

Local Climatological Data

MONTHLY SUMMARY



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

DATE	TEMPERATURE °F						DEGREE DAYS BASE 65P		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 PRES-SURE IN. 177	WIND				SUNSHINE		SKY COVER TENTHS		DATE	
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING SEASON BEGINS WITH JULY	COOLING SEASON BEGINS WITH JAN. 1	WATER EQUIVA- 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	31	11	21*	-17	7	44	0		2	0	0	29.93	33	12.8	12.9	28	N	620	100	1	1	1	2
2	34	16	25	-13	7	40	0		0	0	0	30.05	32	9.4	10.2	18	N	622	100	3	1	1	3
3	36	12	24	-14	8	41	0		0	0	0	30.10	32	5.2	6.2	10	N	624	100	0	0	1	4
4	37	23	30	-9	12	35	0		0	0	0	30.06	34	9.6	10.1	16	NW	429	69	0	0	6	5
5	41	15	29	-9	16	36	0		0	0	0	30.13	32	4.5	4.9	13	N	507	81	0	0	4	6
6	32	26	29	-9	26	36	0		0	.18	1.6	29.98	33	13.0	13.0	21	NW	513	81	2	2	4	7
7	42	21	32	-6	22	33	0		1	2	2	30.00	34	8.2	8.8	15	N	528	83	7	6	8	8
8	46	23	35	-3	20	30	0		1	0	0	30.20	34	8.2	8.8	15	N	528	83	7	6	8	9
9	35	31	33	-5	30	32	0		0	.30	3.1	29.97	16	2.5	3.6	12	S	0	0	10	10	7	9
10	38	18	28	-11	23	37	0		4	.14	1.6	29.73	34	8.2	8.8	17	N	598	94	1	3	10	10
11	44	11*	28	-11	20	37	0		2	0	0	29.82	20	5.3	5.8	15	SW	531	83	3	2	11	11
12	41	23	32	-7	18	33	0		1	0	0	29.89	32	6.1	7.8	18	NE	605	94	5	2	12	12
13	42	19	31	-8	16	34	0		0	0	0	30.18	36	.9	6.0	10	SW	645	100	1	0	13	13
14	58	25	42	3	22	23	0		8	0	0	30.09	22	5.9	6.5	12	SW	647	100	1	1	14	14
15	49	33	41	3	20	24	0		8	0	0	29.89	14	4.4	6.2	10	SE	0	0	10	8	15	15
16	53	30	42	3	36	23	0		8	.06	0	29.41	29	2.9	12.2	23	N	5	1	10	9	16	16
17	37	21	29	-11	14	36	0		0	0	0	29.80	34	10.0	10.8	23	NW	654	100	0	0	17	17
18	44	16	30	-10	17	35	0		0	0	0	30.08	19	4.1	4.2	11	S	656	100	0	0	18	18
19	54	21	38	-2	23	27	0		0	0	0	30.01	19	3.9	3.9	7	SE	570	86	8	6	19	19
20	65	33	49	9	36	16	0		0	.01	0	29.74	23	1.0	5.9	12	S	601	91	6	7	20	20
21	68	42	55	15	42	10	0		8	.02	0	29.74	27	2.2	6.5	10	NW	615	93	3	6	21	21
22	72*	40	61*	21	54	4	0		8	.12	0	29.67	21	7.1	8.1	22	SW	339	51	9	8	22	22
23	66	45	56	15	50	9	0		23	0	0	29.67	21	1.4	6.9	11	N	255	38	10	8	23	23
24	66	44	55	14	45	10	0		2	.01	0	29.80	25	3.5	7.9	12	N	648	97	5	5	24	24
25	47	35	41	0	37	24	0		8	0	0	29.69	02	7.5	7.9	17	NE	0	0	10	9	25	25
26	41	25	33	-8	25	32	0		0	.02	4	29.77	33	13.3	13.7	26	NW	517	77	7	7	26	26
27	51	22	37	-5	19	28	0		0	0	0	29.79	25	8.6	10.8	26	W	612	90	5	5	27	27
28	39	28	34	-8	27	31	0		1	0	0	29.66	01	4.0	9.5	17	N	0	0	10	10	28	28
29	40	20	30	-12	16	35	0		0	.04	0	29.98	35	9.9	12.4	20	NE	626	92	6	6	29	29

SUM	SUM			TOTAL	TOTAL			TOTAL	TOTAL			FOR THE MONTH:	TOTAL	%	SUM	SUM	
1349	740			835	0	NUMBER OF DAYS		1.01	7.0	29.89	32	3.6	8.2	28	N	12967	FOR 154 145
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	PRECIPITATION		DEP.				DATE: 01	POSSIBLE	MONTH	AVG.	AVG.	
46.5	25.5	36.0	-3.4	25	95	>.01 INCH		2.00					18845	69	5.3	5.0	

* 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 MIND 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

LOCAL TIME	STATION	TEMPERATURE				RELATIVE HUMIDITY & WIND SPEED		RESULTANT WIND	
		AIR °F	BULB °F	DEW PT. °F	HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.	
01	5	29.88	33	30	25	73	6.7	32	3.0
04	5	29.88	32	29	24	75	6.7	33	3.7
07	5	29.91	30	28	23	78	6.3	32	3.7
10	5	29.93	37	32	24	62	9.5	34	5.3
13	5	29.88	43	36	25	53	10.5	30	5.5
16	5	29.84	45	37	24	48	11.1	30	5.7
19	5	29.87	39	34	25	61	7.7	33	2.9
22	5	29.90	34	31	25	71	6.9	33	2.7

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																									4
5																									5
6																									6
7																									7
8																									8
9																									9
10	.02	.06	.04	.02	T																				10
11																									11
12																									12
13																									13
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16																									16
17																									17
18																									18
19																									19
20																									20
21																									21
22	T	.02	.04	.02	.03	.01	T																	.02	22
23																									23
24	.01	T																							24
25																									25
26																									26
27																									27
28																									28
29																									29

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FEBRUARY 1980 RICHMOND, VIRGINIA

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER			VISI-BILITY	TEMPERATURE			WIND			SKY COVER	VISI-BILITY	TEMPERATURE			WIND			SKY COVER	VISI-BILITY	TEMPERATURE			WIND						
	CEILING	AMOUNT	TYPE		AIR * F	WET BULB * F	DEW PT. * F	REL. HUM. %	DIR	SPEED KNOTS			AIR * F	WET BULB * F	DEW PT. * F	REL. HUM. %	DIR	SPEED KNOTS			AIR * F	WET BULB * F	DEW PT. * F	REL. HUM. %	DIR	SPEED KNOTS	AIR * F	WET BULB * F	DEW PT. * F	REL. HUM. %
01	0	UNL	25		20	18	09	62	33	9	0	UNL	25		20	17	05	52	32	6	0	UNL	20		19	16	07	59	31	5
04	0	UNL	20		17	15	06	62	34	8	0	UNL	25		17	15	06	62	36	5	0	UNL	20		17	15	05	59	33	6
07	0	UNL	15		14	12	04	64	35	4	0	UNL	20		17	14	04	56	31	9	0	UNL	20		16	14	06	64	00	0
10	2	UNL	15		23	19	07	50	33	13	2	UNL	20		24	20	07	48	35	13	0	UNL	20		25	21	07	46	36	8
13	3	UNL	15		31	24	07	36	33	18	6	UNL	20		31	24	08	38	33	10	0	UNL	20		31	24	07	36	26	7
16	1	UNL	15		31	24	08	38	32	15	2	UNL	20		32	25	07	35	29	10	0	UNL	20		36	28	08	31	31	7
19	0	UNL	25		26	21	08	46	32	13	0	UNL	20		29	23	08	41	29	8	0	UNL	20		29	23	09	45	35	4
22	0	UNL	25		23	19	08	52	31	10	0	UNL	20		22	19	09	57	33	6	3	UNL	20		26	22	12	55	35	6
DAY 04																														
01	10	100	20		26	22	11	53	01	8	0	UNL	20		26	23	15	63	31	8	3	UNL	15		29	26	20	69	19	3
04	10	50	15		25	21	11	55	34	8	0	UNL	20		21	20	15	76	30	4	10	50	10		30	27	22	72	17	4
07	10	100	15		23	20	10	57	01	6	0	UNL	12		18	18	15	88	00	0	10	28	10		30	27	21	69	19	5
10	10	100	15		27	23	10	49	35	9	0	UNL	12		30	25	15	54	02	8	10	10	10		30	29	28	92	06	6
13	9	250	15		31	25	11	43	32	10	0	UNL	15		38	30	13	36	32	6	10	5	0		31	31	30	96	05	7
16	5	UNL	20		37	30	15	41	33	13	8	250	15		40	31	13	33	31	5	10	6	0		31	31	100	04	8	
19	0	UNL	20		31	26	15	51	32	8	10	UNL	15		33	28	18	54	00	10	10	11	7		29	29	29	100	36	10
22	0	UNL	20		28	25	16	61	35	8	10	UNL	15		30	27	20	66	19	3	10	11	7		28	28	26	92	35	15
DAY 05																														
01	10	10	6		26	26	25	96	33	13	0	UNL	12		29	26	19	66	34	11	10	45	7		33	30	26	75	00	0
04	10	30	5		25	24	22	88	32	11	0	UNL	10		24	23	19	81	31	6	10	45	7		33	29	21	61	04	4
07	4	UNL	10		22	22	20	92	32	11	3	UNL	10		36	30	19	50	36	12	10	15	1		34	31	27	76	18	6
10	1	UNL	10		32	29	27	67	34	11	6	UNL	15		43	34	19	38	34	11	10	5	0		33	33	33	100	00	0
13	2	UNL	15		39	33	23	53	32	15	8	UNL	15		45	35	18	34	30	9	10	5	1		34	34	34	100	17	7
16	5	UNL	15		41	34	21	43	33	14	8	UNL	15		45	35	18	34	30	9	10	4	0		34	34	34	100	18	5
19	0	UNL	15		34	30	23	64	33	8	8	250	15		35	30	20	54	01	4	10	4	0		34	34	34	100	18	5
22	0	UNL	15		32	29	22	67	35	9	10	60	15		36	32	24	62	00	0	10	4	0		33	33	33	100	12	3
DAY 06																														
01	10	10	6		32	32	32	100	03	4	0	UNL	15		17	17	15	92	00	0	0	UNL	8		32	30	26	79	26	4
04	10	4	0		31	31	31	100	36	8	0	UNL	15		14	14	13	96	00	0	0	UNL	8		32	29	24	72	29	7
07	6	18	4		29	29	27	92	35	10	0	UNL	4		14	14	14	100	00	0	8	UNL	8		31	27	20	64	26	6
10	0	UNL	7		30	27	22	72	35	10	0	UNL	8		30	26	19	64	18	6	8	250	7		32	28	19	59	36	12
13	0	UNL	10		36	30	20	52	34	13	0	UNL	12		40	33	21	47	24	11	1	UNL	10		38	30	13	36	30	12
16	0	UNL	20		38	31	16	41	31	13	9	100	12		43	35	23	45	20	11	0	UNL	20		41	31	10	28	34	10
19	0	UNL	20		28	25	16	61	34	3	10	80	10		39	34	25	57	19	6	0	UNL	15		33	27	13	44	02	3
22	0	UNL	20		19	19	17	92	00	0	2	UNL	10		34	31	26	73	18	6	0	UNL	15		25	23	18	75	00	0
DAY 07																														
01	0	UNL	15		26	23	14	60	36	7	0	UNL	10		27	25	20	75	20	6	0	UNL	7		38	33	26	62	01	5
04	0	UNL	15		26	23	15	63	04	6	0	UNL	10		29	26	20	72	19	5	3	UNL	7		40	35	27	60	00	0
07	0	UNL	10		22	21	16	78	02	3	0	UNL	8		27	25	20	75	19	4	10	50	7		35	30	30	82	19	3
10	2	UNL	15		32	27	15	49	03	7	0	UNL	6		38	32	22	53	24	7	10	40	8		42	36	28	58	09	5
13	0	UNL	20		37	29	12	36	21	4	0	UNL	7		52	39	20	28	21	6	10	80	10		47	39	29	50	14	9
16	0	UNL	20		42	32	14	32	24	8	3	UNL	10		58	43	22	25	25	10	10	90	10		48	40	29	48	15	8
19	0	UNL	15		32	28	19	59	17	4	6	UNL	10		51	40	24	35	25	4	6	UNL	10		42	38	33	71	16	7
22	0	UNL	15		27	25	20	75	18	3	0	UNL	8		39	33	25	60	21	3	10	80	6		41	39	36	82	15	6
DAY 08																														
01	10	45	5		46	42	36	69	17	7	0	UNL	15		30	26	15	56	35	15	0	UNL	12		23	21	14	68	00	0
04	10	30	5		50	43	35	57	20	10	0	UNL	15		26	22	12	56	31	15	0	UNL	12		20	19	14	77	00	0
07	10	20	4		52	47	41	66	18	10	0	UNL	15		23	21	13	65	33	7	0	UNL	12		18	18	16	92	00	0
10	10	45	4		50	48	46	86	20	8	0	UNL	25		28	23	11	49	34	12	0	UNL	15		30	25	14	51	19	5
13	10	40	4		51	49	47	86	25	5	0	UNL	25		31	26	13	47	34	10	0	UNL	20		38	31	18	44	21	9
16	8	80	7		48	43	38	68	34	13	0	UNL	25		36	28	11	35	29	10	0	UNL	20		44	34	17	34	19	7
19	10	40	12		39	33	22	51	36	18	0	UNL	15		33	28	18	54	36	3	0	UNL	15		34	29	19	54	18	3
22	6	80	12		34	29	20	57	34	14	0	UNL	12		28	24	14	56	01	7	0	UNL	15		29	27	21	72	19	5
DAY 09																														
01	0	UNL	15		28	26	21	75	19	5	7	250	15		39	35	29	67	33	5	10	40	10		52	48	44	74	22	6
04	0	UNL	15		27	25	19	72	19	3	9	100	12		38	35	30	73	35	6	8	40	10		48	45	42	80	26	4
07	2	UNL	15		26	25	22	85	00	0	8	250	12		35	33	29	79	34	3	0	UNL	5		43	41	39	86	31	4
10	9	UNL	15		39	33	21	48	19	3	8	250	15		50	42	33	52	03	5	0	UNL	5		56	49	42	60	28	4
13	8	300	15		49	38	19	30	19	6	3	UNL	15		59	49	38	46	19	6	7	UNL	8		66	54	43	43	28	9
16	8	300	15		54	42	26	34	19	6	3	UNL	15		63	51	39	41	19	7	3	UNL	8		67	54	43	42	04	6
19	5	UNL	15		41	37	30	65	19	4	9	40	12		52	47	42	69	19	5	9	UNL	10		58	50	42	55	07	6
22	6	UNL	15		40	35	27																							