

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

RICHMOND, VIRGINIA
 BYRD FIELD
 DECEMBER 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 A.M. (In.)	Prevailing direction	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, 8 AM Stage in feet, 8 AM	Date																							
	Maximum	Minimum	Average	Departure from normal	Degree days (base 65°)	Total (Water equivalent) (In.)	Snow, Sleet (In.)			Average speed (m. p. h.)	Fastest mile	Total (hours and minutes)	Percent of possible	Sunrise to sunset (tenths)	Midnight to midnight (tenths)																												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																				
1	48	25	37	-6	28	0	0	0	WSW	8.4	17	W	9:17	95	1	1			0	0.1			1																				
2	51	21	36	-7	29	T	0	0	SSW	8.1	19	SW	5:49	60	10	9			0	0.3			2																				
3	42	31	37	-5	28	.07	T	0	NW	7.2	13	NW	0:00	0	10	7			0	0.1			3																				
4	43	24	34	-8	31	0	0	0	SE	4.1	9	SW	4:53	50	6	3			0	2.2			4																				
5	42	25	34	-8	31	0	0	0	NNE	5.2	11	NE	1:08	12	9	7			0	2.2			5																				
6	48	26	37	-4	28	0	0	0	N	6.6	13	NE	9:41	100	1	3			0	1.5			6																				
7	55	25	40	-1	25	0	0	0	S	4.7	7	S	9:41	100	0	1			0	1.0			7																				
8	62	30	46	+5	19	1.21	0	0	S	8.9	21	W	5:33	57	8	5			0	0.8			8																				
9	46	31	39	-1	26	T	T	0	SW	9.9	23	NW	2:20	24	9	4			0	-1.0			9																				
10	47	29	38	-2	27	0	0	0	SW	9.2	17	W	8:25	87	3	2			0	-2.0			10																				
11	38	26	32	-8	33	T	T	0	NNE	4.2	6	NE	0:00	0	10	9			0	-1.1			11																				
12	47	32	40	0	25	.17	0	0	ENE	5.4	9	W	0:13	2	10	10			0	0.4			12																				
13	48	37	43	+3	22	.06	0	0	NE	5.8	9	E	2:36	27	10	10			0	-0.4			13																				
14	41	23	32	-7	33	.58	T	0	N	7.7	15	N	0:00	0	10	9			0	0.6			14																				
15	33	16	25	-14	40	0	0	0	NNW	7.4	12	NW	9:35	100	0	0			0	-0.1			15																				
16	33	17	25	-14	40	0	0	0	NNW	7.6	13	NW	9:13	96	1	1			0	-0.3			16																				
17	34	12	23	-16	42	0	0	0	NW	4.8	8	W	9:35	100	0	1			0	0.0			17																				
18	34	22	28	-11	37	.02	.4	0	S	10.2	25	NW	1:18	14	10	7			0	0.7			18																				
19	34	17	26	-13	39	0	0	T	WSW	12.8	22	W	9:35	100	5	2			0	0.1			19																				
20	28	11	20	-19	45	0	0	0	WNW	8.1	14	MW	9:30	99	1	1			0	1.0			20																				
21	33	7	20	-19	45	0	0	0	NNW	7.1	13	NW	9:35	100	0	0			0	0.8			21																				
22	36	12	24	-15	41	0	0	0	N	5.6	9	NE	9:34	100	2	1			0	0.6			22																				
23	33	17	25	-14	40	.69	T	T	NE	9.5	16	NE	0:00	0	10	10			0	0.3			23																				
24	41	26	34	-5	31	0	0	0	SW	6.8	13	SW	8:09	85	2	3		F	0	0.7			24																				
25	46	26	36	-3	29	0	0	0	WSW	8.9	15	SW	9:35	100	1	0			0	0.5			25																				
26	62	22	42	+3	23	0	0	0	SSW	9.1	20	SW	9:35	100	0	0			0	-2.0			26																				
27	56	31	44	+5	21	0	0	0	WSW	6.7	14	SW	5:47	60	5	5			0	-2.3			27																				
28	43	24	34	-5	31	0	0	0	NNE	5.1	12	NE	6:06	64	7	6			0	-0.6			28																				
29	40	22	31	-8	34	0	0	0	NE	5.8	9	NE	7:18	76	2	4			0	0.0			29																				
30	34	16	25	-14	40	0	0	0	NE	7.0	10	NE	9:01	94	4	2			0	0.0			30																				
31	32	16	24	-15	41	T	T	0	NNE	10.5	15	NE	3:50	40	9	7			0	0.0			31																				
Sum	1310	699				2.80	.4			228.4			186:52		156	130			0	4.1			Sum																				
Avg	42.3	22.5								7.4	Fastest	Dir.	Possible	%	5.0	4.2			--	0.1			Avg.																				
T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure.																						Misc.	25																				Misc.

TEMPERATURE: (°F) Average monthly 32.4, Departure from normal -7.3, Highest 62 on 8, 26, Lowest 7 on 21, Number of days with - Max. 32° or below 2, Max. 90° or above 0, Min. 32° or below 30, Min. 0° or below 0.

HEATING DEGREE DAYS (base 65°): Total this month 1004, Departure from normal +220, Seasonal total (since July 1) 1711, Seasonal departure from normal +194.

BAROMETRIC PRESSURE (In.): Avg. station (elev. 164 *feet, m. s. l.) 29.935, Highest sea level 30.77 on 31, Lowest sea level 29.59 on 8.

PRECIPITATION: (In.) Total for the month 2.80, Departure from normal -0.17, Greatest in 24 hours 1.21 on 8, Snow, Sleet— Total for the month .4, Greatest in 24 hours .4 on 18, Greatest depth on ground T on 18, 19, 23, 31, Dates of - Hail None, Sleet 11, 23, 31, Glaze/Rime 23.

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.

NO EXCESSIVE PRECIPITATION.

Third coldest December since records began in 1880.

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

ERRATA NOVEMBER 1963: Greatest precipitation in 24 hrs. should be 2.67 inches. Sum Total Sunshine, Column 14, should be 185:02.

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																								3	
4																								4	
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10																								10	
11																								11	
12																								12	
13	.02	.04	.04	.03	.01	.01	T	.02	T	T	T	T												13	
14	.01	.05	.04	.03	.04	.07	.06	.05	.05	.05	.04	.06	T	.02	.01	T	T	T	T			T	.03	.03	14
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