

LOCAL CLIMATOLOGICAL DATA

Monthly Summary



R.E. BYRD INTERNATIONAL AP.

LATITUDE 37°30' LONGITUDE 77°20' ELEVATION (GROUND) 164 FEET TIME ZONE EASTERN 13740

NOV 1984
 RICHMOND, VIRGINIA

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 MINUTES PERCENT OF TOTAL POSSIBLE	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	FASTEST MILE	MINUTES		PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
01	72	52	62*	9	55	3	0	2	8	0	0.00	0.0	30.120	04	2.0	3.5	9	09	213	33	7	6	01
02	70	48	59	6	44	6	0	1	8	0	0.00	0.0	29.960	36	6.0	11.0	20	01	77	12	4	9	02
03	58	40	49	-4	30	16	0	0	0	0	0.00	0.0	30.090	02	8.9	9.3	17	03	363	57	10	4	03
04	64	42	53	1	48	12	0	1	0	0	0.06	0.0	29.810	05	5.4	7.9	14	09	55	9	10	9	04
05	68	54	61	9	52	4	0	1	8	0	0.05	0.0	29.570	26	5.4	7.0	16	32	214	34	8	9	05
06	58	40	49	-3	35	16	0	0	0	0	0.00	0.0	29.780	34	10.0	10.7	17	32	278	44	9	7	06
07	54	32	43	-9	26	22	0	0	0	0	0.00	0.0	30.110	34	8.1	8.6	20	31	625	100	1	1	07
08	57	29	43	-8	27	22	0	0	0	0	0.00	0.0	30.200	01	3.6	4.4	9	36	486	78	2	3	08
09	63	30	47	-4	32	18	0	1	8	0	0.00	0.0	30.055	16	2.4	3.2	7	17	496	80	4	4	09
10	70	37	54	3	34	11	0	0	0	0	0.00	0.0	29.820	19	9.0	9.4	15	21	472	76	6	5	10
11	66	52	59	9	50	6	0	1	3	0	0.51	0.0	29.580	22	3.6	9.4	16	25	51	8	10	9	11
12	52	38	45	-5	28	20	0	0	0	0	0.00	0.0	29.790	32	9.0	9.7	14	31	210	34	7	7	12
13	54	33	44	-6	23	21	0	0	0	0	0.00	0.0	29.880	30	8.7	9.7	16	32	152	25	7	4	13
14	59	30	45	-4	20	20	0	0	0	0	0.00	0.0	30.100	29	7.0	7.5	13	31	612	100	0	0	14
15	68	28	48	-1	26	17	0	0	0	0	0.00	0.0	30.010	20	10.3	10.7	18	21	472	77	8	7	15
16	66	35	51	2	29	14	0	0	0	0	0.00	0.0	29.830	25	8.1	10.5	20	27	433	71	8	6	16
17	57	27	42	-6	18	23	0	0	0	0	0.00	0.0	30.050	30	3.6	4.3	9	33	430	71	3	1	17
18	52	27	40	-8	28	25	0	0	0	0	0.01	0.0	29.930	13	1.8	3.9	10	15	0	0	10	8	18
19	43	33	38	-10	35	27	0	1	0	0	1.05	0.0	29.775	01	8.9	9.4	14	36	0	0	10	9	19
20	40	28	34*	-14	18	31	0	0	0	0	0.00	0.0	30.170	35	10.9	11.3	16	36	470	78	2	3	20
21	44	25	35	-12	19	30	0	0	0	0	0.00	0.0	30.350	36	8.1	8.4	15	02	442	74	3	3	21
22	46	26	36	-11	20	29	0	0	0	0	0.00	0.0	30.380	01	7.4	7.8	15	03	599	100	0	0	22
23	56	20*	38	-9	20	27	0	1	8	0	0.00	0.0	30.140	34	1.7	2.0	6	02	597	100	4	2	23
24	58	25	42	-4	25	23	0	1	8	0	0.00	0.0	30.020	29	0.7	2.5	8	27	596	100	0	0	24
25	62	27	45	-1	28	20	0	1	8	0	0.00	0.0	30.060	07	0.7	2.2	7	07	583	98	2	2	25
26	66	27	47	1	30	18	0	1	8	0	0.00	0.0	30.130	17	3.4	4.0	9	22	593	100	4	2	26
27	65	30	48	3	39	17	0	2	8	0	0.00	0.0	30.140	14	4.5	5.0	12	15	320	54	9	6	27
28	74*	46	60	15	50	5	0	1	0	0	1.66	0.0	29.725	16	8.7	12.6	22	27	70	12	10	10	28
29	53	32	43	-2	29	22	0	0	0	0	0.00	0.0	29.735	28	5.6	7.3	13	30	589	100	0	2	29
30	59	28	44	0	30	21	0	0	0	0	0.00	0.0	29.730	19	6.4	6.8	12	20	588	100	1	1	30
SUM	SUM				TOTAL	TOTAL		NUMBER OF DAYS			TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM			
1774	1021				546	0					3.34	0.0	29.970	32	1.9	7.3	22	27	11086	FOR	159	139	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.			PRECIPITATION			DEP.						DATE: 28	POSSIBLE	MONTH	AVG.	AVG.		
59.1	34.0	46.6	-2.3	31.5	63	0		> .01 INCH.		6	0.05							18316	61	5.3	4.6		
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									
MAXIMUM TEMP.						675	1497	THUNDERSTORMS		1		PRECIPITATION		SNOW, ICE PELLETS		0							
MINIMUM TEMP.						DEP.	DEP.	HEAVY FOG		2		1.66		28		0.0							
° 90°						0	0	CLEAR		11		PARTLY CLOUDY		8		CLOUDY		11					

* 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. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: 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). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND NOTED IN SUBSEQUENT PUBLICATIONS.

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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

NOV 1984
RICHMOND, VIRGINIA 13740

HOUR L.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)																																												
NOV 19th																						NOV 20th																						NOV 21st																					
01	10	4	7	R	43	41	38	83	03	6	10	100	12				35	32	27	73	02	8	0	UNL	15				28	25	17	63	34	8																															
04	10	4	5	R	42	40	38	86	02	5	4	UNL	12				33	29	21	61	36	8	0	UNL	15				27	24	17	66	34	7																															
07	10	4	2	RF	42	40	38	86	03	7	7	75	12				30	27	20	66	35	7	1	UNL	15				25	23	17	72	36	7																															
10	10	5	2	RF	42	40	37	83	02	10	4	UNL	15				34	28	17	50	36	13	1	UNL	15				36	30	18	48	35	12																															
13	10	8		LF	42	40	37	83	01	10	1	UNL	15				38	30	15	39	34	13	4	UNL	15				40	33	20	45	02	10																															
16	10	12	5	F	41	38	35	79	36	10	0	UNL	15				39	31	16	39	34	12	3	UNL	15				42	34	21	43	02	5																															
19	10	21	7		41	38	33	73	36	12	0	UNL	15				31	26	16	54	36	8	10	250	15				35	30	21	57	04	3																															
22	2	UNL	12		37	34	29	73	36	9	0	UNL	15				29	25	17	61	36	4	3	UNL	15				31	27	19	61	36	6																															
NOV 22nd																						NOV 23rd																						NOV 24th																					
01	0	UNL	15		29	26	20	69	35	7	0	UNL	12				24	22	19	81	00	0	0	UNL	10				26	24	20	78	00	0																															
04	0	UNL	15		28	25	18	66	36	8	0	UNL	10				23	22	18	81	00	0	0	UNL	6			K	26	24	20	78	34	4																															
07	0	UNL	15		27	24	17	66	36	8	0	UNL	3				20	19	15	81	00	0	0	UNL	5			F	27	24	18	69	00	0																															
10	0	UNL	15		35	30	19	52	03	13	6	UNL	7			FX	39	33	24	55	31	4	0	UNL	6			H	43	38	30	60	00	0																															
13	0	UNL	15		43	36	23	45	03	9	4	UNL	10				49	39	24	38	00	0	0	UNL	15				53	43	30	42	21	3																															
16	0	UNL	15		45	37	23	42	04	7	1	UNL	15				55	42	22	28	02	5	0	UNL	15				57	45	29	34	00	0																															
19	0	UNL	15		31	28	23	72	06	4	0	UNL	15				34	30	21	59	35	4	0	UNL	15				39	35	28	65	18	3																															
22	0	UNL	15		28	25	20	72	36	4	0	UNL	10				30	27	21	69	00	0	0	UNL	15				33	30	26	76	00	0																															
NOV 25th																						NOV 26th																						NOV 27th																					
01	0	UNL	10		29	27	23	78	00	0	0	UNL	7				31	29	25	79	00	0	0	UNL	7				36	34	30	79	00	0																															
04	0	UNL	7		28	26	23	82	00	0	0	UNL	7				30	28	25	82	00	0	0	UNL	5			H	32	31	28	85	00	0																															
07	0	UNL	5		27	25	22	81	00	0	2	UNL	2			F	27	25	22	81	00	0	10	0	0			F	33	32	30	89	13	4																															
10	0	UNL	6		48	40	29	48	08	5	7	UNL	5			H	48	43	37	66	21	4	9	250	1			F	44	41	38	80	02	3																															
13	0	UNL	7		58	46	32	38	23	3	7	UNL	6			H	62	50	36	38	22	8	10	50	6			H	60	51	42	52	20	6																															
16	7	UNL	8		60	47	30	32	00	0	2	UNL	7				63	49	33	33	14	6	9	250	8				64	54	45	50	15	7																															
19	6	UNL	10		42	38	31	65	00	0	0	UNL	10				45	39	31	58	15	4	3	UNL	8				53	50	46	77	13	6																															
22	4	UNL	10		35	32	27	73	13	3	0	UNL	10				42	38	33	71	13	5	7	250	8				56	52	49	78	15	10																															
NOV 28th																						NOV 29th																						NOV 30th																					
01	10	45	8		54	51	49	83	15	9	10	33	8				45	41	36	71	28	8	0	UNL	15				32	30	27	82	00	0																															
04	8	45	10		55	52	49	80	15	8	7	40	15				40	36	29	65	26	9	0	UNL	15				29	28	25	85	00	0																															
07	10	45	12		56	53	50	80	14	9	1	UNL	15				36	33	27	70	24	7	0	UNL	12				28	26	23	82	18	4																															
10	10	250	10		53	57	53	70	15	15	0	UNL	10				45	38	28	52	30	7	2	UNL	8				45	40	34	66	18	7																															
13	10	100	12		70	60	52	53	16	17	0	UNL	12				51	42	29	43	30	5	0	UNL	15				58	47	33	39	21	8																															
16	10	33	2	8	58	60	54	61	16	15	0	UNL	15				52	42	29	41	31	7	3	UNL	15			R	57	46	32	39	16	9																															
19	10	4	2	8	53	51	49	86	15	6	0	UNL	15				38	35	29	70	15	4	2	UNL	15			RF	40	36	31	70	19	6																															
22	10	6	2	8	51	49	47	86	36	7	0	UNL	15				34	32	28	79	15	3	0	UNL	15			RW	45	40	32	61	19	10																															
NOV 31st																																																																	

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES				RESULTANT WIND		
			TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	4	29.980	40	36	31	72	5.3	32	2.0
04	4	29.970	38	35	30	74	5.9	32	1.8
07	5	29.990	37	34	29	74	6.0	29	1.5
10	6	30.010	49	42	33	57	9.6	33	2.1
13	6	29.950	56	46	33	44	10.3	29	3.8
16	5	29.930	57	46	32	41	9.3	34	1.8
19	4	29.960	46	40	32	59	6.9	35	1.6
22	4	29.970	42	38	31	66	5.7	01	1.3

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

NOV 1984
RICHMOND, VIRGINIA

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																								04	
05	0.01																							05	
06																								06	
07																								07	
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18																								18	
19	T	0.17	0.19	0.10	0.04	0.34	0.08	0.05	0.02	0.05	0.01	T												19	
20																								20	
21																								21	
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29																								29	
30																								30	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.20	0.35	0.45	0.55	0.65	0.73	0.80	0.87	0.94	1.01	1.10	1.20
ENDED: DATE	28	28	28	28	28	28	28	28	28	28	28	28
ENDED: TIME	1625	1630	1635	1640	1650	1705	1720	1740	1800	1800	1850	1851

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.

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