

AUG 1983 13740  
 RICHMOND, VIRGINIA  
 R.E. BYRD INTERNATIONAL AP.

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# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary



NATIONAL WEATHER SERVICE OFC

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FEET TIME ZONE EASTERN WBAN #13740

AUG 1983 RICHMOND, VIRGINIA

DATE	TEMPERATURE °F					DEGREE DAYS BASE 65°F		WEATHER TYPES 1 FOG 2 HEAVY FOG 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 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 177 FEET ABOVE M. S. L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)			DATE	
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)			WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)		RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	FASTEST MILE		MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
1	2	3	4	5	6	7A	7B		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	93	71	82	4	69	0	17	3	0	.05	0	29.91	20	10.3	11.1	20	SW	362	43	8	8	1	
2	86	69	78	0	71	0	13	3	0	T	0	29.96	19	6.5	8.3	12	S	413	49	10	10	2	
3	92	67	80	2	70	0	15		0	0	0	29.98	17	10.1	10.5	17	S	735	87	5	5	3	
4	92	66	79	1	70	0	14	1	0	0	0	29.93	15	7.1	7.5	11	S	504	60	10	8	4	
5	90	70	80	2	72	0	15	1 3	8	.12	0	29.89	08	4.2	7.3	17	NW	450	54	9	8	5	
6	90	68	79	1	70	0	14	1 3	8	.02	0	29.80	34	1.9	3.7	10	N	630	75	4	6	6	
7	93	70	82	4	71	0	17	1	8	0	0	29.74	12	1.5	4.3	14	NW	591	67	6	6	7	
8	93	68	81	3	71	0	16	1	8	0	0	29.72	12	3.9	5.5	10	S	682	82	5	4	8	
9	99	71	85	7	69	0	20	1 3	8	.34	0	29.68	26	3.0	5.6	37	N	485	59	4	5	9	
10	88	65	77	-1	69	0	12		8	0	0	29.80	34	4.1	7.5	13	NE	803	97	3	2	10	
11	98	69	84	6	71	0	19	1	8	.05	0	29.66	19	6.4	7.5	31	NW	551	67	8	9	11	
12	85	64	75	-2	64	0	10	1		.02	0	29.63	29	7.5	9.9	21	N	544	66	8	7	12	
13	68	59	64*	-13	59	1	0			T	0	29.88	35	7.8	8.3	14	NE	135	16	10	8	13	
14	78	53	66	-11	53	0	1			0	0	29.98	36	7.1	7.9	16	NE	819	100	2	2	14	
15	81	51*	66	-11	54	0	1			0	0	29.99	03	3.3	4.5	9	NE	817	100	5	3	15	
16	86	57	72	-5	59	0	7			0	0	29.98	09	3.4	5.2	11	SE	815	100	2	1	16	
17	92	61	77	0	64	0	12	1	8	0	0	29.88	19	7.0	8.6	14	W	702	86	2	2	17	
18	91	70	81	4	70	0	16	1	8	.17	0	29.76	22	7.0	8.3	17	SW	205	25	9	9	18	
19	92	70	81	4	72	0	16	1	8	0	0	29.78	33	5.6	7.3	14	N	689	85	3	4	19	
20	102	67	85	9	69	0	20	1 3	8	0	0	29.77	23	6.6	7.6	13	H	714	88	4	4	20	
21	94	69	82	6	63	0	17			0	0	29.81	02	5.7	7.5	12	N	804	100	0	0	21	
22	102*	68	85*	9	71	0	20	3	8	.10	0	29.76	19	5.9	8.6	29	NW	709	88	3	3	22	
23	88	71	80	4	73	0	15	1 3	8	T	0	29.85	05	5.4	7.5	15	NE	557	70	8	7	23	
24	84	65	75	-1	66	0	10	1	8	0	0	30.06	06	8.4	9.2	15	NE	580	73	9	8	24	
25	85	60	73	-3	60	0	8			0	0	30.11	06	6.5	8.1	15	NE	796	100	1	1	25	
26	88	57	73	-3	59	0	8			0	0	30.01	06	1.4	4.8	9	SE	782	99	4	4	26	
27	94	63	79	4	66	0	14			0	0	29.84	17	7.7	8.5	12	S	791	100	3	4	27	
28	92	70	81	6	72	0	16	1 3	8	T	0	29.73	17	3.8	7.3	18	SE	482	61	8	7	28	
29	89	71	80	5	72	0	15	1	8	T	0	29.67	35	6.1	6.3	15	NE	596	76	8	7	29	
30	88	65	77	2	68	0	12	1	8	0	0	29.75	08	3.2	6.6	9	E	628	80	3	2	30	
31	92	67	80	5	68	0	15	1 3	8	.10	0	29.71	15	4.6	6.8	29	N	416	53	9	8	31	
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
2785	2032					1	405			97	0	29.84	15	1.0	7.3	37	N	18787	for	173	162		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION		DEP.						DATE: 09	POSSIBLE	MONTH	AVG.	AVG.			
89.8	65.5	77.7	0.9	67		1	39	> .01 INCH	9	-4.04							25250	74	5.6	5.2			
NUMBER OF DAYS					SEASON TO DATE		SNOW, ICE PELLETS > 1.0 INCH		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE										
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL		TOTAL		THUNDERSTORMS	10	PRECIPITATION	SNOW, ICE PELLETS												
5 90°	2 32°	2 32°	2 0°	1	1313	0	0	HEAVY FOG	0	.34	9	0											
18	0	0	0	1	180	CLEAR	10	PARTLY CLOUDY	8	CLOUDY	13												

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 † TRACE AMOUNT.  
 + ALSO ON EARLIER DATE(S).  
 HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.  
 BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 7 OR MORE OBSERVATIONS AT 3-HOUR INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

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OBSERVATIONS AT 3-HOUR INTERVALS

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Table with 32 columns and 192 rows. Columns represent meteorological data for 24 hours across 14 days (DAY 01 to DAY 18). Rows represent 3-hour intervals (01, 04, 07, 10, 13, 16, 19, 22 L.S.T.).

WEATHER CODES

- \* TORNADO
T THUNDERSTORM
Q SQUALL
R RAIN
RW RAIN SHOWERS
ZR FREEZING RAIN
L DRIZZLE
ZL FREEZING DRIZZLE
S SNOW
SW SNOW SHOWERS
SG SNOW GRAINS
SP SNOW PELLETS
IC ICE CRYSTALS
IP IC ICE PELLETS
IPW ICE PELLET SHOWERS
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

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: 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. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

# OBSERVATIONS AT 3-HOUR INTERVALS

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HOUR L.S.T.	VISI-BILITY			WEATHER	TEMPERATURE				WIND		VISI-BILITY			WEATHER	TEMPERATURE				WIND											
	SKY COVER (TENTHS)	CELLING IN HUNDREDS OF FEET	WHOLE MILES		16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CELLING IN HUNDREDS OF FEET		WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)								
	DAY 19																													
01	10	80	3	FH	73	73	73	100	31	4	1	UNL	3	FH	70	70	70	100	18	4	0	UNL	7		78	73	71	79	00	0
04	10	80	3	FH	72	72	72	100	31	4	1	UNL	2	FH	67	67	67	100	20	3	0	UNL	7		80	73	70	72	35	10
07	3	UNL	2	FH	75	74	73	94	32	9	1	UNL	2	FH	71	71	71	100	18	4	0	UNL	10		78	68	63	60	01	8
10	2	UNL	2	H	83	77	74	74	34	8	2	UNL	2	H	91	77	71	52	23	9	0	UNL	15		83	69	61	48	08	7
13	5	UNL	2	H	88	77	72	59	32	10	0	UNL	3	H	98	79	71	42	26	10	0	UNL	15		89	71	61	39	01	10
16	4	UNL	2	H	91	76	70	50	35	8	6	UNL	6	H	100	78	68	35	26	9	0	UNL	15		93	71	59	32	02	7
19	1	UNL	3	H	85	75	70	61	01	3	10	UNL	6	H	93	77	70	47	20	8	1	UNL	15		85	68	58	40	01	6
22	1	UNL	3	H	73	71	70	90	13	5	10	UNL	8	H	84	73	67	57	23	6	1	UNL	12		71	67	64	79	16	4
	DAY 20																													
	DAY 21																													
	DAY 22																													
	DAY 23																													
	DAY 24																													
	DAY 25																													
	DAY 26																													
	DAY 27																													
	DAY 28																													
	DAY 29																													
	DAY 30																													
	DAY 31																													

RICHMOND VA

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## SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES				RESULTANT WIND		
			TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	5	29.84	69	68	67	94	5.2	17	2.6
04	4	29.83	67	66	66	95	5.0	20	1.0
07	5	29.86	69	68	67	94	6.8	31	.6
10	5	29.88	81	72	68	67	8.9	22	.8
13	6	29.84	87	73	67	52	10.0	24	.8
16	7	29.80	86	73	66	53	9.6	07	1.5
19	5	29.81	78	71	67	69	8.0	11	2.5
22	5	29.84	72	69	68	87	5.3	14	2.9

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

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DATE	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1					T	T						T		T	T	.01	.04	T	T	T		T	T		1
2																					T	T			2
3																									3
4																									4
5																	.11	.01	T	T					5
6	.02	T																							6
7																									7
8																									8
9																	.34	T							9
10																									10
11		T	T																			T	T		11
12	.02	T																						.05	12
13													T	T											13
14																									14
15																									15
16																									16
17																									17
18																									18
19										.01	T	T					.13								19
20												.03		T											20
21																									21
22																		.06	.04						22
23																		T	T						23
24																									24
25																									25
26																									26
27																									27
28																									28
29			T	T																					29
30																									30
31																	T	.03	.07					T	31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	00.12	00.23	00.34	00.34	00.34	00.34	00.34	00.34	00.34	00.34	00.34	00.34
ENDED: DATE	09	09	09	09	09	09	09	09	09	09	09	09
ENDED: TIME	1625	1625	1627	1627	1627	1627	1627	1627	1627	1627	1627	1627

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

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