



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

RICHMOND, VIRGINIA
 BYRD FIELD
 JANUARY 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 State at City Locks** Stage in Feet, 8 AM	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)					
1	46	29	38	-1	27	.70	.4	0	05	13.0	25	SW	0:00	0	10	9		0	0.7	1
2	51	33	42	+3	23	0	0	0	23	12.0	19	W	9:39	100	0	0		0	0.7	2
3	66	35	51	+12	14	0	0	0	23	10.4	18	SW	9:39	100	0	0		0	0.8	3
4	57	37	47	+8	18	0	0	0	24	10.8	19	NW	8:41	90	5	2		0	0.4	4
5	55	22	39	0	26	0	0	0	19	5.9	13	SW	9:40	100	0	0		0	0.9	5
6	60	29	45	+6	20	.08	0	0	20	8.4	19	SW	5:33	57	9	7		0	0.2	6
7	52	35	44	+5	21	.81	0	0	02	6.8	21	NE	0:12	2	10	9		0	0.6	7
8	40	29	35	-4	30	T	0	0	01	6.5	9	NE	0:00	0	10	8		0	-0.1	8
9	58	37	48	+9	17	1.09	0	0	21	9.5	20	SW	0:00	0	10	10	R, F	0	0.1	9
10	50	21	36	-3	29	0	0	0	27	12.5	23	W	9:46	100	1	2		0	0.6	10
11	42	16	29	-10	36	0	0	0	13	4.5	9	S	9:47	100	0	1		0	1.5	11
12	32	20	26	-13	39	.21	3.8	0	05	13.0	22	NE	0:00	0	10	10		0	1.6	12
13	27	18	23	-16	42	.27	1.5	4	32	13.5	19	W	5:59	61	8	8		0	2.5	13
14	30	8	19	-20	46	0	0	3	36	10.5	17	N	9:51	100	0	0		0	1.7	14
15	34	0	17	-22	48	0	0	3	20	4.8	9	N	9:52	100	0	0		0	2.2	15
16	46	11	29	-10	36	0	0	2	19	7.7	12	SW	8:22	85	6	5		0	2.1	16
17	39	18	29	-10	36	0	0	2	09	5.1	8	E	7:06	72	8	6		0	1.2	17
18	53	16	35	-4	30	0	0	2	23	5.8	10	W	9:07	92	1	2		0	2.0	18
19	45	25	35	-4	30	0	0	T	19	6.2	11	SW	5:45	58	6	5	F	0	2.6	19
20	46	31	39	0	26	.13	0	T	26	10.3	19	NW	0:14	2	10	8	R, F, L	0	2.5	20
21	62	41	52	+13	13	0	0	0	29	12.9	25	NW	10:00	100	0	0		0	0.9	21
22	65	28	47	+8	18	0	0	0	18	4.5	9	W	10:02	100	0	0		0	1.4	22
23	63	27	45	+6	20	0	0	0	16	5.2	11	S	10:03	100	1	0		0	1.4	23
24	64	35	50	+11	15	.12	0	0	18	9.0	19	S	7:03	70	9	7		0	1.5	24
25	68	43	56	+17	9	.69	0	0	25	16.6	29	SW	2:06	21	10	10		0	0.9	25
26	56	34	45	+6	20	0	0	0	25	12.1	26	W	10:09	100	0	0		0	0.9	26
27	63	30	47	+8	18	0	0	0	23	9.5	17	SW	8:32	84	8	7		0	4.6	27
28	52	25	39	0	26	0	0	0	35	13.4	28	NW	10:07	99	1	1		0	4.2	28
29	40	19	30	-9	35	0	0	0	36	6.1	13	N	10:14	100	2	1		0	2.0	29
30	55	24	40	+1	25	0	0	0	33	6.8	11	SW	10:16	100	0	1		0	1.8	30
31	41	23	32	-7	33	.06	T	0	05	4.6	8	SE	0:33	5	10	8		0	2.4	31
Sum	1558	799				4.16	5.7			277.9			208:18		145	127		0	46.8	Sum
Avg	50.3	25.8								9.0	Fastest	Dir.	Possible	%	4.7	4.1		0	1.5	Avg.
										Misc.	29	SW	307:19	68						Misc.

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

TEMPERATURE: (°F)	HEATING DEGREE DAYS (base 65°):	PRECIPITATION: (In.)	Symbols used in columns 18-19
Average monthly 38.1	Total this month 826	Total for the month 4.16	A = Hail L = Drizzle
Departure from normal -0.6	Departure from normal +11	Departure from normal +0.70	BS = Blowing snow N = Sand
Highest 68 on 25th	Seasonal total (since July 1) 2537	Greatest in 24 hours 1.09 on 9th	DL = Distant lightning R = Rain
Lowest 0 on 15th	Seasonal departure from normal +205	Snow, Sleet—	D = Dust S = Snow
Number of days with —	BAROMETRIC PRESSURE (In.)	Total for the month 5.7	E = Sleet T = Thunderstorm
Max. 32° or below 3	Avg. station (elev. 164 *feet, m. s. l.) 29.863	Greatest in 24 hours 5.0 on 12-13	F = Fog ZL = Freezing drizzle
Max. 90° or above 0	Highest sea level 30.56 on 29th	Greatest depth on ground 5 on 13	H = Haze ZR = Freezing rain
Min. 32° or below 22	Lowest sea level 29.35 on 20th	Dates of — Hail NONE	K = Smoke
Min. 0° or below 1		Sleet 1,13,31 Glaze/Rime 1	

Effective with data for January 1964, temperature and precipitation normals used in the preparation of this bulletin are revised climatological standard normals based on the period 1931-1960. They are arithmetic averages that have been adjusted to represent observations at the present locations of the weather instruments. New heating degree day normals will be placed in use effective with July 1964 data.

ERRATA DECEMBER 1963: Hourly precipitation, 31st, delete "T" at 8 PM.

NO EXCESSIVE PRECIPITATION. The minimum temperature on the 15th was the coldest ever recorded on this date. ** Zero of City Locks Gage at 0 feet MSL.

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	.07	.02	.02	.04	.06	.07	.06	.18	.16	.02	T	T	T	T											1	
2																										2
3																										3
4																										4
5																										5
6																										6
7	.05	.05	.04	.03	.24	.25	.08	.02	.04	T		.01	T							T	T				7	
8																										8
9	.01	.03	.01	.02	.20	.18	.10	.14	.08	.18	.13	.01	T	T										T	9	
10																										10
11																										11
12																										12
13	.01	.03	.03	.03	.04	.04	.03	.03	.02	.01	T	T	.01	.02	.02	.03	.04	.03	.02	.01	T	T		.01	13	
14																										14
15																										15
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19																										19
20										.01	.01	T	T	.01	.08	.02	T								20	
21																										21
22																										22
23																										23
24																										24
25	.15	.19	.07	.07	.03	.10	.06	.01					.01							T	T		T	T	.12	25
26																										26
27																										27
28																										28
29																										29
30																										30
31																										31

Corrections, if any, to data in this issue will be published in a later issue.

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USCOMM-WB-Asheville 2-4-64-300