

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

NOV 1992
 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 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 177 FEET ABOVE H.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		FASTEST 1-MIN		MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT
																SPEED	DIRECTION	SPEED	DIRECTION				
01	52	49	51	-2	50	14	0	1	0	0.04	0.0	30.010	05	5.0	5.5	15	E	10	07	0	0	10	10
02	63	50	57	4	56	8	0	1	0	0.24	0.0	29.890	11	6.9	8.5	24	SE	16	14	4	1	10	10
03	74	52	63	10	53	2	0	1	0	0.37	0.0	29.860	07	2.1	7.6	18	N	15	02	463	73	4	5
04	73	49	61	9	57	4	0	1	0	0.10	0.0	29.770	18	7.5	7.9	20	S	15	19	169	27	10	10
05	68	45	57	5	55	8	0	1	0	0.35	0.0	29.610	36	6.6	8.5	32	N	22	34	0	0	10	10
06	52	37	45	-7	34	20	0	0	0	0.00	0.0	29.910	35	8.2	8.8	22	NW	13	35	317	51	5	6
07	51	41	46	-6	32	19	0	0	0	0.00	0.0	30.060	35	5.9	6.5	14	NW	9	03	207	33	9	9
08	49	29	39	-12	31	26	0	1	0	0.00	0.0	30.215	34	6.4	6.6	18	NW	13	33	502	81	6	5
09	52	28	40	-11	27	25	0	1	0	0.00	0.0	30.380	03	2.7	4.2	13	W	9	08	612	99	0	0
10	59	29	44	-7	34	21	0	0	0	0.00	0.0	30.360	12	2.9	4.6	17	SE	9	14	576	93	3	1
11	72	37	55	5	46	10	0	1	0	0.00	0.0	30.140	21	7.8	8.3	25	SW	16	23	524	85	4	4
12	71	48	60	10	56	5	0	1	0	0.26	0.0	29.760	16	13.1	13.3	38	S	25	16	94	15	10	8
13	68	36	52	-2	32	13	0	0	0	0.03	0.0	29.725	27	7.3	9.8	26	SW	18	19	489	80	1	3
14	51	31	41	-8	23	24	0	0	0	0.00	0.0	29.990	30	2.6	4.0	14	SW	9	33	535	88	0	2
15	48	27	38	-11	23	27	0	1	0	0.00	0.0	30.080	33	5.6	6.7	21	NW	16	33	445	73	4	3
16	46	23*	35*	-14	19	30	0	1	0	0.00	0.0	30.265	34	2.3	5.5	16	N	14	34	596	98	0	1
17	64	29	47	-1	27	18	0	0	0	0.00	0.0	30.050	19	10.1	10.3	23	SW	18	20	528	87	7	7
18	68	41	55	7	39	10	0	0	0	0.00	0.0	30.035	14	1.8	4.8	12	S	8	15	426	71	6	6
19	49	42	46	-2	44	19	0	1	0	T	0.0	30.205	02	8.4	8.6	16	NE	12	02	0	0	10	9
20	55	41	48	0	40	17	0	1	0	T	0.0	30.330	04	8.5	9.2	16	E	13	03	79	13	9	9
21	75*	45	60	13	53	5	0	1	0	0.03	0.0	30.070	14	7.0	9.7	23	SE	16	16	347	58	9	9
22	73	62	68*	21	62	0	3	1	0	0.09	0.0	29.760	17	13.0	13.2	28	SE	20	16	45	8	10	10
23	74	53	64	17	54	1	0	0	3	0.73	0.0	29.620	23	7.2	12.6	32	SW	17	23	427	72	9	9
24	60	46	53	7	44	12	0	1	0	0.04	0.0	29.920	04	6.1	7.6	14	E	13	03	209	35	9	8
25	60	53	57	11	54	8	0	1	0	0.03	0.0	29.950	35	0.8	5.7	13	S	10	26	6	1	10	10
26	67	57	62	16	60	3	0	2	0	0.16	0.0	29.810	18	4.5	6.6	18	N	13	15	0	0	10	10
27	61	44	53	8	41	12	0	1	0	0.15	0.0	29.840	01	7.8	8.5	18	N	14	02	0	0	10	9
28	53	42	48	-3	35	17	0	0	0	T	0.0	29.860	34	5.6	6.2	13	NW	10	33	280	48	9	9
29	50	34	42	-3	33	23	0	0	0	0.00	0.0	29.910	32	4.3	5.3	14	NW	8	36	166	28	8	6
30	52	26	39	-5	28	26	0	1	8	0.00	0.0	29.865	18	3.2	4.4	13	SW	8	21	465	79	4	5
SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM					
1810	1226				427	3			2.62	0.0	29.975	06	0.3	7.6	38	S	25	16	8511	46	206	203	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION		DEP.						DATE: 12	DATE: 12	POSSIBLE	MONTH	AVG.	AVG.			
60.3	40.9	50.6	1.7	41.4	-56	3	.01 INCH.		14	-0.67									18316	46	6.9	6.8	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF									
MAXIMUM TEMP.		MINIMUM TEMP.		739		1240		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS		SNOW, ICE PELLETS OR ICE AND DATE									
≥ 90°		≤ 32°		≤ 32°		≤ 0°		HEAVY FOG		0.82		22-23		0.0									
0		0		8		0		11		-96		CLEAR 5		PARTLY CLOUDY 8		CLOUDY 17							

* 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. Hader
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

NOV 1992
RICHMOND, VA

13740

HOUR	L.S.T.	NOV 1st										NOV 2nd										NOV 3rd											
		SKY COVER (TENTHS)		VIST-BILITY		TEMPERATURE			WIND			SKY COVER (TENTHS)		VIST-BILITY		TEMPERATURE			WIND			SKY COVER (TENTHS)		VIST-BILITY		TEMPERATURE			WIND				
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR of	MET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR of	MET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR of	MET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		
01	10	3	1	8	LF	49	49	49	100	03	5	10	1	0	8	LF	50	50	50	100	04	4	10	20	1	RF	62	61	61	97	17	10	
04	10	3	1	8	LF	49	49	49	100	03	4	10	1	0	8	LF	51	51	51	100	02	3	10	80	6	RF	63	62	62	97	19	7	
07	10	4	1	8	LF	50	49	49	96	06	4	10	2	0	12	F	52	52	52	100	01	4	10	2	1	RF	61	61	61	100	35	8	
10	10	4	1	8	LF	50	50	49	96	10	3	10	8	2		F	58	57	56	93	10	9	3	UNL	8		66	59	53	63	03	12	
13	10	4	1	8	LF	51	51	50	96	08	4	10	17	7			63	60	57	81	12	10	0	UNL	12		72	58	47	41	36	4	
16	10	5	1	8	LF	51	51	51	100	04	5	10	31	3		LF	61	60	60	97	11	7	2	UNL	12		73	59	47	40	02	6	
19	10	3	1	8	LF	51	51	51	100	07	9	10	70	5		RF	62	60	59	90	12	10	0	UNL	12		57	53	50	78	11	5	
22	10	3	1	8	LF	50	50	49	96	06	5	10	50	7		R	62	60	59	90	14	14	0	UNL	12		53	50	48	83	13	4	
NOV 4th																																	
01	8	UNL	10			50	48	46	86	16	3	10	8	2		RF	68	67	67	97	21	6	10	75	7		44	43	41	89	36	9	
04	8	UNL	10			51	49	47	86	15	4	10	75	2		RF	65	64	63	93	29	6	2	UNL	7		41	39	36	83	36	9	
07	9	16	6		F	52	51	49	90	15	4	10	3	2		RF	63	63	63	100	01	4	0	UNL	7		37	35	33	86	02	5	
10	10	UNL	7			65	60	56	73	18	11	10	5	1		RF	56	55	54	93	01	13	1	UNL	8		48	42	35	61	34	10	
13	10	60	7			71	64	60	68	19	9	10	5	1		RF	54	53	52	93	03	7	8	41	8		50	42	32	50	01	8	
16	10	47	7			71	65	62	73	19	8	10	3	1		8	LF	53	53	52	96	02	4	10	45	10		49	42	33	54	32	10
19	10	50	3		RF	66	65	64	93	18	7	10	2	1		LF	54	54	53	96	03	5	10	55	10		46	40	31	56	36	7	
22	10	3	2		F	68	67	67	97	17	9	10	9	6		F	46	45	44	93	36	14	10	55	10		44	39	33	65	35	6	
NOV 5th																																	
01	10	55	10			44	39	32	63	33	5	10	65	8			42	40	37	83	35	5	0	UNL	7		30	29	26	85	00	0	
04	10	55	10			43	38	32	65	32	5	7	44	8			38	37	35	89	32	4	0	UNL	6		30	29	28	92	00	0	
07	10	75	10			42	39	34	73	32	5	4	UNL	6		F	38	37	35	89	32	3	0	UNL	5		29	28	26	89	33	4	
10	5	UNL	8			47	41	32	56	35	6	5	UNL	10			46	40	31	56	34	9	0	UNL	10		45	38	28	52	05	5	
13	10	60	10			49	40	28	44	33	5	5	UNL	12			45	39	29	54	35	7	0	UNL	12		51	41	25	36	27	5	
16	10	60	10			48	40	29	48	34	6	9	60	12			46	38	25	44	35	6	0	UNL	12		51	41	25	36	01	6	
19	10	65	8			44	40	34	68	36	5	0	UNL	10			38	34	27	65	01	5	0	UNL	12		40	36	29	65	09	4	
22	10	60	8			43	40	36	76	04	5	0	UNL	8			33	31	28	82	00	0	0	UNL	10		37	34	29	73	12	3	
NOV 6th																																	
NOV 7th																																	
NOV 8th																																	
NOV 9th																																	
NOV 10th																																	
NOV 11th																																	
NOV 12th																																	
NOV 13th																																	
NOV 14th																																	
NOV 15th																																	
NOV 16th																																	
NOV 17th																																	
NOV 18th																																	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.24	0.34	0.40	0.45	0.51	0.67	0.70	0.70	0.70	0.73	0.73	0.73
ENDED: DATE	23	23	23	23	23	23	23	23	23	23	23	23
ENDED: TIME	0358	0359	0359	0404	0407	0404	0359	0359	0359	0459	0459	0459

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.

OBSERVATIONS AT 3-HOUR INTERVALS

NOV 1992
RICHMOND, VA 13740

HOUR L.S.T.	VISI-BILITY				WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY				WEATHER	TEMPERATURE				WIND												
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	REL HUMIDITY %		AIR of	NET BULB of	DEW POINT of	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET		WHOLE MILES	16THS MILE	REL HUMIDITY %	AIR of		NET BULB of	DEW POINT of	DIRECTION	SPEED (KNOTS)	AIR of	NET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)							
NOV 19th																																		
01	3	UNL	10		F	47	44	41	80	03	7		10	4	1	8	LF	42	41	40	93	03	11		8	95	8		46	44	42	86	01	6
04	10	12	5		F	48	47	45	89	02	4		10	8				41	40	39	93	01	8		10	75	8		47	46	44	89	05	5
07	10	5	4		LF	48	47	46	93	02	10		10	26	6		F	41	40	38	89	01	7		10	32	7		49	48	47	93	10	3
10	10	2	0	8	LF	47	47	46	96	01	7		10	31	6			46	42	38	74	04	9		8	UNL	8		65	58	53	65	15	13
13	10	2	0	12	F	47	47	46	96	01	7		10	27	7			51	45	39	64	04	9		9	35	8		72	63	57	59	16	14
16	10	4	0	12	F	46	46	45	96	02	10		7	40	8			53	47	40	62	09	9		10	80	8		72	63	57	59	15	8
19	10	3	1	8	LF	45	44	43	93	04	5		10	29	8			51	46	41	69	04	8		10	32	7		64	62	60	87	15	10
22	10	4	1	8	LF	43	42	41	93	03	9		6	UNL	8			47	44	41	80	06	7		10	41	6	RHF	62	61	61	97	16	9
NOV 20th																																		
NOV 21st																																		
NOV 22nd																																		
01	10	90	6		F	62	61	60	93	16	7		10	39	7			69	67	65	87	16	13		8	250	10		51	45	39	64	36	6
04	10	90	7			64	61	59	84	17	8		10	21	2	TRW		66	64	63	90	23	10		10	180	10		49	45	40	71	36	10
07	10	40	7			64	62	61	90	16	9		4	UNL	7			69	67	65	87	20	12		7	120	10		56	49	41	57	04	9
10	10	20	7			69	65	63	81	19	15		7	UNL	10			72	62	54	53	23	15		10	250	10		56	51	42	54	04	6
13	10	17	7			70	67	65	84	18	13		10	UNL	10			74	61	52	46	23	12		10	150	10		59	51	42	54	04	6
16	10	29	8			71	66	63	76	17	11		10	UNL	12			70	57	47	44	25	12		10	130	10		59	52	45	60	10	7
19	10	150	8			69	64	61	76	16	11		10	250	10			64	54	45	50	29	4		10	15	7	R	55	53	52	90	12	4
22	10	20	8			70	66	63	79	17	14		10	250	10			56	49	41	57	02	10		10	7	5	RF	55	54	53	93	19	3
NOV 23rd																																		
NOV 24th																																		
NOV 25th																																		
01	10	3	1	8	RLF	54	54	53	96	36	6		10	4	2	8	LF	58	57	56	93	09	5		8	23	8		60	59	58	93	28	5
04	10	3	1	8	LF	53	53	53	100	34	5		10	1	1	8	RF	58	57	57	97	26	4		3	UNL	8		52	48	43	72	01	10
07	10	2	1	8	F	53	53	53	100	35	6		10	2	1		RF	58	57	57	97	16	5		10	31	8		49	44	38	66	01	10
10	10	4	2		F	56	55	54	93	36	4		10	2	0	8	RF	60	59	59	97	15	5		10	33	10		49	43	35	59	02	7
13	10	11	3		F	59	56	54	84	13	8		10	15	1	8	RF	63	62	62	97	15	6		10	35	6		45	43	41	86	03	7
16	10	120	3		F	60	58	56	87	16	6		10	20	2	8	F	65	64	64	97	20	6		10	50	6	R	45	44	42	89	03	7
19	10	120	3		F	57	56	55	93	17	5		10	15	6		F	66	65	64	93	19	7		10	41	7		46	44	42	86	02	5
22	10	5	2		F	58	57	57	97	35	3		10	150	8			64	62	60	87	23	10		10	28	7		45	41	37	74	35	10
NOV 26th																																		
NOV 27th																																		
NOV 28th																																		
01	10	39	7			44	41	36	74	36	4		4	UNL	10			44	41	36	74	31	4		0	UNL	8		32	31	29	89	33	3
04	10	39	8			44	40	35	71	36	7		8	65	8			41	39	36	83	34	4		0	UNL	8		29	28	27	92	00	0
07	10	41	8			42	39	34	73	34	7		10	70	8			42	39	35	76	30	4		0	UNL	5	F	27	26	25	92	19	3
10	10	44	8			45	40	34	66	01	6		10	75	8			44	40	34	68	35	5		3	UNL	6	FH	41	37	31	68	13	5
13	7	UNL	8			52	44	35	53	33	9		10	40	7			49	42	32	52	33	7		2	UNL	7		49	41	29	46	16	7
16	9	49	10			50	43	34	54	34	7		8	60	8			47	41	33	58	31	5		8	UNL	8		51	40	24	35	24	6
19	10	55	10			46	42	37	71	35	5		0	UNL	8			39	37	33	79	00	0		10	UNL	8		42	37	29	60	17	3
22	10	60	10			45	42	39	80	00	0		0	UNL	8			39	35	30	70	28	5		10	200	7		40	36	30	68	14	4
NOV 29th																																		
NOV 30th																																		

WEATHER CODES

- | | | |
|---|---|---|
| <p>* TORNADO
T THUNDERSTORM
Q SQUALL
R RAIN
RW RAIN SHOWERS
ZR FREEZING RAIN
L DRIZZLE
ZL FREEZING DRIZZLE
S SNOW</p> | <p>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</p> | <p>GF GROUND FOG
BD BLOWING DUST
BN BLOWING SAND
BS BLOWING SNOW
BY BLOWING SPRAY
K SMOKE
H HAZE
D DUST</p> |
|---|---|---|

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 1.151).

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	47	45	42	83	6.5	34	0.6
04	6	29.970	46	44	41	84	6.3	33	2.5
07	7	30.000	45	43	41	86	6.1	36	1.6
10	6	30.020	53	47	41	66	9.7	02	1.7
13	7	29.970	57	49	40	58	9.7	21	1.5
16	7	29.945	57	50	41	59	8.8	22	0.9
19	7	29.960	51	47	43	74	6.9	13	2.9
22	7	29.970	49	46	43	80	7.5	13	1.9

