



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

RICHMOND, VIRGINIA  
 BYRD FIELD  
 AUGUST 1964

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 A.M. (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 Station Feet, 8 AM	Date			
	Maximum	Minimum	Average	Departure from normal	Degree days (base 65°)	Total (Water equivalent) (In.)	Snow, Sleet (In.)	Prevaling direction		Average speed (m. p. h.)	Fastest mile		Total (hours and minutes)	Percent of possible	Sunrise to sunset (tenths)	Midnight to tenths								
											Speed (m. p. h.)	Direction												
1	80	60	70	-8	0	0	0	17	5.9	10	SE	5:49	41	10	8			7	1.7		1			
2	87	65	76	-2	0	.23	0	18	6.4	8	S	7:28	53	7	8	T		12	0.5		2			
3	87	63	75	-3	0	1.86	0	36	7.8	18	E	6:31	46	8	8	T	R,H	12	-1.7		3			
4	75	61	68	-10	0	.03	0	12	9.1	13	NE	5:40	40	8	9			6	1.5		4			
5	79	61	70	-8	0	0	0	12	4.2	6	NE	9:34	68	7	6			7	1.0		5			
6	81	59	70	-8	0	0	0	35	5.7	12	N	13:42	98	2	1			9	0.3		6			
7	85	64	75	-2	0	0	0	18	7.9	12	SW	8:33	62	4	5			12	0.3		7			
8	90	67	79	+2	0	.23	0	20	8.7	17	SW	7:41	55	3	5	T		12	1.2		8			
9	80	60	70	-7	0	0	0	01	6.3	10	N	13:46	100	2	3			7	1.8		9			
10	74	59	67	-10	0	.89	0	15	6.1	15	S	0:30	4	10	8		F	7	2.4		10			
11	84	67	76	-1	0	.01	0	18	9.6	15	SW	6:45	49	8	9		F	12	2.5		11			
12	87	65	76	-1	0	.46	0	19	8.5	54	W	6:40	49	8	7	T		12	2.0		12			
13	74	57	66	-11	0	0	0	36	5.4	11	NE	8:04	59	4	2			4	1.7		13			
14	74	55	65	-12	0	0	0	03	3.5	11	NE	6:23	47	6	5			4	1.1		14			
15	76	60	68	-9	0	0	0	15	4.0	9	NE	7:01	52	9	9			6	0.7		15			
16	71	61	66	-11	0	.04	0	13	2.5	11	SE	0:00	0	10	10			6	-0.5		16			
17	80	63	72	-4	0	T	0	35	3.6	8	N	6:40	49	6	6			9	-1.4		17			
18	84	62	73	-3	0	.27	0	24	5.6	10	W	8:32	63	7	6	T		9	-1.2		18			
19	78	59	69	-7	0	0	0	02	6.8	13	NE	13:24	99	1	2			6	-0.9		19			
20	81	58	70	-6	0	0	0	18	4.9	10	SW	11:39	87	1	2			8	0.0		20			
21	89	62	76	0	0	0	0	19	7.6	13	SW	11:18	84	3	4			12	0.6		21			
22	88	69	79	+3	0	0	0	20	9.5	15	SW	11:43	88	4	2			14	0.2		22			
23	89	74	82	+6	0	0	0	23	9.7	14	SW	8:21	63	7	5			16	-0.6		23			
24	88	70	79	+4	0	0	0	15	4.8	8	E	10:04	76	4	5			13	1.0		24			
25	89	69	79	+4	0	0	0	18	6.2	13	SW	7:12	54	6	5		F	14	1.9		25			
26	88	67	78	+3	0	1.80	0	21	7.9	32	NE	7:52	60	6	7	T	R	12	1.7		26			
27	80	65	73	-2	0	T	0	04	7.1	13	NE	2:19	18	10	8			10	2.2		27			
28	84	69	77	+2	0	0	0	03	4.7	8	NE	3:50	29	10	10			12	2.6		28			
29	79	70	75	+1	0	T	0	12	3.4	8	SE	0:00	0	10	10			12	2.3		29			
30	84	71	78	+4	0	2.18	0	08	5.6	13	SE	2:06	16	9	10	T	F	13	2.2		30			
31	79	71	75	+1	0	1.88	0	10	7.0	14	NE	0:04	1	10	10			13	0.6		31			
Sum	2544	1983				9.88	0		196.0			219:11		200	195			308	27.7		Sum			
Avg	82.1	64.0							6.3	Fastest		Dir.	Possible	%				6.5	6.3		Avg			
T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure.											Misc.	54			420:50	52								Misc.

**TEMPERATURE: (°F)**  
 Average monthly 73.1  
 Departure from normal - 2.9  
 Highest 90 on 8th  
 Lowest 55 on 14th  
 Number of days with -  
 Max. 32° or below 0  
 Max. 90° or above 1  
 Min. 32° or below 0  
 Min. 0° or below 0

**HEATING DEGREE DAYS (base 65°):**  
 Total this month 0  
 Departure from normal 0  
 Seasonal total (since July 1) 0  
 Seasonal departure from normal 0

**BAROMETRIC PRESSURE (In.)**  
 Avg. station (elev. 164 \*feet, m. s. l.) 29.825  
 Highest sea level 30.30 on 1st  
 Lowest sea level 29.66 on 12th

**PRECIPITATION: (In.)**  
 Total for the month 9.88  
 Departure from normal + 4.34  
 Greatest in 24 hours 2.28 on 30-31st  
 Snow, Sleet -  
 Total for the month 0  
 Greatest in 24 hours 0 on -  
 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.

**EXCESSIVE PRECIPITATION**

Period:	Minutes	5	10	15	20	30	45	60	80	100	120	150	180
Aug. 3 Amounts	.42	.80	1.04	1.14	1.27	1.33	1.35	1.40	1.44	1.46	1.50	1.62	
Aug. 10 "	.18	.29	.40	.50	.57	.64	.70	.71	.78	.84	.85	.87	
Aug. 12 "	.38	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	
Aug. 26 "	.56	.91	1.24	1.32	1.39	1.40	1.41	1.41	1.41	1.41	1.44	1.46	
Aug. 30 "	.32	.59	.90	1.12	1.38	1.88	1.98	2.07	2.13	2.16	2.16	2.17	
Aug. 31 "	.29	.41	.49	.51	.61	.89	1.11	1.26	1.29	1.31	1.45	1.46	

Coolest August since 1946 and fourth coolest of record since 1880. Wettest August since 1955 and fifth wettest of record since 1871.

† If figures are carried in columns 10 and 13 they indicate directions in tens of degrees from true North; for example, 9 = East, 18 = South, 27 = West, and 36 = North.  
 \*\* 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
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