

# Local Climatological Data



## MONTHLY SUMMARY

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

DATE	TEMPERATURE °F						DEGREE DAYS BASE 65°		WEATHER TYPES DN DATES OF OCCURRENCE	SNOW, ICE PELLETS OR ICE ON GROUND AT 07AM IN.	PRECIPITATION		AVG. STATION PRES- SURE IN. ELEV. FEET M.S.L.				WIND			SUNSHINE		SKY COVER TENTHS		DATE
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINNING WITH JULY)	COOLING (SEASON BEGINNING WITH JAN.)	1			2	WATER EQUIVA- LENT IN	SNOW, ICE PELLETS IN.	RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE M.P.H.	DIRECTION	MINUTES	PERCENT OF POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT		
1	43	26	31	-2	31	9	0			0	0	29.77	26	4.8	9.5	17	W	609	95	2	2	1		
2	56	33	45	-2	28	20	0			0	0	30.08	35	6.1	6.9	19	N	635	100	0	0	2		
3	61	30	46	-7	33	19	0	1	8	0	0	30.18	15	4.6	4.8	13	SE	596	94	3	4	3		
4	55	45	50	-3	48	15	0	2	8	0	.42	29.83	26	4.0	4.6	10	W	0	0	10	9	4		
5	52	39	51	-2	40	14	0	1	0	0	.04	29.67	31	5.5	7.2	14	NW	540	86	4	4	5		
6	58	32	45	-7	30	20	0	1	0	0	0	29.84	23	4.1	5.6	13	W	627	100	2	3	6		
7	72	37	55	3	37	10	0	0	0	0	0	29.67	20	9.9	10.5	18	SW	532	85	5	6	7		
8	79*	53	66*	14	46	0	1	0	0	0	0	29.60	23	7.7	10.5	16	NW	463	74	3	5	8		
9	77	46	62	11	50	3	0	1	8	0	.08	29.63	28	5.2	8.5	17	N	486	78	1	4	9		
10	71	36	54	3	38	11	0	1	0	0	0	29.69	30	10.0	12.8	28	NW	615	99	0	0	10		
11	51	29	40	-11	19	25	0	0	0	0	0	29.92	31	11.7	11.9	23	NW	618	100	0	0	11		
12	56	29	43	-7	21	22	0	0	0	0	0	30.01	32	8.5	9.5	23	NW	616	100	0	0	12		
13	66	29	48	-2	25	17	0	0	8	0	0	30.08	19	4.1	4.3	10	SW	552	90	4	4	13		
14	72	39	56	6	31	9	0	0	0	0	0	29.91	20	6.7	6.9	13	SW	296	48	8	7	14		
15	58	48	53	4	42	12	0	0	8	0	.01	29.87	03	4.5	5.5	9	N	0	0	10	10	15		
16	49	34	42	-7	34	23	0	1	8	0	.04	30.05	01	9.5	10.2	17	NE	403	66	7	7	16		
17	40	34	37*	-12	30	28	0	1	0	0	.55	30.03	01	7.5	8.8	17	NW	13	2	10	9	17		
18	46	34	40	-8	31	25	0	1	0	0	T	29.66	33	12.7	13.2	22	NW	243	40	8	7	18		
19	50	27	39	-9	24	26	0	0	0	0	0	30.06	33	6.4	6.8	14	N	603	100	0	0	19		
20	51	24	38	-10	23	27	0	0	0	0	0	30.17	02	2.7	3.3	8	NE	581	97	1	1	20		
21	57	23*	40	-7	25	25	0	1	8	0	0	30.01	31	3.4	5.6	14	NW	509	95	0	1	21		
22	55	24	40	-7	25	25	0	0	0	0	0	30.19	32	3.0	3.9	9	N	576	96	6	3	22		
23	51	27	39	-7	28	26	0	0	8	0	T	30.21	11	2.9	3.7	9	SW	48	8	10	10	23		
24	59	43	51	5	47	14	0	1	0	0	.70	29.88	14	2.4	6.3	16	SE	0	0	10	10	24		
25	56	35	46	0	36	19	0	1	0	0	0	30.00	34	9.8	10.4	18	NE	461	78	6	5	25		
26	48	27	38	-7	23	27	0	0	0	0	0	30.24	36	5.1	5.6	13	N	517	87	3	4	26		
27	52	38	45	0	36	20	0	1	0	0	.34	29.93	07	6.8	8.2	16	E	57	10	9	10	27		
28	49	36	43	-1	40	22	0	2	0	0	T	29.54	25	9.8	11.9	17	W	3	1	10	8	28		
29	50	33	42	-2	26	23	0	0	0	0	0	29.60	23	11.3	11.9	23	NW	167	28	10	7	29		
30	55	32	44	1	26	21	0	0	0	0	0	29.94	22	8.8	9.5	16	W	588	100	3	2	30		

NOVEMBER 1980 RICHMOND, VIRGINIA

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\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 T 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	AVERAGES						RESULTANT WIND SPEED M.P.H.	
		STATION PRESSURE IN.	TEMPERATURE AIR °F	WET BULB °F	DEW PT. °F	RELATIVE HUMIDITY %	WIND SPEED M.P.H.		
01	4	29.92	41	38	32	71	6.1	31	2.3
04	4	29.91	39	36	32	76	5.6	30	2.2
07	5	29.93	38	35	31	79	5.9	25	2.3
10	4	29.94	48	42	33	57	9.9	29	3.7
13	5	29.88	55	45	33	46	11.0	28	4.2
16	5	29.87	55	45	32	46	9.8	29	4.4
19	5	29.90	47	41	35	62	7.9	35	2.2
22	5	29.92	44	39	32	67	7.2	29	2.5

### HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

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	T	T	.02	.02	T				T	.05	.06	.10		.09	.08	.04	T							4	
5																								5	
6																								6	
7																								7	
8																								8	
9																								9	
10																								10	
11																								11	
12																								12	
13																								13	
14																								14	
15																								15	
16				T	T	T	.02	.01	.01	T				T	T	T				T	T			16	
17																								17	
18	T	T	T											T	T	T	.01	.05	.04	.04	.13	.09	.09	18	
19																								19	
20																								20	
21																								21	
22																								22	
23				T	T	.01	.03	.02	.02	T	T	.03		.13	.41	.05	T	T	T			T	T	23	
24																								24	
25																								25	
26																								26	
27																								27	
28	T	T	T											T	.01	.01	.02	.09	.06	.07	.01	.03	.02	28	
29																								29	
30																								30	

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*Samuel B. Mitchell*  
 DIRECTOR, NATIONAL CLIMATIC CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER	CEILING	VISI-BILITY	TEMPERATURE				WIND	SKY COVER	CEILING	VISI-BILITY	TEMPERATURE				WIND	SKY COVER	CEILING	VISI-BILITY	TEMPERATURE											
				AIR * F	NET BULB F	DEW P. F	REL. HUM. %					AIR * F	NET BULB F	DEW P. F	REL. HUM. %					AIR * F	NET BULB F	DEW P. F	REL. HUM. %	AIR * F	NET BULB F	DEW P. F	REL. HUM. %				
01	0	UNL	12	49	41	29	46	23	7	0	UNL	12	DAY 02	46	38	26	46	36	9	0	UNL	12	DAY 03	34	33	30	85	00	0	0	
04	0	UNL	12	45	38	29	54	27	4	0	UNL	12		39	34	27	62	35	5	0	UNL	12		32	31	28	85	00	0	0	
07	0	UNL	12	45	39	30	56	24	4	0	UNL	12		36	33	27	70	34	4	0	UNL	12	F	32	31	28	85	00	0	0	
10	0	UNL	12	60	48	34	38	24	12	0	UNL	12		49	40	26	41	34	11	0	UNL	12		48	42	35	61	15	4	4	
13	0	UNL	10	67	51	33	28	24	13	0	UNL	15		53	41	25	34	35	9	4	UNL	8		58	47	34	41	15	10	10	
16	5	UNL	12	68	51	34	29	22	5	0	UNL	15		55	42	25	31	34	6	6	UNL	8		60	48	35	39	17	7	7	
19	7	250	12	58	47	35	42	02	01	0	UNL	15		41	38	33	73	10	4	10	250	10		48	43	37	66	13	6	6	
22	0	UNL	10	52	41	26	37	11	9	0	UNL	15		36	34	31	82	00	0	0	UNL	10		48	44	39	71	17	6	6	
01	8	100	10	46	44	41	83	16	4	10	7	1	DAY 05	54	53	52	93	31	8	0	UNL	12	DAY 06	39	36	32	76	01	2	2	
04	5	UNL	8	46	45	43	89	20	4	10	35	5		50	47	45	83	36	8	1	UNL	10		34	33	31	89	00	0	0	
07	8	35	7	49	47	45	86	18	4	7	2	UNL	10	43	42	41	93	24	4	3	UNL	7		32	31	30	92	14	2	2	
10	10	22	3	52	50	48	86	24	3	0	UNL	10	55	49	42	62	32	6	0	UNL	8		48	40	29	48	22	8	8		
13	10	7	3	54	52	51	90	00	0	2	UNL	12	60	48	35	39	27	7	1	UNL	8		54	43	29	38	27	8	8		
16	10	250	1	54	52	51	90	19	9	2	UNL	12	60	47	33	36	28	9	7	UNL	10		57	44	27	32	25	6	6		
19	10	0	0	54	53	53	96	00	0	2	UNL	12	61	48	42	33	34	4	4	UNL	15		44	39	32	63	19	7	7		
22	10	0	0	53	52	52	96	24	9	2	UNL	12	60	41	38	35	79	03	4	8	UNL	15		43	38	32	65	19	6	6	
01	3	UNL	10	41	37	32	70	19	6	2	UNL	10	DAY 08	59	50	42	54	21	9	7	250	7	DAY 09	54	50	47	77	05	4	4	
04	10	UNL	10	41	38	33	73	20	6	5	UNL	10		59	51	43	56	22	11	5	UNL	6		49	47	46	89	32	6	6	
07	10	UNL	7	38	36	34	86	18	8	9	50	10	9	58	51	44	60	23	10	5	UNL	4	F	46	45	44	93	34	5	5	
10	4	UNL	10	58	48	36	44	23	8	0	UNL	10	0	67	57	48	51	22	12	2	UNL	4	H	59	53	48	67	24	7	7	
13	2	UNL	10	70	54	39	32	23	11	0	UNL	10	7	76	61	49	39	24	13	0	UNL	4	H	72	61	53	51	22	9	9	
16	4	UNL	10	70	54	39	32	18	12	7	UNL	10	7	76	60	47	36	24	7	0	UNL	7		76	62	53	45	24	12	12	
19	9	250	10	60	50	40	48	19	12	8	250	8	7	63	55	49	60	12	4	10	25	5	RF	66	60	56	70	33	10	10	
22	10	250	10	61	51	42	50	21	11	9	250	7	8	60	54	48	65	06	7	4	UNL	6		61	58	56	84	27	6	6	
01	0	UNL	6	56	54	53	90	26	4	0	UNL	25	DAY 11	37	32	24	59	29	4	0	UNL	25	DAY 12	34	29	20	57	32	6	6	
04	0	UNL	7	54	52	50	86	27	7	0	UNL	25		35	30	19	52	31	5	0	UNL	25		30	27	20	66	03	3	3	
07	0	UNL	7	50	47	45	83	23	10	0	UNL	20		32	28	19	59	31	9	0	UNL	12		31	27	20	64	27	7	7	
10	0	UNL	10	65	53	42	43	25	13	0	UNL	25		42	34	19	40	33	16	0	UNL	25		42	34	21	63	31	14	14	
13	1	UNL	25	71	52	32	24	31	16	0	UNL	25		47	36	19	33	32	14	0	UNL	25		52	40	23	32	32	14	14	
16	0	UNL	25	65	49	31	28	32	16	0	UNL	25		50	38	18	28	30	14	0	UNL	25		55	41	20	25	35	11	11	
19	0	UNL	25	49	40	27	43	34	15	0	UNL	25		42	33	18	38	32	13	0	UNL	25		46	37	22	39	34	8	8	
22	0	UNL	25	40	34	24	53	34	8	0	UNL	25		36	30	19	50	31	8	0	UNL	20		43	35	22	43	30	3	3	
01	0	UNL	20	33	30	25	72	00	0	0	UNL	15	DAY 14	43	37	29	58	19	7	10	50	6	DAY 15	58	48	37	46	28	4	4	
04	0	UNL	15	29	28	25	85	23	4	0	UNL	15		41	36	29	62	19	7	10	50	6	H	55	49	43	64	00	0	0	
07	0	UNL	15	29	28	26	89	21	3	7	120	15	7	42	37	30	63	22	4	10	50	5	H	55	46	35	47	05	3	3	
10	0	UNL	5	51	41	27	39	00	0	8	120	10	8	61	47	29	30	21	8	10	40	3	KH	57	48	38	49	02	6	6	
13	3	UNL	15	62	45	23	22	18	6	7	250	10	7	71	51	29	21	20	10	10	35	2	RH	55	50	45	69	04	6	6	
16	9	250	15	63	46	23	22	10	7	10	100	10	7	67	50	32	27	23	3	10	25	2	H	55	50	46	72	03	5	5	
19	9	UNL	15	53	41	24	32	17	4	10	100	10	4	55	47	38	53	19	4	10	30	2	H	52	49	46	80	06	8	8	
22	10	UNL	15	48	40	29	48	19	6	10	100	8	10	60	47	33	36	23	5	10	11	3	H	49	46	44	83	04	6	6	
01	10	9	5	47	45	42	83	02	9	8	200	8	DAY 17	34	32	28	79	01	6	10	5	6	DAY 18	34	33	32	92	32	11	11	
04	10	12	4	43	41	38	83	01	12	8	100	10		36	32	25	64	06	6	10	5	6		36	35	33	89	29	6	6	
07	10	8	4	40	39	38	93	01	10	9	80	10	9	36	33	27	70	35	6	10	5	8		36	35	33	89	31	10	10	
10	10	9	7	39	37	33	79	01	13	10	80	10	10	39	34	25	57	04	6	10	6	8		39	38	36	89	33	8	8	
13	6	18	10	45	39	32	60	35	10	10	25	8	10	40	36	29	65	04	8	10	20	12	8	10	45	41	35	68	34	15	15
16	2	UNL	12	47	39	29	50	07	9	7	76	2	8	37	36	29	92	36	9	4	UNL	12	8	4	43	37	27	53	34	18	18
19	3	UNL	10	40	36	28	68	36	6	10	3	1	8	38	37	26	93	01	7	4	UNL	15	8	8	38	33	24	57	35	12	12
22	7	220	8	35	33	29	79	25	3	10	3	2	10	37	36	34	89	32	13	4	UNL	25	8	4	37	33	25	62	34	12	12
01	0	UNL	25	35	31	23	62	35	12	0	UNL	10	DAY 20	27	26	24	88	35	3	0	UNL	10	DAY 21	28	27	24	85	00	0	0	
04	0	UNL	25	29	27	23	78	30	5	0	UNL	10		25	24	22	88	36	4	3	UNL	10		26	25	23	88	00	0	0	
07	1	UNL	10	28	27	23	82	29	3	0	UNL	8		24	23	21	86	00	0	2	UNL	5		24	23	21	88	15	4	4	
10	0	UNL	10	41	35	24	51	33	10	1	UNL	10		38	33	25	60	04	8	0	UNL	4	F	43	37	29	58	26	5	5	
13	-1	UNL	10	45	37	24	44	31	7	1	UNL	10		47	38	23	39	08	4	0	UNL	6	H	52	41	26	37	31	8	8	
16	0	UNL	10	49	39	23	36	34	7	1	UNL	10		50	39	21	32	33	4	0	UNL	7		55	42	24	30	31	12	12	
19	0	UNL	15	37	33	27	67	00	0	4	UNL	15		34	31	26	73	00	0	0	UNL	10		40	35	26	57	08	3	3	
22	0	UNL	20	29	28	25	85	00	0	0	UNL																				