

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 1987
 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 MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
	1	2	3	4	5	6	7A			7B	10		11	12	13	14	15	16	17	18	19	20	21
01	75	45	60	-2	42	5	0		0	0.00	0.0	29.720	12	3.9	6.2	15	SW	10	13	768	93	1	1
02	86	47	67	4	52	0	0		0	0.40	0.0	29.670	34	1.3	5.9	46	W	30	30	684	83	8	6
03	87	56	72	9	60	0	2	23	8	0.05	0.0	29.750	12	1.9	7.3	40	NW	13	19	578	70	4	6
04	63	49	56	-7	49	9	0	1		0.28	0.0	29.960	03	13.5	13.8	25	N	18	02	0	0	10	10
05	63	44	54*	-9	42	11	0			0.00	0.0	30.005	36	6.0	9.1	23	N	12	31	418	50	5	5
06	75	46	61	-3	43	4	0			0.00	0.0	29.855	27	5.2	7.3	16	NW	12	28	691	83	4	3
07	80	50	65	1	48	0	0			0.00	0.0	29.750	29	1.4	5.3	23	N	16	02	762	91	7	7
08	71	45	58	-6	42	7	0			0.00	0.0	29.840	36	8.9	9.8	25	N	16	35	715	85	5	4
09	79	42*	61	-3	41	4	0			0.00	0.0	29.930	24	6.9	8.2	21	NW	15	28	840	100	0	0
10	86	50	68	3	44	0	3			0.00	0.0	29.860	24	5.9	7.8	25	NW	13	24	842	100	0	0
11	88	58	73	8	53	0	8			0.00	0.0	29.840	20	9.5	9.9	21	S	15	19	844	100	2	2
12	87	58	73	8	59	0	8	3	8	0.02	0.0	29.800	21	7.2	10.8	30	NW	21	31	713	84	3	4
13	67	55	61	-4	55	4	0	1	8	T	0.0	30.040	05	10.3	11.1	22	NE	17	06	0	0	10	10
14	68	53	61	-4	56	4	0	1	8	0.00	0.0	30.050	12	3.0	6.9	13	S	10	18	156	18	10	10
15	80	58	69	3	62	0	4	1	3	0.20	0.0	29.840	24	5.0	9.6	23	SW	16	22	649	76	8	8
16	74	52	63	-3	46	2	0			0.00	0.0	29.950	04	4.8	7.8	20	N	13	02	852	100	0	1
17	88	51	70	4	60	0	5	1		0.00	0.0	29.860	21	9.1	9.4	21	SW	15	23	854	100	0	0
18	93	63	78	11	63	0	13	1	3	0.25	0.0	29.760	24	2.6	7.6	45	N	23	01	744	87	1	3
19	75	57	66	-1	63	0	1	1	8	0.31	0.0	29.810	05	8.4	9.5	20	NE	15	05	230	27	9	9
20	61	54	58	-9	55	7	0	1		0.01	0.0	29.940	01	11.3	11.7	21	N	15	02	0	0	10	10
21	76	54	65	-2	59	0	0	1	8	0.02	0.0	30.030	03	8.1	9.7	22	E	13	06	318	37	8	7
22	81	60	71	3	65	0	6	2	8	T	0.0	30.030	13	1.6	5.6	20	SW	12	22	618	72	9	9
23	88	62	75	7	66	0	10	1	8	0.00	0.0	29.955	21	8.1	8.9	22	S	14	18	753	87	8	8
24	86	69	78	10	68	0	13	1	3	0.85	0.0	29.915	18	3.8	7.0	33	SE	20	14	725	84	9	9
25	70	61	66	-2	65	0	1	1	3	0.02	0.0	29.990	08	8.3	8.8	16	E	13	06	102	12	10	10
26	70	60	65	-4	59	0	0	1	8	T	0.0	30.080	09	8.1	8.9	18	SE	14	12	126	15	10	10
27	78	59	69	0	59	0	4			0.00	0.0	30.080	12	5.3	6.4	16	E	12	11	452	52	10	10
28	83	64	74	5	67	0	9	1	8	0.28	0.0	30.020	18	4.9	6.6	16	S	12	17	627	72	6	6
29	91	64	78	9	68	0	13	1	8	0.00	0.0	29.930	21	3.2	4.4	14	S	8	28	787	90	1	1
30	93*	66	80*	10	69	0	15	1	8	0.00	0.0	29.875	20	5.7	6.3	16	S	12	23	827	95	1	1
31	90	68	79	9	68	0	14	3	8	0.25	0.0	29.835	22	8.3	10.4	30	N	20	35	713	82	9	6
SUM		SUM		SUM		TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
2452		1720				57	136	13		2.94	0.0	29.900	13	0.5	8.3	46	W	30	30	17388	FOR	178	176
AVG.		AVG.		AVG.		DEP.	AVG.	PRECIPITATION		DEP.						DATE: 2	DATE: 2	POSSIBLE	MONTH	AVG.	AVG.		
79.1		55.5		67.3		1.2	56.3	-8		37									26391	66	5.7	5.7	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF									
						TOTAL	TOTAL	≥ 0.1 INCH						SNOW, ICE PELLETS OR ICE AND DATE									
MAXIMUM TEMP.						4061		8		PRECIPITATION		SNOW, ICE PELLETS		0									
≥ 90°						≤ 32°		HEAVY FOG		0.87		24-25		0									
4						0		CLEAR 10		PARTLY CLOUDY 6		CLOUDY 15											

* 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.

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NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Walden
 DIRECTOR
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OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1987
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	WEATHER	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	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)						
MAY 19th																															
01	10	50	6	6	H	68	67	66	93	03	3	10	4	3	F	57	57	57	100	36	10	10	4	5	5	55	55	54	97	36	10
04	5	UNL	5	5	F	65	64	64	97	18	4	10	3	3	LF	55	55	55	100	01	11	10	3	5	5	55	55	54	97	01	10
07	6	120	3	3	F	68	67	66	93	02	10	10	3	2	LF	56	55	55	97	01	11	10	3	2	2	57	56	56	97	36	11
10	8	250	3	3	H	75	70	67	76	08	11	10	3	2	LF	56	56	56	100	35	9	10	5	4	4	62	61	60	93	04	8
13	10	10	2	2	H	70	68	66	87	03	12	10	8	7		59	58	57	93	01	10	10	12	5	5	67	65	63	87	34	8
16	10	9	1	1	FH	65	63	61	87	05	11	10	11	8		60	58	56	87	04	11	6	250	10	10	75	67	62	64	09	10
19	10	7	1	1	FH	60	59	58	93	04	9	10	10	8	F	57	55	54	90	02	10	1	UNL	10	10	70	65	62	76	09	8
22	10	5	3	3	FH	58	57	57	97	05	8	10	7	5	F	55	54	53	93	36	10	0	UNL	12	10	62	61	60	93	05	6
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	AVERAGES						RESULTANT WIND	
				SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
						AIR TEMP OF	WET BULB OF	DEW POINT OF			
01	6	6	29.900	60	58	56	87	6.6	10	0.6	
04	5	5	29.895	58	56	55	90	6.9	03	1.1	
07	6	6	29.930	61	58	55	84	8.3	02	0.9	
10	6	6	29.940	70	62	56	66	8.8	32	1.3	
13	6	6	29.910	75	64	57	57	9.1	29	1.3	
16	6	6	29.865	76	64	56	53	10.6	18	3.5	
19	6	6	29.870	70	63	57	67	8.9	12	1.2	
22	5	5	29.910	63	60	57	83	7.1	13	2.1	

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

MAY 1987
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																	0.05	0.27	0.08	T				02	
03																		T	0.01	0.04			T	03	
04		T	T	0.09	0.01	T	0.05	0.02	0.01	0.02	0.03	0.04	0.01	T	T	T								04	
05																								05	
06																								06	
07																								07	
08																								08	
09																								09	
10																								10	
11																								11	
12																								12	
13																			T	T	0.02			13	
14																								14	
15											0.05	T	T	T	0.01					0.14	T			15	
16																								16	
17																								17	
18																				0.04	0.19		0.02	18	
19																						0.18	T	19	
20	0.01	T	T	T	T	T	T	T	T	T	T	T										T	0.13	20	
21	T		0.01	T	T	0.01	T																	21	
22																								22	
23																								23	
24																								24	
25												0.01	0.01	T		0.85	T		T	T	T			25	
26																								26	
27																								27	
28							0.27	0.01																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)	0.57	0.70	0.78	0.81	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85
ENDED: DATE	24	24	24	24	24	24	24	24	24	24	24	24
ENDED: TIME	1542	1543	1545	1549	1555	1555	1559	1559	1559	1559	1559	1559

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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