

# 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

DEC 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 MINUTES	SKY COVER (TENTHS)				
	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		PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
1	53	31	42	-2	25	23	0		0	T	0	29.97	29	5.7	8.9	20	NW	530	90	1	2	1
2	46	25	36	-7	25	29	0		0	.01	0	30.04	15	3.4	4.6	10	S	365	62	7	6	2
3	45	38	42	-1	36	23	0	1	8	.19	0	29.88	03	5.3	9.8	17	NE	0	0	10	10	3
4	55	37	46	3	40	19	0	1		.82	0	29.60	27	3.3	9.9	18	NW	197	34	7	7	4
5	55	34	45	3	38	20	0	2	8	0	0	29.85	08	3.1	3.6	8	E	400	69	5	4	5
6	63*	42	53	11	47	12	0	1		.49	0	29.48	18	9.1	15.1	29	W	0	0	10	9	6
7	45	26	36	-6	19	29	0		0	0	0	29.76	25	13.6	14.7	22	W	581	100	0	0	7
8	47	25	36	-6	22	29	0		0	0	0	29.97	22	2.8	4.8	14	W	390	67	5	4	8
9	49	23	36	-5	26	29	0	1	8	0	0	30.16	17	5.1	5.3	14	SW	456	79	8	6	9
10	60	32	46	5	34	19	0		8	.02	0	30.17	23	.9	5.5	8	NW	578	100	0	2	10
11	53	35	44	3	38	21	0	1	8	0	0	30.19	05	11.1	11.7	19	E	413	71	8	7	11
12	60	48	54*	13	52	11	0	1		1.21	0	29.67	03	7.1	12.9	20	N	0	0	10	10	12
13	52	45	49	9	46	16	0	1		.09	0	29.43	31	11.3	12.2	20	NW	0	0	10	9	13
14	57	37	47	7	43	18	0	1		T	0	29.47	19	8.4	9.1	20	SW	225	39	9	7	14
15	55	37	46	6	41	19	0			.03	0	29.66	18	11.3	11.5	17	SW	235	41	9	6	15
16	53	33	43	3	26	22	0			0	0	30.00	22	9.2	9.8	19	SW	576	100	3	3	16
17	48	30	39	0	26	26	0			0	0	30.25	01	3.2	5.2	10	NW	524	91	3	4	17
18	46	26	36	-3	25	29	0			0	0	30.27	03	4.6	5.0	10	NE	574	100	3	3	18
19	38	26	32	-7	19	33	0	1		0	0	30.13	35	13.0	13.1	22	N	575	100	8	8	19
20	28	24	26	-13	9	39	0			0	0	30.35	01	11.3	11.5	17	NE	454	79	10	10	20
21	34	24	29	-10	19	36	0	1		.05	T	30.43	01	9.9	10.1	14	NE	368	64	10	10	21
22	52	34	43	5	39	22	0	1		.80	0	29.85	23	5.4	10.1	17	W	265	46	10	9	22
23	38	29	34	-4	19	31	0			0	0	29.96	01	4.9	5.9	13	N	429	75	9	9	23
24	31	6	19	-19	4	46	0			0	0	29.69	29	12.0	15.0	38	NW	453	79	6	6	24
25	14	3*	9*	-29	-15	56	0			0	0	29.97	27	13.9	14.4	20	W	575	100	0	0	25
26	23	6	15	-23	-6	50	0			0	0	30.11	21	4.9	6.6	10	W	575	100	0	1	26
27	38	20	29	-9	11	36	0	4		T	T	30.09	17	7.5	8.6	11	S	445	77	9	9	27
28	39	32	36	-2	28	29	0	1	6 8	.79	0	29.78	19	3.0	6.6	14	SW	0	0	10	10	28
29	41	28	35	-2	29	30	0	1		0	0	29.84	33	7.7	12.1	19	N	28	5	10	10	29
30	28	15	22	-15	4	43	0			0	0	30.35	33	14.6	14.8	24	N	576	100	2	3	30
31	32	13	23	-14	5	42	0			0	0	30.44	34	8.4	8.8	14	N	577	100	0	0	31
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM			
1378	864					887	0			4.50	T	29.96	30	2.2	9.6	38	NW	11364	FOR	192	184	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	AVG.	DEP.	PRECIPITATION		DATE: 24	POSSIBLE	MONTH	AVG.	AVG.								
44.5	27.9	36.2	-3.7	25	1.09	0	0	> .01 INCH. 11		1.11								17905	63	6.2	5.9	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF								
						TOTAL	TOTAL	> 1.0 INCH						SNOW, ICE PELLETS OR ICE AND DATE								
MAXIMUM TEMP.						1685	1547	THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS										
> 90°						< 32°	< 0°	HEAVY FOG		1	1.26	12-13	T	27+		0						
0						6	20	0	179	211	CLEAR	10	PARTLY CLOUDY	5	CLOUDY	16						

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 T 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.

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 DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

*L. Ray Hoxit*

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

ACTING DIRECTOR NATIONAL CLIMATIC DATA CENTER

NOTE: IF THE NOVEMBER ISSUE HAS NOT BEEN RECEIVED, IT IS BECAUSE IT IS BEING PRINTED UNDER GPO CONTRACT AND WILL BE MAILED WHEN IT IS AVAILABLE.

# OBSERVATIONS AT 3-HOUR INTERVALS

DEC 1983 13740  
RICHMOND, VIRGINIA

HOUR L.S.T.	VISI-BILITY				TEMPERATURE				WIND				SKY COVER (TENTHS)	VISI-BILITY				TEMPERATURE				WIND																										
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET		WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																	
	DAY 01																DAY 02																DAY 03															
01	0	UNL	12		36	32	26	67	00	0	0	UNL	15		30	26	18	61	02	4	10	38	7		R	45	42	39	80	20	9																	
04	8	60	12		39	34	27	62	23	8	0	UNL	15		26	25	22	85	00	0	10	40	7			45	43	40	83	18	6																	
07	10	55	12		40	35	27	60	31	3	3	UNL	8		25	24	20	81	00	0	10	40	7			44	42	40	86	35	5																	
10	0	UNL	15		48	39	26	42	28	13	8	UNL	8		38	32	22	53	13	6	10	45	6		H	45	41	36	71	02	15																	
13	2	UNL	15		52	41	24	34	26	12	10	250	10		45	38	27	49	18	7	10	38	10			45	39	32	60	04	12																	
16	0	UNL	15		52	40	22	31	28	8	10	100	10		46	38	27	48	16	5	10	38	10			43	38	31	63	03	9																	
19	0	UNL	15		41	34	23	49	02	9	10	60	10		43	38	30	60	13	4	10	38	10			40	37	33	76	05	5																	
22	0	UNL	15		34	30	21	59	01	9	10	38	8		43	40	35	73	16	6	10	25	4		RF	38	37	35	89	02	7																	
	DAY 04																DAY 05																DAY 06															
01	10	12	3		RF	38	37	35	89	03	8	0	UNL	10		40	39	38	93	00	0	10	13	7			43	42	40	89	12	7																
04	10	4	3		RF	38	38	37	96	03	8	0	UNL	6		36	36	35	96	00	0	10	10	8			46	45	44	93	13	10																
07	10	3	6		RF	40	40	39	96	31	12	8	8	0		34	34	33	96	00	0	10	7	5		RF	47	46	45	93	12	14																
10	10	4	4		F	40	39	37	89	26	8	1	UNL	5		45	43	40	83	07	6	10	4	1		RF	49	48	48	96	14	13																
13	4	UNL	10			48	45	42	80	21	10	10	30	10		50	45	40	69	08	4	10	7	7			56	55	54	93	18	13																
16	6	45	12			55	49	44	67	21	11	1	UNL	10		54	48	42	64	15	4	10	10	10			60	58	57	90	17	11																
19	10	33	15			53	49	45	74	21	7	0	UNL	10		44	42	40	86	09	5	8	23	5		RW	60	57	55	84	25	22																
22	0	UNL	15			46	44	42	86	36	5	8	250	8		42	40	38	86	06	6	3	UNL	15			50	47	42	50	25	15																
	DAY 07																DAY 08																DAY 09															
01	0	UNL	15		43	36	26	51	23	17	0	UNL	20		26	24	19	75	17	5	0	UNL	10			27	26	22	81	00	0																	
04	0	UNL	15		38	32	22	53	25	17	5	UNL	7		30	27	20	66	00	0	0	UNL	7			27	26	23	85	00	0																	
07	0	UNL	15		36	31	21	55	26	13	9	80	20		29	27	22	75	15	5	6	UNL	5		F	24	23	21	88	00	0																	
10	1	UNL	15		39	32	19	45	26	14	9	60	15		34	30	24	67	16	4	10	250	4		H	36	33	28	73	20	5																	
13	0	UNL	20		43	33	16	34	27	13	3	UNL	15		45	36	23	42	23	7	10	250	8			46	48	48	17	9																		
16	0	UNL	20		42	32	14	32	27	13	1	UNL	15		46	37	22	39	28	6	4	UNL	12			48	39	27	44	16	12																	
19	0	UNL	20		35	29	16	46	23	10	0	UNL	15		35	31	25	67	00	0	3	UNL	15			37	33	26	65	16	7																	
22	0	UNL	20		29	25	16	58	17	5	0	UNL	15		37	32	24	59	28	6	10	80	10			39	35	30	70	19	4																	
	DAY 10																DAY 11																DAY 12															
01	10	38	8		RW	40	37	33	76	18	3	3	UNL	8		39	37	34	82	04	7	10	5	4		RF	50	49	48	93	07	11																
04	3	UNL	8			36	34	32	85	17	3	2	UNL	6		38	36	34	86	03	8	10	4	3		F	52	51	51	96	07	11																
07	0	UNL	7			33	32	30	89	17	4	0	UNL	5		36	35	33	89	02	9	10	4	2		RF	54	53	53	96	08	10																
10	0	UNL	7			46	41	34	63	23	6	6	UNL	5		43	40	35	73	03	8	10	10	2		LF	60	59	58	93	13	11																
13	0	UNL	8			58	47	35	42	27	5	10	250	7		52	47	41	66	06	14	10	7	2		F	60	59	58	93	30	14																
16	0	UNL	10			58	47	34	41	31	6	9	45	8		50	44	38	64	07	12	10	5	7		L	55	54	54	96	35	8																
19	6	UNL	10			47	42	36	66	04	7	10	23	8		48	45	42	80	06	12	10	4	5		RF	51	50	49	93	36	15																
22	3	UNL	10			42	39	34	73	08	4	10	12	8		48	46	43	83	06	11	10	6	5		RF	50	49	48	93	36	10																
	DAY 13																DAY 14																DAY 15															
01	10	6	7		R	48	47	46	93	30	13	0	UNL	8		43	42	40	89	20	7	6	100	8			51	47	44	77	17	6																
04	10	5	5		RLF	47	46	45	93	32	13	2	UNL	7		39	38	36	89	17	5	10	46	6		R	52	49	47	83	18	11																
07	10	6	2		RLF	47	46	45	93	32	15	10	UNL	7		39	38	36	89	17	6	10	46	10			49	46	44	83	16	9																
10	10	9	7		RL	47	46	45	93	31	12	8	250	7		45	43	41	86	18	8	10	100	10			49	46	43	80	18	12																
13	10	12	7		RL	50	48	46	86	31	14	8	14	8		51	48	45	80	20	12	9	80	10			52	48	43	72	19	13																
16	10	35	8			51	49	48	90	33	8	10	30	8		56	51	47	72	16	9	7	UNL	10			54	48	41	62	18	11																
19	10	30	8			50	48	47	89	24	5	8	23	8		54	52	50	86	15	5	0	UNL	10			46	41	34	63	19	8																
22	7	30	8			50	47	43	77	26	5	8	100	8		55	52	50	83	22	11	0	UNL	10			43	38	30	60	20	10																
	DAY 16																DAY 17																DAY 18															
01	0	UNL	12		36	33	28	73	18	8	10	60	10		38	34	28	67	02	8	0	UNL	8			31	30	27	85	34	5																	
04	0	UNL	12		38	34	29	70	21	9	10	38	10		37	33	27	67	33	4	0	UNL	7			30	28	23	75	04	3																	
07	1	UNL	12		34	32	28	79	20	7	10	40	10		37	33	25	62	10	3	1	UNL	7			27	25	21	78	00	0																	
10	0	UNL	20		45	39	30	56	24	10	3	UNL	10		41	34	23	49	05	6	4	UNL	8			34	30	24	67	06	5																	
13	2	UNL	20		53	41	24	32	23	15	0	UNL	15		47	38	26	44	28	5	3	UNL	10			44	38	28	53	03	6																	
16	7	UNL	20		51	40	23	33	24	14	2	UNL	15		47	38	25	42	30	3	0	UNL	10			45	38	27	49	05	5																	
19	0	UNL	20		43	35	23	45	24	5	1	UNL	12		37	33	27	67	06	3	3	UNL	10			37	33	26	65	04	7																	
22	7	100	15		36	32	26	67	00	0	1	UNL	12		32	30	27	82	03	4	7	50	10			34	31	27	76	02	4																	

## WEATHER CODES

- |                  |                     |                        |                  |
|------------------|---------------------|------------------------|------------------|
| * TORNADO        | ZL FREEZING DRIZZLE | IPW ICE PELLET SHOWERS | BN BLOWING SAND  |
| T THUNDERSTORM   | S SNOW              | A HAIL                 | BS BLOWING SNOW  |
| Q SQUALL         | SW SNOW SHOWERS     | F FOG                  | BY BLOWING SPRAY |
| R RAIN           | SG SNOW GRAINS      | IF ICE FOG             | K SMOKE          |
| RW RAIN SHOWERS  | SP SNOW PELLETS     | GF GROUND FOG          | H HAZE           |
| ZR FREEZING RAIN | IC ICE CRYSTALS     | BD BLOWING DUST        | D DUST           |
| L DRIZZLE        | IP ICE PELLETS      |                        |                  |

CEILING: UNL INDICATES UNLIMITED  
 WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS



# HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DEC 1983 13740  
RICHMOND, VIRGINIA

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																									1	
2																										2
3	T	T	T																							3
4	.19	.19	.08	.06	.04	.01	.03	T	T	T	T															4
5																										5
6																										6
7																										7
8																										8
9																										9
10	.01	.01	T																							10
11																										11
12	T	T																								12
13	.02	.02	T	.01	T	.11	.09	.01	T	.01	T	.04	T	T	T	T	.03	.06	.16	.20	.18	.15	.12	.05	13	
14																										14
15																										15
16																										16
17																										17
18																										18
19																										19
20																										20
21																										21
22	.06	.02	.10	.12	.21	.16	.11	.02	T	T	T															22
23																										23
24																										24
25																										25
26																										26
27																										27
28																										28
29																										29
30																										30
31																										31

## MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	00.08	00.10	00.11	00.12	00.20	00.21	00.23	00.29	00.37	00.38	00.45	00.54
ENDED: DATE	21	21	21	21	04	04	04	04	04	21	21	21
ENDED: TIME	1700	1705	1710	1712	0530	0545	0600	0205	0200	1748	1818	1848

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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