

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

Richmond, Va.
 Byrd Field
 July, 1963

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.)	Snow, Sleet (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 8M	Date
	Maximum	Minimum	Average	Departure from normal	Degree days (base 65°)	Total (Water equivalent) (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	94	70	82	+5	0	.01	0	0	SW	5.6	14	S	6:33	45	5	6			15	-1.0		1
2	91	67	79	+2	0		0	0	SSW	7.0	13	W	10:01	68	5	5	T		14	-1.1		2
3	90	66	78	0	0		0	0	N	8.1	17	N	10:13	70	4	4	F		13	-0.7		3
4	82	56	69	-9	0		0	0	N	8.8	17	N	14:41	100	1	1			5	0.1		4
5	87	52	70	-8	0		0	0	SW	5.9	10	W	14:35	99	1	1			7	0.2		5
6	88	59	74	-4	0		0	0	N	6.9	10	N	11:43	80	5	5			9	0.5		6
7	88	59	74	-4	0		0	0	SE	6.8	13	SE	14:06	96	2	2			10	1.0		7
8	89	65	77	-1	0	.09	0	0	NE	7.4	12	NE	5:59	41	7	7	DL	F	13	1.2		8
9	75	55	65	-14	0		0	0	NNE	9.3	16	N	6:46	46	9	9			5	2.6		9
10	80	55	68	-11	0		0	0	NW	7.9	11	NE	8:03	55	5	5	T		6	2.8		10
11	84	55	69	-10	0		0	0	SE	6.4	10	SE	11:14	77	2	2			6	2.9		11
12	84	55	70	-9	0		0	0	SE	5.8	12	E	10:58	75	2	2			8	2.4		12
13	84	55	70	-9	0		0	0	SSE	6.5	12	SW	9:43	67	3	3			8	1.6		13
14	73	64	69	-10	0	.42	0	0	S	10.3	15	S	0:00	0	10	9	DL		8	1.5		14
15	90	67	79	0	0		0	0	WSW	7.5	13	SW	9:30	66	4	4	DL		14	0.5		15
16	92	63	78	-1	0		0	0	SSW	5.6	9	SW	9:37	66	6	6	DL		14	-1.2		16
17	92	69	81	+2	0		0	0	S	6.9	11	SW	7:14	50	9	7			15	-1.1		17
18	95	72	84	+5	0		0	0	SW	9.5	15	SW	8:46	61	7	6			18	-0.7		18
19	96	70	83	+5	0		0	0	SW	8.0	15	SW	11:48	82	6	5			18	-0.4		19
20	95	76	86	+8	0		0	0	WSW	10.7	19	W	6:55	48	8	7	DL		17	0.5		20
21	86	67	77	-1	0		0	0	NW	8.7	16	N	9:20	65	6	4			12	1.8		21
22	88	64	76	-2	0		0	0	ESE	7.7	13	E	8:01	56	6	4	DL		12	1.9		22
23	86	64	75	-3	0		0	0	ENE	7.8	13	NE	6:33	46	7	6			11	2.5		23
24	87	63	75	-3	0		0	0	SSE	6.7	10	E	9:17	65	7	4			11	#		24
25	88	61	75	-3	0		0	0	SSE	5.5	9	SE	12:13	86	4	2			12	2.5		25
26	90	66	78	0	0		0	0	S	5.4	12	SW	6:31	46	7	5	T		14	1.2		26
27	96	68	82	+4	0		0	0	S	6.2	11	NW	11:00	77	5	3			16	1.4		27
28	94	71	83	+5	0		0	0	SSW	7.9	20	SE	7:00	49	9	8	T		16	0.7		28
29	95	68	82	+4	0		0	0	SW	8.8	17	W.	11:17	80	5	6			16	0.6		29
30	91	71	81	+3	0		0	0	SW	7.1	9	SE	4:47	34	8	7			15	-0.7		30
31	87	68	78	0	0		0	0	SSE	6.9	10	E	2:58	21	9	8			14	-1.0		31
Sum	2737	1979				.52				229.6			277:22		175	150			371			Sum
Avg	88.3	63.8								7.4	Fastest	Dir.	Possible	%	5.6	4.8				0.8		Avg.
T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure. Misc. 20																						

TEMPERATURE: (°F) Average monthly 76.1, Departure from normal -2.0, Highest 96 on 19, 27th, Lowest 52 on 5th, Number of days with - Max. 32° or below 0, Max. 90° or above 14, 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.) 29.805, Highest sea level 30.12 on 26th, Lowest sea level 29.43 on 20th.

PRECIPITATION: (In.) Total for the month .52, Departure from normal -.509, Greatest in 24 hours .42 on 14th, Snow, Sleet - 0, Total for the month 0, Greatest in 24 hours 0 on --, Greatest depth on ground 0 on --, Dates of - Hail - Sleet NONE, Glaze/Rime NONE.

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.

Driest July for all times since the beginning of records in 1871. The old record was .57 in 1911. Serious drought conditions now exist with insufficient rainfall since the middle of last month. The daytime high temperatures were around normal; however, nighttime lows mostly below normal with new record lows set on the 10th, 11th, and 13th.

River gage inoperative on 24th. ** Zero of City Locks gage at 0 ft. MSL.

NO EXCESSIVE PRECIPITATION

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	
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