

NOV 1986
 RICHMOND, VA
 NAT'L WEA SER OFC
 BOX A-63, RICHMOND INT'L AIRPORT

ISSN 0198-537X

LOCAL CLIMATOLOGICAL DATA

Monthly Summary



R.E. BYRD INTERNATIONAL AP.

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

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	FASTEST MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	WINDMIGHT TO MIDNIGHT	DATE		
01	74	46	60	7	53	5	0		0	0.00	0.0	30.290	05	5.3	6.9	12	03	545	85	6	6	01	
02	70	55	63	10	57	2	0	1	8	0.02	0.0	30.030	35	4.4	6.1	17	02	196	31	9	9	02	
03	58	43	51	-2	38	14	0			0.00	0.0	30.020	04	6.4	7.2	16	02	253	40	9	8	03	
04	72	42	57	5	47	8	0		8	0.00	0.0	29.920	13	0.6	7.2	13	22	379	60	5	5	04	
05	56	45	51	-1	49	14	0	1		0.33	0.0	29.880	02	6.8	8.5	12	32	0	0	10	10	05	
06	57	45	51	-1	48	14	0	2	8	0.00	0.0	29.945	36	4.4	5.1	8	33	253	40	9	9	06	
07	55	48	52	0	51	13	0	2		0.21	0.0	30.200	03	5.7	6.9	9	11	0	0	10	10	07	
08	73	52	63	12	59	2	0	2	8	0.02	0.0	30.070	20	5.6	7.9	15	22	244	39	10	7	08	
09	81*	60	71*	20	60	0	6	1		0.11	0.0	29.910	23	10.8	14.9	23	22	350	56	9	8	09	
10	60	43	52	1	29	13	0			0.00	0.0	30.210	03	7.9	9.1	14	04	431	70	8	9	10	
11	48	46	47	-3	44	18	0	1		0.55	0.0	30.040	35	6.2	8.3	17	32	0	0	10	10	11	
12	47	45	46	-4	42	19	0	1		0.01	0.0	30.080	02	6.0	7.4	12	01	87	14	10	10	12	
13	48	26	37	-13	27	28	0	1		0.00	0.0	30.185	35	11.4	12.1	18	36	275	45	7	6	13	
14	42	21*	32*	-17	16	33	0			0.00	0.0	30.420	01	3.0	6.5	12	02	579	95	2	2	14	
15	49	28	39	-10	33	26	0	1		0.00	0.0	30.050	22	2.0	3.8	7	28	110	18	10	10	15	
16	56	43	50	1	42	15	0	1	8	0.00	0.0	29.800	21	2.5	4.1	7	27	190	31	10	9	16	
17	53	38	46	-2	46	19	0	2		0.00	0.0	29.770	18	2.9	4.8	10	18	103	17	10	9	17	
18	59	47	53	5	49	12	0	2	8	0.14	0.0	29.680	19	3.3	8.3	18	21	210	35	9	9	18	
19	54	31	43	-5	29	22	0			0.00	0.0	29.940	36	10.8	13.1	22	36	571	95	3	2	19	
20	41	31	36	-12	34	29	0	1		0.57	0.0	29.800	34	3.3	7.1	14	27	0	0	10	9	20	
21	55	36	46	-1	33	19	0			0.00	0.0	29.730	29	11.2	11.8	20	30	562	94	4	2	21	
22	53	29	41	-6	29	24	0			0.00	0.0	30.030	32	1.6	3.8	9	02	599	100	0	0	22	
23	52	30	41	-6	39	24	0	1	8	0.07	0.0	30.070	19	4.0	4.2	12	21	203	34	10	9	23	
24	63	47	55	9	51	10	0	1	8	0.05	0.0	29.950	23	3.3	9.0	15	03	337	57	10	10	24	
25	54	37	46	0	36	19	0			0.00	0.0	30.110	07	4.9	6.4	9	12	486	82	9	8	25	
26	70	45	58	12	53	7	0	23		0.45	0.0	29.790	20	2.5	8.0	16	30	0	0	10	10	26	
27	59	41	50	5	45	15	0	1		0.00	0.0	29.890	01	7.0	9.0	18	03	535	90	7	7	27	
28	56	38	47	2	40	18	0			0.00	0.0	30.020	02	2.4	4.4	8	04	426	72	10	10	28	
29	64	38	51	6	41	14	0			0.00	0.0	29.935	05	2.5	5.3	10	03	589	100	3	3	29	
30	52	38	45	1	35	20	0			0.00	0.0	30.085	04	9.1	9.2	14	04	404	69	9	8	30	
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
1731	1214					476	6			2.46	0.0	29.995	36	2.3	7.5	23	22	8917	FOR	238	224		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.			PRECIPITATION	DEP.					DATE:	9	POSSIBLE	MONTH	AVG.	AVG.		
57.7	40.5	49.1	0.2	41.8	-7	6	6			> .01 INCH.	11							18316	49	7.9	7.5		
NUMBER OF DAYS		SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF															
		TOTAL		TOTAL		TOTAL		SNOW, ICE PELLETS		PRECIPITATION		SNOW, ICE PELLETS											
MAXIMUM TEMP.		MINIMUM TEMP.		6.88		16.09		THUNDERSTORMS		1		PRECIPITATION		SNOW, ICE PELLETS									
5 90°		2 32°		2 32°		2 0°		DEP.		DEP.		HEAVY FOG		6		0.57		20					
0		0		7		0		-40		273		CLEAR		4		PARTLY CLOUDY		5					

* 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.

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, ASHEVILLE, NORTH CAROLINA, 28801

noaa

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 1986
RICHMOND, VA

13740

HOUR L.S.T.	SKY COVER (TENTHS)			WEATHER	TEMPERATURE				WIND		VISI-BILITY			WEATHER	TEMPERATURE				WIND		VISI-BILITY			WEATHER	TEMPERATURE				WIND																																																																																											
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																																																	
NOV 1st																														NOV 2nd																														NOV 3rd																																																												
01	5	UNL	10		50	49	48	93	03	10	8	40	7		59	58	57	93	00	0	10	33	7		55	50	45	69	02	14	NOV 4th																														NOV 5th																														NOV 6th																													
04	4	UNL	10		48	48	47	96	01	9	8	80	7		58	57	57	97	34	3	10	33	7		53	47	41	64	03	9	NOV 7th																														NOV 8th																														NOV 9th																													
07	3	UNL	7		47	47	46	96	34	7	8	55	7		57	56	55	93	34	8	10	33	7		50	44	37	61	05	10	NOV 10th																														NOV 11th																														NOV 12th																													
10	6	250	10		61	57	54	78	05	7	10	17	5		62	60	58	87	28	3	10	48	15		51	44	36	57	01	10	NOV 13th																														NOV 14th																														NOV 15th																													
13	7	30	10		72	63	57	59	13	6	6	4	2		63	62	62	97	35	6	10	55	20		56	46	33	42	01	4	NOV 16th																														NOV 17th																														NOV 18th																													
16	8	38	15		71	62	56	59	11	6	9	90	7		68	64	61	78	34	5	7	UNL	20		56	46	33	42	33	5	NOV 19th																														NOV 20th																														NOV 21st																													
19	10	120	12		65	60	56	73	11	5	5	UNL	5		63	62	62	97	00	0	10	48	15		53	46	38	57	04	4	NOV 22nd																														NOV 23rd																														NOV 24th																													
22	9	UNL	15		59	57	56	90	00	0	10	30	8		59	55	51	75	03	15	3	UNL	15		46	44	41	83	00	0	NOV 25th																														NOV 26th																														NOV 27th																													

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

NOV 1986
RICHMOND, VA

13740

HOUR L.S.T.	NOV 19th				NOV 20th				NOV 21st				NOV 22nd				NOV 23rd				NOV 24th				NOV 25th				NOV 26th				NOV 27th				NOV 28th				NOV 29th				NOV 30th																															
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	WIND DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	WIND DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	WIND DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	WIND DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	WIND DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	WIND DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	WIND DIRECTION
01	1	UNL	15			54	-51	49	83	27	13	3	UNL	10			31	29	25	79	06	4	6	75	10					39	39	38	96	28	9																																									
04	0	UNL	15			50	44	37	61	35	10	10	UNL	10			32	30	26	79	05	6	1	UNL	8			40	39	38	93	29	8																																											
07	3	UNL	15			44	39	32	63	35	18	10	35	10			32	31	28	85	05	4	2	UNL	10			40	38	36	86	29	9																																											
10	4	UNL	15			46	40	31	56	36	19	10	28	10			37	36	34	89	02	6	0	UNL	15			49	43	35	59	29	12																																											
13	3	UNL	15			48	39	26	42	35	15	10	4	1	12	RF	38	38	37	96	36	7	5	UNL	15			53	44	32	45	30	16																																											
16	4	UNL	15			47	37	22	37	02	11	10	2	1	8	RF	40	40	39	96	26	3	3	UNL	15			53	43	31	43	27	13																																											
19	0	UNL	15			36	32	24	62	04	5	10	2	1		LF	39	39	39	100	27	12	0	UNL	15			48	40	30	50	30	8																																											
22	6	UNL	15			35	30	20	54	07	8	10	50	5		F	39	39	38	96	23	8	0	UNL	15			40	36	29	65	31	6																																											

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES								RESULTANT WIND	
	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF					
01	7	29.995	46	44	42	85	6.7	36	2.4	
04	7	29.990	45	43	41	86	6.6	36	2.4	
07	8	30.020	44	43	40	87	7.7	35	3.7	
10	8	30.040	49	46	42	77	8.9	01	3.8	
13	8	29.980	54	49	42	67	8.6	35	2.7	
16	8	29.960	55	49	42	66	7.0	33	1.5	
19	7	29.980	50	47	43	78	6.4	04	1.6	
22	7	29.995	48	45	42	82	6.7	02	2.4	

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

NOV 1986
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																								04	
05					0.01	0.02	T	0.03	0.01	0.03		T	T	T	0.04	0.05	0.01	0.09	T		0.03	0.01	T	05	
06	T																							06	
07																								07	
08	0.02							0.03	0.03	0.01	0.01	0.01	0.01	0.02	0.04	T	T	T	0.01	T			0.03	0.02	08
09																									09
10																									10
11						0.03	0.02	T	T	0.01	T	T	0.01	T	0.02	0.12	0.10	0.14	0.06	0.03	T	T	0.01	11	
12					0.01	T														T	T			12	
13																								13	
14																								14	
15																								15	
16																								16	
17																								17	
18																								18	
19																								19	
20																								20	
21																								21	
22																								22	
23																								23	
24	0.01	T	T	0.01	0.02	T					T	0.01				T	T	T						24	
25																								25	
26	T	T	0.03	T	0.01	0.01	T	T	T	T		0.04	0.01	T	T	T	T	T	0.35					26	
27																								27	
28																								28	
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	0.32	0.33	0.34	0.35	0.37	0.37	0.37	0.37	0.37	0.37	0.37
ENDED: DATE	26	26	26	26	26	26	26	26	26	26	26	26
ENDED: TIME	1925	1926	1926	1926	1935	1945	1945	1945	1945	1945	1945	1945

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:
BILL CLAYTON

SUBSCRIPTION PRICE AND ORDERING INFORMATION AVAILABLE FROM:
THE NATIONAL CLIMATIC DATA CENTER, FEDERAL BUILDING
ASHEVILLE, NORTH CAROLINA 28801
ATTN: PUBLICATIONS

RICHMOND, VA
USCOMM - NOAA - ASHEVILLE, NC 455

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

AN EQUAL OPPORTUNITY EMPLOYER

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

COM 210



FIRST CLASS