



LOCAL CLIMATOLOGICAL DATA

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

RICHMOND, VIRGINIA
BYRD FIELD
SEPTEMBER 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	Degree days Base 65°				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	
						Heating	Cooling									Speed	Direction						
1	75	64	70	-4	63	0	0	0	0	0	0	29.92	01	4.3	5.8	10	NE	1.2	9	10	10		
2	72	64	68	-6	66	0	0	0	0	0	0	29.81	36	8.4	8.6	14	N	0.2	2	10	9		
3	85	64	75	1	67	0	0	0	0	0	0	29.78	31	4.6	6.2	10	W	10.7	82	3	4		
4	86	65	76	2	66	0	0	0	0	0	0	29.76	01	1.7	4.6	14	N	7.4	58	3	7		
5	67	57	62	-12	61	0	0	0	0	0	0	29.78	01	4.7	4.3	10	N	0.1	1	10	6		
6	79	54	67	-7	56	0	0	0	0	0	0	29.86	02	4.0	4.3	10	NE	11.5	88	3	2		
7	81	53	67	-9	57	0	0	0	0	0	0	29.90	02	4.6	5.0	11	NE	12.9	96	1	1		
8	83	57	70	-3	59	0	0	0	0	0	0	29.83	35	4.7	4.9	10	N	12.7	100	2	1		
9	82	60	71	-2	63	0	0	0	0	0	0	29.82	36	6.4	6.5	16	N	8.3	65	0	4		
10	76	50	63	-10	50	0	0	0	0	0	0	30.10	02	5.4	5.8	13	NE	12.0	100	0	0		
11	75	46*	61*	-11	52	0	0	0	0	0	0	30.09	19	4.2	4.6	10	SW	7.0	55	8	6		
12	88	62	75	3	63	0	0	0	0	0	0	29.96	25	3.6	5.2	11	NW	5.0	41	9	9		
13	91*	67	79*	7	65	0	0	0	0	0	0	29.88	23	6.6	6.9	14	SW	9.8	76	6	3		
14	90	65	78	5	65	0	0	0	0	0	0	29.73	24	6.2	7.2	17	N	8.5	68	4	3		
15	79	61	70	-1	62	0	0	0	0	0	0	29.79	01	4.9	5.2	12	N	11.5	92	4	4		
16	88	61	75	4	64	0	0	0	0	0	0	29.74	23	1.8	2.3	9	SW	5.7	46	6	3		
17	88	65	77	7	70	0	0	0	0	0	0	29.85	18	6.0	6.5	13	SW	7.2	58	8	17		
18	84	66	75	5	69	0	0	0	0	0	0	29.93	21	3.2	7.2	17	N	1.9	15	10	8		
19	83	64	75	5	65	0	0	0	0	0	0	29.93	36	6.8	7.3	16	N	11.8	96	3	3		
20	68	60	64	-5	56	1	0	1	0	0	0	30.04	01	10.0	10.1	17	N	0.0	0	10	10		
21	65	60	63	-6	60	2	0	0	1	0	0	29.88	36	10.0	10.2	17	N	0.0	0	10	10		
22	80	61	71	3	62	0	0	0	0	0	0	29.90	34	4.3	4.5	12	N	9.1	75	5	7		
23	72	53	63	-5	51	2	0	0	0	0	0	30.08	04	4.2	4.9	12	NE	9.7	80	7	7		
24	78	56	67	-1	60	0	0	0	0	0	0	30.08	18	3.2	3.7	9	S	4.6	38	9	8		
25	85	62	74	7	65	0	0	0	0	0	0	30.04	19	3.8	4.9	11	W	8.1	67	2	4		
26	87	64	76	9	67	0	0	0	0	0	0	29.98	20	5.6	6.0	12	SW	10.5	87	9	7		
27	83	67	75	8	68	0	0	0	0	0	0	29.93	22	1.0	5.0	9	N	1.8	15	10	9		
28	74	67	71	5	67	0	0	0	0	0	0	29.97	06	5.0	5.9	12	E	0.0	0	10	10		
29	76	65	71	5	67	0	0	0	0	0	0	29.74	14	2.2	5.3	15	SW	0.3	3	10	10		
30	74	49	62	-3	60	3	0	1	3	0	0	29.52	27	3.1	8.9	18	NW	0.1	1	10	9		
Sum	2395	1809				17	178					3.35	0	29.89	35	1.7	5.9	18	NW	189.2		201	190
Avg.	79.9	60.3	70.1	-0.1	62	-19														372.7	51	6.7	6.3
Number of days										Greatest in 24 hours and dates										Greatest depth on ground of snow, ice pellets or ice and date			
Maximum Temp. Minimum Temp.										Precipitation										Snow ice pellets			
≥ 90° 2										29-30										0			
≤ 32° 0										2										0			
≥ 32° 0										2										0			
≤ 0° 0										7										0			
Season to date										Clear 7										Partly cloudy 8			
Season to date										Snow, ice pellets 0										Heavy fog X 2			
Season to date										Thunderstorms 2										Precipitation 2			
Season to date										Snow, ice pellets 0										Precipitation 2			

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
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26																									26
27																									27
28																									28
29																									29
30																									30

* 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.
Heavy fog restricts visibility to 1/4 mile or less.
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. 18 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	Station pressure	Temperature				Relative humidity %	Wind speed m.p.h.	Direction	Resultant wind speed m.p.h.
			Air °F	Wet bulb °F	Dew Pt. °F	of °F				
01	6	29.89	64	62	61	90	4.8	36	1.4	
04	6	29.88	63	61	61	92	5.4	34	1.3	
07	7	29.91	64	62	61	91	5.1	34	1.9	
10	6	29.92	73	66	63	73	7.8	33	2.1	
13	7	29.88	78	68	63	63	8.6	33	2.3	
16	7	29.86	77	68	63	64	7.4	34	2.4	
19	6	29.87	70	66	64	82	4.1	01	1.4	
22	6	29.89	66	64	62	88	4.2	36	1.1	

NEW PRICES AND CORRESPONDENCE ADDRESS EFFECTIVE WITH SEPTEMBER 1972 ISSUE.

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER Tenth	CEILING Hkts. of fl.	VISI- BILITY MILES	TEMPERATURE				WIND			WEATHER	TEMPERATURE				WIND			WEATHER	TEMPERATURE				WIND						
				AIR	WET BULB	DEW PT.	REL. HUM.	DIR.	SPEED	DIR.		SPEED	AIR	WET BULB	DEW PT.	REL. HUM.	DIR.	SPEED		DIR.	SPEED	AIR	WET BULB	DEW PT.	REL. HUM.	DIR.	SPEED	DIR.	SPEED	
DAY 01																														
01	10	250	12	66	63	62	87	01	4	10	120	10	DAY 02	64	63	62	93	35	7	0	UNL	5	DAY 03	66	66	66	100	33	6	
04	10	250	12	64	62	61	90	01	5	10	120	10		64	63	62	93	35	7	0	UNL	5		65	64	64	97	32	6	
07	10	100	12	66	64	63	90	04	5	10	18	4	FH	66	65	64	93	36	8	0	UNL	4		67	66	66	97	32	6	
10	10	100	10	72	66	63	73	08	6	10	6	1	RF	66	66	66	100	35	11	1	UNL	6	H	77	71	68	74	36	5	
13	10	30	10	73	67	64	74	03	6	10	7	1	RF	70	69	69	97	01	9	4	UNL	7	H	82	73	68	63	27	7	
16	10	50	7	69	68	67	93	36	5	10	9	4	RF	71	70	70	97	02	8	10	80	2	H	85	74	69	53	27	4	
19	10	100	10	65	63	62	90	30	6	10	15	7	GF	69	68	67	93	34	7	10	80	1	H	75	72	70	85	19	4	
22	10	100	10	65	63	62	90	30	6	10	50	5	GF	69	68	67	93	34	4	10	80	1	H	72	69	68	87	31	7	
DAY 04																														
01	10	70	4	69	67	66	90	27	3	10	70	12	DAY 05	66	65	64	93	35	3	0	UNL	6	DAY 06	56	56	56	100	00	0	
04	8	90	4	66	65	65	87	15	3	10	70	12		65	65	61	87	02	5	0	UNL	5		55	55	55	100	35	4	
07	9	60	4	69	68	67	93	00	0	10	80	7		64	60	58	81	01	5	2	UNL	5		58	57	57	96	36	0	
10	8	UNL	2	84	73	68	62	18	4	10	80	3	RF	72	69	68	93	01	7	0	45	8		72	69	68	93	01	7	
13	8	UNL	3	77	71	68	74	02	10	10	20	5	F	64	62	60	87	01	6	7	45	8		74	63	55	52	03	4	
16	4	UNL	3	70	67	65	84	03	4	6	100	7		62	61	60	93	00	0	0	UNL	8		66	61	57	73	00	0	
19	4	UNL	7	66	64	63	90	03	3	2	UNL	12		60	59	59	97	00	0	0	UNL	12		59	57	56	90	00	0	
DAY 07																														
01	0	UNL	12	56	55	54	93	36	4	0	UNL	10	DAY 08	59	58	57	93	33	5	0	UNL	5	DAY 09	62	60	59	90	36	3	
04	0	UNL	12	54	53	52	93	35	4	0	UNL	3		57	56	56	94	35	4	9	UNL	4		62	60	59	90	00	0	
07	0	UNL	7	59	57	55	87	35	6	0	UNL	2	GF	67	59	58	93	34	5	9	100	2	GFH	66	64	63	90	00	0	
10	0	UNL	7	74	64	57	55	03	7	0	UNL	7		76	66	60	58	35	5	0	UNL	4	H	80	71	67	65	35	10	
13	5	UNL	8	79	66	58	49	03	6	1	UNL	7		82	69	61	49	01	7	10	100	1	12	80	71	67	65	36	9	
16	1	UNL	8	80	66	58	47	04	3	4	UNL	7		82	68	60	47	01	8	4	UNL	4	H	81	70	63	58	01	1	
19	0	UNL	8	68	63	60	76	05	3	2	UNL	6	H	69	65	62	79	00	0	0	UNL	5	H	72	67	65	79	35	3	
22	0	UNL	7	63	61	59	87	00	0	0	UNL	6	H	64	62	61	90	00	0	0	UNL	5	H	68	60	59	65	36	8	
DAY 10																														
01	0	UNL	12	62	57	54	75	01	7	0	UNL	12	DAY 11	49	48	47	93	00	0	7	UNL	8	DAY 12	62	59	57	84	22	3	
04	0	UNL	12	56	54	52	87	33	5	0	UNL	12		48	47	46	93	15	3	5	UNL	8		62	59	57	84	20	3	
07	0	UNL	12	57	53	50	78	36	5	7	UNL	7		56	54	52	87	23	3	10	100	8		64	60	58	81	19	4	
10	1	UNL	12	68	57	49	51	04	10	8	120	6	H	67	58	52	59	22	6	10	110	7		73	66	61	66	25	8	
13	1	UNL	12	74	59	47	38	03	8	10	100	12		74	61	52	46	17	7	9	120	6	H	84	71	65	39	27	7	
16	1	UNL	12	75	58	48	38	35	8	8	110	12		74	60	51	42	23	7	8	230	4	H	87	74	66	30	01	7	
19	1	UNL	12	63	55	51	72	00	0	6	250	12		63	60	57	75	18	3	10	80	4	H	78	73	70	77	14	0	
22	0	UNL	12	53	51	49	86	00	0	10	250	12		63	61	58	78	18	3	10	80	4	H	74	71	69	84	00	0	
DAY 13																														
01	7	UNL	4	70	68	67	90	20	3	0	UNL	5	DAY 14	68	64	62	81	21	4	10	7	2	DAY 15	70	69	69	97	01	7	
04	8	UNL	4	68	66	65	90	22	3	3	UNL	5	H	69	64	61	76	23	4	10	7	3	F	67	65	66	97	02	0	
07	4	UNL	3	70	67	66	87	24	4	0	UNL	4	H	68	64	61	90	25	7	8	UNL	7	H	62	60	60	90	01	7	
10	5	UNL	3	83	72	66	57	24	6	0	UNL	5	H	82	70	64	55	24	10	4	UNL	7	H	72	65	61	68	02	6	
13	9	UNL	3	90	74	67	47	25	11	4	UNL	5	H	89	74	67	48	26	10	6	20	12	GF	78	67	60	54	02	6	
16	7	UNL	4	86	73	68	59	24	5	5	UNL	5	H	88	75	69	53	18	9	10	90	6	H	78	72	69	74	21	7	
19	3	UNL	7	79	72	63	42	23	8	10	120	3	H	86	74	68	55	23	8	3	UNL	12	H	77	65	58	52	32	3	
22	2	UNL	6	81	69	65	69	20	5	10	250	5	H	79	72	69	72	22	5	0	UNL	12	H	69	64	61	76	00	0	
DAY 16																														
01	6	40	5	62	60	59	90	00	0	0	UNL	4	DAY 17	66	66	66	100	20	4	10	140	6	DAY 18	75	72	71	87	18	4	
04	7	250	5	62	61	60	93	19	4	10	2	0	GFH	69	68	68	97	22	4	10	140	7	H	72	69	68	87	20	7	
07	9	120	2	64	63	62	93	00	0	10	1	0	FH	70	69	69	97	19	6	9	140	6	H	71	69	68	90	18	3	
10	10	120	2	71	68	64	80	00	0	5	UNL	2	H	79	74	72	79	23	4	10	120	7	H	76	71	68	76	19	6	
13	2	UNL	4	84	73	68	59	24	5	5	UNL	5	H	88	75	69	53	18	9	10	90	6	H	78	72	69	74	21	7	
16	4	UNL	6	87	71	63	45	29	4	10	UNL	5	H	88	76	71	57	17	7	9	100	6	H	84	75	71	65	21	7	
19	3	UNL	7	74	70	68	82	00	0	6	280	5	H	77	73	71	68	16	4	10	60	6	TH	78	74	72	82	36	14	
22	0	UNL	6	70	69	68	93	19	3	10	60	5	H	77	74	72	85	16	7	0	UNL	5	H	68	67	67	97	00	0	
DAY 19																														
01	0	UNL	4	66	65	64	93	00	0	10	30	12	DAY 20	68	62	58	71	02	10	10	9	4	DAY 21	60	58	57	90	01	7	
04	10	0	0	67	67	67	100	29	3	10	40	12		64	59	56	75	36	10	10	4	1	H	60	59	58	93	36	9	
07	3	UNL	3	68	67	67	97	32	3	10	40	12		61	57	54	78	01	7	10	7	3	H	60	59	58	93	36	12	
10	0	UNL	3	79	71	65	87	32	10	10	20	6		63	58	53	78	23	9	10	5	1	H	60	60	60	97	36	10	
13	2	UNL	8	84	71	65	32	32	12	10	18	8		65	60	57	75	36	7	10	7	2	H	64	62	61	90	02	9	
16	2	UNL	8	82	71	65	36	36	8	10	18	8		63	59	57	81	02	6	10	3	1	H	64	63	62	93	36	9	
19	0	UNL	8	74	68	64	71	39	7	10	25	3	H	61	59	57	87	02	9	10	2	0	12	LF	62	61	60	93	35	8
22	0	UNL	8	70	64	61	73	02	9	10	11	5	H	60	58	57	90	02	12	10	2	0	12	LF	61	60	60	97	35	7
DAY 22																														
01	10	3	1	61	60	60	97	34	5	4	UNL	8	DAY 23	62	56	51	67	03	6	8	250	8	DAY 24	57	56	55	93	15	4	
04	10	3	1	62	60	60	97	35																						