

LOCAL CLIMATOLOGICAL DATA

RICHMOND, VIRGINIA
BYRD FIELD
JULY 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	22	23	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)
											Speed (m. p. h.)	Direction											
1	93	66	80	+3	0	0	0	SW	5.6	9	SW	14:12	97	3	2			16	1.7			1	
2	92	70	81	+4	0	0	0	SW	8.6	18	SW	12:36	86	1	2			16	2.5			2	
3	89	69	79	+2	0	T	0	WSW	9.0	16	NW	11:23	78	5	4	T		14	2.4			3	
4	87	61	74	-3	0	0	0	SW	8.0	14	NW	11:46	80	4	4			11	1.6			4	
5	86	67	77	0	0	.17	0	W	6.6	12	NW	5:33	38	10	10	DL		12	1.5			5	
6	73	66	70	-7	0	.37	0	E	7.7	15	SE	0:27	3	10	10	T		8	0.0			6	
7	83	63	73	-5	0	.23	0	ENE	6.1	15	NE	4:55	34	9	9	T		10	-0.1			7	
8	86	62	74	-4	0	1.39	0	NE	5.3	34	N	8:12	56	8	8	T	F,R,A	9	-0.6			8	
9	81	58	70	-8	0	0	0	NNE	7.6	12	N	12:08	83	3	3			6	0.1			9	
10	83	55	69	-9	0	0	0	NNE	6.2	9	W	12:47	88	3	2			6	0.4			10	
11	84	54	69	-9	0	0	0	SW	5.7	12	SW	10:50	74	5	5			8	0.6			11	
12	81	62	72	-6	0	.02	0	S	5.7	12	S	4:30	31	10	10			10	0.3			12	
13	91	69	80	+2	0	T	0	SW	8.5	18	W	7:30	52	8	8	DL		16	1.2			13	
14	92	70	81	+3	0	0	0	WSW	6.8	11	W	14:25	99	6	5			16	0.7			14	
15	92	71	82	+4	0	0	0	SW	8.2	13	SW	11:44	81	8	6	DL		16	1.8			15	
16	93	69	81	+3	0	.45	0	WSW	8.7	23	W	10:49	75	6	6	T	R	14	2.2			16	
17	90	70	80	+2	0	T	0	WSW	8.3	13	SW	11:55	82	6	5	DL		15	2.1			17	
18	90	69	80	+2	0	0	0	W	6.9	18	N	8:40	60	9	8	DL		14	2.1			18	
19	89	66	78	0	0	0	0	SSW	8.3	15	S	12:23	86	6	5			14	1.8			19	
20	92	73	83	+5	0	0	0	WSW	9.2	14	SW	8:48	61	8	8	DL		16	1.5			20	
21	93	70	82	+4	0	0	0	SW	8.1	16	SW	12:56	90	6	5	DL		17	1.1			21	
22	95	73	84	+6	0	0	0	NW	5.8	10	NW	10:10	71	6	6			17	-0.2			22	
23	97	70	84	+6	0	T	0	S	5.4	11	W	9:52	69	4	5	T		17	-0.2			23	
24	95	73	84	+6	0	T	0	SW	6.5	11	SW	12:26	87	4	5			18	-0.8			24	
25	97	72	85	+7	0	0	0	WSW	7.0	12	SW	14:02	98	3	3	DL		18	-0.6			25	
26	93	69	81	+3	0	.04	0	W	6.5	8	NE	10:29	74	4	4	DL		16	-0.1			26	
27	91	70	81	+3	0	0	0	N	6.1	8	N	13:17	93	3	4			14	0.5			27	
28	92	66	79	+1	0	0	0	SSE	4.7	7	S	11:37	82	5	4			15	1.1			28	
29	94	71	83	+5	0	0	0	WSW	7.8	20	W	10:53	77	5	5	DL		18	1.5			29	
30	94	70	82	+4	0	0	0	N	4.5	8	NW	12:10	86	4	2			17	2.1			30	
31	97	71	84	+6	0	.18	0	WSW	5.7	17	W	11:01	78	9	7	T		18	2.1			31	
Sum	2785	2085				2.85	0			215.1			324:26		181	170			132	30.3			Sum
Avg	89.8	67.3								6.9	Fastest	Dir.	Possible	%	5.8	5.5				1.0			Avg.
										Misc.	34	N	448.17	72									Misc.

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

TEMPERATURE: (°F) Average monthly 78.6 Departure from normal +1.1 Highest 97 on 23, 25, 31st Lowest 54 on 11th Number of days with - Max. 32° or below 0 Max. 90° or above 20 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.) 29.851 Highest sea level 30.26 on 12th Lowest sea level 29.82 on 3rd	PRECIPITATION: (In.) Total for the month 2.85 Departure from normal -2.79 Greatest in 24 hours 1.61 on 7-8th 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 0
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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.

Second heaviest 5-minute rainfall in history for July on the 8th. Two new daily record temperatures set - a new record low on the 11th and a new record high on the 24th.

EXCESSIVE PRECIPITATION

Period:	Minutes	5	10	15	20	30	45	60	80	100	120	150	180
July 8th	Amounts	.65	.94	1.11	1.25	1.35	1.38	1.38	1.39	1.39	1.39	1.39	1.39

**Zero of City Locks gage at 0 feet MSL