

LOCAL CLIMATOLOGICAL DATA

Monthly Summary



NATIONAL WEATHER SERVICE OFC

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FEET TIME ZONE EASTERN WBAW #13740

NOV 1982 RICHMOND, VIRGINIA

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 07AM INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 177 FEET ABOVE M.S.L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)		DATE	
	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	FASTEST MILE		MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
1	2	3	4	5	6	7A	7B		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	80	51	66	12	57	0	1	1	0	0	0	29.91	18	7.3	7.6	11	SW	565	89	6	5	1	
2	80	58	69	15	62	0	4	1	8	0	0	29.83	19	6.5	6.8	12	SW	471	74	4	4	2	
3	82	58	70*	17	62	0	5	2	8	0	0	29.74	18	5.9	6.2	13	SW	533	84	8	8	3	
4	82*	52	67	14	66	0	2	3	8	0	.98	29.61	18	8.0	12.7	26	S	206	33	10	10	4	
5	54	36	45	-8	36	20	0	0	0	0	T	29.83	33	7.5	8.1	13	NW	358	57	5	5	5	
6	51	31	41	-11	27	24	0	0	0	0	0	30.14	04	1.6	1.7	5	E	627	100	0	0	6	
7	59	31	45	-7	30	20	0	0	8	0	0	30.17	01	.7	.7	4	NE	625	100	0	0	7	
8	69	33	51	-1	35	14	0	0	0	0	0	30.10	20	4.2	4.8	9	SW	624	100	1	2	8	
9	69	40	55	4	43	10	0	0	0	0	0	30.11	04	3.8	4.9	11	NE	589	95	2	3	9	
10	60	41	51	0	39	14	0	0	0	0	0	30.24	07	4.5	5.3	11	NE	620	100	6	4	10	
11	66	39	53	2	44	12	0	1	8	0	0	30.13	18	6.1	6.2	14	SW	410	66	7	7	11	
12	74	57	66	16	59	0	1	1	0	0	.02	29.82	18	16.6	16.7	28	S	151	25	10	10	12	
13	66	35	51	1	39	14	0	1	0	0	.37	29.89	33	9.7	13.8	28	NW	476	78	5	5	13	
14	50	29	40	-10	32	25	0	1	0	0	.16	30.12	18	1.4	5.9	12	S	468	76	8	7	14	
15	50	32	41	-8	33	24	0	1	0	0	.43	30.08	34	9.1	10.1	21	34	564	92	1	3	15	
16	51	27*	39*	-10	28	26	0	0	0	0	0	30.26	20	1.0	4.6	7	SW	608	100	8	5	16	
17	58	32	45	-4	37	20	0	0	0	0	0	30.15	05	1.0	2.7	4	N	433	71	10	9	17	
18	60	39	50	2	44	15	0	1	0	0	0	30.17	01	5.5	5.8	9	NE	349	58	8	8	18	
19	54	47	51	3	51	14	0	2	0	0	T	30.22	01	8.5	8.5	10	NE	0	0	10	10	19	
20	64	52	58	10	52	7	0	1	8	0	T	30.22	02	8.0	8.2	11	NE	351	58	10	10	20	
21	67	52	60	13	55	5	0	2	8	0	0	30.10	08	1.5	3.9	6	20	341	57	9	8	21	
22	70	47	59	12	53	6	0	2	0	0	0	29.92	14	.8	2.3	4	E	394	66	8	9	22	
23	71	51	61	15	55	4	0	1	8	0	0	29.77	16	4.0	4.3	9	SW	585	98	5	7	23	
24	68	37	53	7	46	12	0	1	0	0	T	29.85	30	7.4	11.9	24	NW	291	49	9	6	24	
25	51	28	40	-6	26	25	0	0	0	0	0	30.35	03	.9	5.0	10	N	512	86	7	6	25	
26	60	32	46	1	40	19	0	0	0	.02	0	30.19	21	7.0	7.6	15	21	123	21	9	8	26	
27	53	36	45	0	37	20	0	1	0	.08	0	30.20	04	7.2	8.9	15	04	419	71	9	8	27	
28	43	36	40	-4	38	25	0	1	0	.39	0	30.08	04	3.7	5.9	9	07	0	0	10	10	28	
29	69	42	56	12	49	9	0	2	0	.25	0	29.68	25	5.8	7.8	15	25	372	63	8	7	29	
30	61	38	50	7	45	15	0	1	0	0	0	29.99	18	4.7	4.8	10	17	486	83	7	6	30	

* 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 DATA.

FASTEST OBSVD 1-MIN. WINDS REPORTED NOV. 15TH, 21ST, & 26TH-30TH.

DATA IN COLS 6 AND 12-15 ARE BASED ON 7 OR MORE OBSERVATIONS AT 3-HOUR INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: 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). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

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 CENTER, ASHEVILLE, NORTH CAROLINA, 28801.

L. Ray Hoyt

OBSERVATIONS AT 3-HOUR INTERVALS

NOV 1982 13740
RICHMOND, VIRGINIA

HOUR	L. S. T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISI-BILITY		TEMPERATURE				WIND						
				WHOLE MILES	16THS MILE	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)			AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	AIR OF	NET BULB OF			DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)									
DAY 01																																				
01	2	UNL	8			53	52	51	93	18	6							60	60	60	100	19	5	0	UNL	7					62	62	62	100	00	0
04	0	UNL	7			52	51	51	96	16	4							58	58	58	100	19	5	9	UNL	0					60	60	60	100	20	3
07	3	UNL	6			51	51	51	100	18	5							62	62	62	100	20	7	3	UNL	0					58	58	58	100	00	0
10	4	UNL	10			69	63	59	71	21	7							68	67	66	93	20	8	6	UNL	5					67	66	66	97	18	7
13	7	250	10			78	67	60	54	18	10							79	70	66	65	20	7	10	UNL	7					80	70	64	58	20	10
16	9	250	10			78	67	61	56	16	10							79	69	64	60	20	8	10	UNL	8					79	68	62	56	18	10
19	10	120	10			67	63	60	78	17	6							66	63	62	87	15	3	10	UNL	8					69	64	61	76	15	6
22	7	100	10			66	63	61	84	20	5							62	61	60	93	16	4	10	UNL	8					68	65	64	87	17	7
DAY 02																																				
DAY 03																																				
DAY 04																																				
DAY 05																																				
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DAY 14																																				
DAY 15																																				
DAY 16																																				
DAY 17																																				
DAY 18																																				

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- Q 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 FASTEST OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

NOV 1982 13740
RICHMOND, VIRGINIA

HOUR	L. S. T.	VISI-BILITY				TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY				TEMPERATURE				WIND																																												
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																											
DAY 19																						DAY 20																						DAY 21																					
01	10	9	5		47	46	46	96	01	5	10	13	5		53	52	52	96	03	8	10	50	8		55	53	52	90	07	4																																			
04	10	3	2		49	48	48	96	02	7	10	10	5		52	51	51	96	03	8	10	5	5		53	52	52	96	05	5																																			
07	10	1	0	2	49	49	49	100	01	7	10	10	5		52	51	51	96	02	7	10	0	0	1	53	53	53	100	05	4																																			
10	10	2	0	4	50	50	50	100	01	10	10	30	6		54	52	51	90	03	7	10	2	1	4	54	54	54	100	01	4																																			
13	10	2	0	8	52	52	52	100	01	7	9	250	8		63	58	54	73	03	8	7	14	8		64	61	59	84	20	4																																			
16	10	2	0	8	53	53	53	100	01	8	10	250	10		63	57	52	68	36	8	10	UNL	7		66	61	58	76	20	3																																			
19	3	UNL	5		53	53	53	100	02	6	10	50	10		58	54	51	78	36	6	8	UNL	6		58	56	55	90	00	0																																			
22	10	18	6		54	53	53	96	02	9	10	50	8		56	54	52	87	36	5	5	UNL	5		53	53	53	100	15	3																																			
DAY 22																						DAY 23																						DAY 24																					
01	6	UNL	0	12	50	50	50	100	00	0	10	25	7		57	54	52	83	00	0	10	50	7		62	60	58	87	19	7																																			
04	10	0	0	1	49	49	49	100	00	0	10	25	5		56	55	54	93	00	0	10	50	7		61	60	59	93	20	7																																			
07	8	80	0	12	48	48	48	100	00	0	2	UNL	8		52	51	51	96	14	4	10	45	7		62	61	60	93	24	8																																			
10	6	UNL	7		60	58	57	90	20	3	0	UNL	6	H	61	58	55	81	19	5	10	90	5	F	64	63	62	93	25	9																																			
13	10	250	7		69	62	58	68	27	4	10	UNL	7		70	63	58	66	11	3	10	45	12		65	56	48	54	32	15																																			
16	10	250	7		69	62	57	66	00	0	6	UNL	7		70	63	59	68	16	8	5	UNL	15		57	45	30	36	33	19																																			
19	8	250	10		63	58	55	75	08	4	7	UNL	7		61	58	56	84	16	4	0	UNL	15		48	39	27	44	32	10																																			
22	10	30	8		59	55	51	75	12	5	10	250	7		59	58	57	93	18	6	0	UNL	15		40	35	26	57	35	8																																			
DAY 25																						DAY 26																						DAY 27																					
01	1	UNL	15		37	32	24	59	02	6	10	80	10		39	36	32	76	00	0	10	45	7	RW	53	52	51	93	20	5																																			
04	4	UNL	15		33	30	23	67	03	4	2	UNL	10		33	32	30	89	15	4	10	45	5	RF	49	47	45	86	05	11																																			
07	3	UNL	15		29	28	25	85	36	5	7	30	10		38	37	36	93	19	5	10	20	7	R	46	45	44	93	03	9																																			
10	4	UNL	12		39	34	25	57	04	5	10	28	10		46	42	36	68	21	8	10	100	7		45	41	36	71	03	11																																			
13	8	UNL	15		48	38	24	39	22	3	9	25	10		56	48	39	53	21	11	8	40	10		48	41	33	56	02	10																																			
16	10	250	12		49	38	22	35	22	5	8	70	10		59	53	48	67	21	13	8	UNL	12		49	41	30	48	05	9																																			
19	10	80	12		41	37	32	70	15	3	8	UNL	10		57	53	50	78	24	6	9	UNL	12		40	36	30	68	04	4																																			
22	7	UNL	12		39	35	30	70	18	4	10	50	8		54	52	50	86	25	6	5	UNL	12		36	34	30	79	08	3																																			
DAY 28																						DAY 29																						DAY 30																					
01	7	UNL	12		36	33	29	76	06	4	10	3	1		42	42	42	100	19	3	0	UNL	10		44	43	42	93	19	3																																			
04	10	28	8	R	37	35	32	82	06	3	10	3	1		42	42	42	100	29	5	0	UNL	10		40	40	39	96	00	0																																			
07	10	25	10		37	36	35	92	07	8	10	7	7		43	43	43	100	22	4	0	UNL	8		38	38	37	96	00	0																																			
10	10	23	6	RF	38	38	38	100	06	6	8	250	8		52	52	52	100	24	9	4	UNL	7		53	51	49	86	19	9																																			
13	10	5	1	8	41	41	41	100	06	4	8	UNL	12		66	61	58	76	23	10	9	250	7		59	53	48	67	19	8																																			
16	10	2	0	12	43	43	43	100	33	7	7	UNL	12		68	59	53	59	25	10	10	250	7		59	54	49	70	18	4																																			
19	10	3	4	RF	42	42	42	100	36	5	2	UNL	10		57	55	53	87	23	5	10	250	7		52	50	48	86	18	3																																			
22	10	1	0	6	43	43	43	100	19	4	3	UNL	10		55	53	51	86	35	8	10	250	8		53	51	49	86	17	6																																			

RICHMOND VA

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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	REL HUMIDITY %			
01	5	30.02	47	45	44	88	4.5	17	.8	
04	6	30.02	45	44	43	91	4.8	35	.6	
07	6	30.04	45	44	42	92	5.4	02	.9	
10	7	30.07	53	49	45	77	9.2	32	.3	
13	7	30.02	60	53	45	59	9.5	23	2.2	
16	7	30.00	61	52	44	57	9.2	21	1.7	
19	6	30.03	52	49	44	75	5.6	15	.2	
22	6	30.04	49	47	44	82	6.2	13	.3	

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

NOV 1982 13740
RICHMOND, VIRGINIA

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		
1																								1		
2																								2		
3																								3		
4																								4		
5																								5		
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12																								12		
13	.07	.04	.15	.05	.05	.01	T	T														T	T	.02	13	
14																									14	
15	.20	.14	.05	.02	.02	T																	T	.06	.10	15
16																										16
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25																										25
26																										26
27	T	T	.02	.01	.04	.01	T	T																T	.02	27
28																										28
29	T	T	.02	.02	.02	.01	T	T																	T	28
30																										29
																										30

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	00.15	00.27	00.30	00.40	00.60	00.64	00.65	00.67	00.68	00.80	00.83	00.91
ENDED: DATE	04	04	04	04	04	04	04	04	04	04	04	04
ENDED: TIME	1715	1750	1755	1800	1810	1815	1830	1850	1900	1810	1810	1810

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.

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