.7	7	NE	11:17	98	7	3				-0.5	8
9	82	53	68	+6	0		0	0	N	3.7	8	NE	6:06	53	10	7				0.1	9
10	83	47	65	+4	0		0	0	NNW	3.6	8	N	11:28	100	0	0				0.7	10
11	80	48	64	+3	1		0	0	N	4.7	8	NE	11:25	100	0	0				1.1	11
12	77	48	63	+3	2		0	0	N	5.0	7	NE	7:31	66	4	3				1.5	12
13	81	48	65	+5	0		0	0	SSW	5.0	10	S	9:02	80	1	1				2.1	13
14	69	43	56	-4	9		.43	0	N	9.6	27	N	0:00	0	10	7				1.8	14
15	62	43	53	-6	12		0	0	WNW	9.3	19	W	8:11	73	3	5				1.4	15
16	67	41	54	-5	11		0	0	NNE	6.6	18	NE	9:17	83	2	3				1.2	16
17	74	38	56	-3	9		0	0	SSW	5.8	14	SW	11:11	100	0	0				1.6	17
18	79	45	62	+4	3		0	0	SSW	5.8	14	SW	11:09	100	0	0				0.6	18
19	75	42	59	+1	6		0	0	SE	5.6	10	SE	6:32	59	3	3				-0.9	19
20	63	53	58	0	7		4.75	0	ESE	10.1	18	S	0:00	0	10	10				-0.4	20
21	55	49	52	-5	13		1.96	0	N	10.5	21	N	0:00	0	10	10				5.8	21
22	57	44	51	-6	14		T	0	N	10.3	16	N	0:00	0	10	9				14.1	22
23	63	38	51	-5	14		0	0	N	6.5	11	NE	10:57	100	1	1				16.7	23
24	64	35	50	-6	15		0	0	SSE	3.8	7	S	10:29	96	3	2				10.0	24
25	78	43	61	+5	4		0	0	SSW	8.1	15	SW	10:53	100	1	0				4.4	25
26	64	37	51	-4	14		T	0	NW	9.1	17	NW	7:42	71	4	4				2.8	26
27	61	32	47	-8	18		0	0	NW	4.0	14	NW	10:35	98	1	0				2.0	27
28	66	30	48	-7	17		0	0	SSE	4.8	12	SW	6:12	58	5	4				1.6	28
29	75	41	58	+4	7		0	0	SW	7.9	17	SW	10:44	100	0	1				1.8	29
30	84	47	66	+12	0		0	0	WSW	8.9	17	SW	8:32	80	8	6				1.3	30
31	83	66	75	+21	0		0	0	W	11.1	21	NW	4:43	44	6	6				0.8	31
Sum	2230	1374					8.78	0		210.6			233:30		133	121			41	74.3	Sum
Avg	71.9	44.3								6.8	Fastest	Dir.	Possible	%	4.3	3.9				2.4	Avg.
T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure. Misc. 27 N 34.8:02 67																					

TEMPERATURE: (°F) Average monthly 58.1, Total this month 218, Departure from normal -0.7, Highest 84 on 30th, Lowest 30 on 28th, Number of days with - Max. 32° or below 0, Max. 90° or above 0, Min. 32° or below 2, Min. 0° or below 0.

HEATING DEGREE DAYS (base 65°) Total this month 218, Departure from normal +8, Seasonal total (since July 1) 245, Seasonal departure from normal +2.

PRECIPITATION: (In.) Total for the month 8.78, Departure from normal +6.17, Greatest in 24 hours 6.50 on 20-21st, 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 /RISE 0.

BAROMETRIC PRESSURE (In.) Avg. station (elev. 164 *feet, m. s. l.) 29.915, Highest sea level 30.47 on 28th, Lowest sea level 29.54 on 20th.

EXCESSIVE PRECIPITATION
 Period: Minutes 5 10 15 20 30 45 60 80 100 120 150 180
 Oct. 20th Amounts .23 .45 .61 .70 .83 .95 1.00 1.39 1.71 1.81 2.14 2.22
 Oct. 20th " .11 .22 .31 .39 .56 .69 .92 1.18 1.36 1.50 1.69 1.86

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

Greatest October precipitation in history, breaking old record of 8.51 set in 1890, and greatest rainfall in 24 hours, erasing mark of 4.81 set in 1929. New low temperature record set on 5th.

Flash flooding occurred in Upham Basin in Richmond's west end night of 20-21st. James River crested above flood stage morning of 23rd; 18.0 ft. at Westham gage, 16.7 at City Locks; Worst flooding since August 1955.

Chimborazo Park data (normally printed on reverse side this page) is omitted this month because of missing observations and doubtful data.

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				T	.05	.06	.09	.15	.13	.07	.14	.08	.09	.04	.04	.04	.05	.08	.11	.12	.04	T	T	3		
4			T	.02	T															.03	.11	.01	T	.02	T	4
5			T																						5	
6																									6	
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20																									20	
21		.55	.47	.32	.19	.02	.01	.02	.10	.04	.01	.15	.04	T	.02	.97	.78	.47	.02	.03	.27	.18	.75	.72	.35	21
22			T	T	T																				22	
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Known errors found in this issue will be published in later issues.

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