

# 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 1990  
 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	86	53	70	8	59	0	5	1	8	0	0.00	0.0	29.750	26	5.2	7.8	22	W	18	27	738	89	4	4
02	72	60	66	3	47	0	1			0	0.00	0.0	29.960	03	7.6	8.5	22	NE	13	01	561	68	10	8
03	71	58	65	2	47	0	0			0	0.00	0.0	30.130	10	6.3	8.0	18	E	14	15	433	52	10	10
04	73	55	64	1	57	1	0	1	3	8	0.15	0.0	29.915	16	4.4	6.6	24	S	17	20	374	45	10	10
05	82	62	72	9	60	0	7				0.05	0.0	29.485	24	10.6	13.6	32	SW	21	23	471	57	8	8
06	72	51	62	-2	40	3	0				T	0.0	29.670	33	9.2	10.8	30	N	21	35	690	83	4	5
07	75	45	60	-4	42	5	0				0.00	0.0	29.850	27	7.2	9.8	23	W	17	24	836	100	2	2
08	83	49	66	2	47	0	1				0.00	0.0	29.915	23	7.4	8.6	23	W	14	26	838	100	2	3
09	81	54	68	4	54	0	3				0.03	0.0	29.870	21	12.4	12.8	30	SW	21	21	583	69	8	8
10	81	55	68	3	59	0	3	1	3		1.35	0.0	29.490	21	9.5	14.1	47	W	23	30	262	31	9	8
11	72	47	60	-5	40	5	0				0.00	0.0	29.820	27	8.9	10.8	29	W	22	26	843	100	0	1
12	68	49	59	-6	49	6	0				T	0.0	30.035	12	7.5	9.5	28	S	16	18	632	75	10	9
13	78	63	71	6	61	0	6	1			0.07	0.0	29.790	20	10.5	11.6	26	S	18	19	407	48	10	8
14	74	54	64	-1	53	1	0	1			0.00	0.0	29.940	04	5.5	7.8	22	N	16	02	716	84	6	4
15	80	50	65	-1	58	0	0	1			0.00	0.0	29.980	17	5.4	6.0	16	NE	10	14	530	62	9	8
16	87*	63	75	9	64	0	10	1	8		0.00	0.0	29.810	21	13.2	13.6	29	S	21	23	647	76	6	6
17	85	69	77*	11	58	0	12				0.00	0.0	29.620	24	12.5	14.5	35	SW	21	23	684	80	8	6
18	80	60	70	3	37	0	5				0.00	0.0	29.750	28	13.0	13.4	33	W	21	27	845	99	0	0
19	84	55	70	3	48	0	5				0.00	0.0	29.810	24	9.6	10.5	25	W	16	24	745	87	8	6
20	84	61	73	6	60	0	8				T	0.0	29.680	22	8.0	8.9	26	W	14	25	504	59	8	8
21	84	59	72	5	64	0	7	1	8		0.51	0.0	29.625	03	3.2	9.4	32	N	21	32	405	47	10	10
22	59	50	55*	-13	50	10	0	1			1.21	0.0	29.775	03	8.0	9.3	23	NE	17	05	40	5	10	9
23	70	45*	58	-10	47	7	0	1			0.00	0.0	29.820	36	5.5	6.2	23	N	14	34	749	87	4	4
24	76	54	65	-3	50	0	0				0.00	0.0	29.870	34	2.0	5.3	17	NE	12	01	556	64	8	7
25	79	50	65	-3	54	0	0	1	8		0.02	0.0	29.950	18	3.2	5.3	18	SW	14	22	568	66	8	7
26	84	62	73	4	64	0	8	1	3		1.59	0.0	29.680	21	8.3	11.7	35	N	21	01	372	43	10	10
27	66	57	62	-7	57	3	0	1	8		0.16	0.0	29.690	04	7.4	8.8	18	N	15	02	295	34	10	10
28	68	55	62	-7	56	3	0	1	8		0.75	0.0	29.690	10	8.5	9.4	23	E	15	12	354	41	10	10
29	66	54	60	-9	54	5	0	1			0.96	0.0	29.440	34	11.0	12.1	24	N	16	33	395	45	10	10
30	74	54	64	-6	48	1	0				0.00	0.0	29.730	35	10.3	11.0	35	N	17	34	792	91	1	3
31	77	52	65	-5	47	0	0				0.00	0.0	29.995	02	2.5	5.3	15	SW	9	36	715	82	4	4
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM					
2371	1705					50	81			6.85	0.0	29.790	25	2.4	9.7	47	W	23	30	17580	FOR	217	206	
AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	DEP.	DEP.	PRECIPITATION		DEP.		DATE: 10				DATE: 10	POSSIBLE	MONTH	AVG.	AVG.				
76.5	55.0	65.8	-0.3	52.6		-15	-18	≥ .01 INCH.		12	3.30								26391	67	7.0	6.6		
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.				3516	176	THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS												
≥ 90°		≤ 32°		≤ 32°		DEP.	DEP.	HEAVY FOG		0		1.71		28-29		0.0								
0		0		0		-444	64	CLEAR 5		PARTLY CLOUDY 6		CLOUDY 20												

\* 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.

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

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

*Kenneth D. Walden*  
 DIRECTOR  
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1990 RICHMOND, VA 13740

HOUR U.S.I.	VISI-BILITY				TEMPERATURE				WIND			VISI-BILITY				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 1st																																	
01	2	UNL	7			58	57	56	93	05	4	3	UNL	7			69	63	59	71	35	11	10	49	8			60	55	51	72	20	4
04	0	UNL	2		F	55	54	53	93	33	4	0	UNL	7			63	59	56	78	01	11	10	48	8			61	55	51	72	21	4
07	8	UNL	2		FH	59	58	57	93	04	4	10	70	8			63	55	47	56	01	9	10	45	8			60	56	51	70	04	5
10	1	UNL	5		H	73	66	61	66	18	6	10	49	8			65	53	41	42	05	8	9	55	8			69	58	48	47	04	8
13	6	UNL	6		H	83	71	64	53	24	9	10	50	8			67	54	42	40	01	8	10	41	8			69	57	46	44	10	5
16	3	UNL	6		H	86	70	62	45	27	16	10	50	8			68	54	41	38	03	4	10	40	8			68	56	46	45	11	11
19	8	UNL	7			79	67	60	52	26	4	10	50	8			65	55	47	52	05	8	10	40	8			62	52	41	46	12	10
22	10	120	7			75	67	62	64	26	8	10	55	8			63	55	48	58	08	4	10	43	7			60	51	42	52	12	7
MAY 2nd																																	
MAY 3rd																																	
MAY 4th																																	
MAY 5th																																	
MAY 6th																																	
MAY 7th																																	
MAY 8th																																	
MAY 9th																																	
MAY 10th																																	
MAY 11th																																	
MAY 12th																																	
MAY 13th																																	
MAY 14th																																	
MAY 15th																																	
MAY 16th																																	
MAY 17th																																	
MAY 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).

# OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1990  
RICHMOND, VA 13740

HOUR L.S.T.	SKY COVER (TENTHS)		VISI-BILITY		WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY		WEATHER	TEMPERATURE				WIND		
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	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)
MAY 19th																						
01	0	UNL	10			60	51	41	50	27	8	6	120	10			66	59	54	65	19	7
04	0	UNL	10			57	49	40	53	25	8	7	120	10			64	58	53	68	18	6
07	0	UNL	10			64	53	42	45	26	9	10	120	10			68	61	56	65	21	10
10	7	UNL	10			77	59	45	32	24	13	4	UNL	10			79	67	59	51	25	11
13	7	UNL	10			83	63	48	30	26	12	10	70	8			80	67	60	51	26	10
16	6	UNL	10			83	64	50	32	24	13	9	120	8			81	69	62	53	26	6
19	7	UNL	10			74	64	57	56	19	5	8	70	8			77	68	63	62	23	9
22	4	UNL	10			67	61	56	68	19	6	7	200	8			71	67	65	81	18	4
MAY 20th																						
MAY 21st																						
01	0	UNL	10			60	51	41	50	27	8	10	60	6	F		71	69	68	90	18	8
04	0	UNL	10			57	49	40	53	25	8	10	25	5	RWF		70	69	68	93	11	5
07	0	UNL	10			64	53	42	45	26	9	10	29	3	F		68	66	65	90	31	9
10	7	UNL	10			77	59	45	32	24	13	8	15	7			75	70	68	79	25	8
13	7	UNL	10			83	63	48	30	26	12	10	250	7			83	70	62	49	33	7
16	6	UNL	10			83	64	50	32	24	13	10	40	5			67	65	64	90	04	11
19	7	UNL	10			74	64	57	56	19	5	10	8	2	RW		64	62	61	90	07	11
22	4	UNL	10			67	61	56	68	19	6	10	15	6	FH		60	58	56	87	07	9
MAY 22nd																						
MAY 23rd																						
MAY 24th																						
01	10	11	6		F	59	56	54	87	06	7	10	150	10			54	52	50	86	21	4
04	10	7	2		RWF	53	52	51	93	06	5	10	95	10			56	53	50	80	20	3
07	10	4	2		LF	52	51	50	93	05	6	7	90	10			61	56	51	70	28	5
10	10	9	5		F	52	51	49	90	04	11	6	90	10			70	59	51	51	32	6
13	10	20	7			54	50	47	77	05	10	8	55	10			75	59	46	36	01	5
16	10	60	5		R	52	51	49	90	01	7	4	UNL	10			71	59	49	46	04	8
19	10	9	6		R	52	51	50	93	35	4	4	UNL	10			67	58	50	55	00	0
22	8	110	5		F	51	51	50	96	34	7	8	150	10			56	54	53	90	00	0
MAY 25th																						
MAY 26th																						
MAY 27th																						
01	0	UNL	8			54	52	51	90	00	0	10	37	5	RF		62	61	60	93	17	9
04	0	UNL	7			51	50	49	93	00	0	10	45	6	F		63	61	60	90	18	12
07	7	UNL	5		F	58	56	54	87	05	4	10	40	1	RF		63	62	61	93	22	13
10	7	UNL	6		H	75	61	51	43	13	6	10	65	5	F		67	65	63	87	21	6
13	7	UNL	7			77	62	50	39	09	6	10	95	7			75	69	66	74	24	10
16	10	95	7			72	61	52	50	24	7	8	100	7			84	73	67	57	22	12
19	10	90	7			69	63	58	68	23	9	10	40	7			73	70	68	84	21	14
22	10	48	5		RF	63	62	61	93	15	4	10	2	1	TRW		65	64	63	93	01	18
MAY 28th																						
MAY 29th																						
MAY 30th																						
01	5	UNL	7			56	55	55	97	03	4	10	5	2	RWF		56	55	54	93	35	5
04	10	75	7			57	56	55	93	06	6	10	3	2	RF		55	55	54	97	03	8
07	10	65	6		F	58	57	57	97	07	5	10	3	0	RF		54	53	52	93	29	12
10	10	90	7			65	59	55	70	10	10	10	5	10	RF		58	56	54	87	33	10
13	10	28	7			67	60	54	63	13	12	10	11	10			63	60	57	81	34	11
16	10	21	5		RF	63	60	57	81	12	13	10	17	10			64	59	56	75	32	12
19	10	33	2		RF	60	59	58	93	09	10	10	110	10			63	59	56	78	32	8
22	10	16	2		RF	58	57	57	97	09	5	7	40	10			60	55	51	72	34	12
MAY 31st																						
01	8	UNL	10			54	52	50	86	00	0						54	52	50	72	35	11
04	6	UNL	10			54	50	47	77	36	6						57	53	50	78	35	12
07	10	110	10			56	51	46	69	04	6						59	54	50	72	34	11
10	6	UNL	10			69	56	44	41	06	5						66	57	50	57	36	15
13	0	UNL	10			74	58	44	34	31	4						71	58	47	43	02	12
16	1	UNL	10			75	59	46	36	04	3						74	58	45	36	34	12
19	0	UNL	10			73	58	46	38	30	4						69	57	46	44	36	6
22	0	UNL	10			59	55	52	78	15	4						56	53	50	80	00	0

## SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES					RESULTANT WIND	
			TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	6	29.790	61	56	52	77	8.1	25	2.1
04	6	29.790	58	54	51	81	8.2	26	1.4
07	7	29.820	60	56	52	76	10.1	27	2.5
10	6	29.820	68	60	52	59	11.7	24	2.8
13	7	29.790	73	61	53	51	11.6	24	3.9
16	7	29.750	74	62	53	51	12.2	25	4.1
19	8	29.760	69	60	54	62	8.3	21	2.2
22	6	29.800	62	57	53	75	7.8	21	1.3

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

MAY 1990  
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				T	T		T	0.05	0.03	0.06	T						T	0.01	T					04		
05		T	0.01	0.04	T		T	T								T								05		
06																			T	T		T		06		
07																								07		
08																								08		
09																								09		
10	T	0.02	0.01	0.03	0.06	0.01	0.02	T	0.02	0.40	0.50	0.07				0.02	T	0.16	0.03	T	T	0.01	0.01	0.01	T	10
11																									11	
12																									12	
13													T												13	
14																			0.06	0.01					14	
15																									15	
16																									16	
17																									17	
18																									18	
19																									19	
20																									20	
21	T																								21	
22		T																							22	
23																									23	
24																									24	
25																									25	
26	0.07	0.01																							26	
27	T																								27	
28																									28	
29	0.19	0.07	0.05	0.10	0.04	0.07	0.40	0.04																	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)	0.26	0.42	0.53	0.64	0.85	1.05	1.08	1.18	1.24	1.31	1.33	1.33
ENDED: DATE	26	26	26	26	26	26	26	26	26	26	27	27
ENDED: TIME	2149	2152	2157	2202	2212	2215	2234	2254	2312	2330	0004	0004

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:  
MATTHEW BODOSKY

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