



LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA
BYRD FIELD
MAY 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 1 2 3 4 5 6 7 8 9 Fog Heavy Fog x Thunderstorm Sleet Hail Glaze Duststorm Smoke, Haze Blowing Snow	Snow, Sleet, or Ice on ground at 07AM (In.)	Precipitation		Avg. station pressure (In.) Elev. 164 feet m.s.l.	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.)	Fastest mile	Total (Hours and tenths)	Percent of possible	Sunrise to sunset	Midnight to midnight		
1	84	54	69	6	56	0		0	.01	0	29.88	18	5.2	6.3	13	W	7.4	54	8	9	1
2	85	57	71	8	58	0		0	.16	0	29.77	22	7.6	11.7	23	SW	9.2	67	10	9	2
3	71	42	57	-6	47	8		0	.05	0	29.99	01	6.1	6.6	17	N	13.7	99	6	5	3
4	65	37*	51	-13	41	14	1	8	T	0	30.20	14	3.6	5.3	12	SE	6.4	46	10	8	4
5	75	39	57	-7	49	8	1	0	0	0	30.11	20	3.9	4.6	11	SE	13.9	100	4	4	5
6	73	49	61	-4	55	4	1	8	T	0	29.88	19	1.8	10.4	16	NE	5.5	39	10	9	6
7	72	49	61	-4	50	4	1 3	0	1.97	0	29.36	31	3.6	13.2	29	W	5.0	36	8	7	7
8	69	47	58	-7	47	7		8	.05	0	29.34	22	10.3	10.8	17	SW	6.9	49	7	6	8
9	65	46	56	-9	41	9		0	.01	0	29.43	30	9.0	9.9	32	NW	10.5	75	7	4	9
10	72	46	59	-7	40	6		0	0	0	29.73	29	6.4	8.6	17	NW	12.9	92	4	5	10
11	81	47	64	-2	52	1		8	.01	0	29.88	20	8.4	10.8	26	SW	4.9	35	9	7	11
12	75	56	66	0	54	0		0	0	0	29.74	02	6.6	7.3	12	NE	11.5	82	8	7	12
13	58	51	55	-11	49	10	1	0	.02	0	29.95	10	5.3	6.2	11	SE	0.1	1	10	10	13
14	65	51	58	-9	55	7	23	8	.31	0	29.82	14	4.2	6.0	14	SE	1.1	8	10	10	14
15	89	56	73	6	63	0	23	8	.40	0	29.56	24	6.5	9.2	30	W	7.6	54	10	10	15
16	71	45	58	-9	44	7	1	0	0	0	29.92	31	5.9	8.1	16	NW	13.8	97	4	3	16
17	73	38	56	-12	45	9	1	8	T	0	30.03	21	2.3	4.6	14	SW	9.6	68	6	5	17
18	77	42	60	-8	47	5	1	8	0	0	29.95	20	3.3	4.8	8	SE	14.3	100	1	1	18
19	84	52	68	0	54	0	1	0	T	0	29.81	21	12.0	12.4	23	SW	11.6	81	9	8	19
20	84	57	71	3	54	0		0	0	0	29.87	25	7.9	10.2	17	W	11.3	79	7	8	20
21	61	48	55	-14	43	10	1	0	.10	0	30.10	03	8.3	8.9	17	NE	1.5	11	10	10	21
22	57	48	53	-16	50	12	1	0	.29	0	29.98	03	7.5	7.6	12	NE	1.1	8	10	10	22
23	67	48	58	-11	46	7	1	0	0	0	29.93	05	9.7	10.4	20	NE	9.8	68	9	9	23
24	59	45	52	-17	43	13		0	0	0	29.93	03	12.7	12.9	19	N	7.1	49	10	9	24
25	75	39	57	-12	38	8		0	0	0	29.82	36	10.6	11.4	19	N	14.4	100	0	1	25
26	77	45	61	-9	45	4		0	0	0	29.78	35	8.9	10.2	18	N	14.4	100	0	1	26
27	82	45	64	-6	49	1		0	0	0	29.83	33	2.1	5.0	10	N	14.5	100	1	2	27
28	89*	58	74	4	59	0		8	0	0	29.74	05	3.1	8.6	15	NE	8.9	61	5	4	28
29	88	54	71	0	59	0	1 3	0	.11	0	29.65	21	3.3	8.8	20	NE	9.8	67	9	8	29
30	63	54	59	-12	53	6	1	0	.03	0	29.82	03	5.4	7.2	14	NE	2.0	14	10	10	30
31	60	48	54	-17	52	11	1	0	.19	0	29.93	05	3.3	5.9	11	NE	1.5	10	10	9	31

Sum	2266	1493				Total	171	Dep.	118	Temperature:	Total	3.71	Total	0	For the month:	Total	262.2	%	222	Sum	208		
Avg.	73.1	48.2	60.7	-6.3	50	Season to date				Max. < 32°	0	Max. > 90°	0	Min. < 32°	0	Min. > 0°	0	Date:	09	Possible month	60	Avg.	7.2
						Total	4179	Dep.	314														

* 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 ¼ mile or less.

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	.05	T																						3	
4																								4	
5																								5	
6																								6	
7	.16	.18	.03	.02	T	.79	.22	.08	.31	.06	.12	T												7	
8																								8	
9																								9	
10																								10	
11																								11	
12																								12	
13																								13	
14																								14	
15																								15	
16																								16	
17																								17	
18																								18	
19																								19	
20																								20	
21																								21	
22	.03	.07	.02	.01	.03	.03	T	.01	T	.02	.01	T												22	
23																								23	
24																								24	
25																								25	
26																								26	
27																								27	
28																								28	
29																								29	
30	.02	.01	.04	.01	.01	.02	.02	.01	T	.01	.03	T												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, speeds are gusts. Any errors detected will be corrected and changes in summary data will be annotated in the annual Summary if published.

Subscription Price: Local Climatological Data \$1.00 per year including annual Summary if published. Single copy: 10 cents for monthly Summary; 15 cents for annual Summary. Checks or money orders should be made payable and remittances and correspondence should be sent to the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the Environmental Science Services Administration, and is compiled from records on file at the National Weather Records Center, Asheville, North Carolina. 28801.
William J. Haggard
 Director, National Weather Records Center

AVERAGES BY HOURS												Resultant wind	
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	Speed (m.p.h.)				
01	6	29.83	53	51	85	49	6.8	01	1.1				
04	6	29.83	51	49	87	47	6.0	33	.6				
07	6	29.85	55	52	80	49	7.6	01	.5				
10	7	29.85	64	56	62	50	10.6	34	1.5				
13	7	29.81	69	58	56	51	11.2	27	2.3				
16	8	29.78	70	59	54	51	10.8	30	2.9				
19	7	29.79	64	56	64	50	8.0	31	.1				
22	6	29.83	57	53	81	50	7.0	05	1.0				

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER (Tenth)	CEILING (ft)	VISI- BILITY (Miles)	WEATHER	DRY BULB				WET BULB				REL. HUM.				WIND				SKY COVER (Tenth)	CEILING (ft)	VISI- BILITY (Miles)	WEATHER	DRY BULB				WET BULB				REL. HUM.				WIND				SKY COVER (Tenth)	CEILING (ft)	VISI- BILITY (Miles)	WEATHER	DRY BULB				WET BULB				REL. HUM.				WIND			
					(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(%)	(%)	(%)	(%)	(Kts)	(Dir)	(Kts)	(Dir)					(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(%)	(%)	(%)	(%)	(Kts)	(Dir)	(Kts)	(Dir)					(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(%)	(%)	(%)	(%)	(Kts)	(Dir)	(Kts)	(Dir)
01	0	50	10	DAY 01	58	54	78	51	17	4	10	60	7	DAY 02	66	62	78	59	19	7	10	7	7	DAY 03	56	55	96	55	03	6																														
04	0	UNL	10		58	54	78	51	14	3	10	UNL	10		64	61	84	59	19	7	10	50	12	7	52	50	90	49	34	3																														
07	0	UNL	10		60	56	75	52	18	4	10	CIR	4		66	62	81	60	19	8	2	UNL	8		55	52	83	50	35	5																														
10	0	UNL	10	H	75	64	52	56	17	7	8	UNL	6	H	79	68	54	61	22	10	7	35	12		62	55	63	49	35	11																														
13	0	UNL	10		83	67	41	57	17	9	10	CIR	8		83	66	40	56	23	15	8	CIR	12		67	55	45	45	36	7																														
16	0	UNL	10		73	65	56	58	25	9	10	UNL	10		81	67	58	58	21	11	7	UNL	12		68	55	41	43	02	6																														
19	0	UNL	10	RW	68	64	61	62	15	4	10	CIR	8		74	62	61	62	20	9	8	UNL	12		72	52	48	42	03	6																														
22	0	UNL	10	H	64	61	84	59	19	4	10	UNL	10	RW	60	58	90	57	36	14	0	UNL	15		49	46	80	43	06	3																														
01	0	UNL	15	DAY 04	43	42	93	41	00	0	7	60	10	DAY 05	50	48	86	46	25	4	6	UNL	8	DAY 06	55	54	93	53	18	5																														
04	0	UNL	10		38	38	96	44	02	3	0	UNL	10		42	42	90	42	00	0	7	CIR	8		55	54	96	54	20	5																														
07	0	CIR	12	X	61	50	44	49	13	7	0	UNL	5	GF	50	46	89	47	19	4	10	110	7	GFH	57	46	57	20	10	5																														
10	0	CIR	12		61	50	44	49	13	7	0	UNL	10		63	55	58	48	20	3	9	90	5	H	67	63	78	60	21	10																														
13	0	CIR	12		64	51	40	39	14	7	6	UNL	8		72	60	50	52	23	7	10	90	7		71	64	68	60	23	14																														
16	0	UNL	10		64	50	46	49	15	7	8	UNL	10		74	61	45	51	17	5	9	100	7	F	71	64	68	60	36	5																														
19	0	UNL	10	R	55	50	89	45	15	7	8	UNL	10		64	58	68	53	17	5	10	6	3	RF	52	51	93	50	04	14																														
22	0	UNL	10		52	49	83	47	03	3	3	UNL	12		55	53	90	52	16	4	10	2	1		49	49	100	49	05	11																														
01	0	UNL	10	DAY 07	49	49	100	49	08	12	6	120	12	DAY 08	50	46	74	42	23	7	0	UNL	10	DAY 09	48	46	83	43	27	6																														
04	0	UNL	10		50	49	96	49	07	8	8	CIR	10		50	45	66	39	23	9	8	UNL	10		47	45	83	42	28	7																														
07	0	UNL	10	RF	50	50	100	50	11	8	4	UNL	10		52	47	65	41	24	10	8	UNL	10		50	46	74	42	26	7																														
10	0	UNL	10	RF	52	53	100	52	13	7	10	120	7		65	52	47	19	13	3	9	UNL	10		60	52	74	44	30	11																														
13	0	UNL	10	RF	63	61	90	60	24	12	10	40	6	RW	60	56	78	53	21	13	8	40	12		62	51	46	41	33	23																														
16	0	UNL	10		65	59	70	55	31	20	8	CIR	10		62	58	78	55	21	11	6	80	15		61	52	52	43	33	12																														
19	0	UNL	10		60	52	58	45	29	17	9	50	12		56	54	87	52	22	5	2	UNL	12		57	47	46	36	31	7																														
22	0	UNL	10		56	49	60	42	24	8	0	UNL	15		51	50	93	49	24	7	0	UNL	15		52	45	59	38	28	7																														
01	0	UNL	10	DAY 10	49	45	71	40	25	8	6	UNL	10	DAY 11	49	46	77	42	08	5	2	UNL	10	DAY 12	68	64	81	62	32	5																														
04	0	UNL	10		48	44	74	40	26	6	2	UNL	10		48	46	83	43	05	4	0	UNL	10		63	61	90	60	02	4																														
07	0	UNL	10		53	47	62	40	32	7	10	100	5	H	56	51	72	47	18	5	10	70	7		61	55	70	51	02	10																														
10	0	UNL	10		61	50	44	39	33	8	10	60	7	RW	63	57	68	52	19	15	10	UNL	7		68	59	57	52	04	7																														
13	0	UNL	10		68	52	38	42	31	8	10	120	7		70	63	52	47	19	13	8	UNL	7		71	61	55	54	36	7																														
16	0	UNL	10		70	53	28	35	30	14	7	40	8		79	66	49	58	22	16	7	UNL	7		73	61	50	53	03	6																														
19	0	UNL	10		60	50	50	41	20	6	8	50	8		77	66	54	59	21	11	6	45	12		66	57	54	49	05	6																														
22	0	UNL	10		50	48	86	46	03	3	3	UNL	10		73	64	62	59	21	8	4	45	10		58	53	72	49	06	3																														
01	0	UNL	10	DAY 13	56	53	80	50	06	5	10	15	7	DAY 14	52	51	93	50	19	4	10	1	0	DAY 15	59	59	100	59	31	3																														
04	0	UNL	10		53	52	93	51	12	4	10	15	7		52	51	93	50	17	5	10	1	0	1	F	59	59	100	59	19	5																													
07	0	UNL	10		55	53	86	51	07	5	10	20	2	F	54	52	90	51	13	8	10	5	0	1	F	61	61	100	61	19	4																													
10	0	UNL	10		57	53	75	49	10	7	10	15	1	TRWF	57	55	90	54	05	4	10	100	7		75	69	74	66	19	10																														
13	0	UNL	10		53	49	77	46	10	7	10	7	1	F	60	58	90	57	17	8	10	CIR	7		85	74	59	69	22	12																														
16	0	UNL	10		50	50	77	47	10	6	10	25	2	F	64	62	87	60	08	4	9	CIR	10		78	69	62	64	27	13																														
19	0	UNL	10		53	51	80	48	14	4	10	3	1	F	61	60	97	60	08	5	6	60	10	RW	67	65	90	64	23	8																														
22	0	UNL	10		50	50	83	48	14	3	10	3	1	F	57	57	96	57	18	4	10	60	10		65	63	87	61	32	9																														
01	0	UNL	10	DAY 16	54	49	72	45	35	8	0	UNL	8	DAY 17	44	43	93	42	35	3	4	UNL	7	DAY 18	49	48	96	48	32	3																														
04	0	UNL	10		54	50	75	46	33	4	3	UNL	4	GFH	51	49	86	47	15	2	0	UNL	4	GF	52	51	93	50	18	3																														
07	0	UNL	10		63	54	56	47	25	7	7	CIR	7		64	51	40	39	21	7	0	UNL	12	GF	67	56	49	47	26	4																														
10	0	UNL	10		68	55	42	44	30	12	4	UNL	12		68	54	39	42	20	8	2	UNL	10		73	59	40	47	18	5																														
13	0	UNL	10		70	55	36	42	30	10	10	60	10	RW	67	56	49	47	26	5	1	UNL	12		76	59	33	45	26	4																														
16	0	UNL	10		63	51	41	39	32	7	3	UNL	10		59	55	78	52	06	4	0	UNL	10		66	57	54	49	18	5																														
19	0	UNL	10		47	46	96	46	15	4	6	60	10		53	52	96	52	19	3	0	UNL	15		57	52	72	48	18	6																														
01	0	UNL	10	DAY 19	54	51	83	49	18	6	10	90	10	DAY 20	65	61	81	59	21	9	10	CIR	15	DAY 21	61	51	46	40	02	8																														
04	0	UNL	10		54	52	86	50	19	8	10	UNL	10		65	61	81	59	24	8	10	CIR	15		60	50	48	40	02	12																														
07	0	UNL	10		62	56	67	51	20	10	0	UNL	12		68	63	73	59	23	7	10	80	15		57	48	51	39	03	9																														
10	0	CIR	7		75	63	48	54	22	14	10	UNL	12		78	63	40	52	32	13	10	70	6	RF	52	49	80	46	09	7																														
13	0	UNL	10		82	66	40	59	21	17	6	UNL	15		80	63	35	50	24	12	10	100	12		54	48	64	42	03	9																														
16	0	UNL	10		82	66	41	56	23	14	9	CIR	12		80	63	38	52	23	11	10	60	12		54	48	67	43	04	4																														
19	0	UNL	10		75	65	56	58	22	6	9	CIR	12		73	60	46	51	23	7	10	50	12	R	52	48	72	43	03	7																														
22	0	UNL	10		73	64	59	58	21	11																																																		