

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

RICHMOND, VIRGINIA  
 BYRD FIELD  
 NOVEMBER 1963

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

Date	Temperature (°F)			Precipitation (In.)	Snow, Sleet (In.)	Snow, Sleet, or Ice on ground at 7:00 A.M. (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, 8AM.			Date	
	Maximum	Minimum	Average				Prevailing direction	Average speed (m. p. h.)	Fastest mile Speed (m. p. h.)	Direction	Total (hours and minutes)	Percent of possible	Sunrise to sunset (tenths)								Midnight to midnight (tenths)
1	72	44	58	+4	7	.62	T	0	SSW	11.2	20	N	1:02	10	10	10				1	
2	52	37	45	-9	20	.21	T	0	WNW	13.8	24	NW	4:33	43	4	4	0	0	-0.1	2	
3	56	31	44	-10	21	0	0	0	WSW	9.6	16	NW	9:15	88	3	3	0	0	0.1	3	
4	62	26	44	-9	21	0	0	0	S	6.9	14	SW	4:29	43	7	7	0	0	0.9	4	
5	66	41	54	+1	11	.01	0	0	S	6.6	9	S	0:00	0	10	10	0	0	1.7	5	
6	59	54	57	+5	8	2.53	0	0	NE	11.6	23	N	0:00	0	10	10	0	0	2.0	6	
7	57	55	56	+4	9	.57	0	0	NNW	15.2	27	NW	0:00	0	10	10	0	0	2.9	7	
8	65	45	55	+3	10	0	0	0	NW	11.4	17	N	3:52	37	7	5	0	0	1.6	8	
9	69	38	54	+3	11	0	0	0	W	6.7	10	NW	10:22	100	1	2	0	0	0.0	9	
10	68	41	55	+4	10	0	0	0	NE	5.2	7	S	9:33	92	0	2	0	0	-0.1	10	
11	68	37	53	+2	12	0	0	0	NNW	6.0	10	N	9:32	93	1	0	0	0	0.2	11	
12	58	30	44	-6	21	0	0	0	NW	6.9	13	NW	10:16	100	0	0	0	0	0.2	12	
13	54	30	42	-8	23	0	0	0	NNW	8.0	10	NW	5:29	54	5	4	0	0	0.3	13	
14	52	29	41	-9	24	0	0	0	NW	7.6	10	NW	7:31	74	2	3	0	0	0.5	14	
15	56	26	41	-8	24	0	0	0	WSW	6.2	10	NW	10:10	100	1	1	0	0	0.1	15	
16	62	25	44	-5	21	0	0	0	SSW	5.8	9	SW	10:08	100	1	2	0	0	-0.2	16	
17	77	50	64	+16	1	0	0	0	SSW	7.5	11	SW	7:58	79	2	3	0	0	0.2	17	
18	75	42	59	+11	6	0	0	0	SSW	8.8	12	SW	7:33	75	4	4	0	0	0.9	18	
19	66	37	52	+5	13	T	0	0	N	7.4	12	N	9:56	99	0	2	0	0	1.3	19	
20	60	32	46	-1	19	0	0	0	SE	6.0	9	N	9:23	94	7	6	0	0	1.8	20	
21	69	42	56	+9	9	.01	0	0	SSW	6.6	11	SW	6:34	66	8	7	0	0	2.2	21	
22	73	42	58	+11	7	0	0	0	S	7.4	12	S	5:45	58	8	6	0	0	2.0	22	
23	69	56	63	+17	2	.57	0	0	S	10.5	19	NW	0:00	0	10	9	0	0	1.5	23	
24	57	32	45	-1	20	0	0	0	N	9.6	17	NE	9:56	100	0	0	0	0	0.3	24	
25	49	26	38	-7	27	0	0	0	NNE	6.3	11	NE	9:54	100	0	0	0	0	-0.1	25	
26	47	26	37	-8	28	.03	0	0	SW	5.2	7	SW	0:29	5	10	9	0	0	-1.2	26	
27	73	43	58	+13	7	0	0	0	SSW	6.1	10	W	8:39	88	2	3	0	0	-0.2	27	
28	67	47	57	+13	8	T	0	0	NE	7.0	10	E	5:09	52	6	5	0	0	-1.3	28	
29	68	36	52	+8	13	2.07	0	0	SSE	13.8	26	NW	1:07	11	10	10	T	0	-0.3	29	
30	45	33	39	-4	26	.08	T	0	W	13.9	22	W	6:27	66	7	7	0	0	-0.3	30	
31																					31
Sum	1871	1133				6.70	T			254.8			185.20		146	144			2	18.0	Sum
Avg	62.4	37.8								8.5	Fastest	Dir.	Possible	%	4.9	4.8				0.6	Avg
										Misc.	27	NW	305:16	61							Misc.

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

**TEMPERATURE: (°F)**  
 Average monthly 50.1  
 Departure from normal +1.6  
 Highest 77 on 17  
 Lowest 25 on 16  
 Number of days with -  
 Max. 32° or below 0  
 Max. 90° or above 0  
 Min. 32° or below 11  
 Min. 0° or below 0

**HEATING DEGREE DAYS (base 65°):**  
 Total this month 439  
 Departure from normal -56  
 Seasonal total (since July 1) 707  
 Seasonal departure from normal -26

**BAROMETRIC PRESSURE (In.)**  
 Avg. station (elev. 164 \*feet, m. s. l.) 29.823  
 Highest sea level 30.52 on 25th  
 Lowest sea level 29.04 on 29th

**PRECIPITATION: (In.)**  
 Total for the month 6.70  
 Departure from normal 2.67  
 Greatest in 24 hours 2.70 on 6-7  
 Snow, Sleet -  
 Total for the month T  
 Greatest in 24 hours T on 2,29,30  
 Greatest depth on ground 0 on  
 Dates of - Hail none  
 Sleet none Glaze/Rime none

**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.

NO EXCESSIVE PRECIPITATION.  
 New record maximum temperature for date set on 17th.

\*\* Zero of City Locks Gage at 0 feet MSL.

**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			T	T																					2	
3	.10	.05	.04	.01	.01																.09	.17	.05	.16	.15	3
4																									4	
5																									5	
6																									6	
7	T	.04	.02	.06	.05	.03	.02	T	.08	.16	.14	.20	.12	.19	.20	.31	.33	.21	.14	.08	.02	T	.03	.02	7	
8	.02	.03	.09	T	.01	T	.19	.08	.06	.04	.02	.01	.01	T	.01	T	T	T	T	T	T	T	T	T	8	
9																									9	
10																									10	
11																									11	
12																									12	
13																									13	
14																									14	
15																									15	
16																									16	
17																									17	
18																									18	
19				T	T																				19	
20																									20	
21						.01			T	T															21	
22																									22	
23													.04	.07	.02	.08	.04	.04	.02	.25	T	T	.01	T	23	
24																									24	
25																									25	
26														T	.01	.01							T	.01	26	
27																									27	
28																									28	
29																									29	
30	.05	.02	.01	T	.02	.25	.26	.36	.06	.10	.02	T	T					.42	.26	.06	.07	.08	.06	.05	30	
31				T																					31	

Corrections, if any, to data in this issue will be published in a later issue.  
 Subscription Price: Monthly Local Climatological Data \$1.00 per year including annual Summary if published; \$1.00 per year for monthly Supplement only; \$1.50 per year for monthly Summary, monthly Supplement and annual Summary if published. Single copy prices: 10 cents for monthly Summary; 10 cents for monthly Supplement; 15 cents for annual Summary.  
 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.  
 USCOMM-WB- Asheville 12-4-63-300