

# LOCAL CLIMATOLOGICAL DATA Monthly Summary



R.E. BYRD INTERNATIONAL AP.

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

FEB 1987  
 RICHMOND, VA

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 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 177 FEET ABOVE M.S.L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)					
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE D Dew POINT	HEATING I SEASON BEGINS WITH JUL 7A			COOLING I SEASON BEGINS WITH JAN 7B	WATER EQUIVALENT (INCHES)		SNOW, ICE PELLETS (INCHES)	RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	FASTEST MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
01	46	20	33	-4	22	32	0	4	0.00	0.0	29.780	21	3.8	6.0	14	S	12	20	490	79	8	6	
02	46	33	40	3	31	25	0	2	0.01	0.0	29.520	21	6.3	7.0	21	S	12	21	79	13	10	9	
03	58	28	43	6	33	22	0	1	0.00	0.0	29.620	28	5.2	7.8	18	NW	15	29	624	100	7	4	
04	50	28	39	2	27	26	0	1	0.00	0.0	30.000	30	3.8	5.8	16	W	12	01	546	87	6	5	
05	45	27	36	-1	19	29	0	1	0.00	0.0	30.270	03	5.2	7.0	17	N	13	04	562	89	8	5	
06	53	24	39	2	23	26	0	0	0.00	0.0	30.060	18	4.3	4.9	12	S	8	16	553	88	10	8	
07	57	32	45*	8	25	20	0	0	0.00	0.0	29.705	01	4.4	5.8	16	N	12	03	505	80	6	5	
08	61*	26	44	6	26	21	0	0	0.00	0.0	29.420	23	5.8	14.2	40	NW	28	30	533	84	6	5	
09	38	26	32	-6	7	33	0	0	0.00	0.0	29.690	33	19.2	19.5	48	NW	32	32	520	82	5	4	
10	49	22	36	-2	7	29	0	0	0.00	0.0	29.955	27	8.1	9.8	28	W	16	27	608	95	6	3	
11	54	23	39	1	19	26	0	0	0.00	0.0	29.930	20	2.0	3.6	14	SW	9	18	495	77	9	5	
12	58	30	44	6	32	21	0	1	0.08	0.0	29.580	28	3.4	9.6	37	NW	18	30	250	39	9	9	
13	51	28	40	2	22	25	0	0	0.00	0.0	29.790	01	3.6	7.5	22	NW	15	32	589	91	2	4	
14	50	26	38	-1	27	27	0	0	0.00	0.0	29.750	09	4.2	5.7	14	E	10	07	401	62	8	7	
15	38	23	31	-8	17	34	0	0	0.00	0.0	29.930	03	10.0	10.3	22	NE	16	05	598	92	4	4	
16	24	19	22*	-17	11	43	0	4	0.23	2.4	29.950	03	12.4	12.7	26	N	18	04	0	0	10	10	
17	37	24	31	-8	20	34	0	1	0.49	2.9	29.760	02	13.1	13.4	31	N	21	02	0	0	10	10	
18	42	27	35	-4	23	30	0	1	0.49	2.9	29.860	34	7.2	7.9	18	N	14	35	461	70	6	6	
19	44	19*	32	-8	16	33	0	3	0.00	0.0	30.130	36	5.0	6.1	20	N	10	36	629	95	3	2	
20	45	21	33	-7	18	32	0	1	0.00	0.0	30.195	35	2.6	3.8	16	NE	10	34	605	92	6	5	
21	46	29	38	-2	21	27	0	1	0.00	0.0	30.020	09	1.8	3.6	10	E	8	09	356	54	10	9	
22	45	25	35	-5	26	30	0	1	0.95	0.95	29.820	08	3.1	6.4	26	NE	16	05	447	67	10	9	
23	51	32	42	2	29	23	0	1	0.30	0.30	29.670	34	14.7	15.1	38	N	25	35	584	87	3	4	
24	49	26	38	-3	24	27	0	0	0.00	0.0	30.095	33	4.9	5.5	21	NW	14	31	598	89	6	5	
25	50	29	40	-1	19	25	0	0	0.00	0.0	30.200	02	7.1	7.6	20	NE	17	03	595	89	6	5	
26	46	25	36	-5	18	29	0	0	0.00	0.0	30.300	02	6.7	7.0	18	N	12	02	528	78	9	7	
27	41	34	38	-4	25	27	0	0	0.00	0.0	30.290	04	6.9	7.1	15	NE	9	05	0	0	10	10	
28	53	35	44	2	40	21	0	1	0.51	0.0	30.040	09	7.9	9.7	24	SE	15	12	0	0	10	10	
SUM	SUM				TOTAL	TOTAL			TOTAL	TOTAL	FOR THE MONTH:								TOTAL	%	SUM	SUM	
132.7	74.1				77.7	0			2.57	5.3	29.905	36	3.4	8.2	48	NW	32	32	12156		FOR	203	175
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.			PRECIPITATION	DEP.					DATE:	9	DATE:	9	POSSIBLE		MONTH	AVG.	AVG.
47.4	26.5	37.0	-1.9	22.3	4.6	0			7	-0.56									18164	67	7.3	6.3	
NUMBER OF DAYS		SEASON TO DATE		TOTAL		TOTAL	SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF										
MAXIMUM TEMP.		MINIMUM TEMP.		31.37		0	THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS		SNOW, ICE PELLETS OR ICE AND DATE										
≥ 90°		≤ 32°		≤ 32°		≤ 0°	HEAVY FOG		1		1.25		22-23		5.3								
0		1		25		0	CLEAR		3		PARTLY CLOUDY		11		CLOUDY 14								

\* 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 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. COLS 16 & 17: PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED. ONE OF TWO WIND SPEEDS IS GIVEN UNDER COLS 18 & 19: 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). ERRORS WILL BE CORRECTED IN SUBSEQUENT PUBLICATIONS.

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NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

*Kenneth D. Wadley*  
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

# OBSERVATIONS AT 3-HOUR INTERVALS

FEB 1987  
RICHMOND, VA 13740

HOUR L. S. T.	VISI-BILITY			TEMPERATURE				WIND		VISI-BILITY			TEMPERATURE				WIND																
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	MET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	MET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)											
FEB 1st																																	
01	0	UNL	10			29	26	20	69	29	5	10	100	10			38	33	26	62	20	8	4	UNL	0	8	F	35	35	35	100	28	4
04	0	UNL	10			24	22	19	81	28	5	10	90	7			37	33	27	67	17	9	0	UNL	3	8	F	31	31	30	96	24	3
07	2	UNL	10			26	24	20	78	29	6	10	45	7	R		37	35	31	79	19	9	2	UNL	3	8	F	30	30	30	100	18	5
10	8	UNL	12			36	31	22	57	16	3	10	60	8			42	37	30	63	22	7	2	UNL	5	8	H	43	40	36	76	20	6
13	8	UNL	10			44	35	21	40	13	4	10	60	7	R		42	37	31	65	21	10	9	UNL	8	8		54	45	34	47	26	11
16	10	250	10			42	35	24	49	19	8	10	40	7			43	38	31	63	15	3	9	UNL	10	10		57	46	33	40	28	10
19	3	UNL	10			39	33	23	53	14	4	10	45	7			40	36	31	70	18	5	7	UNL	10	10		50	42	32	50	33	7
22	9	80	10			38	34	27	65	20	10	2	UNL	7			33	33	32	96	21	6	0	UNL	10	10		40	37	32	73	34	4
FEB 2nd																																	
FEB 3rd																																	
FEB 4th																																	
FEB 5th																																	
FEB 6th																																	
FEB 7th																																	
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FEB 14th																																	
FEB 15th																																	
FEB 16th																																	
FEB 17th																																	
FEB 18th																																	

## WEATHER CODES

- |   |  |   |   |
|---|--|---|---|
| <ul style="list-style-type: none"> <li>* TORNADO</li> <li>T THUNDERSTORM</li> <li>Q SQUALL</li> <li>R RAIN</li> <li>RW RAIN SHOWERS</li> <li>ZR FREEZING RAIN</li> <li>L DRIZZLE</li> </ul> | <ul style="list-style-type: none"> <li>ZL FREEZING DRIZZLE</li> <li>S SNOW</li> <li>SW SNOW SHOWERS</li> <li>SG SNOW GRAINS</li> <li>SP SNOW PELLETS</li> <li>IC ICE CRYSTALS</li> <li>IP ICE PELLETS</li> </ul> | <ul style="list-style-type: none"> <li>IPW ICE PELLET SHOWERS</li> <li>A HAIL</li> <li>F FOG</li> <li>IF ICE FOG</li> <li>GF GROUND FOG</li> <li>BD BLOWING DUST</li> </ul> | <ul style="list-style-type: none"> <li>BN BLOWING SAND</li> <li>BS BLOWING SNOW</li> <li>BY BLOWING SPRAY</li> <li>K SMOKE</li> <li>H HAZE</li> <li>D DUST</li> </ul> |
|---|--|---|---|

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

FEB 1987  
RICHMOND, VA 13740

HOUR L.S.T.	SKY COVER (TENTHS)			TEMPERATURE			WIND			WEATHER	SKY COVER (TENTHS)			TEMPERATURE			WIND			WEATHER	SKY COVER (TENTHS)			TEMPERATURE			WIND		
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
FEB 19th																													
01	0	UNL	10	27	24	19	72	36	6	3	UNL	10	26	24	18	72	35	3	10	70	10		34	30	24	67	00	0	
04	0	UNL	8	22	20	16	78	34	6	0	UNL	8	22	21	17	81	32	3	10	55	8		33	30	24	70	09	4	
07	0	UNL	8	21	19	13	71	01	6	5	UNL	8	23	21	16	75	35	5	10	55	8		33	30	23	67	00	0	
10	0	UNL	15	33	26	11	40	01	8	7	UNL	7	35	29	16	46	03	9	10	60	8		38	31	18	44	10	4	
13	4	UNL	15	39	30	12	33	04	8	7	UNL	10	41	32	13	32	34	9	10	80	8		43	34	17	35	07	4	
16	7	UNL	15	42	33	15	33	01	6	2	UNL	12	44	35	19	37	33	6	10	70	8		45	35	18	34	00	0	
19	1	UNL	15	35	29	18	50	24	4	8	80	12	38	32	21	50	18	3	10	70	7		39	34	25	57	18	6	
22	0	UNL	15	29	26	19	66	00	0	10	80	12	35	31	23	62	00	0	3	UNL	7		33	30	24	70	13	3	
FEB 20th																													
FEB 21st																													
FEB 22nd																													
FEB 23rd																													
FEB 24th																													
FEB 25th																													
FEB 26th																													
FEB 27th																													
FEB 28th																													

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	AVERAGES						RESULTANT WIND	
		STATION PRESSURE (INCHES)	TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	6	29.900	32	29	22	69	7.0	36	4.2
04	4	29.900	29	27	22	75	6.7	34	2.6
07	6	29.920	29	27	22	76	7.3	36	3.5
10	7	29.950	37	32	22	55	10.2	01	4.1
13	8	29.900	44	36	22	45	10.7	34	3.4
16	7	29.870	46	37	22	41	10.0	34	4.1
19	6	29.895	40	34	23	54	8.2	03	3.0
22	6	29.910	35	31	24	65	7.1	03	2.7

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

FEB 1987  
RICHMOND, VA

13740

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		
01																								01		
02						T	T	T												T				02		
03																								03		
04																								04		
05																								05		
06																								06		
07																		T	T	T	T	T	T	07		
08																								08		
09																								09		
10																								10		
11																								11		
12									T	0.01	0.02	0.04	0.01	T										12		
13																		T	T	T				13		
14																								14		
15																								15		
16																								16		
17	0.31	0.09	0.04	0.01	0.01	T	0.01	0.02	T	T	T		T	0.01	0.03	0.01	T	T	0.01	0.04	0.05	0.04	T	0.04	17	
18			T		T	T	T	T											T	T	T	T			18	
19																									19	
20																									20	
21																									21	
22																									22	
23	0.04	0.06	0.18	0.02	T	T									T	0.01	0.03	T	0.10	0.10	0.10	0.18	0.17	0.26	23	
24																									24	
25																									25	
26																									26	
27																									27	
28														T	T	0.03	0.05	0.05	0.10	0.10	0.08	0.05	0.02	T	0.03	28

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.05	0.07	0.11	0.14	0.18	0.23	0.31	0.36	0.41	0.47	0.57	0.64
ENDED: DATE	22	22	22	22	22	22	17	22	23	22	22	23
ENDED: TIME	2324	2340	2338	2338	2342	2342	0059	2342	0002	2340	2342	0007

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.

VALIDATED BY:  
DICK WOLF

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