



LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA
BYRD FIELD
AUGUST 1972

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

Date	Temperature °F							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 Speed m.p.h. Direction	Hours and tenths	Percent of possible	Sunrise to sunset		Midnight to midnight
1	85	68	77	-1	70	0	12	1	8	0	0	29.94	23	4.5	8	5	7.6	54	7	7	1
2	84	67	76	-2	71	0	11	1	3	8	0	29.83	19	3.0	21	NW	7.4	53	8	8	2
3	89	66	78	0	72	0	13	2	2	8	0	29.76	21	3.3	4.0	10	9.0	64	9	7	3
4	89	70	80	2	72	0	15	1	8	8	0	29.82	02	3.8	3.6	13	8.4	60	7	7	4
5	74	66	70	-1	65	0	5	1	8	8	0	29.96	01	6.6	8.8	15	0.8	6	10	10	3
6	84	66	75	-3	69	0	10	1	8	8	0	29.87	17	1.2	3.5	9	10.8	78	6	5	6
7	88	67	78	1	71	0	13	1	8	8	0	29.63	21	8.6	9.1	17	12.3	89	6	6	7
8	86	71	79	2	72	0	14	1	8	8	0	29.68	24	3.0	3.8	14	13.6	98	3	4	8
9	89	69	79	2	68	0	14	1	8	8	0	29.75	25	7.3	9.1	17	12.3	89	6	5	9
10	78	59	69	-2	68	0	4	1	8	8	0	30.03	02	6.6	7.6	16	12.0	87	6	6	10
11	79	54*	67	-10	57	0	2	1	8	8	0	30.08	15	4.3	5.0	11	11.3	82	4	4	11
12	83	61	72	-5	64	0	7	1	8	8	0	29.96	18	6.0	6.3	13	11.6	84	5	3	12
13	87	66	77	0	69	0	12	1	3	8	0	29.90	24	2.0	5.2	17	6.7	49	9	7	13
14	86	67	77	0	69	0	12	2	2	8	0	29.90	25	4.2	2.5	5	11.6	85	5	5	14
15	84	61	73	-4	68	0	8	1	8	8	0	29.93	04	4.2	6.7	17	3.0	22	9	7	15
16	77	56	67*	-10	57	0	2	1	8	8	0	30.06	06	3.2	5.2	12	10.5	77	5	4	16
17	79	62	71	-5	66	0	6	1	8	8	0	29.85	19	3.6	5.9	12	2.9	22	10	10	17
18	87	69	78	2	71	0	13	1	8	8	0	29.75	01	1.0	2.7	8	9.4	69	7	8	18
19	89	68	79	3	69	0	14	1	8	8	0	29.80	33	4.8	3.0	14	8.0	59	7	8	19
20	85	65	75	-1	65	0	10	1	8	8	0	29.90	04	4.9	5.9	10	12.3	92	2	2	20
21	83	60	72	-4	62	0	7	1	8	8	0	29.93	09	1.5	3.5	8	12.8	95	3	1	21
22	84	57	71	-5	63	0	6	1	8	8	0	29.84	16	4.3	4.9	8	13.4	100	2	1	22
23	88	66	77	1	69	0	12	2	2	8	0	29.81	18	4.3	5.0	8	10.0	75	6	5	23
24	90	68	79	4	71	0	14	1	8	8	0	29.83	18	1.9	3.0	8	11.0	83	4	2	24
25	91	68	80	5	72	0	15	1	8	8	0	29.86	20	3.2	4.0	9	12.6	95	2	2	25
26	91*	69	80	5	71	0	15	1	8	8	0	29.82	21	5.7	6.2	13	12.8	97	5	4	26
27	90	71	81*	6	70	0	16	1	3	8	0	29.74	22	9.0	9.4	19	9.2	70	6	6	27
28	82	71	77	2	71	0	12	1	8	8	0	29.73	22	3.0	5.0	11	6.6	50	9	9	28
29	86	65	76	2	66	0	11	1	8	8	0	29.78	36	3.3	3.3	7	12.2	93	4	3	29
30	86	66	76	2	66	0	11	1	8	8	0	29.88	02	6.0	6.3	14	13.1	100	2	2	30
31	83	66	75	1	66	0	10	2	8	8	0	29.98	07	5.6	6.8	13	9.1	69	7	7	31
Sum	2636	2025				Total	Total					29.86	19	6	5.6	21	NW	304.3	for	181	165
Avg.	85.0	65.3	75.2	-0.8	67														Date: 02	Possible month	Avg.
Number of days										Season to date		Greatest in 24 hours and dates			Greatest depth on ground of snow, ice pellets or ice and date						
Maximum Temp.		Minimum Temp.		Total		Total		Snow, ice pellets ≥ 1.0 inch		Precipitation		Snow, ice pellets									
≥ 90°		≥ 32°		≥ 0°		Dep.		Dep.		Clear		Partly cloudy		Cloudy							

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																									2
3																									3
4																									4
5																									5
6																									6
7																									7
8																									8
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27																									27
28																									28
29																									29
30																									30
31																									31

* Extreme 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 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.

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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	AVERAGES							Resultant wind	
		Sky cover Tenths	Station pressure in.	Temperature			Relative humidity %	Wind speed m.p.h.	Direction	Speed m.p.h.
01	4	29.86	69	67	66	92	4.2	19	1.1	
04	4	29.85	67	66	65	94	4.0	26	.9	
07	6	29.88	69	68	67	92	4.7	28	1.2	
10	5	29.89	79	72	68	71	6.9	07	1.3	
13	6	29.86	83	72	68	61	7.6	23	1.3	
16	6	29.83	83	72	68	62	7.4	18	1.5	
19	6	29.84	76	71	68	77	5.5	14	1.7	
22	5	29.86	71	68	67	88	4.3	15	1.7	

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER	CEILING	VISIBILITY	WEATHER	TEMPERATURE					WIND			WEATHER	TEMPERATURE	WIND			WEATHER	TEMPERATURE	WIND											
					AIR °F	WET BULB °F	DEW PT. °F	REL. HUM.	DIR.	SPEED	SKY COVER	CEILING			VISIBILITY	AIR °F	WET BULB °F			DEW PT. °F	REL. HUM.	DIR.	SPEED	SKY COVER	CEILING	VISIBILITY	AIR °F	WET BULB °F	DEW PT. °F	REL. HUM.	DIR.
01	10	80	5	DAY 01	70	69	69	97	24	6	3	UNL	5	DAY 02	69	68	68	97	00	0	4	UNL	5	DAY 03	68	67	67	97	18	2	
04	8	80	2	GF	68	67	67	100	20	4	8	250	4	H	73	72	71	93	14	3	8	120	0	12	GF	67	67	67	100	00	0
07	10	140	5	H	77	72	70	79	34	3	10	250	4	H	80	75	73	79	13	5	8	300	2	8	GF	79	76	75	88	21	5
10	10	140	5	H	79	73	71	77	17	4	10	20	1	TRM	77	74	73	88	20	7	8	300	5	H	85	78	76	75	16	7	
13	10	18	7	H	84	74	70	63	02	4	6	UNL	10	H	79	75	73	82	10	8	10	300	6	H	88	79	75	65	24	6	
16	4	UNL	6	H	79	73	70	74	04	3	10	50	10	H	76	73	72	87	10	4	6	300	6	H	84	77	74	72	23	3	
19	4	UNL	6	H	70	69	69	97	15	4	8	40	10	H	69	68	68	97	00	0	3	UNL	7	H	76	74	73	90	18	3	
22	8	250	5	H	69	69	69	97	15	4	8	40	10	H	69	68	68	97	00	0	3	UNL	7	H	76	74	73	90	18	3	
01	0	UNL	7	DAY 04	73	72	71	93	19	3	10	7	3	DAY 05	69	68	67	93	01	10	10	18	7	DAY 06	69	68	67	93	34	6	
04	0	UNL	7	H	74	72	71	90	29	4	10	11	3	RNF	67	66	66	97	36	7	8	23	7	H	68	67	66	93	01	4	
07	100	2	8	GF	66	65	65	94	00	0	10	6	2	F	66	65	64	93	36	9	10	14	5	GF	69	68	67	93	36	5	
10	7	250	3	H	84	77	74	72	36	9	10	25	5	H	67	64	63	87	03	11	6	16	7	H	76	71	69	79	17	3	
13	7	30	3	H	87	77	73	63	03	5	10	18	7	H	70	66	64	81	02	6	6	30	8	H	82	73	68	63	18	5	
16	10	UNL	3	H	87	77	73	63	03	5	10	45	7	H	73	68	66	79	01	9	6	30	8	H	84	74	70	63	18	5	
19	10	35	3	H	79	74	73	79	07	3	10	30	7	H	82	76	74	81	01	9	1	UNL	8	H	77	77	72	85	19	5	
22	10	25	5	H	73	70	69	69	04	5	10	40	7	H	70	67	66	87	01	4	0	UNL	8	H	72	70	69	90	17	5	
01	3	UNL	7	DAY 07	69	68	67	93	18	5	10	250	7	DAY 08	78	73	71	79	23	6	0	UNL	6	DAY 09	71	70	69	93	00	0	
04	3	UNL	7	H	68	67	66	93	20	5	10	250	7	H	74	69	67	79	23	5	0	UNL	6	H	69	68	67	93	19	4	
07	7	UNL	7	GFH	71	69	68	90	20	9	3	UNL	7	H	74	70	68	82	24	5	3	UNL	6	H	73	69	67	82	24	8	
10	8	UNL	7	H	82	76	73	74	22	10	1	UNL	7	H	82	76	74	83	24	7	7	250	7	H	82	73	69	63	21	7	
13	8	30	5	H	85	77	73	67	33	9	4	UNL	7	H	85	77	73	67	33	9	4	UNL	7	H	85	77	73	67	33	9	
16	7	300	5	H	87	77	73	63	24	10	6	45	7	H	85	72	66	53	25	7	8	UNL	7	H	89	75	69	52	26	12	
19	4	UNL	7	H	81	75	72	74	21	6	1	UNL	7	H	78	73	70	77	21	4	8	80	7	H	84	74	69	61	26	10	
22	9	250	7	H	80	74	72	77	20	9	0	UNL	7	H	72	70	69	90	14	2	8	250	12	H	79	69	64	60	33	8	
01	7	60	12	DAY 10	69	61	58	63	02	8	0	UNL	12	DAY 11	57	56	56	96	15	3	0	UNL	12	DAY 12	64	61	59	84	19	3	
04	10	120	12	H	66	65	64	95	04	8	0	UNL	12	H	61	60	59	96	00	3	0	UNL	12	H	61	60	59	93	17	3	
07	9	120	7	H	65	65	65	70	30	8	0	UNL	5	GF	60	59	58	93	00	0	6	UNL	6	H	65	63	61	87	19	4	
10	8	UNL	7	H	72	63	57	59	04	9	0	UNL	6	H	74	62	53	48	11	7	0	UNL	6	H	77	69	64	64	17	9	
13	3	UNL	7	H	76	63	54	47	01	9	4	UNL	7	H	78	66	58	50	18	8	4	UNL	6	H	82	72	67	61	17	8	
16	3	UNL	10	H	77	63	53	43	01	7	9	120	7	H	77	65	58	52	18	7	4	UNL	7	H	82	73	68	63	21	8	
19	4	UNL	10	H	68	61	56	66	05	4	10	80	8	H	70	63	58	66	13	5	7	UNL	7	H	76	71	69	79	13	4	
22	4	UNL	12	H	60	59	58	93	18	3	10	50	12	H	68	63	60	76	13	5	0	UNL	7	H	70	68	67	90	13	3	
01	0	UNL	7	DAY 13	69	68	67	93	19	4	7	UNL	2	DAY 14	68	67	67	97	03	3	0	UNL	4	DAY 15	72	71	70	93	23	4	
04	0	UNL	7	H	68	67	66	93	21	4	10	1	0	F	67	67	67	100	26	3	0	UNL	4	GFH	69	68	68	97	33	4	
07	10	UNL	5	GF	70	69	68	93	18	4	10	1	0	F	68	68	68	100	34	2	8	250	2	GFH	72	71	70	93	23	3	
10	6	80	5	H	81	73	70	69	31	4	7	10	2	H	79	74	72	79	00	0	5	UNL	3	H	82	76	73	74	03	5	
13	8	30	5	H	85	75	71	63	19	3	6	25	3	H	85	75	70	61	35	2	0	120	2	H	78	73	70	77	02	10	
16	10	30	3	TRM	76	73	72	77	33	7	3	UNL	5	H	86	73	67	53	00	0	10	5	1	RWH	69	68	67	93	05	10	
19	10	30	2	RF	80	68	63	97	19	5	3	UNL	5	H	77	74	72	85	17	4	10	50	3	H	69	68	65	87	06	5	
22	9	250	3	GF	69	68	68	97	35	4	0	UNL	5	H	73	71	70	90	20	3	3	UNL	12	H	64	60	58	81	07	7	
01	0	UNL	12	DAY 16	60	58	57	90	04	4	10	35	10	DAY 17	63	61	60	90	19	3	10	100	4	DAY 18	71	70	70	97	19	3	
04	0	UNL	12	H	58	57	56	93	02	5	10	40	10	RW	63	61	59	87	21	4	9	100	4	GFH	70	69	69	97	00	0	
07	1	UNL	10	H	61	59	58	90	01	5	10	40	10	H	65	62	60	84	18	7	10	3	1	H	71	70	70	97	17	3	
10	1	UNL	10	H	71	62	56	58	20	8	10	40	3	RWH	68	67	66	93	19	10	8	14	3	H	79	74	70	97	33	9	
13	6	250	10	H	75	63	55	50	07	4	10	30	3	RWH	73	70	69	87	21	6	8	24	3	H	84	74	73	70	17	3	
16	7	30	10	H	74	64	58	58	06	4	10	35	5	H	79	73	71	77	21	5	6	25	2	H	84	76	73	70	10	0	
19	10	250	10	H	76	64	59	73	13	4	7	250	2	GFH	74	72	71	90	15	5	6	UNL	1	H	78	74	73	85	13	3	
22	6	UNL	10	H	61	60	59	93	15	4	7	80	5	GFH	71	70	69	93	00	0	8	250	2	H	74	72	71	90	00	0	
01	6	250	2	DAY 19	72	71	71	97	00	0	6	50	10	DAY 20	70	69	68	93	34	4	0	UNL	12	DAY 21	64	63	62	93	00	0	
04	6	250	2	H	70	70	70	100	00	0	2	UNL	10	H	66	65	65	97	36	6	0	UNL	5	GF	62	61	60	93	00	0	
07	5	UNL	1	GF	73	72	72	97	00	0	0	UNL	10	H	67	65	64	90	01	6	2	UNL	2	H	65	64	64	97	35	4	
10	7	250	3	H	83	75	71	67	35	10	0	UNL	10	H	79	72	68	69	05	4	0	UNL	5	H	78	68	62	58	20	3	
13	7	UNL	8	H	88	72	64	43	33	6	0	25	12	H	81	69	63	54	05	7	4	UNL	7	H	81	67	59	47	04	4	
16	10	40	12	RW	82	71	65	36	35	10	3	UNL	12	H	82	70	64	55	05	6	4	UNL	8	H	79	68	62	56	07	5	
19	9	30	7	RF	74	71	69	84	35	5	3	UNL	10	H	75	68	64	69	05	4	1	UNL	7	H	72	67	64	76	14	4	
22	9	250	6	H	71	70	69	93	04	4	0	UNL	12	H	68																