A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

LOCAL CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
BYRD FIELD
JULY 1970

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

Date	Temperature (°F) Maximum	Minimum	Average	Departure from normal	Average dew point	Degree days (Base 65°) Heating	Cooling	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 Water equivalent (In.)	Snow, ice pellets (In.)	Avg. station pressure (In.) Elev. 177 feet m.s.l.	Wind Resultant direction	Resultant speed (m.p.h.)	Average speed (m.p.h.)	Fastest mile Speed (m.p.h.)	Direction	Sunshine Hours and tenths	Percent of possible	Sky cover (Tenths) Sunrise to sunset	Midnight to midnight	Date
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	95	72	84*	6	66	0	19	8	0	0	0	29.81	01	5.0	7.6	13	NW	12.9	88	7	6	1
2	93	71	82	4	71	0	17	1 3 8	0	.66	0	29.76	16	3.9	7.1	28	N	3.9	26	10	9	2
3	94	71	83	5	75	0	18	2 8	0	0	0	29.71	12	3.7	5.5	9	SE	9.0	61	6	7	3
4	96*	70	83	5	73	0	18	1 3 8	0	1.29	0	29.58	21	8.3	8.8	27	W	9.2	62	5	7	4
5	80	67	74	-4	65	0	9	1 8	0	.07	0	29.68	04	1.7	4.6	9	N	2.0	14	9	9	5
6	84	62	73	-5	60	0	8	8	0	0	0	29.81	01	4.7	5.2	10	N	10.8	74	5	4	6
7	88	59*	74	-4	62	0	9	8	0	0	0	29.92	18	3.0	3.7	8	SW	10.8	74	3	3	7
8	89	63	76	-2	63	0	11	8	0	0	0	29.82	18	6.7	7.2	16	S	11.8	81	5	4	8
9	90	71	81	3	71	0	16	3 8	0	.05	0	29.73	17	12.2	12.5	18	S	5.5	38	8	9	9
10	78	69	74	-4	71	0	9	1 3 8	0	.53	0	29.74	18	5.9	7.9	19	SE	0.0	0	10	10	10
11	88	70	79	0	68	0	14	1 8	0	0	0	29.74	25	3.7	5.2	11	W	8.5	58	7	7	11
12	89	67	78	-1	66	0	13	1 8	0	0	0	29.84	34	4.8	6.8	14	N	11.9	82	3	5	12
13	89	68	79	0	64	0	14	1 8	0	0	0	29.94	02	3.2	5.2	11	N	11.3	77	5	5	13
14	84	67	76	-3	68	0	11	1 8	0	.32	0	29.98	15	7.1	7.6	12	SE	3.9	27	10	9	14
15	92	71	82	3	73	0	17	1 8	0	0	0	29.85	19	8.8	8.9	14	SW	11.6	80	3	4	15
16	93	69	81	2	68	0	16	8	0	0	0	29.70	26	5.1	8.8	14	NW	10.3	71	6	5	16
17	86	62	74	-5	59	0	9		0	0	0	29.83	02	3.4	4.8	9	NE	14.5	100	2	2	17
18	91	61	76	-3	62	0	11	1 8	0	0	0	29.85	21	4.0	4.6	10	SW	14.5	100	3	2	18
19	91	66	79	1	65	0	14	1 8	0	0	0	29.85	17	5.8	6.9	12	SW	12.6	87	2	1	19
20	93	68	81	3	70	0	16	3 8	0	.57	0	29.76	18	8.6	9.1	27	SW	7.0	48	7	7	20
21	73	60	67*	-11	61	0	2	1 8	0	.11	0	29.94	03	5.8	6.3	13	NE	0.0	0	10	10	21
22	79	61	70	-8	65	0	5	1 8	0	T	0	30.05	02	6.4	7.5	10	NE	1.5	10	10	10	22
23	82	70	76	-2	72	0	11	1 8	0	.84	0	30.07	10	5.9	6.8	16	SE	2.1	15	10	10	23
24	89	73	81	3	73	0	16	2	0	0	0	30.07	34	2.2	3.7	7	NE	4.3	30	9	9	24
25	90	70	80	2	74	0	15	1 8	0	0	0	29.98	02	2.5	3.9	6	NE	10.4	72	6	6	25
26	90	73	82	4	72	0	17	1 8	0	0	0	29.91	36	1.8	3.9	8	NW	8.6	61	6	6	26
27	91	70	81	3	71	0	16	1 3 8	0	0	0	29.89	08	1.5	2.2	12	SE	5.9	42	8	8	27
28	92	71	82	4	73	0	17	1 8	0	0	0	29.90	09	2.1	3.7	5	NE	6.8	48	5	6	28
29	93	73	83	5	74	0	18	1 3 8	0	.04	0	29.84	15	1.7	3.9	19	NW	6.6	47	6	7	29
30	90	71	81	3	73	0	16	1 3 8	0	.01	0	29.74	20	2.8	4.8	9	NW	5.1	36	9	9	30
31	90	72	81	3	75	0	16	1 3 8	0	.25	0	29.68	19	5.2	5.6	8	W	6.5	46	9	8	31
	Sum 2742	Sum 2108				Total 0	Total 418	Number of days		Total 4.74	Total 0	For the month: 29.84	17	1.5	6.1	28	N	Total 239.8	% for month	Sum 204	Sum 204	
	Avg. 88.5	Avg. 68.0	Avg. 78.3	Dep. 0.2	Avg. 68	Dep. 0	Dep.	Precipitation ≥ .01 inch 12		Dep. -0.87						Date: 02		Possible 448.3	53	Avg. 6.6	Avg. 6.6	

Number of days				Season to date Total	Total
Maximum Temp. ≥ 90° ‡	Minimum Temp. ≥ 32°	≤ 32°	≤ 0°	Dep.	Dep.
17	0	0	0	0	

Snow, ice pellets ≥ 1.0 inch	0
Thunderstorms	9
Heavy fog X	2
Clear 6	Partly cloudy 13
	Cloudy 12

Greatest in 24 hours and dates		
Precipitation		Snow, ice pellets
1.35	4- 5	0

Greatest depth on ground of snow, ice pellets or ice and date
0

HOURLY PRECIPITATION (Water equivalent in inches)

Date	A. M. Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	P. M. Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	Date
1																									1
2																.51	.15			T					2
3																									3
4																	T	1.18	T	.03		T	.02	.06	4
5		.01				T	.01	.02	.01	.01	T												.01	T	5
6																									6
7																									7
8																									8
9														.03	.01	.01	T	T	T						9
10	.09						T	.02	.11	.01	.09	.17	T	.04	T										10
11																									11
12																									12
13																									13
14								.08	.24	T															14
15																									15
16																									16
17																									17
18																									18
19																									19
20													.05	.01	.50	.01									20
21					T	T						T	T				.04	.06	.01	T	T	T	T	T	21
22	T																								22
23	T	T		T	T	T	.01	T	.03	.01	.07	.24			.18	.05	.06	.12	.07	T	T				23
24																									24
25																									25
26																									26
27																									27
28																									28
29																								.04	29
30	T	.01	T						.13	.12															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 ¼ 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 Environmental Science Services 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 Sky cover (In tenths)	Station pressure (In.)	Dry bulb (°F)	Wet bulb (°F)	Rel. hum. %	Dew point (°F)	Wind speed (m.p.h.)	Resultant wind Direction	Speed (m.p.h.)
01	6	29.84	72	69	88	68	4.5	20	1.5
04	7	29.83	70	68	90	67	4.2	19	1.5
07	7	29.86	73	70	86	68	6.1	25	.7
10	6	29.87	81	73	69	69	7.4	24	.7
13	7	29.84	85	74	59	69	7.9	17	1.5
16	6	29.81	85	74	59	68	7.6	15	1.9
19	8	29.81	79	72	72	69	6.1	13	3.1
22	7	29.84	74	70	84	69	5.2	16	3.4

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER (Tenths)	CEILING (Hnds. of ft.)	VISIBILITY WHOLE MILES	VISIBILITY 16ths MILE	WEATHER	DRY BULB (°F)	WET BULB (°F)	REL. HUM. (%)	DEW PT. (°F)	WIND DIR.	WIND SPEED (Knots)
DAY 01											
01	2	UNL	3		H	80	73	69	69	29	6
04	2	UNL	3		H	75	70	79	68	34	6
07	8	UNL	3		H	77	71	74	68	01	6
10	8	UNL	4		H	85	72	53	66	36	10
13	2	UNL	4		H	91	73	42	65	01	10
16	8	UNL	8			92	72	36	61	02	6
19	8	UNL	7			86	70	43	61	11	5
22	4	UNL	5		H	74	70	82	68	14	4
DAY 02											
01	4	UNL	4		H	71	69	90	68	17	3
04	10	250	3		GFH	71	70	93	69	18	4
07	10	60	2		GFH	75	72	87	71	18	6
10	10	250	2		H	80	74	77	72	17	10
13	8	90	2		H	90	79	61	75	21	8
16	10	10	0	8	TRW	75	72	85	70	09	8
19	10	30	5		H	76	74	90	73	01	7
22	10	30	5		H	75	74	94	73	18	3
DAY 03											
01	9	70	0	12	GFH	74	73	97	73	08	3
04	10	70	1		GFH	72	72	100	72	00	0
07	10	100	1	8	FH	73	73	100	73	03	3
10	7	15	2		H	85	79	77	77	06	6
13	5	UNL	2		H	90	80	64	76	11	8
16	8	UNL	2	8	H	91	79	58	74	17	6
19	8	UNL	3		H	85	79	77	77	11	5
22	10	250	3		H	80	78	91	77	18	7
DAY 04											
01	3	UNL	4		H	79	77	94	77	20	7
04	10	9	3		H	79	77	94	77	19	7
07	8	250	1	8	GFH	80	78	91	77	25	9
10	2	UNL	5		H	90	77	56	72	23	6
13	2	UNL	7			95	78	46	71	21	9
16	3	UNL	8			96	78	44	71	20	9
19	10	30	4		RWH	76	71	76	68	21	7
22	10	30	4		RWH	73	69	82	67	21	7
DAY 05											
01	10	27	6		H	71	70	93	69	20	3
04	10	250	2		GFH	70	69	97	69	19	3
07	10	40	2		RWF	71	70	93	69	01	8
10	10	40	5		RWH	70	68	90	67	02	6
13	10	50	7			70	65	76	62	02	4
16	10	100	8			77	66	56	60	05	3
19	4	UNL	8			74	68	71	64	15	5
22	5	UNL	8			68	65	84	63	00	0
DAY 06											
01	6	60	7			68	64	81	62	35	5
04	5	UNL	7			65	60	75	57	33	3
07	9	80	5		H	68	60	63	55	34	6
10	4	UNL	7			77	67	58	61	02	7
13	6	35	10			80	67	49	59	03	6
16	3	UNL	10			84	67	40	57	36	5
19	3	UNL	10			79	69	58	63	05	4
22	2	UNL	12			68	65	84	63	00	0
DAY 07											
01	0	UNL	8			63	61	90	60	00	0
04	0	UNL	8			61	60	93	59	00	0
07	0	UNL	4		H	71	67	81	65	00	0
10	2	UNL	6		H	83	69	49	62	23	5
13	4	UNL	7			86	70	43	61	15	4
16	7	100	7			86	69	40	59	21	7
19	8	250	7			77	69	64	64	15	5
22	4	UNL	5		H	68	65	84	63	14	5
DAY 08											
01	0	UNL	7			68	63	76	60	19	6
04	0	UNL	8			64	62	87	60	17	3
07	0	UNL	5		H	70	66	81	64	21	4
10	9	UNL	5		H	83	71	55	65	20	7
13	6	UNL	5		H	88	72	45	64	21	7
16	4	UNL	5		H	87	73	50	66	16	10
19	8	250	5		H	80	70	60	65	16	5
22	7	250	5		H	76	68	64	63	16	8
DAY 09											
01	7	UNL	7			73	67	74	64	18	11
04	10	100	7			72	68	82	66	18	9
07	6	UNL	5		H	76	72	82	70	19	12
10	8	UNL	5		H	83	75	70	72	18	11
13	8	25	5		H	90	78	57	73	18	9
16	9	20	5		H	79	75	85	74	16	14
19	10	20	5		H	78	74	82	72	15	10
22	10	22	6		H	78	74	85	73	17	11
DAY 10											
01	8	10	3		F	74	73	94	72	20	6
04	10	14	3		F	74	73	94	72	16	7
07	10	10	2		TRW	76	74	90	73	18	10
10	10	10	2		TRW	76	75	94	74	29	7
13	10	40	5		RW	70	68	90	67	19	7
16	10	40	4		F	74	73	94	72	18	5
19	10	60	5		H	73	72	93	71	12	6
22	10	80	5		H	71	70	97	70	16	7
DAY 11											
01	10	25	7			71	70	93	69	22	6
04	10	10	7			71	70	93	69	22	5
07	10	6	4		F	72	70	90	69	26	3
10	7	80	3		H	79	73	74	70	25	4
13	4	UNL	3		H	86	73	51	66	01	4
16	4	UNL	3		H	87	73	52	67	24	6
19	5	UNL	3		H	83	72	59	67	24	4
22	5	UNL	5		H	75	71	82	69	32	4
DAY 12											
01	3	UNL	5		H	72	69	84	67	33	5
04	7	UNL	5		H	70	66	81	64	24	3
07	2	UNL	3		H	74	68	71	64	32	8
10	0	UNL	4		H	81	70	58	65	33	10
13	4	UNL	4		H	86	72	50	65	35	6
16	4	UNL	6		H	88	73	48	66	36	8
19	10	UNL	6		H	83	73	63	69	07	4
22	7	UNL	7			74	71	87	70	21	3
DAY 13											
01	0	UNL	5		H	71	69	90	68	00	0
04	3	UNL	5		GFH	70	68	90	67	33	4
07	3	UNL	3		H	72	67	79	65	02	7
10	3	UNL	3		H	81	70	56	64	01	4
13	5	UNL	4		H	87	70	42	61	32	6
16	9	UNL	5		H	87	70	42	61	05	7
19	6	UNL	5		H	80	70	58	64	09	4
22	5	UNL	7			70	67	84	65	14	4
DAY 14											
01	7	70	7			70	66	79	63	16	2
04	10	250	7			69	65	81	63	11	2
07	10	40	3		H	70	67	87	66	11	4
10	10	100	3		H	70	66	81	64	16	10
13	10	65	3		H	82	74	69	71	16	9
16	8	60	3		H	83	76	72	73	15	10
19	10	40	2	8	H	78	74	85	73	11	7
22	9	100	4		H	75	72	85	70	16	9
DAY 15											
01	10	100	5		H	69	69	100	69	18	4
04	10	100	5		H	72	71	93	70	20	5
07	3	UNL	2		GFH	75	72	87	71	20	10
10	0	UNL	3		H	84	77	72	74	20	9
13	3	UNL	3		H	90	80	64	76	20	10
16	4	UNL	3		H	90	80	66	77	18	10
19	3	UNL	3		H	86	77	68	74	20	9
22	2	UNL	5		H	80	76	82	74	19	5
DAY 16											
01	7	250	5		H	79	75	85	74	21	8
04	8	250	7			75	72	87	71	20	7
07	5	UNL	5		H	75	73	90	72	20	6
10	8	100	5		H	85	77	67	73	21	5
13	7	40	6		H	92	77	49	70	29	10
16	8	250	7			91	73	42	65	28	9
19	4	UNL	7			85	71	48	63	32	9
22	0	UNL	12			75	65	58	59	36	7
DAY 17											
01	7	UNL	12			67	63	78	60	35	5
04	0	UNL	12			64	60	81	58	34	5
07	2	UNL	10			69	63	71	59	02	6
10	1	UNL	15			77	66	54	59	03	4
13	2	UNL	15			82	67	44	58	36	3
16	4	UNL	15			85	69	41	59	36	3
19	2	UNL	15			81	67	46	58	10	4
22	0	UNL	12			66	63	84	61	12	3
DAY 18											
01	0	UNL	12			66	63	87	62	20	3
04	0	UNL	12			62	60	90	59	16	4
07	5	UNL	5		H	69	65	81	63	16	3
10	5	UNL	7			83	69	49	62	22	7
13	3	UNL	10			88	70	40	61	23	6
16	3	UNL	10			90	71	38	61	25	4
19	2	UNL	10			83	69	49	62	21	5
22	3	UNL	10			74	68	71	64	00	0
DAY 19											
01	0	UNL	12			70	66	81	64	18	3
04	0	UNL	12			68	65	87	64	19	3
07	3	UNL	5		GF	71	69	90	68	20	5
10	0	UNL	6		H	85	74	59	69	22	5
13	4	UNL	7			91	73	42	65	20	10
16	1	UNL	7			90	72	41	63	13	10
19	0	UNL	7			82	71	56	65	14	5
22	0	UNL	7			75	68	69	64	14	7
DAY 20											
01	8	100	7			71	68	87	67	18	4
04	6	100	7			69	67	90	66	14	3
07	2	UNL	5		H	74	71	84	69	18	6
10	6	UNL	6		H	87	76	61	72	21	8
13	10	250	7			87	78	65	74	20	16
16	10	80	5		H	72	71	93	70	17	9
19	10	250	7			74	71	87	70	16	8
22	10	80	7			72	70	90	69	19	9
DAY 21											
01	8	100	7			72	70	90	69	06	2
04	10	2	5		F	71	70	97	70	07	4
07	10	25	7			69	63	73	60	01	8
10	10	20	10			67	60	66	55	02	8
13	10	28	7			66	61	73	57	05	7
16	10	40	7			68	62	71	58	04	6
19	10	35	7			61	59	87	57	06	4
22	10	35	7		R	61	60	93	59	35	5
DAY 22											
01	10	25	7			61	60	97	60	36	9
04	10	40	7			62	61	93	60	34	5
07	10	24	3		F	63	62	93	61	35	6
10	10	23	5		F	69	66	87	65	03	8
13	10	18	6		H	74	69	79	67	06	7
16	10	25	6		H	76	71	76	68	02	8
19	10	26	5		H	68	68	100	68	07	5
22	10	18	5		H	72	69	87	68	07	4
DAY 23											
01	10	25	5		RH	71	69	90	68	04	3
04	10	5	5		LF	71	70	93	69	07	6
07	10	3	0	12	RWF	74	73	94	72	09	5
10	10	15	4		F	78	76	91	75	11	9
13	9	8	7			81	78	88	77	08	10
16	9	20	4		RW	74	72	90	71	15	5
19	10	20	2	8	RW	74	73	97	73	10	4
22	10	6	6		F	74	73	94	72	14	5
DAY 24											
01	10	1	1		F	74	73	94	72	00	0
04	10	3	1	2	F	74	73	94	72	27	4
07	10	5	2	8	F	74	73	94	72	25	4
10	9	15	7			80	75	79	73	32	4
13	9	20	7			84	77	72	74	01	5
16	9	40	7			86	77	65	73	01	6
19	10	250	7			82	77	79	75	06	3
22	10	250	7			76	75	94	74	00	0
DAY 25											
01	8	250	7			75	74	94	73	03	3
04	7	250	5		GF	72	71	93	70	00	0
07	7	50	2		GF	75	73	90	72	01	3
10	6	22	3		H	83	77	74	74	34	4
13	10	30	3		H	87	78	68	75	06	3
16	6	40	3		H	90	79	59	74	34	7
19	8	300	2		H	85	78	72	75	07	4
22	3	UNL	5		H	77	76	94	75	14	3
DAY 26											
01	6	250	5		GF	75	74	94	73	18	3
04	8	120	4		GF	75	74	94	73	00	0
07	10	120	1	8	GF	75	73	90	72	36	4
10	7	120	3		H	85	75	63	71	02	4
13	8	250	4		H	88	76	55	70	33	6
16	0	UNL	3		H	90	75	50	69	32	4
19	5	UNL	3		H	84	76	70	73	05	3
22	5	UNL	4		H	75	73	90	72	14	3
DAY 27											
01	6	250	4		GF	74	73	96	72	00	0
04	4	UNL	4		GF	72	71	97	71	00	0
07	10	120	1	8	GF	74	73	97	73	00	0
10	8	100	3		H	85	75	63	71	05	2
13	6	40	3		H	88	76	55	70	12	4
16	9	250	2	8	H	89	76	55	71	08	3
19	10	250	2	8	TH	80	72	67	68	36	3
22	10	250	3		H	75	70	79	68	12	3
DAY 28											
01	5	UNL	5		H	74	72	90	71	00	0
04	8	250	4		H	72	71	97	71	00	0
07	2	UNL	1		GF	75	74	94	73	31	4
10	3	UNL	2	8	H	86	77	65	73	03	4
13	7	40	2	8	H	90	78	57	73	09	4
16	4	UNL	2	8	H	90	77	54	71	09	6
19	7	250	2	8	H	82	77	79	75	14	5
22	10	250	5		H	78	75	88	74	12	3
DAY 29											
01	3	UNL	5		H	75	73	90	72	15	4
04	8	250	4		H	74	72	90	71	13	3
07	9	100	2		GFH	77	75	91	74	00	0
10	8	100	2	8	H	84	78	74	75	35	4
13	6	40	2	8	H	91	78	56	73	36	3
16	5	UNL	2	8	H	92	78	54	73	16	3
19	8	250	4		H	83	77	77	75	14	5
22	10	250	4		H	78	76	91	75	20	5
DAY 30											
01	10	80	6		RW	77	75	91	74	33	3
04	5	UNL	7			72	71	93	70	14	5
07	8	100	3		GFH	74	72	90	71	06	2
10	10	70	3		H	80	74	77	72	23	6
13	9	100	3		H	85	77	67	73	19	5
16	8	100	3		H	88	79	65	75	24	4
19	10	250	2	8	H	81	77	85	76	16	4
22	10	250	5		H	79	76	88	75	21	4
DAY 31											
01	8	250	12			75	72	87	71	18	3
04	8	250	7			75	72	87	71	24	3
07	10	120	3		H	74	73	94	72	20	6
10	7	250	2		GFH	81	77	85	76	21	6
13	10	150	2		H	86	80	77	78	17	7
16	5	UNL	3		H	90	82	70	79	18	5
19	9	100	3		H	84	80	82	78	17	6
22	8	100	8			77	73	82	71	21	3

NOTES

CEILING COLUMN—

UNL indicates an unlimited ceiling.

WEATHER COLUMN—

- * Tornado
- T Thunderstorm
- Q Squall
- R Rain
- RW Rain showers
- ZR Freezing rain
- L Drizzle
- ZL Freezing drizzle
- S Snow
- SP Snow pellets
- IC Ice crystals
- SW Snow showers
- SG Snow grains
- IP Ice pellets
- A Hail
- F Fog
- IF Ice fog
- GF Ground fog
- BD Blowing dust
- BN Blowing sand
- BS Blowing snow
- BY Blowing spray
- K Smoke
- H Haze
- D Dust

WIND COLUMNS—

Directions are those from which the wind blows, indicated in tens of degrees from true North; i. e., 09 for East, 18 for South, 27 for West. Entry of 00 in the direction column indicates calm.

Speed is expressed in knots; multiply by 1.15 to convert to miles per hour.

ADDITIONAL DATA

Other observational data contained in records on file can be furnished at cost via microfilm, microfiche, or paper copies of the original records. Inquiries as to availability and costs should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

STATION: RICHMOND VA

YEAR & MONTH: 70 07