U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

LOCAL CLIMATOLOGICAL DATA

RICHMOND, VIRGINIA
BYRD FIELD
JUNE 1965

Latitude 37°30'N Longitude 77°20'W Elevation (ground) 162 ft. Standard time used: EASTERN

Date	Temperature (°F) Maximum	Minimum	Average	Departure from normal	Average dew point	Degree days (Base 65°)	Weather types shown by code 1-9 on dates of occurrence (1 Fog, 2 Heavy Fog, 3 Thunderstorm, 4 Sleet, 5 Hail, 6 Glaze, 7 Duststorm, 8 Smoke, Haze, 9 Blowing Snow)	Snow, Sleet, or Ice on ground at 07AM (In.)	Precipitation Total (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 Total (Hours and tenths)	Percent of possible	Sky cover (Tenths) Sunrise to sunset	Midnight to midnight	Date
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	85	61	73	1	60	0	1 8	0	0	0	29.92	23	7.3	8.3	12	SW	11.6	80	6	5	1
2	90	65	78	6	63	0	3 8	0	.03	0	29.79	22	10.4	10.9	19	SW	10.4	71	5	5	2
3	72	54	63	▸ 9	60	2	1 8	0	.04	0	29.77	01	4.8	7.6	17	N	0.3	2	10	8	3
4	73	50	62	▸ 11	51	3	1 8	0	0	0	30.00	05	4.1	5.9	11	NE	9.9	68	5	3	4
5	76	45*	61	▸ 12	48	4	1 8	0	0	0	30.05	18	2.4	4.3	9	S	14.5	99	5	3	5
6	85	53	69	▸ 4	57	0		0	0	0	30.01	18	6.9	7.1	11	SW	14.3	97	1	1	6
7	89	62	76	3	66	0	1 8	0	0	0	29.94	19	7.5	8.1	13	SW	10.7	73	5	3	7
8	88	69	79	5	70	0	3	0	.04	0	29.93	20	10.7	10.9	18	SW	8.5	58	8	6	8
9	79	68	74	0	70	0		0	.10	0	29.90	20	8.9	9.1	14	SW	1.9	13	10	8	9
10	92	68	80	6	68	0	1 3 8	0	.27	0	29.86	23	3.8	6.9	17	NE	9.8	67	8	8	10
11	83	68	76	2	68	0	1 8	0	.08	0	29.84	22	1.8	6.6	12	S	6.6	45	10	10	11
12	78	69	74	▸ 1	71	0	1	0	0	0	29.61	20	7.3	7.8	13	SW	1.8	12	10	10	12
13	83	61	72	▸ 3	59	0	1 8	0	0	0	29.56	36	5.9	9.2	17	N	13.9	95	1	2	13
14	77	57	67	▸ 8	57	0		0	0	0	29.75	05	7.1	8.1	14	SE	5.1	35	10	8	14
15	62	56	59	▸ 16	57	6	1	0	1.50	0	29.91	06	9.7	10.4	18	NE	0.0	0	10	10	15
16	59	54	57	▸ 19	54	8	1	0	.81	0	29.93	04	11.8	12.1	17	NE	0.0	0	10	10	16
17	61	54	58	▸ 18	53	7	1 8	0	.01	0	29.96	01	7.2	7.8	10	N	0.2	1	10	10	17
18	71	50	61	▸ 15	49	4	1 8	0	0	0	29.89	35	6.8	7.8	16	N	12.9	88	3	3	18
19	79	50	65	▸ 11	51	0	8	0	T	0	29.79	33	6.4	8.8	17	N	13.2	90	3	3	19
20	85	56	71	▸ 6	55	0		0	0	0	29.80	25	4.4	6.2	9	NW	14.3	97	1	2	20
21	88	61	75	▸ 2	59	0		0	0	0	29.81	23	6.9	7.6	15	SW	13.4	91	3	3	21
22	90	66	78	1	64	0	8	0	0	0	29.90	21	5.6	6.6	12	SW	11.9	80	5	3	22
23	91	67	79	2	67	0	8	0	0	0	29.89	22	7.4	7.8	16	SW	14.4	98	2	1	23
24	84	68	76	▸ 1	67	0	3 8	0	T	0	29.78	26	1.7	6.8	11	N	3.2	21	9	8	24
25	75	64	70	▸ 8	57	0	8	0	.33	0	29.92	05	5.7	8.2	15	NW	4.8	32	9	8	25
26	79	60	70	▸ 8	52	0	1	0	0	0	30.16	07	8.5	9.4	17	E	12.2	83	2	3	26
27	81	57	69	▸ 9	56	0		0	0	0	30.29	11	4.0	6.3	10	SE	9.7	65	7	5	27
28	90	62	76	▸ 2	65	0	1 8	0	0	0	30.12	22	6.1	6.8	13	W	12.7	86	4	2	28
29	92*	71	82	4	68	0		0	.03	0	29.90	25	5.3	8.1	30	NW	12.7	86	5	4	29
30	90	68	79	1	67	0	1 8	0	.15	0	29.79	29	4.0	8.3	35	N	8.8	60	7	7	30
	Sum 2427	Sum 1814	—	—	—	Total 34	Dep. 34	Temperature: Number of days	Total 3.39	Total 0	For the month: 29.89	22	1.1	8.0	35	N	Total 263.7	% for month	Sum 184	Sum 162	
	Avg. 80.9	Avg. 60.5	Avg. 70.7	Dep. ▸ 4.4	Avg. 60	Season to date Total 4161	Dep. 296	Max. ≤32° 0	Max. ≥90° 7	Min. ≤32° 0	Min. ≤0° 0	Dep. -0.36	—	—	—	—	Date: 30	Possible 441.2	Avg. 60	Avg. 6.1	5.4

Greatest in 24 hours and dates		Greatest depth on ground of snow, sleet or ice and date
Precipitation	Snow, Sleet	
2.14	15-16	0

* Extreme for the month.
T In columns 9, 10, and 11 and in the Hourly Precipitation table indicates an amount too small to measure.
X Heavy fog - visibility 1/4 mile or less.

HOURLY PRECIPITATION (In.)

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																								.03	2
3									T	T	T		T	.03	.01	T									3
4																									4
5																									5
6																									6
7																									7
8													T	.04			T								8
9					.01			T	T	.01	.04	.04	T	T	T										9
10																							.27	T	10
11																					T	T	.08	T	11
12																									12
13																									13
14																									14
15					T	T	.02	.08	.13	.09	.17	.40	.07	.15	.07	.03	T	.02	.02	.04	.05	.06	.04	.06	15
16	.07	.16	.16	.07	.05	.07	.08	.05	.02	.02	T	T	T	.01	T	.01	T	.01	T	.02	.01	T	T		16
17					T	T	T		T	T	T		T	.01	T	T									17
18																									18
19																							T		19
20																									20
21																									21
22																									22
23																									23
24														T	T	T								T	24
25	.08	.17	.06	.02																					25
26																									26
27																									27
28																									28
29																.02	.01								29
30																T	.15								30

Data in columns 6, 12, 13, 14, and 15 are obtained from 8 observations per day at 3-hourly intervals. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations; directions are given in tens of degrees from true North. When figures appear in column 17, they indicate directions in tens of degrees from true North (i. e., 09 = East, 27 = West) and the associated speed in column 16 is the fastest observed one-minute wind speed. If / follows direction (Col. 17), speeds are gusts. Corrections, if any, to data in this issue will be published in the annual issue.

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William H. Haggard
Acting Director of National Weather Records Center

AVERAGES BY HOURS

Hour (Local time)	Sky cover (In tenths)	Station press. (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	4	29.89	65	62	85	60	6.9	21	1.6
04	5	29.89	62	61	90	59	5.8	22	1.5
07	5	29.91	66	63	84	61	8.1	26	1.7
10	6	29.92	74	66	66	61	9.2	30	.8
13	7	29.89	78	67	57	60	9.2	29	2.0
16	7	29.87	78	67	59	60	10.4	19	.7
19	6	29.87	74	66	66	61	6.9	16	2.5
22	5	29.89	67	63	81	61	6.9	17	2.2

USCOMM-WB-Asheville, N.C. 300

OBSERVATIONS AT 3-HOUR INTERVALS.

HOUR	SKY COVER (Tenths)	CEILING (Hnds. of ft.)	VISIBILITY WHOLE NOS.	VISIBILITY FRACS.	WEATHER	DRY BULB (°F)	WET BULB (°F)	REL. HUM. (%)	DEW PT. (°F)	WIND DIR.	WIND SPEED (Knots)
DAY 01											
01	0	UNL	10			62	59	84	57	18	7
04	6	CIR	10			62	60	87	58	21	6
07	4	UNL	6		H	65	62	84	60	21	8
10	3	UNL	6		H	77	68	62	63	27	7
13	6	40	7			84	68	43	59	25	8
16	10	CIR	8			84	69	44	60	25	10
19	8	UNL	10			79	68	54	61	22	5
22	2	UNL	10			70	65	76	62	20	7
DAY 02											
01	0	UNL	10			67	64	84	62	18	6
04	3	UNL	7			66	64	90	63	21	7
07	5	UNL	4		H	70	67	84	65	22	9
10	8	CIR	6		H	80	70	60	65	23	10
13	2	UNL	8			89	71	39	61	23	13
16	3	UNL	7			89	71	39	61	23	12
19	8	CIR	10			82	69	51	62	20	10
22	10	80	12			76	68	64	63	19	9
DAY 03											
01	10	80	8			68	65	87	64	18	4
04	8	80	8			69	66	87	65	30	4
07	10	80	8			70	66	79	63	29	7
10	10	7	2		LF	62	61	93	60	01	10
13	10	12	6		RH	61	59	87	57	03	12
16	10	12	2		H	59	58	93	57	03	7
19	10	80	4		H	59	58	93	57	06	5
22	8	120	4		H	57	56	96	56	02	4
DAY 04											
01	0	UNL	2		GF	54	54	100	54	36	4
04	0	UNL	2		GF	52	52	100	52	36	4
07	6	30	5		GF	54	53	93	52	01	7
10	8	25	7			64	59	75	54	05	5
13	7	50	12			70	59	49	50	05	5
16	5	UNL	10			70	58	46	48	09	5
19	2	UNL	10			66	57	54	49	10	6
22	0	UNL	10			55	50	83	48	14	5
DAY 05											
01	0	UNL	10			50	48	86	46	13	3
04	0	UNL	10			47	46	89	44	22	3
07	4	UNL	6		H	56	52	78	49	27	4
10	3	UNL	7			68	56	44	45	14	4
13	7	UNL	10			73	59	41	48	08	3
16	4	UNL	10			74	61	39	49	25	4
19	5	UNL	7			70	60	53	52	17	5
22	5	UNL	8			59	53	65	47	15	4
DAY 06											
01	0	UNL	8			55	52	80	49	16	4
04	0	UNL	7			53	52	93	51	16	4
07	0	UNL	7			61	58	84	56	19	7
10	0	UNL	7			75	65	56	58	19	8
13	0	UNL	7			82	69	49	61	18	8
16	3	UNL	7			83	69	49	62	18	8
19	0	UNL	7			79	68	56	62	17	6
22	0	UNL	7			68	63	76	60	17	4
DAY 07											
01	0	UNL	7			66	64	87	62	18	6
04	0	UNL	7			64	63	97	63	17	4
07	0	UNL	6		GFH	70	69	93	68	20	7
10	3	UNL	8			81	73	67	69	22	7
13	4	40	10			84	73	57	67	21	12
16	6	CIR	12			87	72	46	64	16	7
19	5	UNL	10			81	72	65	68	17	6
22	0	UNL	10			74	69	79	67	17	7
DAY 08											
01	0	UNL	10			72	69	84	67	18	8
04	5	UNL	8			70	68	90	67	20	9
07	5	UNL	8			73	70	87	69	20	9
10	9	UNL	12			83	74	65	70	22	10
13	8	35	12			87	75	57	70	21	6
16	9	80	8			77	74	88	73	19	15
19	9	80	10			76	73	87	72	21	11
22	3	UNL	12			72	70	90	69	20	8
DAY 09											
01	6	UNL	8			70	69	93	68	20	9
04	8	100	8			68	67	97	67	21	7
07	10	8	7			71	70	97	70	21	8
10	10	14	7		RW	73	72	97	72	20	7
13	10	80	6		RW	73	72	97	72	20	7
16	9	80	10			79	74	79	72	19	12
19	10	80	10			76	72	82	70	18	8
22	0	UNL	12			70	69	97	69	18	5
DAY 10											
01	4	UNL	7			70	69	97	69	22	4
04	10	4	4		F	68	68	100	68	21	6
07	10	4	4		F	70	70	100	70	22	5
10	10	CIR	6		H	79	73	74	70	26	6
13	7	UNL	7			89	75	50	68	24	4
16	7	CIR	7			90	74	49	66	22	8
19	7	UNL	7			84	72	55	66	22	5
22	10	50	10		T	71	68	87	67	04	10
DAY 11											
01	9	90	7			70	69	97	69	24	3
04	8	UNL	4		GF	68	68	100	68	35	3
07	9	UNL	2		GF	70	70	100	70	36	7
10	10	CIR	5		H	77	72	76	69	09	6
13	10	CIR	5		H	82	71	56	65	21	7
16	10	CIR	4		H	82	73	63	68	21	6
19	10	100	4		H	77	71	74	68	16	7
22	10	35	6		RWH	73	70	84	68	23	7
DAY 12											
01	10	6	4		F	70	69	97	69	21	12
04	10	7	4		F	70	69	97	69	22	6
07	10	25	5		F	70	69	97	69	23	5
10	10	19	8			75	72	87	71	19	8
13	10	70	10			77	74	85	72	19	6
16	10	30	10			78	74	82	72	17	6
19	10	100	10			75	73	90	72	18	6
22	9	CIR	10			71	70	97	70	23	5
DAY 13											
01	5	UNL	8			71	70	97	70	26	4
04	10	80	8			69	68	97	68	25	6
07	2	UNL	6		GF	71	69	90	68	33	7
10	0	UNL	10			78	65	49	57	36	12
13	1	UNL	10			82	65	40	55	36	14
16	0	UNL	15			82	64	34	51	04	12
19	0	UNL	15			75	61	42	50	05	6
22	3	UNL	15			64	57	63	51	11	3
DAY 14											
01	5	UNL	12			61	58	81	55	36	4
04	2	UNL	8			57	55	87	53	36	4
07	10	50	8			61	57	78	54	05	7
10	10	40	10			68	61	66	56	06	7
13	10	30	10			74	65	60	59	03	10
16	10	100	10			74	66	64	61	06	10
19	9	CIR	10			70	63	68	59	07	8
22	7	UNL	10			63	60	84	58	10	6
DAY 15											
01	10	100	8			62	60	87	58	06	6
04	10	80	8			62	60	87	58	06	6
07	10	40	3		R	61	59	90	58	10	8
10	10	40	2		R	58	57	97	57	08	12
13	10	8	2		RF	56	55	96	55	07	6
16	10	6	1		RF	58	57	97	57	05	13
19	10	6	1		RF	57	57	100	57	05	10
22	10	9	5		RF	57	57	100	57	03	11
DAY 16											
01	10	7	5		RF	56	56	100	56	05	14
04	10	7	4		RF	54	53	96	53	05	13
07	10	7	4		RF	55	54	96	54	04	11
10	10	8	7		R	57	56	93	55	03	10
13	10	11	3		RF	58	56	90	55	03	8
16	10	9	2		RF	58	56	90	55	03	9
19	10	6	1		BLF	56	55	93	54	02	11
22	10	6	6		LF	55	53	90	52	01	8
DAY 17											
01	10	25	4		F	54	52	86	50	36	8
04	10	16	4		F	54	52	86	50	35	7
07	10	8	3		F	54	52	86	50	01	8
10	10	7	2		LF	56	54	90	53	36	5
13	10	9	2		LF	60	58	87	56	34	9
16	10	14	2		BF	60	58	90	57	05	7
19	10	18	5		H	60	57	84	55	04	5
22	10	80	6		H	58	56	87	54	01	5
DAY 18											
01	10	80	5		H	57	55	87	53	33	5
04	3	UNL	3		GFH	51	50	93	49	35	5
07	3	UNL	4		H	54	51	80	48	36	4
10	0	UNL	10			65	56	54	48	35	10
13	5	UNL	12			70	58	46	48	33	10
16	6	70	15			70	58	46	48	36	12
19	0	UNL	15			65	57	59	50	01	5
22	0	UNL	8			55	52	83	50	21	3
DAY 19											
01	0	UNL	7			53	51	86	49	31	3
04	0	UNL	7			53	50	80	47	32	3
07	2	UNL	5		H	59	53	67	48	33	6
10	4	UNL	10			71	60	49	51	34	10
13	8	50	15			77	62	40	51	34	14
16	3	UNL	15			78	62	38	50	31	12
19	0	UNL	15			75	62	46	53	25	7
22	9	80	15			66	60	68	55	10	6
DAY 20											
01	10	30	7			63	60	84	58	25	6
04	0	UNL	7			59	57	87	55	25	5
07	0	UNL	10			67	59	63	54	31	5
10	0	UNL	12			79	63	41	53	36	5
13	5	UNL	15			84	65	34	53	25	7
16	3	UNL	15			84	65	33	52	23	7
19	0	UNL	15			78	65	49	57	22	5
22	0	UNL	12			66	61	74	58	18	3
DAY 21											
01	0	UNL	7			64	60	78	57	19	6
04	1	UNL	7			62	59	84	57	18	5
07	4	UNL	10			68	62	71	58	24	5
10	5	UNL	8			80	67	51	60	23	4
13	5	UNL	10			88	69	38	59	23	11
16	3	UNL	12			88	68	35	57	23	11
19	1	UNL	12			85	70	46	62	25	5
22	8	CIR	12			76	68	64	63	27	6
DAY 22											
01	0	UNL	10			72	64	64	59	11	5
04	8	100	7			67	63	81	61	23	5
07	8	UNL	10			70	66	79	63	23	5
10	7	UNL	4		H	83	71	55	65	22	4
13	5	UNL	6		H	87	72	48	65	21	7
16	3	UNL	6		H	87	72	48	65	22	9
19	0	UNL	6		H	83	72	59	67	22	5
22	0	UNL	6		H	74	69	79	67	21	6
DAY 23											
01	0	UNL	7			75	69	71	65	22	4
04	0	UNL	7			69	66	87	65	20	6
07	0	UNL	5		H	72	68	82	66	23	6
10	0	UNL	5		H	83	73	61	68	26	5
13	5	UNL	5		H	87	74	53	68	19	7
16	5	UNL	6		H	90	74	47	67	23	8
19	0	UNL	6		H	84	73	57	67	22	7
22	0	UNL	6		H	78	71	69	67	21	11
DAY 24											
01	0	UNL	6		H	74	68	71	64	20	7
04	6	CIR	5		H	70	66	81	64	20	5
07	7	CIR	5		H	72	68	79	65	23	8
10	10	120	5		H	78	71	69	67	24	5
13	10	50	3		H	81	72	65	68	35	8
16	10	50	3		H	78	71	69	67	34	6
19	10	100	3		H	75	71	82	69	09	5
22	10	100	3		H	73	70	87	69	03	3
DAY 25											
01	10	20	2		RWH	66	64	90	63	33	11
04	10	20	5		H	66	64	87	62	06	6
07	10	50	6		H	64	62	87	60	03	10
10	10	80	12			65	58	65	53	04	10
13	5	80	15			68	59	55	52	05	6
16	5	UNL	12			74	61	46	52	12	7
19	6	90	12			70	61	59	55	09	4
22	2	UNL	12			64	60	78	57	12	3
DAY 26											
01	2	UNL	12			63	60	84	58	04	4
04	6	80	7			62	59	84	57	03	5
07	1	UNL	7			64	60	78	57	05	6
10	1	UNL	12			74	60	43	50	04	13
13	1	UNL	15			78	61	36	49	06	11
16	3	UNL	15			77	60	35	47	09	11
19	3	UNL	15			70	57	42	46	09	9
22	3	UNL	15			63	56	63	50	12	4
DAY 27											
01	0	UNL	12			59	54	70	49	03	4
04	3	UNL	12			57	53	75	49	04	3
07	6	70	12			63	57	70	53	08	6
10	8	30	12			72	64	64	59	11	5
13	8	UNL	12			78	66	50	58	06	7
16	7	100	12			79	68	54	61	17	7
19	8	100	12			75	66	60	60	17	7
22	2	UNL	12			66	64	87	62	13	5
DAY 28											
01	0	UNL	5		GF	63	62	93	61	00	
04	0	UNL	6		GF	62	61	97	61	19	4
07	0	UNL	5		GF	67	66	93	65	21	5
10	4	UNL	8			81	72	65	68	21	10
13	6	40	12			87	73	50	66	23	8
16	7	CIR	12			90	72	41	63	27	8
19	0	UNL	12			83	73	61	68	20	6
22	0	UNL	10			75	70	76	67	19	6
DAY 29											
01	0	UNL	10			75	70	79	68	22	7
04	1	UNL	10			72	69	84	67	23	5
07	1	UNL	8			75	70	79	68	24	8
10	3	UNL	10			86	73	53	67	26	8
13	7	UNL	10			91	74	44	66	29	10
16	10	100	7		RW	74	71	84	69	02	8
19	7	CIR	10			78	73	77	70	20	5
22	2	UNL	7			72	69	87	68	23	5
DAY 30											
01	0	UNL	7			73	68	79	66	25	6
04	0	UNL	7			69	67	90	66	22	3
07	3	UNL	5		H	73	69	82	67	25	7
10	6	UNL	6		H	84	74	61	69	24	9
13	10	100	8			86	73	53	67	28	9
16	10	8	6		RWF	70	69	93	68	03	16
19	10	100	6		H	70	67	87	66	36	4
22	10	70	5		GFH	69	68	93	67	27	4

REFERENCE NOTES

CEILING COLUMN-

UNL indicates ceiling unlimited.
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 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