

# 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

JAN 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 DEN 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	FATEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MITONIGHT TO MIDNIGHT		
01	43	27	35	-2	24	30	0		0	0.00	0.0	30.350	01	4.3	5.1	12	NE	8	35	435	75	8	7
02	47	33	40	3	34	25	0	1		0.08	0.0	30.125	35	3.6	4.1	12	N	9	36	149	26	10	10
03	50	28	39	2	35	26	0	1	8	0.00	0.0	30.140	04	2.3	3.9	18	NE	13	04	369	64	9	7
04	44	27	36	-1	26	29	0			0.00	0.0	30.310	02	7.2	7.6	17	N	14	01	467	81	5	6
05	48	25	37	0	26	28	0			0.00	0.0	30.280	23	1.2	3.5	10	W	8	20	408	70	8	6
06	64	36	50	13	38	15	0			0.00	0.0	30.130	07	0.5	6.3	15	NE	10	03	333	57	9	8
07	46	34	40	3	38	25	0	1	4	J.67	T	30.225	03	12.6	12.9	25	NE	17	03	0	0	10	10
08	34	28	31	-6	29	34	0	1	4	0.57	T	30.300	01	13.4	13.7	24	N	18	02	0	0	10	10
09	40	32	36	-1	36	29	0	2	6	T	0.0	30.175	33	5.8	6.7	13	NW	12	34	121	21	10	10
10	49	35	42	5	36	23	0	2		0.00	0.0	30.340	04	3.8	5.6	17	NE	12	05	462	79	7	9
11	45	38	42	5	41	23	0	1		1.58	0.0	30.045	03	6.6	9.4	21	N	16	08	0	0	10	10
12	47	38	43	6	42	22	0	1		0.11	0.0	29.610	28	1.6	6.0	14	SE	10	02	58	10	10	10
13	43	27	35	-1	31	30	0	1		T	0.0	29.840	35	6.6	7.5	21	N	14	36	385	65	7	6
14	51	23	37	1	29	28	0			0.00	0.0	30.000	20	7.2	7.5	22	SW	15	20	450	76	8	5
15	60	31	46	10	36	19	0			0.00	0.0	29.990	17	7.2	8.4	17	SE	14	14	506	85	4	5
16	65*	51	58*	22	57	7	0	1		0.25	0.0	29.590	19	7.3	10.4	24	SE	17	12	132	22	9	8
17	55	32	44	8	36	21	0			0.00	0.0	29.740	27	11.2	12.0	29	NW	18	30	519	87	3	2
18	55	31	43	7	30	22	0			0.00	0.0	29.895	26	11.9	12.7	30	W	21	26	548	92	2	2
19	51	31	41	5	32	24	0	1		0.01	0.0	29.880	22	6.5	8.0	17	S	12	25	306	51	10	8
20	60	41	51	15	42	14	0	1		0.27	0.0	29.490	27	4.9	8.0	16	W	13	29	501	84	2	6
21	50	29	40	4	29	25	0			T	0.0	29.570	32	10.4	13.8	37	NW	22	31	468	78	3	5
22	31	18	25*	-11	10	40	0			0.00	0.0	29.960	36	7.8	9.7	25	N	18	34	552	92	1	1
23	46	16*	31	-5	18	34	0			0.00	0.0	29.970	20	9.9	10.4	28	NW	21	21	603	100	0	1
24	45	31	38	2	28	27	0			0.00	0.0	29.950	23	5.5	7.6	18	N	13	01	83	14	10	9
25	38	22	30	-7	13	35	0			0.00	0.0	30.170	01	7.0	9.0	22	N	15	01	552	91	2	3
26	45	17	31	-6	20	34	0			0.00	0.0	30.060	19	5.5	5.9	18	SW	13	20	562	92	2	1
27	53	24	39	2	27	26	0			0.00	0.0	29.910	18	6.5	8.1	25	S	16	18	541	89	6	5
28	57	37	47	10	33	18	0			0.00	0.0	29.810	15	1.3	7.1	24	S	16	20	301	49	10	8
29	60	33	47	10	40	18	0			0.00	0.0	29.970	13	3.4	4.5	16	SE	9	13	448	73	10	10
30	61	46	54	17	53	11	0	1		0.04	0.0	29.700	19	9.9	10.2	25	SW	16	22	6	1	10	10
31	59	30	45	8	28	20	0	1		0.04	0.0	29.950	30	11.0	12.7	40	W	23	30	511	83	9	7
SUM	SUM				TOTAL	TOTAL		NUMBER OF DAYS		TOTAL	TOTAL	29.980	30	1.6	8.3	40	W	23	30	10776	%	SUM	SUM
1542	951				762	0				3.62	T										FOR	214	205
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION		DEP.						DATE: 31	DATE: 31	DATE: 31	DATE: 31	POSSIBLE	MONTH	AVG.	AVG.
49.7	30.7	40.2	3.6	32.1	-11.8	0		≥ .01 INCH.	10	0.39										18439	58	6.9	6.6
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.		1880		0		PRECIPITATION		SNOW, ICE PELLETS									
≥ 90°						< 32°		DEP.		DEP.		1.58		11		08+							
0						1		-506		0		CLEAR		8		PARTLY CLOUDY 5 CLOUDY 18							

\* 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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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

*Kenneth D. Haden*  
 DIRECTOR  
 NATIONAL CLIMATIC DATA CENTER

# OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1991  
RICHMOND, VA

13740

HOUR	L.S.T.	SKY COVER (TENTHS)		VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)		VISI-BILITY		TEMPERATURE				WIND																																													
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																												
JAN 1st																						JAN 2nd																						JAN 3rd																					
01	04	6	UNL	12		32	29	23	69	04	5	8	45	10		37	33	27	67	36	6	10	UNL	5	F	33	33	33	100	19	4																																		
04	07	2	UNL	12		29	27	22	75	05	5	10	37	10		37	35	31	79	03	4	0	UNL	5	F	32	32	31	96	00	0																																		
07	10	8	UNL	12		28	25	20	72	03	6	10	29	4		36	35	34	93	36	4	1	UNL	5	F	30	30	30	100	00	0																																		
10	13	8	UNL	12		32	29	22	67	01	4	10	15	6		37	35	33	86	35	8	7	250	7		43	40	37	80	00	0																																		
13	16	8	UNL	10		40	34	24	53	23	3	10	37	8		44	40	34	68	02	4	9	120	7		49	44	39	69	19	7																																		
16	19	4	UNL	10		41	35	25	53	36	4	9	39	10		47	43	37	68	00	0	10	120	7		49	45	41	74	00	0																																		
19	22	4	UNL	10		33	31	27	79	35	4	8	UNL	8		39	38	37	93	00	0	10	120	6	H	44	41	36	74	04	11																																		
01	04	10		10		37	33	26	65	01	5	9	UNL	6		35	35	34	96	27	3	10	47	7		42	39	34	73	04	9																																		
JAN 4th																						JAN 5th																						JAN 6th																					
01	04	10	31	7		40	37	33	76	02	8	10	120	10		30	28	25	82	00	0	5	UNL	10		38	34	27	65	20	6																																		
04	07	10	31	7		39	35	29	67	02	8	1	UNL	8		29	27	24	82	00	0	2	UNL	7		37	34	30	76	21	5																																		
07	10	4	41	7		38	34	28	67	03	10	0	UNL	7		26	25	24	92	00	0	8	UNL	7		37	35	32	82	18	4																																		
10	13	6	43	7		37	33	25	62	01	12	5	UNL	8		38	34	28	67	36	4	9	100	12		46	42	38	74	22	4																																		
13	16	4	UNL	10		43	36	26	51	03	9	8	65	15		47	39	26	44	16	4	9	110	10		58	51	45	62	00	0																																		
16	19	4	UNL	10		44	36	24	45	03	7	10	70	15		46	38	26	46	00	0	10	95	8		63	55	48	58	03	7																																		
19	22	2	UNL	10		34	31	25	70	07	4	10	50	10		43	38	30	60	19	6	10	90	8		51	47	42	72	05	6																																		
01	04	0	UNL	10		29	27	23	78	00	0	4	UNL	10		40	35	27	60	20	7	10	70	8		48	44	39	71	04	7																																		
JAN 7th																						JAN 8th																						JAN 9th																					
01	04	10	70	8		46	43	40	80	01	7	10	15	7		34	33	32	92	02	12	10	2	3	F	33	33	33	100	33	8																																		
04	07	10	12	5		43	43	43	100	05	9	10	55	7		30	29	27	89	02	15	10	3	3	ZLF	32	32	32	100	35	5																																		
07	10	6	3		RF	42	42	42	100	03	10	10	70	8		29	27	24	82	02	15	10	3	3	LF	33	33	33	100	34	5																																		
10	13	10	5	2		40	40	40	100	02	10	10	13	6		29	28	27	92	02	12	10	3	3	F	34	34	34	100	34	5																																		
13	16	10	5	1		38	38	38	100	04	10	10	10	3		30	30	29	96	01	13	10	3	2	F	36	36	36	100	34	10																																		
16	19	10	7	2		36	36	36	100	04	11	10	7	3		31	31	31	100	02	10	10	2	1	F	38	38	38	100	33	7																																		
19	22	10	9	2		35	35	34	96	01	11	10	5	2		33	33	33	100	06	9	10	3	2	F	39	39	39	100	30	4																																		
01	04	10	13	7		34	33	32	92	04	12	10	5	7		33	33	33	100	05	10	10	2	0	4	F	39	39	39	100	26	3																																	
JAN 10th																						JAN 11th																						JAN 12th																					
01	04	10	0	0		38	38	38	100	23	3	10	60	7		40	38	35	82	06	7	10	3	4	F	39	39	39	100	29	7																																		
04	07	10	0	0		37	37	37	100	19	3	10	37	6		39	38	37	93	06	7	10	3	5	F	38	38	38	100	31	4																																		
07	10	0	0	0		36	36	36	100	35	4	10	8	6		40	40	39	96	07	12	10	3	2	F	39	39	39	100	25	4																																		
10	13	4	UNL	6		39	39	38	96	06	5	10	7	1		42	42	42	100	01	7	10	60	5	F	40	40	40	100	26	4																																		
13	16	10	250	7		46	42	36	68	03	6	10	3	1		45	45	45	100	05	9	10	4	1	12	F	45	45	44	96	18	9																																	
16	19	10	UNL	7		48	43	37	66	03	5	10	3	1		44	44	44	100	01	8	10	3	2	F	47	47	47	100	19	6																																		
19	22	10	200	7		43	40	36	76	06	6	10	2	1		43	43	43	100	04	7	10	1	0	12	F	46	46	46	100	10	3																																	
01	04	10	65	7		41	38	34	76	11	3	10	3	1		40	40	40	100	03	7	10	35	4	F	44	44	43	96	02	9																																		
JAN 13th																						JAN 14th																						JAN 15th																					
01	04	10	36	4		42	42	41	96	01	4	0	UNL	10		26	25	24	92	00	0	2	UNL	10		34	33	32	92	19	7																																		
04	07	10	41	7		41	39	37	86	33	6	0	UNL	10		24	23	22	92	00	0	0	UNL	7		35	34	33	92	21	5																																		
07	10	10	35	7		39	37	35	86	36	5	10	UNL	7		24	24	23	96	17	4	6	UNL	7		33	33	32	96	17	5																																		
10	13	10	47	8		39	36	32	76	36	9	8	UNL	8		34	32	29	82	22	8	5	UNL	7		46	42	37	71	18	8																																		
13	16	8	45	8		39	35	29	67	36	10	6	UNL	10		46	39	30	54	22	12	0	UNL	9		57	48	37	47	20	10																																		
16	19	3	UNL	10		42	37	29	60	31	10	7	UNL	10		51	43	32	48	21	12	6	UNL	10		58	48	37	46	15	7																																		
19	22	0	UNL	12		34	31	27	76	05	5	7	UNL	10		42	38	32	68	20	8	4	UNL	10		49	43	36	61	14	7																																		
01	04	10	UNL	12		31	29	24	75	31	3	0	UNL	10		38	36	32	79	21	7	10	75	10		51	46	40	66	12	10																																		
JAN 16th																						JAN 17th																						JAN 18th																					
01	04	10	110	7		52	48	44	74	12	15	5	UNL	8		53	50	46	77	25	9	0	UNL	10		32	31	28	85	19	4																																		
04	07	10	31	7		54	53	52	93	15	9	0	UNL	10		46	43	39	77	26	10	0	UNL	10		34	32	29	82	23	6																																		
07	10	10	5	5		59	59	59	100	16	9	0	UNL	10		44	41	36	74	27	10	6	UNL	12		36	34	30	79	24	9																																		
10	13	10	4	2		61	61	61	100	19	7	0	UNL	10		50	44	37	61	27	14	2	UNL	10		46	40	33	61	26	18																																		
13	16	10	120	7		64	63	62	93	22	7	8	UNL	10		54	45	35	49	28	13	1	UNL	10		52	44	33	49	27	17																																		
16	19	10	75	7		61	61	61	100	19	8	2	UNL	12		54	45	34	47	27	10	1	UNL	10		54	44	31	42	27	13																																		
19	22	4	UNL	8		61	60	60	97	25	12	0	UNL	12		49	42	33	54	29	11	0	UNL	10		48	39	27	44	26	11																																		
01	04	6	80	8		55	54	53	93	22	8	0	UNL	10		43	38	30	60	27	7	3	UNL	10		44	38	28	54	26	11																																		

## 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

JAN 1991  
RICHMOND, VA 13740

HOUR L.S.T.	SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE				WIND		WEATHER	SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE				WIND		WEATHER	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)			CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																						
JAN 19th																												JAN 20th																												JAN 21st																											
01	0	UNL	10	41	35	26	55	28	8		10	60	6	1	RF	44	44	43	96	18	8	10	55	7		R	49	46	43	80	22	7																																																			
04	0	UNL	10	33	31	27	79	24	3		10	3	1		RF	43	43	43	100	35	5	4	UNL	10			47	45	42	83	24	10																																																			
07	9	UNL	10	39	34	27	62	25	10		8	65	4		RF	44	44	44	100	01	5	0	UNL	10			45	41	35	68	28	15																																																			
10	10	250	10	44	38	28	54	30	3		3	UNL	7			49	47	44	83	31	6	0	UNL	12			46	39	28	50	31	16																																																			
13	10	250	10	51	42	31	47	18	4		0	UNL	10			56	49	41	57	35	8	3	UNL	15			48	40	28	46	33	18																																																			
16	10	150	10	50	43	34	54	19	8		0	UNL	15			58	49	40	51	24	9	7	65	15			44	37	25	47	35	13																																																			
19	10	55	10	48	43	36	63	18	7		10	55	12			50	46	42	74	20	7	10	70	15			37	31	21	52	35	17																																																			
22	10	55	7	46	43	40	80	19	8		10	85	12			50	46	42	74	24	6	3	UNL	15			31	26	16	54	36	8																																																			
JAN 22nd																												JAN 23rd																												JAN 24th																											
01	3	UNL	15	28	24	16	61	35	7		0	UNL	10			19	16	8	62	13	3	6	UNL	10			33	29	22	64	21	7																																																			
04	3	UNL	15	26	23	15	63	01	8		0	UNL	10			19	17	11	71	17	6	7	UNL	10			35	31	24	64	24	8																																																			
07	0	UNL	15	22	19	12	65	01	12		0	UNL	10			19	17	11	71	18	5	10	200	10			37	33	25	62	22	7																																																			
10	0	UNL	10	25	20	8	48	01	12		0	UNL	10			32	28	19	59	18	12	10	200	10			40	35	28	62	22	6																																																			
13	2	UNL	12	30	24	9	41	34	16		0	UNL	10			42	35	23	47	21	18	10	140	10			44	38	30	58	22	7																																																			
16	0	UNL	12	30	24	7	38	33	6		0	UNL	12			45	37	24	44	22	13	10	140	10			45	39	30	56	23	6																																																			
19	0	UNL	12	25	20	6	44	08	3		0	UNL	12			34	30	21	59	20	8	10	140	10			40	36	31	70	19	4																																																			
22	0	UNL	12	19	16	7	59	13	5		5	UNL	10			32	28	21	64	20	9	10	140	10			41	37	31	68	28	5																																																			
JAN 25th																												JAN 26th																												JAN 27th																											
01	10	200	10	36	30	20	52	01	10		0	UNL	12			22	20	14	71	00	0	0	UNL	10			35	31	24	64	22	8																																																			
04	3	UNL	15	31	27	17	56	01	12		0	UNL	12			18	17	15	88	00	0	0	UNL	10			31	28	23	72	33	4																																																			
07	6	UNL	15	25	21	11	55	01	10		5	UNL	12			17	16	13	84	00	0	5	UNL	7			26	25	22	85	00	0																																																			
10	2	UNL	12	28	23	10	47	01	10		6	UNL	7			31	28	22	69	21	3	10	UNL	7			41	36	28	60	00	0																																																			
13	1	UNL	12	34	27	13	42	32	7		0	UNL	8			40	34	24	53	19	8	1	UNL	8			51	42	31	47	20	3																																																			
16	1	UNL	12	36	29	13	39	35	6		0	UNL	10			45	38	26	47	17	8	3	UNL	8			52	43	32	47	14	14																																																			
19	0	UNL	12	27	22	11	51	11	4		0	UNL	10			34	30	22	62	17	6	10	UNL	8			45	38	27	49	16	8																																																			
22	0	UNL	12	25	21	9	51	12	5		0	UNL	10			33	29	22	64	19	11	10	75	8			47	40	30	52	18	11																																																			
JAN 28th																												JAN 29th																												JAN 30th																											
01	10	95	8	48	40	30	50	20	14		5	UNL	10			34	33	32	92	00	0	10	35	8			47	47	46	96	14	3																																																			
04	10	80	8	49	41	30	48	22	7		10	80	8			37	36	35	93	00	0	10	31	8			47	47	46	96	18	5																																																			
07	10	150	8	48	40	29	48	23	8		9	UNL	7			35	35	34	96	08	3	10	140	7			49	49	49	100	19	7																																																			
10	10	100	8	51	42	31	47	00	0		10	250	7			44	43	41	89	10	4	10	37	6		F	54	53	52	93	18	7																																																			
13	10	95	8	54	45	34	47	02	11		10	65	8			57	50	43	60	16	8	10	10	5		F	57	56	55	93	19	10																																																			
16	9	110	8	55	45	33	44	03	4		10	250	8			58	51	43	58	12	7	10	10	5		F	58	57	57	97	20	9																																																			
19	3	UNL	10	44	41	37	77	07	4		10	150	8			49	46	42	77	12	5	10	13	5		F	58	58	58	100	19	12																																																			
22	2	UNL	10	42	39	36	79	13	4		10	150	8			47	46	45	93	18	4	10	13	5		F	60	59	59	97	20	13																																																			
JAN 31st																																																																																			
01	10	60	7	59	59	59	100	22	11																																																																										
04	10	120	7	58	54	50	75	26	14																																																																										
07	10	250	10	47	41	34	61	31	12																																																																										
10	10	250	10	46	39	28	50	28	12																																																																										
13	10	250	10	46	37	22	39	30	18																																																																										
16	9	250	12	45	35	15	30	29	8																																																																										
19	3	UNL	12	40	31	12	32	33	14																																																																										
22	1	UNL	10	32	26	12	43	01	6																																																																										

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	NET BULB OF	DEW POINT OF				
01	7	29.970	38	36	32	80	7.3	24	1.0
04	6	29.970	36	34	31	83	6.8	31	1.4
07	7	29.990	36	34	30	83	7.8	33	1.9
10	7	30.030	41	37	32	74	8.5	31	3.1
13	7	29.970	47	41	33	63	10.7	29	3.2
16	7	29.950	48	42	33	61	8.8	27	1.4
19	6	29.980	42	38	33	72	8.3	31	0.4
22	6	29.990	40	37	32	75	8.0	22	1.3

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JAN 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			T	0.01	T	0.01	0.02	0.01	0.03															02	
03																								03	
04																								04	
05																								05	
06																								06	
07			T	T	T	0.02	0.02	T	T	0.02	0.03	T	0.16	0.14	0.04	0.11	0.05	0.02	0.03	0.02	0.01	T		07	
08													0.01	0.01	0.03	0.05	0.12	0.12	0.12	0.07	T			08	
09		T	T	T	T	T	T																	09	
10																								10	
11			0.01	0.01	0.02	0.01	T	T	0.01	0.04	0.03	0.05	0.07	0.10	0.15	0.19	0.12	0.16	0.13	0.24	0.12	0.07	0.03	0.02	11
12											0.01	0.06	T								T	0.02	0.01	0.01	12
13	T	T	T																						13
14																									14
15																									15
16			T	0.04	0.03	0.02	0.06	0.02	T	T	T			T	0.06	0.02	T								16
17																									17
18																									18
19																									19
20	T	T	0.08	T	0.05	0.08	0.04	0.02														T	0.01	T	20
21	T	T																							21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																								0.04	30
31	0.04																								31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.05	0.06	0.07	0.10	0.13	0.19	0.25	0.30	0.34	0.38	0.46	0.54
ENDED: DATE	11	11	11	11	11	11	11	11	11	11	11	11
ENDED: TIME	1256	2001	2004	2011	2007	2001	2011	2031	2049	2043	2031	2035

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:  
CHARLOTTE WARD

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