



LOCAL CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE - ALEXANDER B. TROWBRIDGE, Secretary

RICHMOND, VIRGINIA
BYRD FIELD
OCTOBER 1967

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION -- ENVIRONMENTAL DATA SERVICE

Latitude 37° 30' N Longitude 77° 20' W Elevation (ground) 164 ft. Standard time used: EASTERN

Date	Temperature (°F)						Weather types shown by code 1-9 on dates of occurrence	Snow, Sleet, or Ice on ground at 07AM (In.)	Precipitation		Avg. station pressure (In.)	Wind			Sunshine		Sky cover (Tenths)		Date
	Maximum	Minimum	Average	Departure from normal	Average dew point	Degree days (Base 65°)			Total (Water equivalent) (In.)	Snow, sleet (In.)		Resultant direction	Resultant speed (m.p.h.)	Average speed (m.p.h.)	Speed (m.p.h.)	Direction	Total (Hours and tenths)	Percent of possible	
1	78	46	62	-3	48	3		0	0	29.97	28	5.4	14	NW	10.3	87	1	1	1
2	76	42	59	-5	49		1	0	0	30.07	25	.7	7	SE	11.8	100	6	3	2
3	83	46	65	1	56	0	1	0	0	29.97	20	4.2	10	SW	11.7	100	1	1	3
4	87	51	69	6	58	0	2	0	0	29.94	17	2.0	8	NE	10.9	93	1	1	4
5	90*	56	73	10	58	0	0	0	0	29.82	21	4.5	10	SE	11.7	100	2	1	5
6	80	54	67	5	57	0	1	0	.02	29.84	03	5.9	7.2	16	NE	6.5	56	6	7
7	58	52	55	-7	54	10	1	0	.28	30.06	01	8.5	8.6	12	N	0.0	0	10	10
8	66	55	61	0	59	4	1	0	T	29.92	07	3.9	5.2	6	NE	0.2	2	10	10
9	79	63	71	10	63	0	2	0	0	29.67	22	5.4	5.8	13	SW	5.6	49	9	10
10	70	49	60	-1	60	5	2	0	.37	29.66	09	.6	5.8	17	N	0.1	1	10	10
11	68	47	58	-2	48	7	2	0	0	29.95	02	4.8	6.0	11	NE	7.9	69	4	6
12	61	48	55	-5	44	10	0	0	0	30.03	03	6.1	6.2	9	NE	1.6	14	10	12
13	67	43	55	-5	45	10	1	0	0	30.02	10	3.0	6.0	9	S	8.6	75	5	4
14	74	42	58	-1	50	7	1	0	T	29.99	17	5.5	6.3	11	SW	8.2	11	5	4
15	74	46	60	1	53	5	1	0	0	30.15	12	4.2	5.5	11	S	7.2	64	6	5
16	78	48	63	4	55	2	2	0	0	30.12	15	1.9	4.6	12	S	6.2	55	5	15
17	76	52	64	6	62	1	2	0	T	29.89	07	3.3	5.8	10	S	1.7	15	10	9
18	76	43	60	2	56	5	1 3	0	.06	29.46	21	8.6	11.8	29	SW	2.1	19	9	8
19	64	37	51	-7	35	14		0	0	29.74	27	7.3	9.5	16	NW	7.1	64	4	2
20	65	30	48	-9	33	17		0	0	30.06	20	4.6	5.8	13	SW	11.1	100	0	0
21	73	37	55	-2	38	10		0	0	30.00	23	5.2	6.9	14	W	11.0	100	0	20
22	68	34	51	-6	35	14		0	0	30.17	02	2.7	4.9	11	NE	11.0	100	0	0
23	69	34	52	-4	39	13		0	0	30.24	09	2.5	3.9	9	SE	11.0	100	0	1
24	76	40	58	2	50	7	1	0	0	30.13	10	2.7	5.3	9	SE	7.5	68	7	7
25	74	41	58	3	55	7	1	0	.27	29.74	17	5.1	8.8	25	W	0.9	8	9	7
26	64	34	49	-6	37	16	2	0	0	29.85	25	2.9	5.3	13	W	10.5	97	3	2
27	70	35	53	-2	40	12		0	0	29.82	18	6.5	7.1	17	SW	10.8	100	4	3
28	56	34	45	-9	34	20		0	0	29.90	02	3.4	5.5	10	N	7.1	66	9	5
29	62	30*	46	-8	33	19	1	0	0	30.12	07	1.8	4.2	8	E	10.7	100	1	1
30	64	32	48	-6	37	17	1	0	0	30.18	29	.3	2.3	6	NE	10.7	100	2	2
31	65	34	50	-4	39	15	1	0	0	30.08	09	1.7	3.3	7	NE	6.2	58	9	7

Sum	2211	1335				256	Dep. 42	Temperature: Number of days	1.00	Total 0	29.95	17	.6	5.9	29	Sw	227.9	% for 159	140		
Avg.	71.3	43.1	57.2	-1.5	48	Season to date		Max. < 32°	1	Max. > 90°	3	Min. < 32°	1	Min. < 0°	0			348.0	Possible month 65	Avg. 5.1	Avg. 4.5

* Extreme for the month. May be the last of more than one occurrence.
 - Below zero temperatures or negative departure from normal.
 T In columns 9, 10, and 11 and in the Hourly Precipitation table indicates an amount too small to measure.
 X Heavy fog - visibility 1/4 mile or less.
 ‡ ± 70" at Alaskan stations. + Also on an earlier date, or dates.

HOURLY PRECIPITATION (Liquid in Inches)

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
5																									5
6																									6
7	.02	.02	.01	.02	.05	.07	.03	.03	T				T	T	T	.01	.01	.01	T	T	T	.01	.01	7	
8																									8
9																									9
10	T	T		.02	.01	T	.01		.18				T		.01	T	.14	T						T	10
11																									11
12																									12
13																									13
14								T	T																14
15																									15
16																									16
17										.03	.01	.02	T												17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25															T	.06	.19	.02							25
26																									26
27																									27
28																									28
29																									29
30																									30
31																									31

Data in columns 6, 12, 13, 14, and 15 are based on 8 observations per day at 3-hour intervals. Wind directions are those from which the wind blows. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. Figures for directions are tens of degrees from true North; i.e., 09 = East, 18 = South, 27 = West, 36 = North, and 00 = Calm. When directions are in tens of degrees in Col. 17, entries in Col. 16 are fastest observed 1-minute speeds. If the / appears in Col. 17, directions are gusts. Any errors detected will be corrected and changes in summary data will be annotated in the annual Summary if published.

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William J. Haggard
 Director, National Weather Records Center

AVERAGES BY HOURS

Hour (Local time)	Sky cover (In tenths)	Station press. (In.)	Dry bulb (°F)	Wet bulb (°F)	Rel. hum. (%)	Dew point (°F)	Wind speed (m.p.h.)	Direction	Resultant wind speed (m.p.h.)
01	3	29.96	49	48	91	46	3.9	17	1.1
04	4	29.95	48	47	92	45	4.6	12	.1
07	5	29.98	48	47	93	46	5.2	01	.9
10	5	29.99	63	56	65	50	7.5	30	.5
13	5	29.93	69	58	51	49	8.2	20	2.3
16	5	29.91	67	57	53	48	8.1	22	.9
19	5	29.94	56	52	80	49	5.6	11	1.9
22	3	29.97	51	49	87	47	4.2	15	1.8

