

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

MAY 1989
 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	DIRECTION	FATEST 1-MIN	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT
01	78	63	71	9	66	0	6	1 3 8	0	0.35	0.0	29.710	16	7.7	10.0	33	S	20	18	363	44	10	10
02	75	52	64	1	53	1	0	3	0	1.05	0.0	29.570	30	8.9	11.4	28	S	17	31	619	75	6	6
03	68	46	57	-6	37	8	0	0	0	0.00	0.0	29.870	30	8.7	9.4	26	W	16	28	669	81	6	4
04	73	40	57	-6	43	8	0	0	0	0.00	0.0	29.990	18	5.8	7.5	24	S	14	16	764	92	3	4
05	68	55	62	-1	59	3	0	1	0	1.80	0.0	29.745	17	12.8	14.1	43	N	29	33	0	0	10	10
06	74	52	63	-1	53	2	0	1 3 5	0	0.33	T	29.620	24	8.2	10.9	79	SW	46	23	524	63	6	7
07	57	42	50*	-14	35	15	0	0	0	T	0.0	29.730	29	9.4	10.7	28	W	17	29	531	64	6	5
08	69	38*	54	-10	38	11	0	0	0	0.00	0.0	29.810	24	7.1	8.8	23	SW	14	26	769	92	4	3
09	68	44	56	-8	49	9	0	1	0	0.53	0.0	29.810	16	6.8	7.9	23	S	14	20	300	36	10	9
10	67	53	60	-5	53	5	0	1	0	0.14	0.0	29.520	34	7.5	9.2	20	N	16	34	120	14	10	10
11	60	50	55	-10	47	10	0	0	0	0.00	0.0	29.585	34	7.6	8.5	17	W	14	35	170	20	10	10
12	66	46	56	-9	44	9	0	0	0	T	0.0	29.670	25	4.4	6.6	28	W	15	25	511	60	8	9
13	72	43	58	-7	46	7	0	0	0	0.00	0.0	29.790	21	2.7	6.0	20	S	15	24	752	89	5	4
14	74	49	62	-3	52	3	0	1 8	0	0.00	0.0	29.830	18	3.6	4.7	16	S	12	21	403	47	10	9
15	65	53	59	-7	58	6	0	1 3 8	0	0.27	0.0	29.720	03	2.0	4.7	18	NW	15	31	0	0	10	9
16	63	55	59	-7	53	6	0	23 5 8	0	0.51	T	29.635	32	8.6	11.5	31	W	17	31	182	21	10	10
17	69	55	62	-4	56	3	0	1 8	0	0.02	0.0	29.795	34	7.4	10.5	29	N	18	36	591	69	9	7
18	83	55	69	2	55	0	4	1	0	0.00	0.0	29.960	01	4.2	8.8	21	NE	17	36	775	91	2	2
19	82	52	67	0	55	0	2	1 8	0	0.00	0.0	29.990	10	2.5	5.8	21	E	9	19	748	87	5	5
20	83	55	69	2	57	0	4	1	0	0.02	0.0	29.820	20	5.6	7.4	23	NW	14	31	694	81	7	9
21	84	57	71	4	60	0	6	1 8	0	0.00	0.0	29.755	29	3.3	5.8	18	N	12	34	808	94	7	6
22	84	53	69	1	52	0	4	0	0	0.00	0.0	29.800	14	2.9	5.7	14	SE	10	14	785	91	7	7
23	83	61	72	4	61	0	7	8	0	T	0.0	29.570	20	8.2	10.4	28	SW	17	20	665	77	9	8
24	79	57	68	0	55	0	3	0	0	0.00	0.0	29.590	28	6.5	8.1	25	W	16	29	772	89	7	5
25	87	55	71	3	59	0	6	1 8	0	0.00	0.0	29.720	19	9.5	9.9	28	S	17	20	759	88	7	6
26	90	69	80*	11	67	0	15	8	0	0.00	0.0	29.710	22	11.3	11.6	25	SW	20	22	753	87	9	9
27	85	63	74	5	63	0	9	1 8	0	0.00	0.0	29.790	35	5.3	9.3	31	N	20	01	797	92	6	5
28	75	52	64	-5	44	1	0	0	0	0.00	0.0	30.090	01	6.8	8.3	22	N	15	02	860	99	1	1
29	80	47	64	-5	50	1	0	0	0	0.00	0.0	30.100	19	6.5	7.1	18	S	12	16	789	91	6	6
30	87	60	74	4	63	0	9	0	0	0.00	0.0	29.980	21	12.5	12.9	25	SW	17	22	792	91	7	6
31	93*	63	78	8	65	0	13	8	0	0.00	0.0	29.920	23	8.5	9.6	18	NW	13	23	799	91	6	5
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS	TOTAL	TOTAL	TOTAL	FOR THE MONTH:					TOTAL	%	SUM	SUM			
2341	1635					108	88		5.02	T	29.780	24	2.9	8.8	79	SW	46	23	18064	FOR	219	206	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	43	-11	PRECIPITATION	DEP.			DATE: 6	DATE: 6	POSSIBLE	MONTH	AVG.	AVG.						
75.5	52.7	64.1	-2.0	53.1				10	1.47					26391	6.8	7.1	6.6						
NUMBER OF DAYS		SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF															
				≥ .01 INCH				SNOW, ICE PELLETS OR ICE AND DATE															
MAXIMUM TEMP.		MINIMUM TEMP.		3959		142		THUNDERSTORMS															
≥ 90°		≤ 32°		≤ 32°		≤ 0°		HEAVY FOG															
2		0		0		0		1															
				-1		30		CLEAR															
								3															
								PARTLY CLOUDY															
								16															
								CLOUDY															
								12															

* 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. Wadsworth
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1989

13740

RICHMOND, VA

HOUR L.S.T.	VISIBILITY				TEMPERATURE				WIND		SKY COVER (TENTHS)	VISIBILITY				TEMPERATURE				WIND		SKY COVER (TENTHS)	VISIBILITY				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)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
			WEATHER	WEATHER										WEATHER	WEATHER																	
MAY 19th																																
01	0	UNL	7		59	56	53	81	29	3	10	UNL	7		58	57	56	93	24	4	10	120	5		F	65	64	64	97	00	0	
04	2	UNL	5	F	54	53	52	93	00	0	10	250	7		56	55	54	93	19	3	10	120	4	F	62	62	62	100	19	4		
07	1	UNL	4	F	60	57	55	84	35	5	10	UNL	7		64	59	55	73	19	4	6	UNL	3	H	68	65	63	84	20	5		
10	1	UNL	6	H	76	66	59	56	08	7	8	150	7		74	63	55	52	19	8	10	UNL	5	H	76	69	65	69	26	3		
13	6	UNL	6	H	80	65	55	42	11	8	7	UNL	7		81	65	54	39	20	10	8	55	5	H	80	69	63	56	31	10		
16	10	UNL	6		81	64	53	38	10	8	7	UNL	7		82	67	57	43	18	9	9	100	7		81	69	62	53	36	10		
19	10	250	7		73	63	57	57	15	7	10	120	7		73	65	59	62	18	5	0	UNL	10		76	61	50	40	34	5		
22	10	UNL	7		64	60	57	78	13	5	10	55	7	R	66	65	64	93	26	4	0	UNL	10		60	57	54	81	00	0		
MAY 20th																																
MAY 21st																																
MAY 22nd																																
MAY 23rd																																
MAY 24th																																
MAY 25th																																
MAY 26th																																
MAY 27th																																
MAY 28th																																
MAY 29th																																
MAY 30th																																
MAY 31st																																

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	AVERAGES							RESULTANT WIND	
		STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF					
01	6	29.780	58	55	53	85	7.3	22	1.3	
04	6	29.770	56	54	52	87	6.0	24	2.0	
07	7	29.800	59	56	53	81	7.8	26	2.9	
10	7	29.810	68	60	54	65	10.9	25	4.0	
13	7	29.780	72	61	53	53	11.5	25	4.0	
16	8	29.750	73	61	53	54	11.1	25	4.4	
19	7	29.755	68	60	54	64	8.7	21	2.4	
22	6	29.790	61	57	54	79	7.3	21	2.2	

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

MAY 1989
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		T	T						0.01	T				0.02	0.01			T	T	0.01	0.03	0.04	0.04	0.19	01	
02	0.07	0.08	0.50	0.36	T	0.02	0.02	T																	02	
03																										03
04																										04
05	T	0.01	0.02	0.02	T	0.01	0.01	T	0.10	0.10	0.03	T		T	0.01	T		0.04	0.01			0.01	0.13	1.30	05	
06	0.06	T	0.02	T										T	T		0.23	0.02							06	
07																T									07	
08																									08	
09																									09	
10	0.04	0.06	0.04	T	T	T									0.01	0.03	0.01	0.02	0.02	0.01	0.10	0.07	0.13	0.07	0.06	10
11																										11
12	T	T	T	T																T						12
13																										13
14																										14
15												T	T												0.27	15
16	0.15	0.01					0.28	0.01			T															16
17	T		0.01	T				0.01	T					T	T	0.01	0.01	0.01	T				T	0.02	0.01	17
18																										18
19																										19
20																			T		T	T	0.01	0.01		20
21																										21
22																										22
23																										23
24																										24
25																										25
26																										26
27																										27
28																										28
29																										29
30																										30
31																										31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.25	0.49	0.73	0.87	0.98	1.18	1.33	1.38	1.46	1.48	1.50	1.50
ENDED: DATE	05	05	05	05	05	05	06	06	06	06	06	06
ENDED: TIME	2321	2321	2325	2326	2336	2352	0002	0009	0009	0023	0023	0023

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

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