

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 1993
 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	FATEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
01	60	32	46	9	38	19	0		0	0.00	0.0	30.060	34	8.8	11.7	22	N	16	33	432	75	9	6
02	43	25	34	-3	22	31	0		0	0.00	0.0	30.390	04	5.2	6.2	16	NE	12	03	497	86	1	3
03	45	27	36	0	32	29	0		0	0.00	0.0	30.380	17	2.2	3.4	8	S	6	22	0	0	10	7
04	67	35	51	15	45	14	0	8	0	0.00	0.0	30.110	18	9.8	10.2	24	S	17	17	250	43	10	9
05	70*	45	58*	22	51	7	0	1	0	1.32	0.0	29.840	23	3.9	12.2	35	S	23	18	247	42	10	10
06	53	41	47	11	36	18	0		0	0.00	0.0	30.040	04	6.1	6.7	14	NE	12	36	234	40	8	9
07	47	43	45	9	40	20	0	1	0	0.04	0.0	29.980	07	4.0	5.3	12	N	8	10	0	0	10	10
08	44	41	43	7	42	22	0	1	0	1.14	0.0	29.820	02	9.6	9.9	18	NE	17	03	0	0	10	10
09	41	33	37	1	36	28	0	1	0	0.40	0.0	30.020	02	14.5	14.7	25	N	18	03	0	0	10	10
10	33	31	32*	-4	32	33	0	1	6	0.07	0.0	30.270	01	10.8	11.2	22	N	15	02	0	0	10	10
11	38	32	35	-1	35	30	0	1	6	0.12	0.0	30.250	36	6.1	6.6	12	N	9	04	0	0	10	10
12	44	37	41	5	41	24	0	1	6	0.04	0.0	30.045	35	5.9	6.2	10	N	9	33	0	0	10	10
13	51	40	46	10	45	19	0	1	2	0.05	0.0	29.750	24	3.6	6.3	18	SW	15	23	2	0	10	8
14	49	32	41	6	32	24	0	1		0.00	0.0	29.990	36	3.4	5.8	23	NW	8	03	334	57	8	6
15	51	36	44	9	34	21	0	0		0.00	0.0	29.990	15	1.0	5.9	18	SW	12	22	296	50	9	9
16	39	34	37	2	36	28	0	1		0.41	0.5	29.800	01	6.2	6.9	15	N	13	03	0	0	10	10
17	52	35	44	9	35	21	0	1		0.00	0.0	29.730	22	8.1	8.4	23	SW	15	23	358	60	4	5
18	44	31	38	3	25	27	0	0		0.00	0.0	30.130	02	5.6	7.8	20	NE	14	05	468	79	8	6
19	41	24	33	-2	21	32	0	0		0.00	0.0	30.420	02	7.7	8.1	20	NE	14	36	453	76	3	4
20	47	20*	34	-1	18	31	0	1		0.00	0.0	30.440	28	1.1	2.5	12	SW	7	22	494	82	1	1
21	53	24	39	4	35	26	0	1	3	0.50	0.0	30.200	11	4.4	6.2	29	SE	18	14	0	0	10	9
22	56	41	49	14	44	16	0	1	5	0.24	1	29.830	24	4.8	6.9	21	NW	15	30	211	35	8	8
23	59	34	47	12	35	18	0	1		0.00	0.0	29.990	24	3.3	5.1	13	W	8	18	506	84	7	3
24	68	36	52	17	41	13	0	1		0.15	0.0	29.815	22	10.5	14.6	38	W	29	27	346	57	9	7
25	47	29	38	2	18	27	0	0		0.00	0.0	30.140	35	6.2	7.7	18	N	14	01	556	91	4	5
26	41	29	35	-1	20	30	0	0		0.00	0.0	30.150	03	7.9	8.8	18	E	14	01	311	51	10	10
27	51	27	39	3	24	26	0	0		0.00	0.0	29.820	33	8.3	9.0	25	NW	18	33	598	98	0	1
28	58	25	42	6	28	23	0	0	8	0.00	0.0	29.900	19	8.8	9.6	28	S	18	19	378	62	4	2
29	56	25	41	5	25	24	0	0		0.00	0.0	29.930	29	6.4	12.8	28	NW	20	31	398	65	8	6
30	52	22	37	1	12	28	0	0		0.00	0.0	30.070	23	10.8	11.2	30	SW	18	24	460	75	6	4
31	60	40	50	14	18	15	0	0		0.00	0.0	29.550	23	14.8	15.4	35	SW	21	23	0	0	10	9
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
1560	1006					724	0			4.48	0.5	30.030	33	1.6	8.5	38	W	29	27	7829	for	237	217
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION		DEP.						DATE: 24	DATE: 24	POSSIBLE	MONTH	AVG.	AVG.		
50.3	32.5	41.4	5.7	32.0	-184	0		≥ .01 INCH.		12	1.24							18462	42	7.6	7.0		
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.		2202		0		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS											
≥ 90°		≤ 32°		≤ 32°		≤ 0°		HEAVY FOG		1		1.32		0.5		16							
0		0		16		0		CLEAR		4		PARTLY CLOUDY		5		CLOUDY 22							

* 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



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

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 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1993
RICHMOND, VA

13740

HOUR L.S.T.	VISIBILITY				TEMPERATURE				WIND				VISIBILITY				TEMPERATURE				WIND										
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	
JAN 1st																															
01	6	UNL	8		59	56	53	81	25	12	0	UNL	10		31	28	23	72	35	5	4	UNL	10			30	28	25	82	14	4
04	4	UNL	8		57	55	53	87	27	9	0	UNL	10		28	26	21	75	02	5	4	UNL	10			29	28	26	89	00	4
07	7	UNL	8		55	53	52	90	35	11	2	UNL	10		25	24	21	85	35	5	6	100	10			32	31	30	92	02	3
10	10	250	10		52	46	38	59	34	12	1	UNL	8		34	30	21	59	03	7	10	65	8			37	34	29	73	00	0
13	10	UNL	10		53	45	35	51	36	13	0	UNL	10		40	33	21	47	02	7	10	28	8			42	39	34	73	22	3
16	8	UNL	10		50	42	32	50	36	12	2	UNL	10		43	35	20	40	00	0	10	65	8			45	42	37	74	16	5
19	5	UNL	10		41	37	30	65	01	10	1	UNL	130		37	32	23	57	09	4	7	UNL	7			38	37	36	93	16	4
22	0	UNL	10		36	32	25	64	03	7	6	130	10		33	30	23	67	07	4	2	UNL	7			36	36	35	96	21	4
JAN 2nd																															
JAN 3rd																															
JAN 4th																															
JAN 5th																															
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JAN 15th																															
JAN 16th																															
JAN 17th																															
JAN 18th																															

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.26	0.33	0.38	0.42	0.45	0.47	0.51	0.68	0.74	0.80	0.88	1.00
ENDED: DATE	05	05	05	05	05	05	05	05	05	05	05	05
ENDED: TIME	0637	0642	0645	0644	0645	0653	0645	0645	0645	0645	0653	0645

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.

