

Local Climatological Data



MONTHLY SUMMARY

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FT. STANDARD TIME USED: EASTERN MBAN #13740

DECEMBER 1980 RICHMOND, VIRGINIA

DATE	TEMPERATURE °F					DEGREE DAYS BASE 65°		WEATHER TYPES ON DATES OF OCCURRENCE 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 IN.	PRECIPITATION		AVG. STATION PRESSURE IN. ELEV. 177 FEET M.S.L.	WIND			SUNSHINE		SKY COVER TENTHS		DATE	
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING SEASON BEGINS (MAY, JULY)	COOLING SEASON BEGINS (MAY, JUN.)			WATER EQUIVALENT IN.	SNOW, ICE PELLETS IN.		RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE SPEED M.P.H.	DIRECTION	MINUTES	PERCENT OF POSSIBLE		SUNRISE TO MIDDNIGHT
1	70	38	54	11	31	11	0		0	0	29.92	20	8.3	8.8	16	SW	587	100	6	4	1
2	69	39	54	11	33	11	0		0	.01	29.79	21	9.3	12.2	26	NW	497	85	4	4	2
3	53	34	44	2	12	21	0		0	0	30.05	30	11.6	12.9	20	0	584	100	3	2	3
4	50	28	39	-3	10	26	0		0	0	30.22	36	9.9	6.5	15	NE	536	92	1	3	7
5	45	26	37	-5	16	28	0		0	0	30.11	35	9.1	5.8	9	NE	368	63	9	9	5
6	61	40	51	10	27	14	0		0	0	30.07	29	8.6	4.4	9	NW	371	64	8	7	6
7	67	39	53	12	33	16	0		0	0	30.02	18	8.9	6.2	16	SW	460	79	10	7	7
8	75	42	58	19	43	6	0		0	0	29.70	22	8.3	8.8	15	SW	491	85	7	6	8
9	66	56	61	21	49	4	0		0	0	29.76	36	2.4	7.5	16	SW	55	10	10	10	9
10	66	39	53	13	44	12	0		0	.09	29.76	36	2.4	7.5	16	SW	55	10	10	10	9
11	47	29	38	-2	27	27	0	1	8	0	29.97	34	1.9	2.5	15	N	470	81	8	6	11
12	52	26	39	0	27	26	0		0	0	29.93	20	5.2	5.3	16	SW	539	93	2	2	12
13	64	36	50	11	31	15	0		0	0	29.76	25	6.1	10.2	17	N	431	75	9	6	13
14	51	27	39	0	22	26	0		0	0	29.89	25	3.3	7.5	18	SW	456	79	7	4	14
15	45	25	35	-4	25	30	0		0	0	29.91	09	3.8	4.3	9	SE	333	58	10	8	15
16	46	36	41	3	36	24	0	1	8	.02	29.59	35	3.4	4.9	11	N	274	48	10	10	16
17	40	23	32	-6	19	33	0		0	0	29.80	01	7.7	9.2	17	N	534	93	0	2	17
18	58	20	39	1	25	26	0		0	0	29.82	21	7.2	8.3	13	SW	574	100	0	0	18
19	59	25	42	4	26	23	0		0	0	29.91	34	4.5	10.6	18	NE	505	88	7	5	19
20	28	14	21	-17	1	44	0		0	0	30.37	01	13.0	13.2	17	NE	574	100	0	2	20
21	29	11	20	-18	2	45	0		0	0	30.51	35	5.5	5.9	11	NE	529	92	2	1	21
22	34	11	23	-15	8	42	0	1	6	0	30.42	35	8.8	3.5	6	SE	509	89	8	6	22
23	38	27	33	-4	29	32	0	2	6	.12	30.05	35	2.8	4.8	6	N	174	30	10	10	23
24	46	28	37	0	34	28	0	2	8	.04	29.72	21	4.5	7.6	25	N	66	11	10	10	24
25	33	9	21	-16	1	44	0		0	0	30.15	35	14.8	15.1	30	N	575	100	0	2	25
26	26	5	16	-21	5	49	0		0	0	30.26	19	2.5	3.2	7	N	518	90	0	6	26
27	31	22	27	-10	17	38	0		4	.10	30.22	02	12.4	12.7	19	NE	265	46	10	10	27
28	41	29	35	-2	32	30	0	1	6	0	30.10	01	15.1	15.2	20	N	0	0	10	10	28
29	44	38	41	4	39	24	0	2	6	.02	29.77	36	12.8	12.9	17	N	0	0	10	10	29
30	46	29	38	1	33	27	0		0	0	29.71	35	8.4	8.6	17	N	269	47	10	8	30
31	34	26	30	-7	18	35	0		0	0	29.81	02	4.0	5.0	8	NE	318	55	10	8	31
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL	FOR THE MONTH:			TOTAL	%	SUM	SUM			
1514	879					813	0			40	29.97	34	2.6	7.9	30	N	11866	FOR	209	187	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.				PRECIPITATION	DEP.				DATE: 25	POSSIBLE	MONTH	AVG.	AVG.		
48.8	28.4	38.6	-0.4	24	7	0				>.01 INCH	7	-2.82			17905	66	6.7	6.0			
NUMBER OF DAYS		MINIMUM TEMP.		MAXIMUM TEMP.		SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW,								
> 90°	< 32°	< 32°	< 0°	1651	1729	THUNDERSTORMS	0	PRECIPITATION	SNOW	ICE PELLETS	ICE PELLETS OR ICE AND DATE										
0	4	20	0	141	376	CLEAR	8	PARTLY CLOUDY	5	CLOUDY	18										

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
 † TRACE AMOUNT.
 * ALSO ON AN EARLIER DATE, OR DATES.
 HEAVY FOG - VISIBILITY 1/4 MILE OR LESS.
 FIGURES FOR WIND DIRECTIONS ARE TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. 00 = CALM.
 DATA IN COLS. 6 AND 12-15 ARE BASED ON 7 OR MORE OBSERVATIONS PER DAY AT 3-HOUR INTERVALS. FASTEST MILE WIND SPEEDS ARE FASTEST OBSERVED ONE-MINUTE VALUES WHEN DIRECTIONS ARE IN TENS OF DEGREES. THE / WITH THE DIRECTION INDICATES PEAK GUST SPEED.
 ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

SUMMARY BY HOURS

HOUR LOCAL TIME	SKY COVER TENTHS	TEMPERATURE					RELATIVE HUMIDITY %		WIND SPEED M.P.H.		DIRECTION	
		STATION PRESSURE IN.	AIR °F	WET BULB °F	DEW PT. °F	RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.			
01	5	29.97	36	32	25	66	7.4	33	3.3			
04	4	29.97	34	30	23	68	7.3	34	3.2			
07	5	29.99	32	29	23	71	6.9	36	2.8			
10	7	30.03	39	33	24	58	9.7	34	3.3			
13	7	29.96	45	37	25	50	10.2	32	2.0			
16	7	29.93	46	38	25	48	8.6	31	2.9			
19	7	29.96	40	35	26	59	6.3	33	1.3			
22	6	29.97	38	33	25	63	6.9	34	2.9			

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DATE	A. M. HOUR ENDING AT												P. M. HOUR ENDING AT											
	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																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10	T	T	T	.01	T	.01	T	T	.03	.03	.01													
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22	T	.01	.01	.01	.01	.01	.07	T	T													T		
23																								
24																								
25																								
26																								
27																								
28																								
29	T	T	T	T	T	T	T	T	T	T	.01	.01	T	T	T	.01	T							
30																								
31																								

SUBSCRIPTION PRICE: \$3.30 PER YEAR INCLUDING ANNUAL SUMMARY. FOREIGN MAILING \$1.95 EXTRA. SINGLE COPY: 25 CENTS FOR MONTHLY ISSUE, 30 CENTS FOR ANNUAL SUMMARY. THERE IS A MINIMUM CHARGE OF \$3.00 FOR EACH ORDER OF SHELF-STOCKED ISSUES OF PUBLICATIONS. MAKE CHECKS PAYABLE TO DEPARTMENT OF COMMERCE, NOAA. SEND PAYMENTS, ORDERS, AND INQUIRIES TO NATIONAL CLIMATIC CENTER, FEDERAL BUILDING, ASHEVILLE, NORTH CAROLINA 28801.

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.

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE
Daniel B. Mitchell
 DIRECTOR, NATIONAL CLIMATIC CENTER
 USCOMM--NOAA--ASHEVILLE 01/21/81 565

USB FILE COPY

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER	CEILING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE					WIND DIR	SPEED KNOTS	SWELLER HDS. OF FT.	CELLING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE					WIND DIR	SPEED KNOTS	SWELLER HDS. OF FT.	CELLING HDS. OF FT.	VISI- BILITY MILES	WEATHER	TEMPERATURE					WIND DIR	SPEED KNOTS
					AIR F	WET BULB F	DEW PT. F	REL. HUM.	AIR F							WET BULB F	DEW PT. F	REL. HUM.	AIR F	WET BULB F							DEW PT. F	REL. HUM.	AIR F	WET BULB F	DEW PT. F		
01	0	UNL	15		44	38	28	53	20	9		0	UNL	15		46	39	30	54	18	5		0	UNL	15		44	35	21	40	30	14	
04	0	UNL	15		39	35	28	65	18	8		2	UNL	15		41	37	30	65	17	5		0	UNL	15		40	32	18	41	27	14	
07	2	UNL	15		42	36	27	55	20	6		6	UNL	15		40	36	30	68	19	7		0	UNL	15		38	31	17	43	28	10	
10	7	UNL	15		55	44	30	39	22	8		8	250	15		55	44	31	40	19	14		0	UNL	20		43	33	14	31	29	13	
13	6	UNL	15		69	51	32	25	22	10		10	250	15		67	50	31	26	20	12		3	UNL	25		51	37	09	18	30	13	
16	8	UNL	15		68	51	32	23	21	8		0	UNL	15		68	53	38	33	21	12		7	UNL	25		49	35	05	16	32	11	
19	5	UNL	15		55	45	34	45	18	7		7	250	15		64	54	44	48	20	13		7	UNL	25		43	31	02	21	35	11	
22	5	UNL	15		48	41	32	54	16	5		9	30	15		55	43	27	34	30	17		0	UNL	25		35	27	10	35	36	4	
DAY 04																																	
01	0	UNL	25		34	27	09	35	36	6		0	UNL	10		29	26	20	69	35	4		10	25	10		41	33	19	41	31	6	
07	0	UNL	25		32	25	09	38	02	8		8	40	12		35	29	16	46	00	0		10	23	12		43	34	18	37	32	4	
10	1	UNL	25		30	24	08	39	02	6		9	40	12		36	30	17	46	02	0		10	23	10		44	36	22	42	32	4	
13	0	UNL	25		38	28	03	23	36	14		10	120	12		39	28	13	34	01	6		10	23	10		46	37	23	40	35	4	
16	4	UNL	25		46	33	04	17	03	6		9	120	12		43	33	13	29	36	7		9	100	10		57	44	27	32	26	4	
19	8	250	25		49	35	09	20	30	5		8	120	12		45	34	15	30	30	7		9	100	10		58	47	34	41	26	3	
22	7	UNL	25		37	31	20	50	00	0		7	100	12		40	32	17	39	32	5		8	100	10		46	41	35	66	00	0	
DAY 05																																	
01	0	UNL	25		32	28	19	59	00	0		4	UNL	12		38	31	17	43	34	3		10	30	10		49	44	38	66	00	0	
DAY 06																																	
01	0	UNL	25		48	43	36	63	00	0		0	UNL	7		49	46	43	80	00	0		10	45	8		65	54	45	49	22	11	
04	5	UNL	7		44	40	36	74	00	0		0	UNL	7		42	40	36	86	00	0		10	45	8		62	53	44	52	24	9	
07	8	UNL	7		40	38	35	82	00	0		2	UNL	7		42	41	39	89	16	3		10	45	7		58	51	45	62	23	5	
10	10	UNL	10		55	46	36	49	00	0		5	UNL	7		61	52	44	54	21	4		10	50	7		60	54	48	65	22	5	
13	10	UNL	8		65	51	35	32	16	6		10	UNL	10		73	59	48	41	18	10		10	30	8		61	55	51	70	17	6	
16	10	80	8		56	54	42	42	20	2		10	UNL	10		72	58	45	37	20	8		10	80	8		64	57	52	65	20	9	
19	5	UNL	7		59	50	42	54	00	0		10	250	8		62	51	41	46	20	8		10	80	10		62	55	50	65	22	6	
22	2	UNL	7		56	50	44	64	23	5		10	250	8		63	52	41	45	22	10		10	80	8		65	59	54	68	23	10	
DAY 07																																	
01	10	35	8		48	43	36	63	00	0		0	UNL	7		49	46	43	80	00	0		10	45	8		65	54	45	49	22	11	
04	5	UNL	7		44	40	36	74	00	0		0	UNL	7		42	40	36	86	00	0		10	45	8		62	53	44	52	24	9	
07	8	UNL	7		40	38	35	82	00	0		2	UNL	7		42	41	39	89	16	3		10	45	7		58	51	45	62	23	5	
10	10	UNL	10		55	46	36	49	00	0		5	UNL	7		61	52	44	54	21	4		10	50	7		60	54	48	65	22	5	
13	10	UNL	8		65	51	35	32	16	6		10	UNL	10		73	59	48	41	18	10		10	30	8		61	55	51	70	17	6	
16	10	80	8		56	54	42	42	20	2		10	UNL	10		72	58	45	37	20	8		10	80	8		64	57	52	65	20	9	
19	5	UNL	7		59	50	42	54	00	0		10	250	8		62	51	41	46	20	8		10	80	10		62	55	50	65	22	6	
22	2	UNL	7		56	50	44	64	23	5		10	250	8		63	52	41	45	22	10		10	80	8		65	59	54	68	23	10	
DAY 08																																	
01	10	45	7		66	60	56	70	25	10		0	UNL	7		37	35	32	82	28	5		10	100	10		35	32	28	76	00	0	
04	10	45	7		62	58	55	78	31	8		0	UNL	7		34	32	29	82	33	4		10	UNL	10		30	28	25	82	00	0	
07	10	40	8		52	49	46	80	02	8		1	UNL	7		31	30	27	85	00	0		0	UNL	10		28	27	24	85	00	0	
10	10	22	7		47	45	42	83	04	7		8	200	6		42	37	30	63	00	0		0	UNL	6		39	34	27	62	22	4	
13	10	25	10		46	44	41	83	09	7		10	200	12		45	36	23	42	01	8		0	UNL	12		49	40	27	43	22	10	
16	10	22	10		47	43	38	71	05	4		10	100	15		45	36	23	42	01	8		0	UNL	12		50	41	28	43	22	6	
19	8	70	10		44	42	39	83	16	4		9	30	15		40	35	28	62	00	0		0	UNL	12		43	37	29	58	19	9	
22	9	28	7		43	40	39	79	32	4		10	100	10		36	32	28	67	00	0		0	UNL	12		43	37	29	58	19	8	
DAY 09																																	
01	10	30	7		66	60	56	70	25	10		0	UNL	7		37	35	32	82	28	5		10	100	10		35	32	28	76	00	0	
04	10	45	7		62	58	55	78	31	8		0	UNL	7		34	32	29	82	33	4		10	UNL	10		30	28	25	82	00	0	
07	10	40	8		52	49	46	80	02	8		1	UNL	7		31	30	27	85	00	0		0	UNL	10		28	27	24	85	00	0	
10	10	22	7		47	45	42	83	04	7		8	200	6		42	37	30	63	00	0		0	UNL	6		39	34	27	62	22	4	
13	10	25	10		46	44	41	83	09	7		10	200	12		45	36	23	42	01	8		0	UNL	12		49	40	27	43	22	10	
16	10	22	10		47	43	38	71	05	4		10	100	15		45	36	23	42	01	8		0	UNL	12		50	41	28	43	22	6	
19	8	70	10		44	42	39	83	16	4		9	30	15		40	35	28	62	00	0		0	UNL	12		43	37	29	58	19	9	
22	9	28	7		43	40	39	79	32	4		10	100	10		36	32	28	67	00	0		0	UNL	12		43	37	29	58	19	8	
DAY 10																																	
01	0	UNL	10		43	38	30	60	18	9		0	UNL	10		37	33	26	65	01	6		3	UNL	10		35	29	18	50	00	0	
04	0	UNL	10		42	37	29	60	21	6		0	UNL	10		29	28	24	82	00	0		1	UNL	10		29	26	19	66	00	0	
07	7	UNL	10		39	35	29	67	17	4		1	UNL	10		28	27	23	82	00	0		3	UNL	10		26	24	20	78	07	4	
10	10	UNL	10		49	42	32	52	24	10		8	250	12		38	32	21	50	24	9		10	200	10		35	30	22	59	09	7	
13	9	UNL	10		64	50	35	34	25	10		7	250	15		45	36	21	39	22	11												