

# 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 1990  
 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 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	PEAK GUST	DIRECTION	FATEST 1-MIN	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	WINDIGHT TO MIDNIGHT
01	65	30	48	11	40	17	0	1	0	0.00	0.0	30.040	21	6.6	6.8	28	SW	16	21	462	75	7	5
02	71	47	59	22	53	6	0	0	0	0.00	0.0	29.800	22	11.0	11.6	30	SW	17	22	359	58	10	9
03	59	46	53	16	47	12	0	2	8	0.38	0.0	29.920	07	7.7	9.0	23	E	17	09	128	21	10	9
04	63	43	53	16	46	12	0	2	0	0.42	0.0	29.610	34	4.0	10.8	35	N	21	36	58	9	10	10
05	49	32	41	4	24	24	0	0	0	0.00	0.0	30.045	01	5.4	9.4	35	N	21	36	629	100	0	0
06	65	30	48	11	28	17	0	0	0	0.00	0.0	30.040	21	9.6	10.4	24	SW	16	21	528	84	3	4
07	62	44	53	16	39	12	0	0	0	0.10	0.0	29.900	28	5.8	10.6	29	NW	20	30	388	61	7	6
08	61	34	48	10	38	17	0	1	8	0.00	0.0	30.050	19	5.4	5.8	21	S	13	18	522	82	1	1
09	72	47	60	22	48	5	0	0	8	0.00	0.0	29.800	21	14.3	14.7	30	SW	20	24	482	76	9	8
10	69	43	56	18	48	9	0	1	0	0.46	0.0	29.500	21	3.2	14.6	41	SW	26	22	22	3	10	9
11	53	31	42	4	27	23	0	0	0	0.00	0.0	29.740	16	2.0	5.6	21	S	15	16	508	79	4	5
12	52	35	44	6	29	21	0	0	0	T	0.0	29.910	01	5.6	7.7	26	N	15	01	502	78	3	3
13	66	32	49	11	32	16	0	0	0	0.00	0.0	29.990	20	12.0	12.7	31	SW	23	20	512	79	6	5
14	77*	54	66*	27	45	0	1	0	0	0.00	0.0	29.920	23	11.7	12.1	24	SW	17	23	404	62	8	8
15	74	44	59	20	51	6	0	0	0	0.00	0.0	29.910	21	7.6	10.6	32	SW	21	23	314	48	9	6
16	68	61	65	26	60	0	0	1	0	0.40	0.0	29.740	22	14.1	14.8	31	SW	23	20	0	0	10	9
17	62	34	48	9	32	17	0	0	0	0.00	0.0	30.060	33	9.5	13.3	29	N	18	01	562	86	5	4
18	50	29	40	1	28	25	0	1	0	0.01	0.0	30.350	13	2.5	6.9	16	SE	12	18	437	67	9	8
19	60	40	50	10	40	15	0	1	0	0.37	0.0	29.920	26	5.3	7.8	17	W	14	25	357	54	10	8
20	47	30	39	-1	15	26	0	0	0	0.00	0.0	30.260	02	9.0	9.7	25	N	15	01	630	95	2	3
21	54	24	39	-1	29	26	0	1	0	0.00	0.0	30.390	16	3.5	4.3	15	SW	9	14	641	97	4	3
22	66	37	52	12	45	13	0	1	0	0.05	0.0	29.920	18	10.5	11.2	31	S	26	18	26	4	10	8
23	65	49	57	17	53	8	0	0	3	0.18	0.0	29.490	21	14.2	16.1	33	NW	21	19	108	16	10	10
24	52	34	43	-2	26	22	0	0	0	0.01	T	29.590	27	16.7	18.0	45	NW	29	26	433	65	5	5
25	34	19	27	-14	0	38	0	0	0	0.00	0.0	30.300	32	17.9	19.3	44	NW	25	32	600	89	1	1
26	36	16*	26*	-15	3	39	0	0	0	0.00	0.0	30.650	04	4.5	7.7	17	N	15	01	675	100	0	0
27	54	22	38	-4	23	27	0	0	0	T	T	30.340	20	10.2	10.9	26	S	20	21	392	58	10	8
28	56	36	46	4	31	19	0	0	0	0.00	0.0	30.180	03	2.7	5.4	16	NE	10	32	526	77	10	8
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
1662	1023					472	1			2.38	T	29.980	23	3.8	10.6	45	NW	29	26	11205	FOR	183	163
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION		DEP.						DATE:24	DATE:24	POSITIVE	MONTH	AVG.	AVG.		
59.4	36.5	48.0	9.1	34.9	-259	1		≥ .01 INCH.		10	-0.75							18164	62	6.5	5.8		
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.		MINIMUM TEMP.		2772		1		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS											
≥ 90°		≤ 32°		≤ 32°		≤ 0°		DEP.		DEP.		HEAVY FOG		27+									
0		0		11		0		-345		1		CLEAR		7		PARTLY CLOUDY		7		CLOUDY		14	

\* 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 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.

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

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OBSERVATIONS AT 3-HOUR INTERVALS

FEB 1990  
RICHMOND, VA 13740

HOUR U.S.T.	SKY COVER (TENTHS)		VISI-BILITY		WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY		WEATHER	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)												
FEB 19th																																	
01	10	23	5			43	42	41	93	23	5	0	UNL	10			43	36	25	49	36	7	0	UNL	10			29	26	20	69	00	0
04	10	17	5		RF	42	41	40	93	24	7	4	UNL	10			42	35	22	45	01	13	0	UNL	10			26	25	22	85	00	0
07	10	25	1	12	RF	42	41	39	89	22	3	10	UNL	10			36	29	13	39	03	11	0	UNL	10			25	24	21	85	00	0
10	10	3	1	12	RF	45	44	43	93	22	7	4	UNL	10			40	31	12	32	01	13	0	UNL	10			42	36	26	53	13	7
13	10	250	6		F	54	51	48	80	27	9	0	UNL	10			44	33	11	26	02	12	4	UNL	10			51	44	36	57	19	6
16	10	UNL	7			60	50	40	48	25	12	0	UNL	10			47	35	11	23	05	8	7	UNL	10			54	47	40	59	17	5
19	6	UNL	8			50	47	43	77	16	4	0	UNL	10			39	31	14	36	07	7	8	UNL	10			46	38	25	44	13	7
22	3	UNL	10			49	44	39	69	33	9	0	UNL	10			33	29	20	59	00	0	4	UNL	10			40	38	34	79	14	4
FEB 20th																																	
FEB 21st																																	
FEB 22nd																																	
FEB 23rd																																	
FEB 24th																																	
FEB 25th																																	
FEB 26th																																	
FEB 27th																																	
FEB 28th																																	

SUMMARY BY HOURS

HOUR U.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	4	29.980	44	40	35	71	8.7	24	3.2
04	5	29.980	42	39	33	73	9.3	26	3.3
07	6	30.005	41	38	33	76	8.6	25	2.7
10	6	30.020	49	43	34	60	11.8	24	4.2
13	7	29.970	55	47	36	52	13.1	25	6.0
16	7	29.930	56	48	37	52	12.5	23	6.2
19	6	29.960	50	44	36	60	10.5	20	3.2
22	6	29.980	47	43	36	66	10.7	22	3.9

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

FEB 1990  
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	
03																								03	
04	0.02	0.03	0.01			T	T	T	0.02	0.01	0.04	0.01	0.01		T	T	0.01	0.04	0.05	0.03	0.03	0.05	0.05	0.12	04
05																								05	
06																								06	
07					T	T	0.06	0.04				T												07	
08																								08	
09																								09	
10	T	0.03	0.05	0.02	T	T					0.03	0.30	0.02	0.01										10	
11																								11	
12							T	T																12	
13																								13	
14																								14	
15																								15	
16							T	0.02	0.13	0.10	0.01	0.03	0.03	0.01	0.04	0.02	0.01	T						16	
17																								17	
18	0.06	0.09	0.05	0.05	0.04	0.04	0.01	0.02	0.01													T	T	0.01	18
19																									19
20																									20
21																									21
22	0.02	T										T									0.03		T	T	22
23														T	T	0.01	0.01				T		0.16	T	23
24																									24
25																									25
26																									26
27							T	T																27	
28																								28	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.12	0.19	0.22	0.23	0.24	0.26	0.30	0.32	0.32	0.33	0.34	0.35
ENDED: DATE	04	04	04	04	04	10	10	10	10	10	10	10
ENDED: TIME	1437	1437	1440	1444	1449	1147	1202	1202	1202	1159	1306	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 GRISINGER

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