

# 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

APR 1991  
 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 DOW 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	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
01	65	33	49	-4	29	16	0		0	0.00	0.0	29.950	29	5.2	8.9	31	NW	20	30	627	83	5	3
02	62	33	48*	-5	27	17	0		0	0.00	0.0	30.130	33	4.1	7.0	24	NW	15	32	750	99	0	0
03	64	33*	49	-5	30	16	0		0	0.00	0.0	30.350	06	1.8	5.7	17	E	12	11	714	94	3	3
04	70	35	53	-1	37	12	0		0	0.00	0.0	30.310	17	6.5	7.7	20	S	14	19	715	94	6	6
05	67	51	59	5	50	6	0		0	0.01	0.0	30.090	20	9.9	10.4	22	SW	15	22	234	31	10	9
06	79	46	63	8	49	2	0	2	8	0.00	0.0	29.940	25	3.1	4.9	15	SW	8	29	715	93	5	4
07	88	49	69	14	53	0	4	1	8	0.00	0.0	29.870	22	4.9	5.7	21	SW	15	25	770	100	1	1
08	88*	58	73	17	59	0	8		0	0.00	0.0	29.815	21	12.5	12.7	30	SW	20	22	696	90	8	7
09	87	66	77*	21	63	0	12		0	0.00	0.0	29.670	22	12.7	13.5	32	SW	18	23	681	88	8	8
10	79	59	69	13	46	0	4		0	0.00	0.0	29.680	28	10.2	12.8	31	SW	16	26	699	90	7	5
11	67	41	54	-3	29	11	0		0	0.00	0.0	30.110	35	5.9	7.1	24	N	17	36	780	100	3	3
12	65	46	56	-1	27	9	0		0	0.00	0.0	30.340	06	6.1	9.6	21	N	15	04	627	80	6	6
13	56	48	52	-5	44	13	0	1		0.10	0.0	30.210	14	1.6	6.3	15	E	12	11	229	29	10	10
14	52	48	50	-8	49	15	0	1		0.01	0.0	30.100	04	6.4	8.0	20	NE	15	03	0	0	10	10
15	72	49	61	3	56	4	0	1		0.03	0.0	29.860	19	2.7	6.4	18	S	14	21	339	43	10	9
16	80	52	66	8	49	0	1	1 3		0.00	0.0	29.870	22	4.6	7.4	20	SW	16	21	789	100	1	2
17	87	53	70	11	53	0	5	1 3		0.10	0.0	30.340	06	8.1	10.8	23	SE	17	14	720	91	7	5
18	68	50	59	0	48	6	0	1	8	0.00	0.0	29.840	04	7.9	11.2	22	E	16	07	720	90	4	4
19	56	48	52	-7	44	13	0	1	8	0.01	0.0	29.905	06	10.1	10.3	21	NE	15	07	341	43	10	10
20	52	48	50	-9	48	15	0	1		0.37	0.0	29.700	36	10.1	10.5	18	N	15	34	44	5	10	10
21	56	49	53	-7	46	12	0	1		0.04	0.0	29.400	31	8.5	10.1	21	NW	17	35	318	40	10	10
22	64	44	54	-6	39	11	0		0	0.00	0.0	29.450	24	10.6	11.2	20	W	15	26	524	65	8	8
23	72	37	55	-5	42	10	0		0	0.00	0.0	29.670	19	6.4	8.1	21	S	15	17	615	76	5	6
24	76	52	64	3	48	1	0	1	8	0.00	0.0	29.660	27	8.9	13.2	39	NW	23	32	689	85	4	4
25	75	46	61	0	45	4	0		0	0.00	0.0	29.940	35	1.8	7.2	20	N	15	36	697	86	6	5
26	78	51	65	4	51	0	0	1	8	0.00	0.0	29.970	16	6.6	7.1	17	S	10	18	691	85	5	5
27	83	55	69	8	57	0	4	1	8	0.00	0.0	29.840	20	8.7	9.6	23	SW	17	21	689	84	7	7
28	78	62	70	8	62	0	5	1	8	0.00	0.0	29.830	11	5.9	7.4	18	E	12	07	421	51	10	10
29	74	58	66	4	62	0	1	1	8	0.06	0.0	29.910	04	5.5	6.4	14	N	9	05	515	63	8	9
30	85	63	74	12	65	0	9	1 3		0.14	0.0	29.820	22	8.9	10.0	28	SW	18	24	559	68	9	9
SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:						TOTAL	%	SUM	SUM			
2145	1463				193	53			0.87	0.0	29.900	22	1.7	8.9	39	NW	23	32	16908		FOR	196	188
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION		DEP.							DATE: 24	DATE: 24	POSSIBLE	MONTH		AVG.	AVG.	
71.5	48.8	60.2	2.3	46.7	-33	-40	10		-2.03									23701	71		6.5	6.3	
NUMBER OF DAYS					SEASON TO DATE		SNOW, ICE PELLETS			GREATEST IN 24 HOURS AND DATES						GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE							
					TOTAL	TOTAL	≥ 1.0 INCH																
MAXIMUM TEMP.					MINIMUM TEMP.		THUNDERSTORMS			PRECIPITATION		SNOW, ICE PELLETS											
≥ 90°					≤ 32°		HEAVY FOG			0.38		19-20				0							
0					0		CLEAR			5		PARTLY CLOUDY				12 CLOUDY 13							

\* 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



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

*Kenneth D. Wadsworth*  
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

APR 1991  
RICHMOND, VA 13740

HOUR L.S.T.	VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE				WIND		
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	
APR 1st																		
01	0	UNL	35	34	32	89	20	3	0	UNL	40	35	28	62	05	3		
04	0	UNL	35	34	32	89	21	4	0	UNL	35	33	31	85	33	3		
07	0	UNL	38	36	33	82	19	4	0	UNL	38	36	33	82	00	0		
10	2	UNL	57	46	32	39	26	14	0	UNL	55	44	31	40	25	10		
13	7	75	60	46	28	30	27	10	0	UNL	60	45	23	24	36	13		
16	9	75	63	46	22	21	31	10	0	UNL	61	44	20	21	27	8		
19	6	100	57	43	24	28	34	9	0	UNL	53	42	28	38	36	6		
22	4	UNL	50	40	25	38	05	5	0	UNL	45	38	26	47	06	3		
APR 2nd																		
APR 3rd																		
01	0	UNL	39	35	30	70	01	4	0	UNL	39	35	30	70	01	4		
04	0	UNL	34	32	29	82	35	3	0	UNL	34	32	29	82	35	3		
07	0	UNL	38	35	30	73	36	4	0	UNL	38	35	30	73	36	4		
10	2	UNL	52	42	27	38	01	7	1	UNL	52	42	27	38	01	7		
13	7	75	58	45	27	31	18	3	2	UNL	58	45	27	31	18	3		
16	9	75	63	47	28	27	36	3	4	UNL	63	47	28	27	36	3		
19	6	100	54	45	35	49	11	10	8	UNL	54	45	35	49	11	10		
22	4	UNL	47	40	30	52	13	7	8	UNL	47	40	30	52	13	7		
APR 4th																		
APR 5th																		
APR 6th																		
01	6	UNL	41	38	33	73	14	4	10	UNL	53	45	34	49	17	7		
04	7	UNL	37	35	32	82	13	4	10	UNL	53	49	44	72	19	7		
07	4	UNL	39	37	35	86	36	3	10	100	54	50	45	72	18	7		
10	6	UNL	58	48	37	46	21	4	10	80	59	55	51	75	19	10		
13	9	UNL	67	53	39	36	19	10	10	75	64	57	52	65	19	13		
16	4	UNL	70	54	38	31	16	10	10	43	66	59	53	63	21	11		
19	6	UNL	60	49	37	43	14	7	10	65	61	58	55	81	23	9		
22	7	UNL	53	47	41	64	15	8	1	UNL	57	55	54	90	23	6		
APR 7th																		
APR 8th																		
APR 9th																		
01	0	UNL	53	50	47	80	18	6	0	UNL	64	57	51	63	19	6		
04	0	UNL	50	48	46	86	00	0	0	UNL	60	55	51	72	20	7		
07	8	UNL	54	52	50	86	18	3	6	UNL	62	58	55	78	19	8		
10	1	UNL	76	64	55	48	27	3	5	UNL	79	67	60	52	23	10		
13	0	UNL	85	68	57	39	00	0	10	UNL	87	70	61	42	21	12		
16	0	UNL	87	70	61	42	25	13	10	UNL	85	71	63	48	21	17		
19	0	UNL	74	63	55	52	21	5	10	250	79	68	62	56	20	11		
22	0	UNL	65	57	51	61	20	8	7	250	76	67	61	60	21	15		
APR 10th																		
APR 11th																		
APR 12th																		
01	8	150	68	62	57	68	22	11	0	UNL	54	44	31	42	35	13		
04	6	UNL	67	60	55	66	23	11	0	UNL	45	38	28	52	36	12		
07	10	250	65	59	55	70	23	9	0	UNL	46	38	24	42	36	9		
10	10	250	68	57	47	47	31	13	1	UNL	54	45	32	43	36	6		
13	6	UNL	74	61	51	45	27	9	2	UNL	62	47	27	27	33	7		
16	2	UNL	78	58	41	27	28	12	7	UNL	67	49	28	23	36	7		
19	0	UNL	75	55	35	23	29	12	4	UNL	61	48	34	37	00	0		
22	0	UNL	66	50	31	27	33	12	6	UNL	49	42	33	54	00	0		
APR 13th																		
APR 14th																		
APR 15th																		
01	10	120	49	44	38	66	13	10	10	13	4	F	51	50	49	93	17	4
04	10	110	48	42	35	61	16	5	10	4	4	F	50	50	49	96	30	6
07	10	55	49	44	38	66	08	3	10	4	2	LF	50	50	49	96	06	7
10	10	55	52	47	42	69	11	6	10	6	6	LF	51	50	49	93	03	12
13	10	55	56	51	47	72	11	10	10	5	3	LF	51	50	49	93	03	13
16	10	25	55	53	52	90	28	5	10	4	1	8	52	51	50	93	04	7
19	10	3	51	51	50	96	29	8	10	8	2	8	50	49	48	93	07	5
22	10	3	50	49	48	93	28	4	10	11	6	F	50	49	47	90	07	5
APR 16th																		
APR 17th																		
APR 18th																		
01	8	23	60	59	59	97	27	4	0	UNL	59	51	44	58	18	9		
04	0	UNL	57	56	56	97	27	4	0	UNL	54	50	47	77	17	6		
07	0	UNL	58	56	55	90	29	6	10	UNL	58	55	52	81	17	8		
10	0	UNL	71	57	46	41	01	7	9	UNL	76	66	60	58	15	8		
13	3	UNL	78	59	44	30	22	8	6	UNL	85	67	56	37	15	15		
16	0	UNL	79	61	46	31	21	8	5	UNL	86	66	53	32	14	15		
19	3	UNL	70	57	47	44	22	9	3	UNL	75	62	52	45	17	10		
22	0	UNL	64	55	48	56	20	8	8	60	74	62	54	50	02	11		

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 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

APR 1991 RICHMOND, VA 13740

HOUR L.S.T.	SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE				WIND			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)																																					
APR 19th																			APR 20th																			APR 21st																		
01	10	17	6			50	46	42	74	07	6	10	5	6	RF	49	48	47	93	06	6	10	8	6	F	50	49	47	90	34	10																									
04	10	16	7			49	46	42	77	06	9	10	5	6	F	49	48	47	93	01	8	10	11	5	F	49	48	46	90	33	13																									
07	10	20	7			49	45	41	74	04	3	10	7	2	RF	48	47	46	93	36	8	10	75	6	F	49	47	44	83	32	11																									
10	10	17	7			50	46	42	74	07	10	10	5	2	RF	49	48	47	93	02	9	10	75	10	F	53	49	44	72	32	11																									
13	10	24	8			55	49	43	64	07	13	10	4	2	RF	50	50	49	96	36	12	10	25	8	R	55	50	45	69	28	8																									
16	10	27	8			55	50	44	67	07	11	10	7	6	F	51	50	49	93	01	11	10	50	7	R	54	51	48	80	25	7																									
19	10	21	7			53	49	45	74	08	8	10	8	6	F	51	50	48	90	35	10	10	41	5	RF	52	50	49	90	30	4																									
22	10	15	6			49	48	46	90	07	9	10	8	6	F	51	50	48	90	35	11	10	50	7	RF	51	48	44	77	29	6																									
APR 22nd																			APR 23rd																			APR 24th																		
01	10	48	7			49	46	42	77	24	8	3	UNL	7		50	44	37	61	26	5	10	100	8		56	53	50	80	19	6																									
04	8	120	7			47	43	37	68	24	10	3	UNL	7		40	39	37	89	18	3	10	120	8		56	53	51	83	17	7																									
07	8	100	10			46	42	36	68	24	9	1	UNL	7		46	43	40	80	20	4	8	200	6	F	57	55	53	87	17	7																									
10	7	110	10			55	47	39	55	24	12	0	UNL	8		65	52	40	40	22	10	1	UNL	8		71	60	52	51	23	11																									
13	8	48	10			63	52	41	45	23	9	5	UNL	8		69	55	42	38	17	13	5	UNL	8		73	58	45	37	24	15																									
16	10	55	10			61	51	40	46	26	13	10	75	8		69	55	42	38	18	10	5	UNL	10		74	60	50	43	26	12																									
19	10	65	8			59	50	40	50	21	8	10	70	8		64	55	46	52	16	4	4	UNL	10		63	54	45	52	31	19																									
22	3	UNL	7			54	46	37	53	28	9	10	110	8		58	53	48	70	14	7	0	UNL	10		55	50	44	67	31	13																									
APR 25th																			APR 26th																			APR 27th																		
01	0	UNL	10			51	46	41	69	30	8	6	UNL	7		53	51	49	86	13	5	6	120	7		60	57	54	81	15	4																									
04	0	UNL	8			49	44	37	64	28	8	4	UNL	6		53	51	49	86	15	5	7	UNL	5		56	55	55	97	15	5																									
07	4	UNL	8			52	46	39	61	31	8	10	250	6	H	56	53	51	83	15	5	7	120	6	H	63	60	58	84	20	8																									
10	1	UNL	8			63	53	44	50	35	12	8	UNL	7		69	59	52	55	21	7	3	UNL	7		75	66	60	60	21	13																									
13	9	UNL	8			72	58	47	41	35	8	1	UNL	7		75	60	49	40	16	9	8	90	7		80	68	61	52	20	11																									
16	8	UNL	10			75	60	49	40	17	3	4	UNL	7		76	61	50	40	15	8	8	60	7		81	67	59	47	22	13																									
19	10	250	10			64	56	49	58	16	5	3	UNL	8		66	57	50	57	15	7	9	250	8		72	61	53	51	20	7																									
22	10	UNL	10			60	53	47	62	12	7	6	70	8		59	56	53	81	15	4	8	120	8		64	59	56	75	17	5																									
APR 28th																			APR 29th																			APR 30th																		
01	10	150	8			64	61	59	84	14	5	10	3	2	LF	61	60	60	97	02	7	10	4	4	F	66	65	64	93	14	8																									
04	10	70	6			63	61	60	90	12	5	10	3	2	F	59	58	58	97	01	8	8	10	4	4	F	66	65	65	97	16	8																								
07	10	65	6			65	63	62	90	15	6	10	1	0	LF	58	58	58	100	03	4	7	250	8		69	67	65	87	20	9																									
10	10	65	7			72	65	61	69	13	7	10	3	1	F	60	59	59	97	02	6	10	120	8		73	69	66	79	23	8																									
13	9	30	7			75	67	62	64	12	7	10	5	1	8	F	65	63	62	90	06	7	9	140	8		81	72	67	63	22	11																								
16	10	28	10			73	67	63	71	07	8	5	UNL	3		73	68	65	76	02	5	10	140	8		79	69	63	58	23	11																									
19	10	45	10			70	66	64	81	05	6	8	28	3		71	68	66	84	34	5	9	UNL	8		73	67	63	71	21	9																									
22	10	12	8			68	66	64	87	08	9	10	120	6		68	66	64	87	11	7	10	UNL	8		66	64	63	90	19	8																									

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES				RESULTANT WIND		
			TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	5	29.910	54	50	46	76	7.6	19	1.5
04	5	29.900	51	48	45	82	7.4	24	0.8
07	6	29.930	53	50	46	80	7.2	24	1.5
10	6	29.940	63	55	47	60	10.3	27	2.7
13	6	29.900	68	57	47	51	11.3	20	2.7
16	7	29.850	70	58	48	50	10.8	23	3.4
19	7	29.870	64	55	48	59	9.0	21	2.0
22	6	29.900	58	53	47	69	8.7	17	1.5

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

APR 1991  
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)	0.02	0.03	0.04	0.05	0.07	0.09	0.11	0.12	0.14	0.15	0.17	0.18
ENDED: DATE	20	20	20	20	20	20	20	20	20	20	20	20
ENDED: TIME	1316	1321	1328	1328	1328	1340	1340	1404	1416	1416	1416	1416

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:  
MATTHEW BODOSKY

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