

FEB 1989
 RICHMOND, VA
 NAT'L WEA SER OFC
 RICHMOND INTL AP, EXEC. TERMINAL

ISSN 0198-537X

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 1989 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. FEET ABOVE M.S.L.	WIND (M.P.H.)					SUNSHINE		SKY COVER (TENTHS)						
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JULI)	COOLING (SEASON BEGINS WITH JAN)	WATER EQUIVALENT (INCHES)			SNOW, ICE PELLETS (INCHES)	RESULTANT DIR.		RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT						
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	74	39	57	20	38	8	0		0	0.00	0.0	29.685	22	10.8	11.5	23	SW	17	25	620	100	0	1				
02	78	47	63	26	51	2	0		0	0.00	0.0	29.810	24	5.2	7.9	21	W	14	28	444	71	9	9				
03	77	40	59	22	48	6	0	1	8	0.42	0.0	29.850	02	6.4	10.4	33	NE	21	04	460	74	10	10				
04	40	30	35	-2	21	30	0	0	0	0.00	0.0	30.200	03	9.7	10.7	25	N	16	02	37	6	10	10				
05	32	29	31	-6	27	34	0	1	4 6	0.29	0.0	30.120	03	5.5	5.9	14	NE	10	01	0	0	10	10				
06	42	31	37	0	36	28	0	1	6	0.24	0.0	29.980	21	4.3	6.1	13	W	9	22	0	0	10	10				
07	40	28	34	-3	33	31	0	1	0	0.24	0.0	30.015	02	6.0	6.6	21	NW	16	04	16	3	10	9				
08	46	30	38	0	21	27	0	1	0	0.00	0.0	30.110	27	4.8	6.8	26	NW	18	30	522	82	7	6				
09	34	17	26	-12	3	39	0	0	0	0.00	0.0	30.250	31	11.2	12.3	30	NW	20	32	636	100	0	1				
10	39	15	27	-11	6	38	0	0	0	0.00	0.0	30.115	26	7.5	9.9	29	W	21	29	630	99	0	1				
11	53	19	36	-2	16	29	0	0	0	0.00	0.0	29.910	23	8.6	9.4	28	W	16	25	582	91	4	2				
12	54	26	40	2	18	25	0	0	0	0.00	0.0	29.970	33	4.0	8.2	25	NW	15	31	642	100	0	0				
13	42	22	32	-6	27	33	0	1	8	0.07	0.0	30.240	03	1.7	4.2	16	E	13	09	83	13	10	8				
14	73	37	55	16	48	10	0	1	8	0.00	0.0	30.090	26	5.3	7.7	36	SW	25	24	270	42	10	10				
15	82*	53	68*	29	57	0	3	1	8	0.00	0.0	30.060	22	11.5	14.0	37	SW	23	23	409	63	10	8				
16	61	38	50	11	42	15	0	1	0	0.20	0.0	30.390	02	8.9	10.0	24	NE	17	02	0	0	10	10				
17	38	30	34	-5	20	31	0	0	0	0.00	0.0	30.540	04	8.7	9.7	18	NE	15	06	150	23	10	10				
18	31	25	28	-11	25	37	0	1	0	0.55	7.6	30.290	03	8.6	9.4	20	NE	15	03	0	0	10	10				
19	45	27	36	-4	27	29	0	1	8	0.00	0.0	30.080	04	0.8	5.1	14	N	9	01	368	56	4	5				
20	41	24	33	-7	30	32	0	2	8	0.10	0.0	30.020	18	4.2	5.3	15	SW	10	23	171	26	10	9				
21	63	38	51	11	49	14	0	2	0	1.20	0.0	29.630	21	7.2	11.2	40	SW	23	22	25	4	10	10				
22	55	41	48	8	45	17	0	1	8	0.35	0.0	29.630	02	4.5	10.6	28	N	17	02	33	5	10	10				
23	41	30	36	-4	30	29	0	1	0	0.08	1.3	29.790	01	16.6	16.8	37	N	25	02	276	41	10	10				
24	31	22	27	-14	17	38	0	1	0	0.24	4.0	29.900	36	19.5	19.9	39	N	26	36	182	27	10	8				
25	39	13*	26*	-15	8	39	0	0	0	0.00	0.0	29.940	28	6.0	8.9	18	W	15	21	672	100	0	1				
26	50	25	38	-3	25	27	0	0	0	0.00	0.0	29.570	24	7.5	10.3	31	W	23	26	480	71	8	6				
27	40	28	34	-8	31	31	0	1	0	0.05	0.0	29.680	21	5.0	6.9	21	S	16	20	100	15	10	8				
28	38	31	35	-7	33	30	0	1	0	0.31	0.7	29.790	03	5.6	7.4	18	NE	13	02	132	19	10	9				
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL	FOR THE MONTH:					TOTAL	%	SUM	SUM							
1379	835					709	3	NUMBER OF DAYS		4.34	13.6	29.990	32	2.4	9.4	40	SW	26	36	7940	100	212	201				
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION		DEP.						DATE: 21	DATE: 24	POSSIBLE	MONTH	AVG.	AVG.						
49.3	29.8	39.6	0.7	29.6	-22	3	3	14	1.21										18164	44	7.6	7.2					
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES					GREATEST DEPTH ON GROUND OF												
						TOTAL	TOTAL	≥ 0.1 INCH		3							SNOW, ICE PELLETS OR ICE AND DATE										
MAXIMUM TEMP.		MINIMUM TEMP.		3012		3		THUNDERSTORMS		0		PRECIPITATION		SNOW, ICE PELLETS													
≥ 90°		≤ 32°		≤ 32°		≤ 0°		DEP.		DEP.		HEAVY FOG		2		1.25		20-21		7.6		18		8		19+	
0		3		20		0		-105		3		CLEAR		5		PARTLY CLOUDY		3		CLOUDY		20					

* 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 CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Wadsworth
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

FEB 1989
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	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	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
FEB 1st																					
01	0	UNL	10		47	42	36	66	20	12	8	UNL	7			57	51	45	64	23	10
04	3	UNL	10		48	43	37	66	22	9	9	UNL	7			52	49	46	80	21	7
07	0	UNL	10		41	38	35	79	21	7	8	UNL	7			49	48	47	93	20	6
10	0	UNL	10		57	49	40	53	22	10	5	UNL	6	H		65	56	49	56	30	5
13	0	UNL	15		71	55	39	31	25	15	9	250	7			77	62	51	40	27	11
16	0	UNL	15		73	55	39	29	22	11	10	80	7			75	63	55	50	26	7
19	0	UNL	15		57	48	37	47	19	9	10	100	7			64	59	55	73	18	6
22	0	UNL	10		52	46	38	59	20	9	10	55	7			66	60	55	68	17	6
FEB 2nd																					
FEB 3rd																					
FEB 4th																					
FEB 5th																					
FEB 6th																					
FEB 7th																					
FEB 8th																					
FEB 9th																					
FEB 10th																					
FEB 11th																					
FEB 12th																					
FEB 13th																					
FEB 14th																					
FEB 15th																					
FEB 16th																					
FEB 17th																					
FEB 18th																					

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- O 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 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).

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

FEB 1989
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																									02
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MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.11	0.15	0.17	0.21	0.29	0.42	0.47	0.51	0.51	0.53	0.61	0.71
ENDED: DATE	21	21	21	21	21	21	21	21	21	21	21	21
ENDED: TIME	1019	1021	1029	1031	1043	1059	1111	1122	1122	1159	1235	1259

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:
DON HOWELL

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