



LOCAL CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
BYRD FIELD
APRIL 1972

Latitude 37° 30' N Longitude 77° 20' W Elevation (ground) 164 ft. Standard time used: EASTERN WBAN #13740

Date	Temperature °F						Degree days Base 65°		Weather types on dates of occurrence 1 Fog 2 Heavy fog x 3 Thunderstorm 4 Ice pellets 5 Hail 6 Glaze 7 Duststorm 8 Smoke, Haze 9 Blowing snow	Snow, ice pellets or ice on ground at 07AM In.	Precipitation		Avg. station pressure In. Elev. 177 feet m.s.l.	Wind				Sunshine		Sky cover Tenths		Date	
	Maximum	Minimum	Average	Departure from normal	Average dew point	Heating	Cooling	Water equivalent In.			Snow, ice pellets In.	Resultant direction		Resultant speed m.p.h.	Average speed m.p.h.	Fastest mile		Hours and tenths	Percent of possible	Sunrise to sunset	Midnight to midnight		
																Speed m.p.h.	Direction						
1	58	36	47	-6	37	18	0	1	8	0	T	29.71	21	4.3	8.1	15	N	8.6	68	7	6	1	
2	52	36	44	-9	32	21	0	1	8	0	.03	29.74	28	3.8	6.6	14	N	5.1	40	7	6	2	
3	61	27	44	-10	28	21	0	0	0	0	0	29.90	25	3.9	7.2	14	NW	12.3	97	3	3	3	
4	72	35	54	0	41	11	0	0	0	0	T	29.79	28	1.6	11.9	23	N	1.9	15	9	7	4	
5	65	30	48	-6	29	17	0	0	0	0	0	29.97	19	6.2	6.8	17	SW	12.8	100	1	2	5	
6	75	41	58	3	35	7	0	0	0	0	0	29.68	20	9.3	9.9	17	SW	11.1	87	4	5	6	
7	72	34	53	-2	44	12	0	1	3	4	.82	29.42	11	2.2	12.5	19	NE	0.5	4	10	8	7	
8	37	30	34*	-22	24	31	0	1	6	8	.02	29.80	35	11.4	12.1	22	N	1.3	10	10	7	8	
9	52	27*	40	-16	19	25	0	0	0	0	0	30.13	34	6.3	7.5	14	N	12.9	100	1	1	9	
10	65	29	47	-10	29	18	0	0	0	0	0	30.00	21	9.2	9.6	19	SW	6.2	48	9	7	10	
11	75	31	63	6	44	2	0	0	0	0	.02	29.77	23	7.6	8.5	17	N	4.0	31	9	10	11	
12	68	50	59	2	46	6	0	0	0	0	0	29.77	08	8.1	8.5	16	W	4.2	32	10	10	12	
13	79	50	65	8	56	0	0	1	3	8	.15	29.47	21	5.4	8.2	17	W	3.3	25	9	9	13	
14	81	57	69	11	55	0	0	1	1	8	0	29.55	21	5.2	10.4	15	W	4.1	31	10	9	14	
15	87	56	72	14	57	0	0	7	23	8	.65	29.71	18	2.4	8.5	40	NW	5.8	44	9	9	15	
16	88*	58	73*	14	60	0	0	8	2	8	0	29.51	18	5.6	8.5	31	NW	7.1	54	8	6	16	
17	75	49	62	3	44	3	0	0	0	0	.04	29.71	33	6.2	7.9	23	N	12.0	91	2	2	17	
18	81	44	63	3	41	2	0	0	0	0	0	30.01	18	3.9	5.5	13	SE	13.3	100	0	0	18	
19	84	57	71	11	50	0	0	6	0	0	0	29.93	21	11.0	11.2	19	SW	12.0	90	3	3	19	
20	87	53	70	10	57	0	0	5	0	0	.03	29.69	23	7.6	11.9	26	NE	6.6	50	9	9	20	
21	62	44	53	-8	38	12	0	0	0	0	.07	30.01	07	11.0	12.4	17	NE	6.1	46	9	10	21	
22	51	42	47	-14	45	18	0	1	1	8	1.49	29.80	01	6.0	7.6	11	N	0.0	0	10	10	22	
23	75	47	61	0	49	4	0	1	8	0	0	29.81	20	6.2	9.2	17	SW	8.5	63	4	5	23	
24	67	50	59	-2	48	6	0	0	0	0	0	29.78	03	5.4	8.6	17	N	6.4	48	8	8	24	
25	60	41	51	-11	39	14	0	0	0	0	T	29.84	36	8.4	8.9	16	N	3.9	28	8	8	25	
26	61	38	50	-12	27	15	0	0	0	0	0	29.98	01	7.1	9.1	17	NE	13.6	100	1	1	26	
27	71	38	55	-7	30	10	0	0	0	0	0	30.08	33	1.5	7.1	14	NW	13.2	97	1	1	27	
28	73	36	55	-8	38	10	0	0	0	0	0	30.13	15	3.8	4.9	13	E	11.3	83	8	7	28	
29	77	48	63	0	48	2	0	0	0	0	0	30.07	04	2.5	6.3	12	E	8.9	65	8	9	29	
30	74	53	64	1	55	1	0	1	3	8	.03	30.13	11	3.4	7.1	12	SE	3.2	23	9	8	30	
Sum	2085	1287				286	30	Number of days		3.35	T	29.83	23	1.0	8.7	40	NW	220.2		196	186		
Avg.	69.5	42.9	56.2	-1.9	41	67		Precipitation		Dep.								1.5	Possible month	395.0	56	6.5	6.2
Season to date						Snow, ice pellets		Greatest in 24 hours and dates		Greatest depth on ground of snow, ice pellets or ice and date													
Number of days						Total		Precipitation		Snow, ice pellets													
Maximum Temp. Minimum Temp.						3494 37		Thunderstorms		4		1.56 21-22		7-8									
≥ 90° / ≥ 32°						≥ 32° / ≥ 0°		Dep. Dep.															
0						0		5		0		-318		Clear 8		Partly cloudy 4		Cloudy 18					

HOURLY PRECIPITATION (Water equivalent 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	.03	T																							2
3																									3
4																									4
5																									5
6																									6
7																									7
8	.02	T																							8
9																									9
10																									10
11																									11
12																									12
13																									13
14																									14
15																									15
16																									16
17	.04																								17
18																									18
19																									19
20																									20
21																									21
22	.05	.08	.02	.02	.11	.16	.20	.25	.12	.02	.01	.01	.22	.02	T	.10	.09	.01	T	.03	.04	T	T	22	
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30

Extremes temperatures for the month. May be the last of more than one occurrence.
 - Below zero temperature or negative departure from normal.
 * ≥ 70° at Alaskan stations.
 † Also on an earlier date, or dates.
 x Heavy fog restricts visibility to 1/4 mile or less.
 T In the Hourly Precipitation table and in columns 9, 10, and 11 indicates an amount too small to measure.
 The season for degree days begins with July for heating and with January for cooling.
 Data in columns 6, 12, 13, 14, and 15 are based on 3 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.

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard
 Director, National Climatic Center

SUMMARY BY HOURS

Hour	Local time	Sky cover Tenths	Station pressure In.	Temperature			Relative humidity %	Wind speed m.p.h.	Direction	Resultant wind Speed m.p.h.
				Air °F	Met bulb °F	Dew Pt. °F				
01	6	29.84	49	45	41	76	6.9	23	1.0	
04	6	29.83	47	44	40	79	6.6	30	.3	
07	6	29.86	49	45	41	77	7.0	20	1.2	
10	7	29.87	58	50	42	58	9.0	25	1.6	
13	7	29.82	65	53	42	47	11.2	25	3.5	
16	6	29.78	67	54	42	44	11.9	27	3.0	
19	6	29.80	59	50	41	54	9.0	09	2.3	
22	5	29.84	53	48	42	66	8.6	16	2.7	

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER	CEILING Hkts. of fl.	VISI- BILITY MILES	WEATHER	TEMPERATURE				WIND DIR. SPEED Knots	VISI- BILITY MILES	WEATHER	TEMPERATURE				WIND DIR. SPEED Knots	VISI- BILITY MILES	WEATHER	TEMPERATURE																																								
					AIR °F	WET BULB °F	DEW PT. °F	REL. HUM.				AIR °F	WET BULB °F	DEW PT. °F	REL. HUM.				AIR °F	WET BULB °F	DEW PT. °F	REL. HUM.																																					
01	10	80	8		42	40	38	86	35	5	10	40	3		45	44	42	89	23	8	3	UNL	12		38	33	25	60	29	5																													
04	10	55	7		41	39	37	86	27	6	10	23	10		40	39	37	89	02	6	0	UNL	12		30	29	26	85	00	0																													
07	8	80	4	GF	41	40	38	89	32	6	3	UNL	5		37	37	36	96	00	0	0	UNL	7		35	32	28	76	24	4																													
10	7	150	7		51	44	36	57	26	6	8	35	7		48	41	32	54	35	5	3	UNL	7		48	39	25	41	25	7																													
13	10	40	10		54	45	34	47	20	12	8	30	12		49	42	32	52	18	3	3	UNL	7		55	43	26	33	25	10																													
16	9	UNL	10		50	46	35	45	19	10	8	30	12		51	40	24	52	30	11	2	UNL	10		61	46	28	29	27	10																													
19	0	UNL	10		50	44	37	61	15	8	3	UNL	12		47	38	25	42	29	7	6	UNL	10		50	42	33	52	11	5																													
22	2	UNL	10		47	43	38	71	18	6	0	UNL	12		38	34	28	47	23	7	0	UNL	10		46	41	34	63	11	7																													
DAY 04																				DAY 05																				DAY 06																			
01	0	UNL	12		43	40	36	76	11	6	0	UNL	8		36	34	30	79	00	0	2	UNL	12		48	42	34	59	19	10																													
04	0	UNL	12		49	46	39	64	19	10	0	UNL	7		32	31	31	92	00	0	10	UNL	12		46	40	32	60	20	7																													
07	10	100	7		54	49	44	69	18	9	0	UNL	7		34	33	31	89	00	0	7	UNL	12		46	40	32	58	19	7																													
10	10	90	7		60	54	48	65	20	10	0	UNL	7		50	41	28	43	00	0	5	UNL	12		60	49	38	44	24	6																													
13	10	39	7		68	57	48	49	27	15	0	UNL	7		60	45	27	28	16	12	0	UNL	12		69	52	35	29	19	11																													
16	9	100	10		57	52	47	69	36	15	2	UNL	10		64	47	26	24	22	15	1	UNL	12		74	54	34	23	24	11																													
19	7	100	10		53	45	37	55	01	11	6	UNL	10		56	44	28	34	19	9	8	UNL	12		65	51	37	36	20	8																													
22	0	UNL	10		45	39	30	56	36	7	0	UNL	10		53	44	33	47	19	11	4	UNL	12		61	50	39	44	19	9																													
DAY 07																				DAY 08																				DAY 09																			
01	0	UNL	12		58	50	42	55	20	11	10	6	5		34	33	31	89	01	10	0	UNL	12		31	27	19	61	33	10																													
04	3	UNL	12		56	50	44	64	19	10	10	6	6		31	30	28	89	36	12	0	UNL	12		29	26	17	61	35	8																													
07	10	130	7		58	53	48	70	20	10	10	10	7		30	29	26	85	02	10	0	UNL	12		30	26	16	56	34	8																													
10	10	100	6	H	66	57	49	54	21	7	10	10	3		31	29	26	82	35	10	2	UNL	12		40	32	17	39	34	5																													
13	10	50	6	H	65	58	52	63	35	12	10	25	10		34	30	24	67	35	11	2	UNL	12		47	37	20	34	33	8																													
16	10	100	6	RF	64	55	45	96	02	11	9	30	10		35	30	20	34	35	13	1	UNL	12		52	39	19	27	32	6																													
19	10	10	7	F	65	56	45	91	19	10	3	UNL	12		35	30	19	25	24	11	1	UNL	12		55	46	21	39	44	4																													
22	10	9	4	TRF	34	33	32	92	08	10	0	UNL	12		33	28	18	54	30	7	0	UNL	12		33	30	25	72	12	3																													
DAY 10																				DAY 11																				DAY 12																			
01	0	UNL	12		32	30	25	75	18	3	10	100	12		37	47	36	46	23	10	9	250	10		50	48	46	86	06	4																													
04	0	UNL	12		30	28	24	78	17	4	10	100	12		33	45	35	51	19	6	6	100	8		52	48	44	74	09	8																													
07	8	100	7		37	35	27	67	21	7	4	10	100	12		50	46	35	45	22	8	10	100	7		51	47	44	77	09	8																												
10	10	90	7		54	49	42	64	24	15	10	100	8		57	51	45	64	22	7	10	80	7		57	50	47	82	19	7																													
13	10	90	7		61	46	27	27	23	12	8	UNL	10		72	58	46	40	22	9	8	UNL	7		65	56	48	54	07	8																													
16	10	250	7		64	48	30	28	22	11	10	250	10		73	60	50	44	24	11	10	100	7		61	54	48	65	06	8																													
19	9	250	12		56	45	33	42	19	6	10	250	10		67	58	52	59	27	5	10	18	7		54	50	47	77	08	6																													
22	8	250	12		59	49	39	48	22	9	10	250	7		58	54	50	75	31	3	10	14	7		52	49	46	80	10	6																													
DAY 13																				DAY 14																				DAY 15																			
01	10	11	7		51	48	45	80	08	3	7	250	6		62	60	59	90	22	7	9	100	12		57	50	44	62	10	6																													
04	10	5	4	F	50	49	48	93	08	4	8	250	10		66	61	57	73	23	9	10	50	7		57	53	50	78	09	4																													
07	10	3	1	F	50	49	49	96	11	5	10	60	12		65	60	57	75	24	9	10	250	5		57	54	52	83	14	8																													
10	10	4	1	F	56	56	56	100	21	10	10	100	10		69	64	61	76	20	7	8	250	6		66	61	57	73	21	4																													
13	10	25	2	RMKH	68	63	60	76	24	11	10	200	10		75	64	57	54	23	13	9	250	7		81	69	62	53	23	9																													
16	8	UNL	5	KH	78	68	62	58	23	10	9	250	10		80	65	55	42	31	6	9	250	7		87	71	62	43	23	9																													
19	7	250	7		71	65	62	73	21	7	7	250	12		69	58	50	51	09	10	10	70	3		67	65	64	90	36	10																													
22	10	100	7		67	64	63	87	22	8	9	100	12		58	51	45	62	12	11	9	80	4		66	63	64	93	21	5																													
DAY 16																				DAY 17																				DAY 18																			
01	9	50	1	GF	61	60	60	97	00	0	10	60	12		57	55	53	87	28	4	0	UNL	12		49	46	43	80	00	0																													
04	2	UNL	3	GF	60	59	58	93	00	0	3	UNL	12		57	50	44	62	28	9	0	UNL	12		45	44	42	89	34	3																													
07	7	UNL	2	GF	62	62	62	100	00	0	0	UNL	12		59	51	44	58	24	5	0	UNL	10		52	48	45	77	00	0																													
10	9	100	7		76	67	62	62	09	0	0	UNL	10		62	54	46	56	35	13	0	UNL	12		69	53	36	30	25	3																													
13	9	100	7		84	76	62	48	15	14	0	UNL	10		70	57	46	42	34	12	0	UNL	12		78	55	35	23	21	6																													
16	9	250	7		88	70	62	39	21	13	0	UNL	10		75	56	39	32	34	9	4	UNL	12		81	66	33	62	19	10																													
19	8	250	7		78	67	61	56	20	13	0	UNL	12		68	52	37	32	34	3	4	UNL	12		66	55	45	47	15	5																													
22	2	UNL	12		76	64	56	50	24	12	0	UNL	12		54	48	43	67	00	0	0	UNL	12		63	55	46	58	15	10																													
DAY 19																				DAY 20																				DAY 21																			
01	0	UNL	12		59	55	47	65	20	9	8	250	12		67	58	52	59	21	14	10	18	12		52	49	46	80	05	14																													
04	0	UNL	12		58	52	47	67	21	8	10	120	12		65	59	55	70	20	7	10	35	12		50	47	45	83	06	7																													
07	0	UNL	12		61	55	50	67	22	8	9	250	10		65	61	58	78	21	8	9	35	10		50	45	40	69	06	12																													
10	0	UNL	12		75	61	51	43	22	12	8	UNL	10		76	66	60	58	21	12	10	120	10		52	45	37	57	05	11																													
13	3	UNL	12		81	63	50	34	23	12	9	250	10		82	67	58	44	23	12	7	250	10		60	46	35	39	07	10																													
16	7	250	12		84	76	62	30	20	12	9	50	10		85	68	57	39	25	12	10	100	10		60	49	37	43	12	13																													
19	8	250	7		75	61	50	42	21	8	10	50	7		70	64	60	71	28	4	10	100																																					