LOCAL CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
BYRD FIELD
OCTOBER 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	76	50	63	-2	48	2	0		0	0	0	29.77	01	5.1	5.8	11	NE	9.2	78	2	1	1
2	78	46	62	-2	52	3	0	1 8	0	0	0	29.73	17	6.6	6.8	16	SW	5.7	48	6	3	2
3	88*	62	75	11	56	0	10	1 8	0	T	0	29.62	21	5.9	10.1	23	SW	8.2	69	2	3	3
4	72	45	59	-4	35	6	0		0	0	0	29.89	34	4.1	5.3	14	NW	11.7	100	5	4	4
5	76	38	57	-6	36	8	0	8	0	0	0	30.05	07	.3	2.7	8	SW	11.7	100	0	0	5
6	81	42	62	0	44	3	0	8	0	0	0	30.08	20	4.1	4.9	9	SW	11.6	100	0	0	6
7	82	47	65	3	51	0	0	1 8	0	0	0	30.10	14	3.4	4.6	11	E	11.5	99	5	5	7
8	82	52	67	6	57	0	2	1 8	0	0	0	30.05	07	5.0	6.3	10	SE	5.7	50	8	6	8
9	82	61	72	11	61	0	7	2 8	0	0	0	30.02	10	6.2	7.3	12	E	5.2	45	9	9	9
10	82	66	74	13	65	0	9	1 8	0	T	0	29.99	11	6.7	7.1	9	SE	1.6	14	9	9	10
11	81	63	72	12	65	0	7	1 8	0	0	0	30.06	10	5.3	5.3	8	E	3.3	29	7	7	11
12	82	60	71	11	61	0	6	2 8	0	0	0	30.02	09	3.3	4.5	5	SE	5.6	49	6	6	12
13	81	59	70	10	61	0	5	2 8	0	0	0	29.98	14	3.0	3.5	7	S	6.4	56	8	8	13
14	87	64	76*	17	64	0	11	2 8	0	0	0	29.94	16	6.3	6.6	13	SW	4.6	40	8	8	14
15	78	63	71	12	65	0	6	1 8	0	.05	0	29.85	20	3.6	4.0	7	W	0.0	0	10	9	15
16	67	45	56	-3	41	9	0		0	.11	0	29.95	35	12.8	12.9	24	N	4.6	41	7	6	16
17	61	35	48*	-10	28	17	0		0	0	0	30.14	33	7.1	8.5	20	N	11.2	100	1	1	17
18	71	30*	51	-7	30	14	0		0	0	0	30.14	22	3.2	3.6	11	W	11.2	100	0	0	18
19	73	35	54	-4	36	11	0	8	0	0	0	30.22	06	3.6	4.5	9	NE	8.9	80	4	3	19
20	67	46	57	0	51	8	0	1 8	0	T	0	30.25	08	6.1	6.3	13	W	0.0	0	10	9	20
21	67	59	63	6	61	2	0	1	0	.71	0	29.96	09	8.4	9.4	17	SE	0.0	0	10	10	21
22	72	63	68	11	63	0	3	2 8	0	.08	0	29.80	34	2.3	4.2	8	NE	0.1	0	10	10	22
23	76	55	66	10	58	0	1	1 8	0	.02	0	29.79	36	6.3	6.9	12	N	3.1	28	8	8	23
24	73	54	64	8	53	1	0	1 8	0	0	0	29.85	01	4.3	4.9	9	NE	7.4	68	6	7	24
25	72	52	62	7	54	3	0	1 8	0	0	0	29.83	03	5.0	5.2	8	NE	2.1	19	9	7	25
26	68	56	62	7	52	3	0	1 8	0	T	0	29.90	02	9.6	9.8	15	N	2.5	23	7	8	26
27	58	52	55	0	50	10	0	1	0	.01	0	30.08	04	10.8	10.9	15	NE	0.0	0	10	10	27
28	58	51	55	1	47	10	0		0	0	0	30.14	05	8.6	9.5	12	NE	0.0	0	10	10	28
29	63	52	58	4	51	7	0	8	0	T	0	30.12	07	7.4	8.1	12	E	0.0	0	10	10	29
30	63	57	60	6	57	5	0	1	0	.50	0	30.13	09	9.0	9.2	14	E	0.0	0	10	10	30
31	66	59	63	9	57	2	0	1	0	.07	0	30.11	08	7.3	7.6	16	E	0.0	0	10	10	31
	Sum	Sum				Total	Total			Total	Total	For the month:						Total	%	Sum	Sum	
	2283	1619				124	67	Number of days		1.55	0	29.99	06	2.9	6.6	24	N	153.1	for	207	197	
	Avg.	Avg.	Avg.	Dep.	Avg.	Dep.	Dep.	Precipitation		Dep.						Date:	16	Possible	month	Avg.	Avg.	
	73.6	52.2	62.9	4.2	52	-90		≥ .01 inch	8	-1.45								348.0	44	6.7	6.4	

Number of days				Season to date		Snow, ice pellets	
Maximum Temp.		Minimum Temp.		Total	Total	≥ 1.0 inch	0
≥ 90° ‡	≤ 32°	≤ 32°	≤ 0°	136	1756	Thunderstorms	0
0	0	1	0	Dep. -114	Dep.	Heavy fog X	5

Clear 6 Partly cloudy 9 Cloudy 16

Greatest in 24 hours and dates				Greatest depth on ground of snow, ice pellets or ice and date
Precipitation		Snow, ice pellets		0
.71	21	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																									2
3																				T					3
4																									4
5																									5
6																									6
7																									7
8																									8
9																									9
10													T	T											10
11																									11
12																									12
13																									13
14																									14
15										T	T	.05	T												15
16	.07	T	.01	.01	T	T	.01	.01																	16
17																									17
18																									18
19																									19
20																					T	T	T	T	20
21	.07	.01		T	.01	T	T	T	.05	.03	T	.02	.06	.09	T	.05	.14	.10	.04	.01	.03	T	T		21
22															T	T	.01		.04	.01	.02	T			22
23					.02	T																			23
24																									24
25																									25
26																			T	T	T	T	T	T	26
27	T	T	T	T										T	T	T	.01	T	T						27
28																									28
29											T							T							29
30						T	.01	T	T	T	.02	.01	.02	.05	.08	.05	.05	.08	.04	.01	.01	.02	.02	.03	30
31	.04	T	T	T	.02	.01					T	T	T	T				T	T						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 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: 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	29.98	57	54	86	52	4.8	03	2.2
04	6	29.98	55	53	90	52	4.7	03	2.7
07	7	30.01	55	53	88	52	5.6	04	3.8
10	7	30.02	66	59	66	53	8.4	05	3.3
13	7	29.98	71	60	53	51	8.8	10	3.0
16	6	29.95	71	60	53	51	8.7	09	3.4
19	6	29.97	62	57	71	52	6.6	09	4.0
22	6	29.99	58	55	82	52	5.6	07	3.1

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	12			56	54	90	53	36	4
04	0	UNL	7			53	51	90	50	36	5
07	0	UNL	7			52	50	90	49	01	8
10	0	UNL	7			68	57	51	49	01	7
13	7	40	8			73	58	37	45	36	6
16	4	UNL	7			73	58	37	45	02	7
19	2	UNL	12			59	53	67	48	12	3
22	0	UNL	12			52	50	86	48	00	0
DAY 02											
01	0	UNL	7			48	46	89	45	00	0
04	3	UNL	2		GF	46	45	93	44	00	0
07	7	UNL	2		GFH	49	47	89	46	00	0
10	8	250	3		H	69	60	57	53	17	8
13	7	UNL	4		H	74	62	48	53	18	12
16	1	UNL	7			77	65	52	58	16	11
19	0	UNL	6		H	69	63	73	60	15	8
22	0	UNL	6		H	66	62	81	60	18	8
DAY 03											
01	0	UNL	7			66	63	84	61	19	8
04	0	UNL	7			64	62	87	60	20	6
07	0	UNL	5		GF	63	61	90	60	06	6
10	5	UNL	5		H	74	66	64	61	21	9
13	1	UNL	7			86	68	39	58	21	11
16	4	UNL	12			85	67	37	56	19	12
19	8	100	12			77	65	52	58	21	8
22	3	UNL	15			70	53	28	35	34	10
DAY 04											
01	8	100	15			65	51	36	37	34	3
04	0	UNL	15			50	46	71	41	00	0
07	1	UNL	15			54	46	53	37	36	8
10	1	UNL	15			64	50	33	34	34	10
13	10	UNL	15			69	51	24	31	33	7
16	7	UNL	15			70	50	21	28	29	6
19	6	UNL	15			54	45	47	34	00	0
22	0	UNL	15			45	41	71	36	14	3
DAY 05											
01	0	UNL	15			45	42	77	38	00	0
04	0	UNL	15			43	41	83	38	34	3
07	0	UNL	6		H	44	41	80	38	00	0
10	0	UNL	10			67	51	28	33	34	3
13	0	UNL	12			74	53	19	29	06	4
16	0	UNL	10			74	53	21	31	21	5
19	0	UNL	7			59	49	46	38	13	4
22	0	UNL	7			56	49	62	43	00	0
DAY 06											
01	0	UNL	10			49	45	71	40	00	0
04	0	UNL	10			47	44	80	41	20	3
07	0	UNL	6		H	47	44	80	41	00	0
10	0	UNL	7			73	58	38	46	21	7
13	4	UNL	8			80	59	26	42	22	9
16	0	UNL	8			80	61	30	46	20	8
19	0	UNL	8			62	55	63	49	17	3
22	0	UNL	8			56	52	75	48	10	4
DAY 07											
01	0	UNL	7			54	52	86	50	13	4
04	0	UNL	5		H	51	49	90	48	00	0
07	3	UNL	1		GFH	50	48	89	47	00	0
10	2	UNL	7			73	62	53	55	23	6
13	8	UNL	6		H	80	62	33	48	15	7
16	9	UNL	7			80	63	35	50	10	7
19	7	UNL	7			64	58	68	53	11	5
22	8	UNL	7			59	57	87	55	12	3
DAY 08											
01	3	UNL	7			57	55	87	53	01	3
04	4	UNL	5		GF	54	53	93	52	35	4
07	7	UNL	2		GF	55	54	96	54	36	4
10	8	120	5		H	72	66	71	62	09	5
13	9	100	10			81	67	46	58	09	8
16	8	100	12			77	65	50	57	08	9
19	5	UNL	12			68	63	76	60	10	5
22	8	UNL	7			64	62	87	60	09	6
DAY 09											
01	5	UNL	4		GF	61	60	97	60	36	3
04	10	2	0	12	F	61	60	97	60	02	3
07	10	0	0		F	63	62	97	62	10	4
10	10	15	7			75	69	71	65	12	8
13	9	250	10			81	67	46	58	13	11
16	8	250	12			78	66	52	59	11	10
19	8	100	12			71	64	66	59	09	7
22	10	100	7			70	66	81	64	10	5
DAY 10											
01	10	4	3		F	67	66	93	65	10	5
04	8	3	3		F	67	66	97	66	10	4
07	10	3	1		F	68	67	93	66	07	3
10	8	60	6		H	75	70	76	67	10	9
13	9	50	7		RW	79	70	62	65	14	7
16	9	100	12			79	68	56	62	13	7
19	10	100	7			73	67	74	64	11	8
22	5	UNL	6		H	68	67	93	66	11	6
DAY 11											
01	10	3	1	8	F	68	67	97	67	00	0
04	10	3	0	8	F	68	67	97	67	10	3
07	10	4	0	8	F	69	68	93	67	12	5
10	10	11	1	12	F	73	68	79	66	09	5
13	6	30	3		H	79	70	65	66	10	8
16	4	UNL	6		H	81	69	54	63	10	6
19	4	UNL	4		H	71	67	79	64	10	5
22	2	UNL	4		H	66	64	90	63	10	5
DAY 12											
01	10	1	0	4	F	62	61	97	61	06	3
04	10	0	0	1	F	64	64	100	64	04	2
07	9	18	1		F	63	62	93	61	02	4
10	10	25	3		H	71	65	73	62	06	4
13	4	UNL	8			79	67	50	59	13	5
16	6	UNL	8			79	67	50	59	10	5
19	2	UNL	8			67	63	78	60	14	5
22	2	UNL	7			62	61	93	60	13	3
DAY 13											
01	10	1	0	2	F	59	58	97	58	00	0
04	10	1	0	2	F	60	59	97	59	00	0
07	10	1	0	2	F	63	62	97	62	22	3
10	10	3	0	8	F	65	64	93	63	12	3
13	7	UNL	2		KH	75	67	66	63	15	5
16	7	UNL	7			79	68	54	61	13	6
19	7	UNL	7			68	63	73	59	12	3
22	5	UNL	5		GF	63	62	93	61	12	4
DAY 14											
01	10	1	0	2	F	66	65	97	65	17	6
04	10	1	0	4	F	66	65	97	65	16	4
07	10	2	0	4	F	66	65	97	65	17	4
10	8	120	3		H	77	70	71	67	15	7
13	9	30	7			82	70	55	64	19	9
16	7	250	10			84	69	44	60	17	6
19	5	UNL	7			73	66	66	61	14	6
22	6	UNL	5		H	68	64	81	62	14	4
DAY 15											
01	5	UNL	7			68	65	87	64	18	4
04	7	250	7			65	64	93	63	19	2
07	8	80	2	8	GFH	66	65	93	64	14	3
10	10	60	5		H	74	69	76	66	21	5
13	10	14	7			74	71	87	70	23	8
16	10	40	8			73	68	76	65	20	3
19	9	100	8			68	66	90	65	17	3
22	10	100	7			66	65	97	65	00	0
DAY 16											
01	10	10	7		RW	62	60	87	58	36	11
04	10	60	7			56	54	87	52	36	11
07	10	80	6		RW	53	50	80	47	36	10
10	10	100	10			55	48	57	40	35	11
13	9	100	12			59	47	39	34	36	12
16	1	UNL	12			60	47	36	33	35	14
19	0	UNL	12			51	42	45	30	34	10
22	0	UNL	12			47	40	52	30	35	11
DAY 17											
01	0	UNL	15			45	38	51	28	35	10
04	0	UNL	15			40	35	62	28	34	8
07	1	UNL	12			39	35	65	28	33	5
10	1	UNL	15			49	39	38	24	34	12
13	2	UNL	15			57	44	32	27	31	8
16	2	UNL	12			60	45	28	27	33	8
19	0	UNL	12			45	39	56	30	14	3
22	0	UNL	12			45	39	58	31	27	5
DAY 18											
01	0	UNL	12			36	34	79	30	21	2
04	0	UNL	12			33	32	85	29	17	2
07	0	UNL	12			32	31	85	28	00	0
10	0	UNL	12			59	47	36	32	26	5
13	0	UNL	15			66	49	24	28	20	5
16	0	UNL	15			70	51	22	29	23	8
19	0	UNL	15			53	43	43	31	20	3
22	0	UNL	15			44	39	63	32	00	0
DAY 19											
01	0	UNL	15			38	36	79	32	00	0
04	0	UNL	12			37	35	79	31	00	0
07	1	UNL	5		KH	39	37	86	35	35	4
10	6	250	7			65	51	34	36	04	6
13	5	UNL	7			69	51	23	30	08	5
16	1	UNL	12			72	54	27	36	05	7
19	7	100	12			60	51	54	43	10	6
22	3	UNL	12			50	47	83	45	11	3
DAY 20											
01	4	UNL	8			48	46	89	45	10	2
04	5	UNL	6		GF	48	47	93	46	07	2
07	10	250	4		GFH	51	49	90	48	08	3
10	10	120	7			61	56	75	53	07	6
13	10	150	8			66	58	61	52	10	9
16	10	80	7			65	57	61	51	10	7
19	10	20	12			62	58	78	55	07	6
22	10	80	10		R	59	57	87	55	07	9
DAY 21											
01	10	12	7		R	59	57	90	56	05	6
04	10	5	5		RF	61	59	90	58	05	7
07	10	6	3		F	63	62	93	61	09	10
10	10	8	3		RF	66	65	93	64	08	9
13	10	8	1	8	RF	65	64	93	63	11	10
16	10	35	3		RF	64	62	90	61	12	7
19	10	7	2		LF	63	62	93	61	10	12
22	10	6	2		LF	63	62	97	62	14	4
DAY 22											
01	10	3	1	8	F	64	63	97	63	20	4
04	10	1	0	12	F	64	63	97	63	00	0
07	10	4	0	8	F	64	63	97	63	34	2
10	9	12	4		H	67	64	87	63	31	4
13	10	20	7			71	65	71	61	03	5
16	10	25	5		RWH	68	65	87	64	25	3
19	10	40	3		RWGFH	66	64	90	63	36	4
22	10	40	3		GFH	64	63	93	62	36	7
DAY 23											
01	10	40	3		GFH	63	61	90	60	34	6
04	10	40	3		GF	61	59	90	58	33	7
07	10	40	7			61	58	81	55	36	6
10	8	80	7			65	60	73	56	36	10
13	5	UNL	7			74	64	58	58	36	7
16	9	70	7			72	64	64	59	04	8
19	7	70	7			64	60	81	58	05	4
22	7	70	7			58	57	93	56	00	0
DAY 24											
01	5	UNL	5		GF	58	57	96	57	34	6
04	8	70	5		H	55	54	93	53	35	5
07	9	100	6		GFH	54	53	93	52	34	5
10	7	UNL	6		H	64	58	68	53	09	7
13	1	UNL	7			71	59	48	50	00	0
16	7	250	7			70	59	51	51	36	5
19	10	100	8			63	57	70	53	04	6
22	10	250	6		H	57	55	87	53	00	0
DAY 25											
01	6	UNL	4		H	54	53	96	53	00	0
04	5	UNL	5		H	52	51	96	51	35	4
07	10	80	2		GFH	54	53	93	52	02	5
10	10	80	3		H	61	58	84	56	02	5
13	5	UNL	6		H	70	60	55	53	03	6
16	10	40	7			68	60	61	54	05	7
19	8	250	8			61	58	81	55	03	4
22	7	250	5		GF	57	56	93	55	03	5
DAY 26											
01	6	UNL	2		GFH	56	55	96	55	36	5
04	10	23	4		H	58	57	96	57	02	7
07	9	30	7			58	56	90	55	04	8
10	9	25	7			62	55	65	50	02	12
13	9	100	7			65	56	56	49	01	10
16	1	UNL	10			65	55	52	47	01	8
19	10	35	12		R	60	55	70	50	03	8
22	10	12	7		R	56	54	90	53	03	10
DAY 27											
01	10	12	8			55	53	90	52	04	8
04	10	70	7			54	53	93	52	03	8
07	9	50	12			54	52	86	50	03	9
10	10	20	12			57	52	72	48	03	13
13	10	15	12			55	51	77	48	05	12
16	10	18	2		LF	53	52	93	51	04	9
19	10	40	7			52	50	90	49	03	8
22	10	40	10			52	50	86	48	03	9
DAY 28											
01	10	45	12			52	49	83	47	04	9
04	10	45	12			52	49	83	47	04	10
07	10	45	12			51	48	83	46	05	12
10	10	80	12			53	49	74	45	07	8
13	10	25	12			57	51	67	46	10	9
16	10	25	12			56	51	72	47	04	8
19	10	25	10			54	50	77	47	36	6
22	10	40	10			53	50	83	48	05	4
DAY 29											
01	10	45	12			53	50	83	48	02	5
04	10	60	12			53	51	86	49	06	4
07	10	50	12			54	52	86	50	04	5
10	10	40	10			59	55	78	52	08	7
13	10	45	12			62	56	67	51	10	10
16	10	23	12			61	56	72	52	08	9
19	10	15	5		H	57	55	90	54	07	6
22	10	11	7			57	55	87	53	09	10
DAY 30											
01	10	10	10			58	56	87	54	08	7
04	10	10	8			58	56	87	54	06	6
07	10	70	6		R	57	56	96	56	08	7
10	10	12	7		R	62	59	84	57	09	8
13	10	12	4		R	62	60	90	59	09	6
16	10	5	2		RF	61	60	93	59	10	11
19	10	5	4		RF	60	59	93	58	09	12
22	10	7	4		RF	60	59	93	58	08	7
DAY 31											
01	10	80	4		RF	60	59	93	58	08	6
04	10	80	7		RW	59	58	93	57	08	7
07	10	50	7			59	58	93	57	08	8
10	10	60	10			62	59	84	57	09	7
13	10	80	8		R	64	61	84	59	04	6
16	10	80	8			65	60	73	56	09	7
19	10	70	7			62	60	87	58	08	7
22	10	100	7			60	58	90	57	05	5

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 10