LOCAL CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
BYRD FIELD
AUGUST 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	94	72	83	5	72	0	18	1 3 8	0	.06	0	29.63	23	2.0	6.2	15	NW	10.2	72	5	6	1
2	94	70	82	4	71	0	17	8	0	0	0	29.65	28	5.8	6.9	13	W	12.7	90	3	4	2
3	92	63	78	0	67	0	13	8	0	.03	0	29.72	21	3.8	6.0	12	SW	10.6	76	6	6	3
4	85	64	75	-3	62	0	10	8	0	0	0	29.82	35	7.8	9.1	15	NE	14.0	100	2	3	4
5	85	63	74	-4	62	0	9		0	0	0	29.85	08	2.7	4.0	6	SW	5.5	39	8	8	5
6	84	65	75	-3	66	0	10	8	0	0	0	29.88	16	1.9	4.2	9	SW	1.8	13	9	9	6
7	86	66	76	-1	65	0	11	1 8	0	0	0	29.87	15	4.0	5.5	9	E	8.9	64	8	8	7
8	86	67	77	0	66	0	12	1 8	0	T	0	29.84	17	5.0	6.2	12	S	8.1	58	9	9	8
9	85	65	75	-2	66	0	10	1 8	0	.01	0	29.84	11	3.3	4.8	11	E	1.8	13	10	10	9
10	75	69	72*	-5	69	0	7	1 8	0	.27	0	29.79	04	6.6	7.2	11	NE	0.0	0	10	9	10
11	85	64	75	-2	66	0	10	1 8	0	0	0	29.73	36	7.2	7.3	14	NE	10.2	74	4	3	11
12	89	62	76	-1	65	0	11	1 8	0	0	0	29.80	20	4.1	4.8	11	W	11.4	83	4	3	12
13	92	67	80	3	68	0	15	8	0	0	0	29.75	15	3.7	4.5	9	SW	9.4	69	6	5	13
14	92	68	80	3	67	0	15	8	0	0	0	29.84	11	3.8	5.3	9	S	7.2	53	8	7	14
15	94	68	81	4	70	0	16	23 8	0	.13	0	29.97	11	.7	3.7	13	NE	7.0	52	5	4	15
16	93	69	81	4	72	0	16	1 8	0	0	0	29.92	19	4.6	4.8	12	S	9.7	71	4	3	16
17	94	71	83*	7	74	0	18	1 3 8	0	.02	0	29.82	17	2.6	3.9	12	NE	6.5	48	9	7	17
18	91	69	80	4	67	0	15	1 8	0	0	0	29.88	08	3.8	4.8	12	S	7.7	57	3	5	18
19	93	69	81	5	70	0	16	1 3 8	0	1.07	0	29.85	18	3.3	5.8	22	NW	6.3	47	8	9	19
20	91	69	80	4	73	0	15	1 8	0	.02	0	29.74	17	5.7	6.2	9	S	8.9	66	4	6	20
21	90	67	79	3	71	0	14	1 8	0	0	0	29.72	36	3.6	6.0	12	N	9.6	72	5	3	21
22	87	64	76	0	65	0	11	8	0	0	0	29.78	11	3.6	4.3	10	S	8.7	65	9	7	22
23	87	74	81	5	74	0	16	1 8	0	.01	0	29.56	21	7.8	9.2	16	SW	1.9	15	10	10	23
24	87	66	77	2	68	0	12	1 8	0	0	0	29.67	02	3.7	5.2	9	NE	7.9	60	5	5	24
25	87	63	75	0	64	0	10	1 8	0	0	0	29.83	10	2.7	3.9	8	SE	7.9	59	5	3	25
26	88	64	76	1	64	0	11	1 8	0	0	0	29.84	04	2.6	4.6	9	N	10.7	81	3	3	26
27	92	62*	77	2	64	0	12	1 8	0	0	0	29.85	22	4.0	4.3	8	S	12.6	95	4	3	27
28	93	63	78	3	66	0	13	1 8	0	0	0	29.88	21	3.6	4.3	8	W	12.5	95	1	1	28
29	95	64	80	6	66	0	15	1 8	0	0	0	29.86	21	3.0	3.5	7	W	13.1	100	0	0	29
30	95	66	81	7	68	0	16	1 8	0	0	0	29.87	17	.6	4.8	10	SW	12.2	93	4	4	30
31	95*	67	81	7	72	0	16	3 8	0	.07	0	29.83	25	4.5	7.9	13	W	4.4	34	8	7	31
	Sum	Sum				Total	Total			Total	Total	For the month:						Total	%	Sum	Sum	
	2776	2060				0	410	Number of days		1.69	0	29.80	16	1.0	5.4	22	NW	259.4	for	179	170	
	Avg.	Avg.	Avg.	Dep.	Avg.	Dep.	Dep.	Precipitation		Dep.						Date: 19		Possible	month	Avg.	Avg.	
	89.5	66.5	78.0	2.0	68	0		≥ .01 inch	10	-3.85								420.8	62	5.8	5.5	

Number of days				Season to date		Snow, ice pellets		Greatest in 24 hours and dates			Greatest depth on ground of snow, ice pellets or ice and date
Maximum Temp.		Minimum Temp.		Total	Total	≥ 1.0 inch	0	Precipitation		Snow, ice pellets	
≥ 90° ‡	≤ 32°	≤ 32°	≤ 0°	Dep.	Dep.	Thunderstorms	5	1.09	19-20	0	0
17	0	0	0	0		Heavy fog X	1	Partly cloudy 13		Cloudy 12	
						Clear 6					

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														.05	.01										1
2																									2
3																				.02	.01				3
4																									4
5																									5
6																									6
7																									7
8				T	T	T																			8
9																						T	T	.01	9
10	.01	T	.03	.06	.06	.01	T	.01	.02	.02	T	T	.03	.02											10
11																									11
12																									12
13																									13
14																									14
15																		T	.13						15
16																									16
17															T	T		.02							17
18																									18
19																				.65	.21	.02	.10	.09	19
20	.01	.01																							20
21																									21
22																									22
23														T	.01						T	T			23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30
31														.07			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 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	Resultant wind Speed (m.p.h.)
01	5	29.80	70	68	90	67	4.0	20	1.4
04	4	29.80	69	67	93	67	4.0	21	.6
07	5	29.82	71	69	88	68	4.3	32	.1
10	5	29.83	82	73	65	69	6.6	13	.7
13	6	29.81	87	74	53	67	7.5	16	.7
16	6	29.77	86	73	54	67	7.2	18	2.5
19	7	29.78	78	71	71	68	5.8	13	2.3
22	5	29.81	73	69	84	68	4.2	15	.8

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER (Tenths)	CEILING (Hnds. of ft.)	VISIBILITY WHOLE MILES	VISIBILITY Fath MILE	WEATHER	DRY BULB (°F)	WET BULB (°F)	REL. HUM. (%)	DEW PT. (°F)	WIND DIR.	WIND SPEED (Knots)
DAY 01											
01	6	UNL	8			75	71	82	69	23	5
04	4	UNL	7			72	70	90	69	19	3
07	1	UNL	5		GF	76	73	87	72	23	7
10	1	UNL	6		H	89	79	63	75	35	5
13	8	40	6		H	94	80	52	74	36	5
16	7	250	8			88	78	63	74	13	6
19	8	250	4		H	81	77	85	76	16	5
22	8	250	10			78	71	71	68	28	6
DAY 02											
01	6	UNL	8			75	72	87	71	24	4
04	5	UNL	7			72	71	93	70	24	5
07	0	UNL	4		H	77	74	85	72	33	4
10	1	UNL	5		H	88	78	63	74	31	5
13	6	30	5		H	93	76	46	69	31	7
16	4	UNL	7			94	77	44	69	26	9
19	4	UNL	7			87	75	55	69	24	7
22	3	UNL	7			80	74	74	71	29	7
DAY 03											
01	0	UNL	7			71	67	81	65	34	5
04	0	UNL	7			64	63	93	62	00	0
07	4	UNL	7			74	68	74	65	00	0
10	2	UNL	7			84	71	53	65	17	7
13	2	UNL	7			90	74	47	67	17	10
16	8	250	7			91	76	49	69	22	7
19	10	100	7			83	75	67	71	21	6
22	10	100	7			78	75	88	74	27	7
DAY 04											
01	7	250	6		H	75	72	87	71	27	7
04	8	100	7			74	71	87	70	35	6
07	0	UNL	7			74	69	79	67	36	9
10	0	UNL	10			80	68	54	62	36	12
13	1	UNL	10			83	66	38	55	34	9
16	3	UNL	12			84	66	37	55	03	10
19	5	UNL	12			77	64	47	55	01	6
22	3	UNL	12			67	62	73	58	35	4
DAY 05											
01	9	250	12			64	61	84	59	36	4
04	7	55	12			65	62	84	60	35	4
07	10	100	10			67	63	78	60	00	0
10	6	100	8			78	68	58	62	12	4
13	7	40	8			83	69	48	61	10	4
16	7	40	7			81	70	56	64	10	4
19	7	40	7			78	69	62	64	08	5
22	8	100	10			72	67	76	64	11	3
DAY 06											
01	5	UNL	10			67	65	90	64	00	0
04	9	100	5		H	68	65	84	63	00	0
07	10	60	3		H	72	68	82	66	36	4
10	9	100	4		H	80	71	62	66	19	5
13	10	40	4		H	83	72	59	67	22	2
16	10	40	3		H	78	71	69	67	22	6
19	9	100	2		H	76	69	71	66	11	8
22	10	40	6		H	71	68	84	66	14	4
DAY 07											
01	10	100	6		H	70	67	87	66	15	2
04	10	50	5		H	70	67	87	66	26	3
07	6	UNL	3		GFH	71	68	87	67	04	3
10	9	UNL	5		H	80	71	65	67	15	7
13	10	30	5		H	82	70	53	63	14	9
16	5	UNL	5		H	84	69	46	61	19	6
19	7	250	5		H	76	68	66	64	13	4
22	5	UNL	5		H	70	66	81	64	13	4
DAY 08											
01	9	120	6		H	67	65	90	64	17	3
04	10	40	6		RWH	68	66	90	65	06	3
07	10	120	3		GFH	70	67	87	66	15	4
10	10	250	4		H	80	73	69	69	20	10
13	10	40	5		H	83	73	61	68	20	8
16	7	UNL	5		H	83	70	51	63	15	7
19	9	250	5		H	76	69	71	66	13	5
22	8	250	5		H	70	66	81	64	15	3
DAY 09											
01	7	250	5		H	67	64	87	63	13	5
04	7	250	4		H	66	64	90	63	11	4
07	10	250	3		GFH	69	66	87	65	00	0
10	10	100	3		H	79	72	72	69	13	4
13	10	100	4		H	83	72	59	67	11	8
16	10	100	4		H	81	72	63	67	12	6
19	10	100	2		H	73	69	82	67	32	3
22	10	30	5		RH	72	69	87	68	01	3
DAY 10											
01	10	30	5		RGF	70	69	93	68	35	4
04	10	100	5		RGF	69	68	97	68	36	4
07	10	70	1		RGF	70	69	93	68	06	6
10	10	70	1	8	RGF	72	71	93	70	07	7
13	10	15	1	8	RGF	72	71	93	70	06	8
16	10	50	3		H	74	71	87	70	05	7
19	10	50	8			72	69	84	67	04	5
22	10	100	12			70	68	90	67	03	9
DAY 11											
01	2	UNL	10			69	68	93	67	36	8
04	2	UNL	7			68	67	93	66	36	8
07	3	UNL	5		GF	70	67	87	66	36	8
10	5	UNL	7			77	72	76	69	35	8
13	5	UNL	7			81	72	63	67	01	8
16	3	UNL	10			84	71	51	64	36	7
19	2	UNL	8			77	69	67	65	04	4
22	0	UNL	8			67	66	93	65	00	0
DAY 12											
01	0	UNL	7			63	62	97	62	00	0
04	0	UNL	5		GF	63	62	97	62	18	3
07	5	UNL	4		GF	69	67	90	66	23	3
10	2	UNL	7			82	72	61	67	23	7
13	3	UNL	10			88	73	47	65	25	5
16	6	100	10			85	71	48	63	18	8
19	7	100	8			79	72	69	68	18	4
22	6	100	10			71	68	87	67	17	3
DAY 13											
01	7	100	8			69	68	93	67	13	3
04	2	UNL	7			68	67	97	67	18	3
07	1	UNL	4		H	71	69	90	68	00	0
10	3	UNL	7			84	73	59	68	05	3
13	7	80	10			88	74	50	67	15	7
16	9	100	7			88	74	50	67	14	7
19	9	100	7			79	72	69	68	15	5
22	6	100	7			75	72	85	70	20	3
DAY 14											
01	3	UNL	7			70	68	90	67	14	3
04	0	UNL	7			70	67	87	66	00	0
07	10	120	5		H	74	71	84	69	12	3
10	5	UNL	5		H	85	75	63	71	11	6
13	7	120	7			90	73	44	65	07	5
16	7	250	7			89	73	47	66	16	8
19	7	250	7			82	70	55	64	12	7
22	6	250	7			76	71	79	69	01	5
DAY 15											
01	3	UNL	5		GF	69	68	93	67	22	4
04	4	UNL	5		GF	68	67	97	67	03	4
07	10	1	0	4	F	69	69	100	69	01	3
10	0	UNL	3		KH	84	74	63	70	36	3
13	6	40	7			91	76	49	69	19	4
16	6	45	6		H	89	76	54	70	14	3
19	7	80	4		H	76	74	90	73	07	2
22	0	UNL	7			74	72	90	71	14	3
DAY 16											
01	0	UNL	5		H	73	72	93	71	00	0
04	0	UNL	5		GF	71	71	100	71	00	0
07	0	UNL	4		GFH	74	73	97	73	17	3
10	1	UNL	5		H	87	78	68	75	22	3
13	6	40	8			91	78	56	73	19	8
16	4	UNL	7			91	77	52	71	20	9
19	9	250	7			83	75	70	72	19	6
22	0	UNL	7			75	73	90	72	17	4
DAY 17											
01	0	UNL	7			76	74	90	73	18	5
04	0	UNL	7			75	74	94	73	22	7
07	10	2	0	8	F	74	73	97	73	17	4
10	8	250	6		H	83	77	77	75	12	3
13	9	250	7			91	78	56	73	15	3
16	8	250	6		H	88	79	68	76	16	2
19	8	80	6		H	78	74	85	73	04	3
22	9	250	5		GFH	74	73	97	73	00	0
DAY 18											
01	10	UNL	5		H	74	73	94	72	05	3
04	6	UNL	6		H	70	69	97	69	13	4
07	2	UNL	3		H	74	71	84	69	01	4
10	2	UNL	7			84	73	57	67	07	7
13	9	300	7			89	72	44	64	09	4
16	6	70	6		H	89	73	47	66	08	4
19	8	UNL	7			80	69	56	63	12	5
22	10	250	8			73	67	74	64	13	2
DAY 19											
01	10	250	7			71	68	87	67	15	2
04	10	250	6		H	69	68	93	67	19	4
07	10	100	2	8	GFH	72	71	93	70	15	3
10	10	100	3		K	82	76	74	73	15	8
13	6	140	3		H	90	77	54	71	22	7
16	5	UNL	3		H	90	77	54	71	21	6
19	10	40	2		TKH	80	74	74	71	04	7
22	10	20	4		TRW	72	71	93	70	21	3
DAY 20											
01	10	30	4		RGF	72	71	93	70	16	8
04	8	100	3		GFH	71	71	100	71	14	2
07	2	UNL	3		GF	72	71	97	71	17	4
10	2	UNL	5		H	82	76	77	74	19	6
13	4	UNL	7			88	78	63	74	14	7
16	2	UNL	8			90	79	61	75	20	8
19	10	250	7			82	77	79	75	19	5
22	10	250	7			78	76	91	75	19	3
DAY 21											
01	4	UNL	5		H	76	75	94	74	23	4
04	0	UNL	2		GFH	73	73	100	73	19	3
07	9	250	3		GFH	76	74	90	73	27	3
10	9	250	6		H	82	75	72	72	36	6
13	4	UNL	3		H	87	77	63	73	01	8
16	8	UNL	6		H	87	75	55	69	36	6
19	10	UNL	6		H	79	72	69	68	02	7
22	0	UNL	10			72	68	82	66	04	5
DAY 22											
01	9	75	10			69	67	90	66	00	0
04	0	UNL	10			66	65	93	64	07	3
07	8	100	8			70	66	81	64	05	2
10	10	250	10			80	70	58	64	08	4
13	10	90	12			83	69	49	62	11	4
16	10	90	12			84	71	53	65	17	4
19	2	UNL	7			78	71	71	68	11	6
22	6	UNL	7			75	71	82	69	13	7
DAY 23											
01	10	12	5		H	75	72	87	71	16	7
04	10	8	6		H	76	74	90	73	19	8
07	10	11	3		H	78	74	85	73	16	11
10	10	20	5		H	84	78	74	75	21	9
13	10	25	3		H	84	78	74	75	24	11
16	10	100	3		H	84	78	77	76	23	11
19	10	120	3		H	81	77	82	75	24	7
22	10	100	7			75	72	85	70	00	0
DAY 24											
01	10	100	7			74	72	90	71	00	0
04	3	UNL	7			70	69	93	68	32	4
07	3	UNL	3		GFH	66	66	100	66	35	7
10	7	250	3		H	78	72	74	69	07	6
13	4	UNL	3		H	84	72	55	66	02	6
16	6	70	3		H	84	72	55	66	35	6
19	6	100	3		H	76	70	74	67	05	5
22	0	UNL	5		H	69	68	93	67	16	2
DAY 25											
01	0	UNL	5		GFH	66	65	97	65	00	0
04	0	UNL	5		GFH	64	63	97	63	36	3
07	5	UNL	2	8	GFH	66	65	93	64	02	2
10	5	UNL	5		H	81	70	58	65	06	4
13	6	30	6		H	85	71	48	63	14	5
16	6	35	7			84	69	46	61	11	4
19	0	UNL	5		H	74	68	71	64	12	5
22	0	UNL	4		H	69	67	90	66	12	4
DAY 26											
01	0	UNL	5		H	66	65	93	64	03	2
04	5	UNL	5		GFH	64	63	97	63	34	3
07	3	UNL	1		GFH	67	65	90	64	34	3
10	1	UNL	4		H	79	71	67	67	01	4
13	4	UNL	7			85	71	48	63	06	7
16	5	UNL	7			85	70	46	62	05	6
19	5	UNL	7			75	67	66	63	14	5
22	0	UNL	7			68	64	81	62	22	2
DAY 27											
01	0	UNL	5		H	63	62	93	61	20	2
04	0	UNL	5		H	63	62	93	61	21	2
07	1	UNL	2		GFH	66	64	90	63	18	2
10	7	UNL	2		KH	83	72	59	67	23	2
13	3	UNL	3		H	89	73	47	66	23	9
16	3	UNL	5		H	90	71	38	61	24	5
19	5	UNL	5		H	76	70	74	67	20	5
22	5	UNL	6		H	71	69	90	68	18	3
DAY 28											
01	0	UNL	5		H	68	67	97	67	20	3
04	0	UNL	5		H	67	66	93	65	00	0
07	6	300	2		GFH	68	67	93	66	21	2
10	0	UNL	3		H	85	73	57	68	24	5
13	0	UNL	3		H	91	73	41	64	27	5
16	0	UNL	5		H	91	72	39	63	18	5
19	0	UNL	5		H	78	70	67	66	19	5
22	0	UNL	7			71	68	87	67	18	5
DAY 29											
01	0	UNL	5		GFH	69	67	90	66	18	3
04	0	UNL	5		GFH	66	65	93	64	18	4
07	0	UNL	3		H	70	67	87	66	23	3
10	0	UNL	3		H	87	74	53	68	19	2
13	0	UNL	3		H	93	75	41	66	27	3
16	0	UNL	5		H	93	73	37	63	23	6
19	0	UNL	6		H	82	73	63	68	21	3
22	0	UNL	7			75	70	79	68	00	0
DAY 30											
01	3	UNL	7			69	67	90	66	16	3
04	0	UNL	3		GFH	66	65	97	65	14	3
07	0	UNL	2		GFKH	70	68	90	67	19	2
10	0	UNL	3		KH	87	75	57	70	04	4
13	5	UNL	3		H	93	76	44	68	33	8
16	4	UNL	5		H	93	75	41	66	02	3
19	5	UNL	5		H	80	73	69	69	19	5
22	5	UNL	5		H	77	72	76	69	19	5
DAY 31											
01	4	UNL	5		H	81	73	69	70	23	9
04	7	100	7			78	73	77	70	23	7
07	8	100	7			79	73	77	71	23	7
10	7	100	7			90	78	57	73	27	11
13	8	120	7			91	78	56	73	34	7
16	10	40	8		T	82	77	79	75	20	7
19	10	40	7			77	75	91	74	10	2
22	8	250	12			73	69	82	67	02	5

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 08

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.