

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

OCT 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 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			
01	83	54	69	5	58	0	4	2	8	0	0.00	0.0	30.040	19	6.1	7.1	20	SE	16	20	548	77	3	3
02	78	57	68	4	61	0	3	1	8	0	0.08	0.0	29.900	11	1.5	4.2	13	SE	10	13	493	70	10	8
03	81	62	72	8	61	0	7	1	1	0	0.63	0.0	29.790	28	1.2	6.5	14	NW	12	34	466	66	7	8
04	86*	60	73*	10	62	0	8	1	8	0	0.00	0.0	29.880	17	4.9	5.9	14	S	10	20	617	88	0	2
05	81	62	72	9	65	0	7	2	8	0	T	0.0	29.820	16	7.4	7.9	17	S	13	18	390	56	8	6
06	72	45	59	-3	50	6	0	1	0	0	T	0.0	29.800	34	5.1	9.4	26	N	17	02	215	31	9	8
07	63	38	51	-11	31	14	0	0	0	0	0.00	0.0	29.990	30	5.4	6.9	20	NW	14	28	634	91	2	1
08	66	38	52	-9	35	13	0	0	0	0	0.00	0.0	30.150	13	0.4	3.9	15	SW	9	24	692	100	0	0
09	74	40	57	-4	45	8	0	1	0	0	0.00	0.0	30.130	18	5.7	6.3	22	S	15	19	630	91	4	2
10	77	52	65	4	53	0	0	1	0	0	0.00	0.0	29.860	19	5.3	5.7	22	S	15	20	616	90	4	5
11	75	47	61	1	51	4	0	1	8	0	0.02	0.0	29.550	26	2.1	6.2	18	SW	13	36	408	60	10	8
12	67	44	56	-4	49	9	0	2	8	0	0.02	0.0	29.580	29	2.5	3.8	26	SW	14	23	455	67	8	5
13	66	42	54	-6	44	11	0	1	0	0	0.01	0.0	29.840	32	5.4	6.2	18	NW	14	33	601	88	3	3
14	70	37	54	-5	43	11	0	1	0	0	0.00	0.0	29.920	15	6.0	6.5	21	S	14	17	568	84	7	6
15	78	51	65	6	55	0	0	1	8	0	T	0.0	29.680	17	5.6	7.7	20	SE	16	16	495	73	9	9
16	64	49	57	-1	46	8	0	1	0	0	0.38	0.0	29.750	36	11.7	12.1	26	N	18	36	241	36	10	10
17	52	43	48*	-10	44	17	0	1	0	0	1.36	0.0	29.790	30	7.6	10.1	26	NW	18	31	136	20	10	8
18	77	38	58	0	44	7	0	0	0	0	0.00	0.0	29.960	19	5.1	5.5	15	S	12	18	669	100	0	0
19	84	50	67	10	48	0	2	0	0	0	0.00	0.0	29.860	30	2.3	9.4	29	N	20	36	657	99	0	1
20	59	39	49	-8	34	16	0	0	0	0	0.00	0.0	30.070	36	8.1	8.7	24	N	15	01	560	84	4	4
21	63	36	50	-7	38	15	0	0	0	0	0.00	0.0	30.080	13	1.8	4.2	13	S	9	18	609	92	8	5
22	77	42	60	4	50	5	0	1	8	0	0.00	0.0	30.050	16	3.6	4.5	12	S	8	20	630	95	0	0
23	80	50	65	9	57	0	0	1	8	0	0.00	0.0	30.125	14	4.7	5.3	16	S	10	16	548	83	9	4
24	78	51	65	9	57	0	0	2	8	0	0.00	0.0	30.180	08	3.4	4.9	14	NE	10	11	448	68	7	7
25	80	53	67	12	59	0	2	2	8	0	0.00	0.0	30.130	36	0.7	3.1	12	S	7	10	456	70	8	6
26	78	58	68	13	60	0	3	2	8	0	0.00	0.0	30.070	10	2.5	3.9	10	SE	9	12	489	75	8	7
27	78	60	69	14	61	0	4	2	8	0	0.00	0.0	29.970	12	1.7	3.5	9	SE	7	15	431	67	5	5
28	71	47	59	5	51	6	0	2	8	0	0.00	0.0	30.030	01	8.5	8.9	22	N	18	02	313	48	9	6
29	62	37	50	-4	37	15	0	0	0	0	0.00	0.0	30.280	01	8.4	9.0	16	NE	14	36	644	100	0	0
30	67	33*	50	-4	27	15	0	0	0	0	0.00	0.0	30.020	33	8.3	9.1	22	N	15	35	642	100	0	0
31	68	41	55	1	38	10	0	0	0	0	0.00	0.0	29.825	34	8.1	8.6	23	N	16	35	518	81	4	2
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM					
2255	1456					190	40			2.50	0.0	29.940	34	0.5	6.6	29	N	20	36	15819	FOR	166	139	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION		DEP.						DATE: 19	DATE: 19	POSSIBLE	MONTH	AVG.	AVG.	AVG.	AVG.	
72.7	47.0	59.9	1.3	48.7	-31	17		2.01 INCH.		7	-1.24								20882	76	5.4	4.5		
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF										
MAXIMUM TEMP.		MINIMUM TEMP.		215	1822	THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS														
≥ 90°		≤ 32°		0	0	HEAVY FOG		8		1.56		16-17		0.0										
0		0		0	0	CLEAR		10		PARTLY CLOUDY		8		CLOUDY		13								

* 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. 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.

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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

OCT 1991
RICHMOND, VA

13740

HOUR U.S.T.	VISI-BILITY			WEATHER	TEMPERATURE				WIND			SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE				WIND										
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/8THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	AIR OF		WET BULB OF	DEW POINT OF	REL HUMIDITY %		DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/8THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)				
OCT 1st																															
01	0	UNL	6	F	57	56	56	97	06	3	4	UNL	7		61	59	58	90	18	5	10	55	6	RF	66	65	64	93	31	3	
04	3	UNL	2	F	56	55	54	93	35	3	3	UNL	7		59	58	57	93	00	0	10	60	5	RF	63	62	61	93	32	4	
07	10	5	0	12	F	56	56	56	100	14	3	7	UNL	5	F	59	58	57	93	34	3	10	60	7	R	62	60	59	90	32	7
10	0	UNL	5	H	59	64	60	73	19	8	10	250	6	H	69	66	61	66	23	4	7	250	15		68	62	58	71	30	0	
13	0	UNL	7		80	66	58	47	20	11	10	250	7		80	66	62	60	13	7	5	UNL	15		75	66	60	60	00	9	
16	0	UNL	8		81	66	57	44	18	12	10	200	7		74	68	64	71	11	5	4	UNL	15		79	67	60	52	15	7	
19	3	UNL	8		71	64	59	66	17	7	10	130	7		70	67	65	84	06	4	8	300	15		67	64	62	84	16	6	
22	5	UNL	8		65	62	59	81	17	7	10	130	7		67	65	64	90	11	4	10	300	15		65	63	62	90	19	6	
OCT 2nd																															
OCT 3rd																															
OCT 4th																															
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OCT 6th																															
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OCT 16th																															
OCT 17th																															
OCT 18th																															

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- O 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).

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

OCT 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
03	0.10	0.14	0.13	0.03	0.05	T	0.05	0.13	T	T															03
04																									04
05																									05
06		T	T																						06
07																									07
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10																									10
11																									11
12																									12
13		0.01	T																						13
14																									14
15																									15
16		0.05	0.05	0.02	0.04	0.02	T	T	T																16
17	0.07	0.09	0.10	0.11	0.26	0.20	0.12	0.22	0.04	0.01	0.03	0.01	0.04	0.04	0.02	T									17
18																									18
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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)	0.06	0.12	0.14	0.16	0.21	0.26	0.31	0.38	0.45	0.49	0.55	0.63
ENDED: DATE	17	17	17	17	17	17	17	17	17	17	17	17
ENDED: TIME	0439	0438	0441	0447	0453	0508	0528	0543	0603	0620	0615	0727

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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