LOCAL CLIMATOLOGICAL DATA

U. S. DEPARTMENT OF COMMERCE - MAURICE H. STANS, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION -- ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
BYRD FIELD
AUGUST 1969

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 shown by code 1-9 on dates of occurrence (Fog, Heavy Fog, Thunderstorm, Sleet, Hail, Glaze, Duststorm, Smoke, Haze, Blowing Snow)	Snow, Sleet, or Ice on ground at 07AM (In.)	Precipitation Water equivalent (In.)	Snow, sleet (In.)	Avg. station pressure (In.) Elev. 164 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	87	70	79	1	71	0	14	1 3 8	0	1.65	0	29.87	19	6.5	6.9	13	N	3.4	24	9	9	1
2	88	72	80	2	73	0	15	1	0	.05	0	29.84	21	5.9	6.5	14	SW	6.7	48	8	8	2
3	82	71	77	-1	72	0	12	1 3 8	0	.94	0	29.82	20	3.9	5.0	16	S	0.6	4	10	9	3
4	81	71	76	-2	71	0	11	1 8	0	.97	0	29.79	19	2.3	5.2	8	SW	1.6	12	10	10	4
5	76	67	72	-6	68	0	7	1 8	0	1.03	0	29.81	11	.7	4.8	10	E	0.9	6	9	8	5
6	86	65	76	-2	67	0	11	2 8	0	0	0	29.83	33	3.1	5.2	9	N	11.8	85	4	4	6
7	88	65	77	0	67	0	12	1 8	0	0	0	29.86	22	3.9	4.5	9	S	13.5	97	1	2	7
8	90	69	80	3	70	0	15	1 8	0	0	0	29.74	21	7.1	7.3	12	SW	8.3	60	2	4	8
9	90	63	77	0	71	0	12	3 5 8	0	1.03	0	29.66	22	5.9	6.9	27	NW	7.7	55	5	4	9
10	84	67	76	-1	68	0	11	1 3 8	0	.44	0	29.62	18	1.2	6.6	15	SW	3.3	24	9	9	10
11	82	65	74	-3	66	0	9	1 8	0	0	0	29.75	02	4.7	5.5	9	NE	10.5	76	7	6	11
12	84	62	73	-4	65	0	8	1 8	0	0	0	29.85	08	3.6	5.2	12	SE	9.8	71	5	4	12
13	83	63	73	-4	66	0	8	1 8	0	0	0	29.93	05	6.3	6.9	12	E	7.8	57	7	6	13
14	90	71	81	4	71	0	16	2 8	0	.51	0	29.93	14	2.1	4.6	18	SE	6.3	46	9	8	14
15	90	73	82	5	74	0	17	2 8	0	0	0	29.94	18	4.3	4.9	14	SE	7.1	52	8	8	15
16	88	73	81	4	73	0	16	1	0	0	0	29.87	19	5.8	6.2	12	SW	7.7	57	9	8	16
17	91*	73	82	6	74	0	17	1	0	0	0	29.78	21	7.0	7.5	13	SW	8.0	59	8	8	17
18	89	74	82	6	74	0	17		0	0	0	29.81	23	6.2	7.1	11	SW	1.7	13	9	10	18
19	88	72	80	4	74	0	15	8	0	.01	0	29.74	23	5.6	6.8	14	W	4.0	30	9	7	19
20	78	62	70	-6	70	0	5	1 3 8	0	2.68	0	29.62	36	5.1	9.6	21	NE	3.3	25	8	7	20
21	78	57	68	-8	57	0	3		0	0	0	29.83	01	6.9	7.2	13	N	11.8	88	2	2	21
22	81	58	70	-6	59	0	5		0	0	0	29.93	02	4.7	5.3	8	E	11.9	89	3	2	22
23	82	55	69	-7	59	0	4	1 8	0	0	0	29.98	05	.8	2.7	6	NE	13.3	100	0	0	23
24	87	59	73	-2	63	0	8	1 8	0	0	0	29.93	05	1.0	2.0	5	NE	13.0	98	1	1	24
25	90	63	77	2	66	0	12	1 8	0	0	0	29.81	26	3.2	3.7	8	SW	13.3	100	0	0	25
26	89	63	76	1	67	0	11	1 8	0	0	0	29.76	36	6.3	6.5	12	NE	8.2	62	2	2	26
27	79	57	68	-7	56	0	3		0	0	0	30.00	03	5.8	6.3	13	NE	13.2	100	1	1	27
28	81	54*	68	-7	58	0	3	1 8	0	0	0	30.11	15	3.3	5.5	6	SW	12.9	98	4	2	28
29	84	56	70	-4	61	0	5	1 8	0	0	0	30.07	15	3.1	3.3	6	SE	13.1	100	1	1	29
30	88	59	74	0	65	0	9	2 8	0	0	0	30.05	14	1.3	2.3	7	SW	12.2	93	0	0	30
31	88	62	75	1	65	0	10		0	0	0	30.07	20	3.7	4.0	10	SE	13.0	100	1	1	31
	Sum 2642	Sum 2011				Total 0	Total 321	Number of days		Total 9.31	Total 0	For the month: 29.86	20	1.0	5.5	27	NW	Total 259.9	% for month	Sum 161	Sum 151	
	Avg. 85.2	Avg. 64.9	Avg. 75.1	Dep. -0.9	Avg. 67	Dep. 0	Dep.	Precipitation ≥ .01 inch 10		Dep. 3.77						Date: 09		Possible 420.8	62	Avg. 5.2	Avg. 4.9	
	Number of days					Season to date Total 0	Total 1177	Snow, sleet ≥ 1.0 inch 0		Greatest in 24 hours and dates						Greatest depth on ground of snow, sleet or ice and date						
	Maximum Temp. ≥ 32° 0	Maximum Temp. ≥ 90° ‡ 6	Minimum Temp. ≤ 32° 0	Minimum Temp. ≤ 0° 0		Dep. 0	Dep.	Thunderstorms 5		Precipitation 2.69	19-20	Snow, Sleet 0				0						
								Heavy fog X 4														

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														1.41	.24	T									1
2																.03				.02	T				2
3						T	T				.02	T	T	.01				T	T	.01	.37	.52	.01	T	3
4								T	T	.03	.49	.18					.08	.17	T	.01	T		T	.01	4
5	T	.01	.02	.06	.17	.26	.13	.23	.13	.01	.01	T													5
6																									6
7																									7
8																									8
9																.03	1.00								9
10					.11	.05	.15	T	.10	T					.03										10
11																									11
12																									12
13																									13
14																.05	.02	.22	.21	.01	T				14
15																									15
16																									16
17																									17
18																									18
19												T	T	T	T								T	.01	19
20	.02	.02	.04	.09	.02	.24	1.09	1.15	.01	T	T	T	T												20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
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 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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William H. Haggard

Director, National Weather Records 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	3	29.85	68	67	93	66	4.4	21	2.0
04	5	29.85	67	66	93	65	4.5	24	1.5
07	5	29.88	69	67	91	66	5.0	28	1.0
10	5	29.89	78	71	73	68	7.3	29	1.0
13	6	29.86	82	72	63	68	7.5	27	.3
16	5	29.84	82	72	63	68	7.0	18	1.1
19	5	29.84	75	71	82	69	5.2	15	2.7
22	4	29.86	70	68	90	67	3.4	18	1.5

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	0	UNL	4		GFH	71	70	93	69	19	5
04	10	9	2	4	FH	71	70	97	70	18	5
07	9	9	4		F	74	73	94	72	18	4
10	10	16	5		H	78	74	82	72	20	8
13	9	28	7			84	76	70	73	23	6
16	9	CIR	10			76	73	87	72	16	10
19	10	8	4		H	73	72	93	71	18	5
22	10	17	8			73	72	93	71	18	5
DAY 02											
01	3	UNL	7			73	72	93	71	22	5
04	10	12	7			72	71	93	70	22	6
07	8	22	7			75	72	87	71	21	5
10	7	15	7			81	75	77	73	20	6
13	9	15	7			86	77	68	74	24	8
16	10	CIR	7			82	78	82	76	16	4
19	8	CIR	10			79	75	85	74	18	7
22	8	UNL	8			76	75	94	74	21	4
DAY 03											
01	3	UNL	5		GF	74	73	94	72	18	3
04	10	100	5		GF	72	71	93	70	18	3
07	10	6	3		F	72	71	93	70	23	5
10	10	8	3		H	75	72	87	71	26	6
13	10	16	4		RWH	78	74	85	73	26	4
16	10	25	10			80	75	79	73	17	3
19	10	60	10		RW	74	73	94	72	16	5
22	10	40	4		TRWF	73	72	97	72	18	6
DAY 04											
01	8	7	7			73	72	93	71	20	6
04	10	8	5		F	71	70	93	69	23	6
07	10	6	5		F	72	70	90	69	20	4
10	10	7	3		RWFH	73	71	90	70	10	4
13	10	80	6		H	76	73	87	72	08	6
16	10	35	8			78	73	79	71	22	3
19	10	30	2		RWF	74	73	94	72	16	3
22	10	30	2		F	73	72	93	71	30	4
DAY 05											
01	10	7	2		RF	72	71	97	71	25	5
04	10	100	2		RF	71	70	93	69	32	4
07	10	40	2		RWF	69	68	93	67	06	6
10	10	4	2		RF	68	67	93	66	24	5
13	8	8				74	70	82	68	11	4
16	10	18	10			76	71	76	68	04	2
19	4	UNL	10			72	69	87	68	12	5
22	2	UNL	10			68	67	93	66	12	2
DAY 06											
01	5	UNL	7			67	66	97	66	33	4
04	7	UNL	2		F	65	64	97	64	24	3
07	3	UNL	1		GF	67	67	100	67	32	6
10	4	UNL	6		H	78	71	71	68	34	8
13	7	CIR	10			82	72	61	67	36	7
16	5	UNL	10			82	72	61	67	06	4
19	1	UNL	10			77	73	82	71	21	4
22	0	UNL	8			71	69	90	68	00	0
DAY 07											
01	0	UNL	7			67	66	97	66	19	3
04	0	UNL	7			66	65	93	64	24	4
07	0	UNL	4		GF	70	68	90	67	00	0
10	0	UNL	4		H	83	74	65	70	27	6
13	1	UNL	4		H	86	72	50	65	23	5
16	1	UNL	4		H	86	72	50	65	22	6
19	7	UNL	4		H	77	73	82	71	19	4
22	8	CIR	5		H	72	70	90	69	19	3
DAY 08											
01	8	UNL	4		GFH	71	69	90	68	19	4
04	5	UNL	4		GFH	70	69	93	68	23	4
07	9	UNL	3		GF	72	70	90	69	20	7
10	0	UNL	3		H	82	74	67	70	22	7
13	0	UNL	3		H	88	76	57	71	23	10
16	10	100	3		H	88	77	59	72	22	6
19	4	UNL	3		H	81	75	77	73	20	8
22	8	UNL	3		H	79	74	79	72	22	5
DAY 09											
01	2	UNL	7			76	71	76	68	25	7
04	2	UNL	7			71	68	84	66	24	3
07	0	UNL	5		H	72	69	87	68	19	5
10	1	UNL	4		H	84	76	70	73	20	6
13	8	CIR	4		H	89	76	55	71	25	6
16	10	40	2		TRWH	83	77	77	75	25	5
19	3	UNL	7			74	72	90	71	16	6
22	2	UNL	7			78	75	88	74	20	10
DAY 10											
01	4	UNL	7			79	75	82	73	20	11
04	10	28	15			72	67	79	65	34	3
07	10	70	7		RW	67	66	93	65	18	5
10	8	CIR	6		GF	71	69	90	68	19	6
13	9	20	10			80	74	77	72	03	6
16	8	UNL	10			79	71	67	67	01	10
19	10	CIR	10			74	71	84	69	16	5
22	8	UNL	6		H	71	69	90	68	00	0
DAY 11											
01	7	UNL	5		GFH	68	67	97	67	00	0
04	10	CIR	7			68	67	97	67	35	3
07	10	CIR	10			69	63	87	62	02	6
10	10	CIR	6		H	75	69	74	66	02	7
13	9	CIR	6		H	78	71	71	68	03	7
16	3	UNL	7			80	71	62	66	02	6
19	0	UNL	7			74	69	76	66	04	4
22	0	UNL	10			67	65	90	64	14	3
DAY 12											
01	0	UNL	12			64	63	93	62	00	0
04	0	UNL	7			63	62	93	61	35	4
07	0	UNL	4		GF	66	65	93	64	02	3
10	2	UNL	6		H	77	70	71	67	05	6
13	6	CIR	7			80	71	62	66	12	7
16	6	CIR	7			79	70	65	66	10	9
19	9	CIR	7			73	68	79	66	12	4
22	3	UNL	7			67	65	90	64	02	3
DAY 13											
01	0	UNL	7			64	63	93	62	36	5
04	0	UNL	7			64	63	93	62	02	5
07	4	UNL	3		GF	67	65	90	64	03	5
10	8	100	5		H	76	71	79	69	07	5
13	8	CIR	6		H	79	71	67	67	06	8
16	7	80	8			79	71	67	67	07	9
19	9	CIR	8			75	70	79	68	07	6
22	10	CIR	7			73	70	84	68	06	5
DAY 14											
01	6	CIR	6		H	72	70	90	69	07	4
04	10	2	4		GFH	72	71	93	70	13	5
07	9	4	0	12	F	73	72	93	71	07	3
10	9	70	7		H	80	74	77	72	09	2
13	9	35	7			84	76	67	72	13	6
16	8	CIR	7		RW	80	76	82	74	25	9
19	8	CIR	7			74	73	94	72	13	3
22	8	6	7			73	72	93	71	00	0
DAY 15											
01	6	7	2		F	73	72	97	72	18	5
04	8	6	4		F	73	72	97	72	22	4
07	10	5	2		F	74	73	97	73	18	3
10	8	100	5		H	82	78	82	76	20	4
13	9	30	7			87	78	68	75	14	5
16	5	UNL	12			89	78	61	74	20	5
19	10	CIR	12			77	74	88	73	20	5
22	8	9	7			75	74	94	73	12	3
DAY 16											
01	0	UNL	8			74	73	97	73	18	4
04	10	50	4		GF	74	74	100	74	22	6
07	10	4	3		F	74	73	97	73	20	4
10	8	20	12			81	75	77	73	16	7
13	9	CIR	15			83	75	67	71	21	7
16	9	120	15			84	74	63	70	18	7
19	8	CIR	15			79	75	82	73	17	4
22	8	CIR	15			75	74	94	73	18	4
DAY 17											
01	8	6	8			74	73	94	72	17	4
04	7	6	5		F	74	73	97	73	19	6
07	10	3	2		F	74	73	97	73	23	5
10	8	CIR	12			84	78	77	76	24	8
13	8	CIR	15			88	79	65	75	23	10
16	8	CIR	12			87	78	68	75	20	8
19	8	CIR	12			82	77	79	75	20	5
22	5	UNL	12			79	75	85	74	22	6
DAY 18											
01	10	CIR	7			76	75	94	74	21	4
04	10	CIR	7			76	75	94	74	19	6
07	10	CIR	10			77	74	88	73	24	7
10	9	CIR	7			82	76	77	74	23	10
13	9	100	10			85	78	72	75	26	6
16	8	CIR	10			87	79	70	76	24	9
19	10	CIR	7			80	76	85	75	15	4
22	10	CIR	10			77	73	82	71	23	3
DAY 19											
01	9	CIR	10			73	72	93	71	21	6
04	6	CIR	10			73	71	90	70	23	4
07	6	UNL	7			76	74	90	73	23	6
10	10	CIR	7			83	77	77	75	24	10
13	10	180	7			85	77	70	74	25	9
16	10	180	8			83	77	77	75	25	5
19	10	CIR	7			79	77	91	76	16	3
22	10	CIR	6		H	77	76	94	75	13	4
DAY 20											
01	10	100	6		RWH	77	76	94	75	17	6
04	10	100	5		RGF	77	76	94	75	17	7
07	10	4	0	8	TRWF	76	75	94	74	31	10
10	10	10	7		RW	72	71	93	70	01	14
13	10	12	4		FH	72	69	87	68	36	12
16	2	UNL	6		H	76	70	74	67	04	7
19	1	UNL	7			72	67	79	65	36	5
22	4	UNL	7			66	63	87	62	36	6
DAY 21											
01	3	UNL	7			61	59	87	57	34	5
04	0	UNL	10			59	57	87	55	35	6
07	3	UNL	10			61	57	78	54	36	8
10	6	CIR	12			69	61	61	55	01	10
13	0	UNL	12			76	64	52	57	02	10
16	0	UNL	15			77	64	48	56	01	7
19	4	UNL	15			69	64	76	61	05	4
22	1	UNL	15			62	61	93	60	00	0
DAY 22											
01	1	UNL	12			59	58	93	57	35	3
04	1	UNL	12			59	58	93	57	35	4
07	7	CIR	12			61	59	87	57	04	4
10	1	UNL	10			74	65	60	59	06	8
13	3	UNL	12			79	67	52	60	01	8
16	3	UNL	15			80	66	47	58	34	6
19	0	UNL	15			70	65	76	62	03	4
22	0	UNL	15			63	61	90	60	00	0
DAY 23											
01	0	UNL	15			59	58	93	57	36	4
04	0	UNL	15			57	56	93	55	00	0
07	0	UNL	5		GFH	61	59	90	58	35	3
10	0	UNL	7			76	65	54	58	01	4
13	1	UNL	10			79	67	50	59	15	2
16	0	UNL	15			81	67	47	59	15	3
19	0	UNL	12			73	68	76	65	15	3
22	0	UNL	12			65	64	93	63	00	0
DAY 24											
01	0	UNL	10			62	61	93	60	00	0
04	0	UNL	8			60	59	97	59	00	0
07	0	UNL	4		GFH	66	63	84	61	18	3
10	0	UNL	8			80	70	58	64	01	3
13	2	UNL	8			84	70	49	63	36	3
16	2	UNL	10			85	71	49	64	07	5
19	0	UNL	12			76	71	76	68	00	0
22	0	UNL	12			68	67	93	66	00	0
DAY 25											
01	0	UNL	10			65	64	93	63	00	0
04	0	UNL	10			66	64	90	63	00	0
07	0	UNL	6		GF	69	66	87	65	30	2
10	0	UNL	6		H	82	72	61	67	28	6
13	0	UNL	6		H	86	74	57	69	21	6
16	0	UNL	10			89	74	48	67	29	6
19	0	UNL	10			80	73	69	69	26	6
22	0	UNL	7			70	69	93	68	00	0
DAY 26											
01	4	UNL	6		H	71	70	93	69	00	0
04	0	UNL	5		GFH	69	68	93	67	35	3
07	0	UNL	2		GFH	72	69	87	68	34	4
10	0	UNL	3		H	82	73	65	69	01	11
13	2	UNL	3		H	87	73	52	67	35	8
16	1	UNL	6		H	87	75	55	69	35	7
19	10	45	6		H	78	70	67	66	02	8
22	0	UNL	10			67	63	78	60	01	4
DAY 27											
01	0	UNL	15			61	59	87	57	36	6
04	0	UNL	15			59	57	87	55	01	5
07	0	UNL	12			60	56	78	53	02	7
10	0	UNL	12			71	62	57	55	04	8
13	0	UNL	15			76	63	47	54	03	8
16	1	UNL	15			78	63	42	53	07	7
19	2	UNL	15			67	63	78	60	07	3
22	0	UNL	15			59	58	93	57	00	0
DAY 28											
01	0	UNL	12			56	55	93	54	00	0
04	0	UNL	10			55	54	93	53	35	3
07	1	UNL	3		GFK	61	59	90	58	35	3
10	3	UNL	6		H	75	66	62	61	17	6
13	4	UNL	10			79	67	52	60	12	6
16	5	UNL	12			79	67	52	60	19	10
19	2	UNL	10			69	65	79	62	13	5
22	1	UNL	10			62	60	90	59	15	5
DAY 29											
01	0	UNL	7			60	59	93	58	15	3
04	1	UNL	10			57	56	96	56	15	2
07	3	UNL	5		GF	62	60	90	59	00	0
10	1	UNL	7			75	66	62	61	00	0
13	0	UNL	7			81	69	54	63	13	4
16	0	UNL	10			82	68	46	59	19	5
19	1	UNL	10			71	68	84	66	13	5
22	0	UNL	12			64	63	93	62	15	4
DAY 30											
01	0	UNL	7			63	62	97	62	14	3
04	0	UNL	3		GF	61	60	97	60	21	2
07	0	UNL	2		GF	64	63	97	63	00	0
10	0	UNL	10			76	69	71	66	35	3
13	0	UNL	12			85	73	55	67	12	2
16	0	UNL	10			85	73	57	68	00	0
19	1	UNL	8			75	70	79	68	15	3
22	0	UNL	10			69	66	87	65	15	3
DAY 31											
01	0	UNL	10			64	63	97	63	20	4
04	0	UNL	7			64	63	93	62	21	2
07	1	UNL	7			67	66	97	66	24	3
10	3	UNL	10			81	72	65	68	26	3
13	3	UNL	15			87	72	48	65	20	6
16	1	UNL	12			86	73	51	66	18	6
19	1	UNL	12			74	69	79	67	19	4
22	0	UNL	12			67	66	93	65	00	0

NOTES

CEILING COLUMN—

UNL indicates an unlimited ceiling.
CIR indicates a cirriform cloud ceiling of unknown height.

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
E	Sleet
A	Hail
AP	Small 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 or microfiche copies of the original records. Inquiries as to availability and costs should be addressed to:
Director, National Weather Records Center, Federal Building, Asheville, N. C. 28801

STATION: RICHMOND VA YEAR & MONTH: 69 08