



LATITUDE 39° 40' N LONGITUDE 75° 36' W ELEVATION (GROUND) 74 FT. STANDARD TIME USED: EASTERN WBAN #13781

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 ELAIZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	SNOW, ICE PELLETS OR ICE ON GROUND AT 07AM IN.	PRECIPITATION		AVG. STATION PRESSURE IN. - - - ELEV. 90 FEET M.S.L.	WIND				SUNSHINE		SKY COVER TENTHS		DATE							
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS MITH JULY)				COOLING (SEASON ENDS WITH JAN. 1)	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		SUNSHINE TO SUNSET	MIDNIGHT TO MIDNIGHT					
																								18	19	20	21	22
1	53	33	43	6	33	22	0		0	0	29.70	13	13.2	13.7	21	32		5	5	1								
2	48	33	41	4	29	24	0	B	0	T	29.68	28	9.7	10.5	18	29		10	7	2								
3	40	25	33	-4	13	32	0		0	0	29.81	31	15.9	16.0	23	32		4	2	3								
4	42	20	31	-7	21	34	0		0	0	29.91	21	5.5	7.6	14	18		8	7	4								
5	35	31	33	-5	31	32	0	1	4	0.4	29.91	21	5.5	7.6	14	18		10	5	5								
6	39	29	34	-4	24	31	0	1		0.65	29.95	31	14.9	15.1	25	31		4	4	6								
7	40	27	34	-5	24	31	0	1		T	29.80	31	18.2	18.3	25	32		7	6	7								
8	48	33	41	2	29	24	0		0	0	30.08	32	10.9	11.1	15	31		8	9	8								
9	48	38	43	4	29	22	0		0	0	30.14	31	12.4	12.7	22	32		9	10	9								
10	50	31	41	1	28	24	0		0	T	30.06	29	10.2	10.6	18	33		7	6	10								
11	44	31	38	-2	31	27	0	B	0	0.12	29.90	27	8.5	10.5	21	33		10	7	11								
12	48	29	38	-2	21	27	0		0	0	29.85	27	9.0	12.2	18	31		2	1	12								
13	44	34	49	9	28	16	0		0	0	29.61	25	6.5	11.9	18	32		3	5	13								
14	64	28	36	-5	10	29	0		0	0	29.75	31	21.6	21.7	30	31		4	3	14								
15	55	27	41	0	18	24	0		0	0	29.68	33	12.9	13.5	20	22		8	5	15								
16	47	27	37	-5	27	28	0	1		0.13	29.30	33	12.7	16.0	29	33		10	9	16								
17	46	22	34	-8	14	31	0		0	T	29.37	28	15.7	18.4	30	28		7	4	17								
18	37	15*	26*	-16	8	39	0		0	0	29.50	30	12.1	12.5	21	31		7	6	18								
19	39	21	30	-13	13	35	0		0	T	29.40	32	7.4	8.5	17	28		8	7	19								
20	40	24	32	-11	18	33	0		0	0	29.45	29	7.4	8.5	15	28		8	7	20								
21	45	29	37	-6	21	28	0		0	0	29.75	31	10.7	12.8	20	32		4	3	21								
22	49	27	38	-6	26	27	0		0	0	30.11	05	3.9	7.9	15	08		5	6	22								
23	50	35	43	-1	27	22	0		0	0	29.94	05	9.2	9.5	18	05		8	7	23								
24	56	28	42	-2	24	23	0		0	0	29.90	33	10.8	11.2	18	35		4	4	24								
25	52	30	41	-4	29	24	0	B	0	0.01	30.04	32	7.6	8.8	21	36		7	4	25								
26	56	27	42	-3	32	23	0	1	8	0	30.19	17	6.0	8.3	20	17		3	2	26								
27	62	37	50	5	34	15	0	8	0	T	030.01	31	6.8	12.9	22	30		9	7	27								
28	62	34	48	2	29	17	0	8	0	0	30.29	20	4.4	7.2	17	16		1	1	28								
29	73	36	55	9	36	10	0		0	0	30.02	21	9.8	10.8	16	20		7	6	29								
30	63	55	59	13	52	6	0	1		0.31	29.68	21	13.8	14.5	21	20		10	9	30								
31	75*	48	62*	15	45	3	0	1		0	29.89	27	8.8	12.9	20	30		0	0	31								
SUM		SUM		TOTAL		TOTAL		TOTAL		TOTAL		FOR THE MONTH:				TOTAL		%		SUM		SUM						
1550		943		763		0		NUMBER OF DAYS		1.26		3.7		29.60		29		7.4		12.2		30 28						
AVG.		AVG.		AVG.		AVG.		PRECIPITATION		DEP.		DEP.		DEP.		DATE: 17*		POSSIBLE		MONTH		AVG.						
50.0		30.4		40.2		-1.4		26		38		0		2.48						6.4		5.5						
NUMBER OF DAYS								SEASON TO DATE		TOTAL		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW,														
MAXIMUM TEMP.								MINIMUM TEMP.		4709		PRECIPITATION		SNOW, ICE PELLETS		ICE PELLETS OR ICE AND DATE												
30° 0								< 32°		< 0°		DEP.		DEP.		4		5										
0								20		0		278		0		CLEAR 5		PARTLY CLOUDY 13		CLOUDY 13								

* 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 HIND 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	SKY COVER	AVERAGES								RESULTANT WIND	
		PRESSURE IN.	TEMPERATURE				RELATIVE HUMIDITY %	WIND SPEED M.P.H.	DIRECTION	SPEED M.P.H.	
			AIR °F	WET BULB °F	DEW PT. °F	°F.					
01	4	29.81	36	32	29	66	9.1	29	6.7		
04	5	29.80	34	31	24	68	9.7	29	6.5		
07	6	29.82	35	32	25	68	10.4	29	6.6		
10	6	29.83	43	37	26	55	14.2	30	8.9		
13	7	29.78	47	39	27	48	15.6	30	9.2		
16	7	29.76	47	39	26	47	16.3	29	9.9		
19	5	29.79	42	36	26	56	11.4	29	6.5		
22	4	29.82	39	34	26	63	10.9	29	6.5		

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

[illegible]

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Daniel B. Mitchell
DIRECTOR, NATIONAL CLIMATIC CENTER

USCOMM--NOAA--ASHEVILLE

03/31/81

500

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	TEMPERATURE				WIND	TEMPERATURE				WIND	TEMPERATURE				WIND																
	SKY COVER TENTHS	CEILING HDS. OF FT.	MOON HDS. OF FT.	VISI- BILITY MILES		SKY COVER TENTHS	CEILING HDS. OF FT.	MOON HDS. OF FT.	VISI- BILITY MILES		SKY COVER TENTHS	CEILING HDS. OF FT.	MOON HDS. OF FT.	VISI- BILITY MILES																	
01	10	55	7	DAY 01	45	44	43	93	29	6	0	UNL	10	DAY 02	35	33	29	79	24	5	1	UNL	15	DAY 03	32	27	17	54	30	11	
04	8	250	10		44	40	35	71	31	14	10	39	7		37	35	32	82	23	5	0	UNL	15	31	26	14	49	31	10		
07	4	36	12		43	39	33	68	31	12	10	36	4		37	35	32	82	27	4	7	60	20	30	24	11	45	31	11		
10	6	250	12		48	41	31	52	32	18	10	41	5		42	38	32	68	23	6	5	UNL	20	34	27	11	38	32	10		
13	3	UNL	15		51	42	31	46	31	16	10	36	8		47	40	30	52	28	13	2	UNL	25	37	29	11	34	31	17		
16	3	UNL	15		52	42	30	43	31	16	10	39	8		46	39	29	52	28	14	0	UNL	20	39	30	12	33	31	18		
19	0	UNL	15		41	36	28	60	26	7	9	85	15		41	34	23	49	30	12	0	UNL	20	33	27	12	42	31	11		
22	0	UNL	15		39	35	29	67	26	6	0	UNL	15		37	32	22	55	29	14	0	UNL	20	30	25	12	47	32	13		
DAY 04																															
01	0	UNL	15		26	23	13	58	27	6	10	1	0	DAY 05	33	33	32	96	09	5	10	48	5	DAY 06	33	32	29	85	30	7	
04	0	UNL	15		24	21	14	66	26	5	10	2	0	8	33	33	32	96	07	9	7	70	7	F	33	30	26	75	31	7	
07	4	UNL	12		25	23	17	72	30	4	10	4	1	SF	34	33	32	92	06	11	1	UNL	10	33	30	26	18	61	31	13	
10	6	250	12		34	28	16	48	18	4	10	6	2	RIPF	35	34	32	89	05	16	0	UNL	10	34	30	22	62	30	14		
13	3	UNL	15		39	32	19	45	21	8	10	8	1	8	34	33	30	85	04	17	4	UNL	12	38	32	22	53	32	19		
16	10	100	10		40	34	24	53	18	9	10	10	2	SF	32	31	29	89	02	13	4	UNL	10	37	33	27	67	29	16		
19	10	50	10		36	33	29	76	16	10	10	12	2	SF	32	31	29	89	05	9	7	55	10	35	32	27	73	31	11		
22	10	7	4	RSF	35	34	32	89	21	6	10	48	4	SF	32	31	29	89	30	5	0	UNL	12	33	28	19	56	30	12		
DAY 07																															
01	0	UNL	12		30	25	15	56	31	12	10	39	10	DAY 08	36	33	28	73	32	11	10	50	10	DAY 09	40	36	30	68	30	9	
04	0	UNL	12		29	26	16	61	31	17	10	31	10		34	31	27	76	32	10	10	55	8		39	36	31	73	32	10	
07	7	75	15		28	25	16	68	26	15	9	44	1		42	38	32	60	25	6	6	44	20	36	39	30	64	31	12		
10	6	250	15		32	27	18	56	30	22	7	40	12		42	37	29	60	32	10	10	80	9	45	39	30	56	33	10		
13	3	UNL	15		36	31	22	57	31	18	7	80	12		48	41	31	52	33	10	10	48	9	46	39	29	52	32	13		
16	10	110	15		39	33	24	65	31	20	10	39	12		46	39	29	52	31	8	8	70	12	45	38	28	51	31	16		
19	10	48	12		38	33	26	62	31	12	10	48	12		42	37	31	65	30	10	10	70	10	43	37	27	53	29	9		
22	10	32	10		37	34	28	70	31	11	10	50	12		41	37	30	65	32	11	10	70	12	41	35	26	55	33	11		
DAY 10																															
01	10	50	15		39	34	27	62	28	8	2	UNL	10	DAY 11	35	32	27	73	26	8	2	UNL	10	DAY 12	32	29	24	72	31	11	
04	7	48	12		36	32	26	67	26	5	2	UNL	9		32	30	27	82	26	8	2	UNL	9		29	26	20	69	31	9	
07	9	250	8		34	31	27	76	27	5	8	80	5		31	30	27	85	19	6	7	39	10	32	28	20	61	30	10		
10	10	UNL	15		40	33	31	55	25	14	10	16	3		42	38	32	60	25	5	6	44	20	36	30	58	31	12			
13	10	39	8		48	40	29	48	25	14	10	10	3	RH	40	38	36	86	22	10	0	UNL	20	34	34	19	40	27	14		
16	4	UNL	9		46	41	34	63	29	14	9	48	4	H	40	39	37	89	30	10	0	UNL	20	47	37	22	37	24	12		
19	3	UNL	9		40	35	26	57	30	7	10	41	7		36	34	31	82	31	14	0	UNL	15	43	35	22	43	19	10		
22	7	60	10		40	35	27	60	29	7	2	UNL	10		34	31	27	76	31	8	0	UNL	15	37	32	23	57	21	7		
DAY 13																															
01	0	UNL	15		35	32	26	70	20	5	10	95	12	DAY 14	41	34	23	49	32	16	0	UNL	15	DAY 15	29	24	12	49	23	7	
04	8	85	15		37	33	27	67	24	5	0	UNL	12		33	26	11	40	31	16	0	UNL	15	32	26	14	47	25	12		
07	4	UNL	7		39	34	26	60	24	10	0	UNL	15		29	24	10	45	31	17	6	UNL	15	35	28	14	42	24	15		
10	0	UNL	10		55	44	31	40	24	11	5	UNL	25		33	25	06	32	31	26	7	250	15	45	35	18	34	24	12		
13	3	UNL	12		61	47	30	31	22	14	5	UNL	25		35	27	07	31	31	23	10	120	15	50	38	19	31	23	14		
16	7	75	12		61	47	29	30	21	13	2	UNL	25		31	29	05	26	31	25	1	140	15	53	39	20	34	25	11		
19	10	70	15		54	43	29	38	32	9	0	UNL	25		34	26	06	31	31	16	4	UNL	20	48	38	21	34	19	11		
22	8	85	12		49	40	26	41	32	16	0	UNL	20		31	25	11	43	29	12	8	85	15	47	38	24	41	22	10		
DAY 16																															
01	3	UNL	15		44	36	24	47	17	6	2	UNL	15	DAY 17	27	22	07	43	32	16	0	UNL	15	DAY 18	25	20	06	44	31	18	
04	10	60	15		43	37	26	49	11	7	0	UNL	15		25	21	10	53	30	14	0	UNL	15	19	15	01	45	31	14		
07	10	41	7	RW	47	42	35	63	29	14	0	UNL	15		24	21	12	60	22	7	2	UNL	20	20	16	03	47	29	7		
10	10	29	4	RF	44	43	31	89	30	9	10	230	12		35	29	18	50	23	16	8	UNL	20	30	23	04	30	30	12		
13	10	12	4		44	42	40	86	02	13	10	44	10		38	32	22	53	24	12	8	90	20	35	27	08	32	31	13		
16	10	48	10		37	33	26	65	35	22	8	60	12		44	36	21	40	28	26	9	15	20	36	28	11	35	28	8		
19	10	85	20		33	27	15	68	33	20	0	UNL	25		30	30	12	34	30	17	5	UNL	15	31	26	13	47	26	7		
22	4	UNL	15		28	23	10	47	33	20	0	UNL	25		32	26	10	40	30	17	0	9110	20	27	24	17	66	30	7		
DAY 19																															
01	10	95	15		30	25	13	49	03	8	10	32	12	DAY 20	28	25	16	61	01	4	0	UNL	12	DAY 21	33	29	21	61	23	8	
04	9	95	15		25	21	6	63	30	6	10	32	12		27	24	16	63	00	0	8	55	12	32	29	23	69	26	9		
07	10	95	15		22	20	12	65	30	6	9	32	8		27	25	21	78	24	6	7	50	12	30	28	25	82	29	8		
10	9	95	15		35	28	12	68	32	6	7	250	10		32	27	16	52	28	10	5	UNL	15	37	31	19	48	34	17		
13	9	48	12		39	31	17	41	32	13	6	50	12		36	29	14	40	30	12	5	UNL	15	42	33	17	36	32	14		
16	10	50	12		34	28	16	48	29	10	9	44	15		39	32	18	43	31	12	3	UNL	12	44	35	20	38	32	16		
19	3	UNL	15		29	24	17	47	30	6	4	UNL	15		35	30	22	59	28	7	2	UNL	12	38	31	19	46	33	10		
22	6	250	12		29	24	12	49	30	4	0	UNL	15		33	30	24	70	26	8	0	UNL	12	33	29	20	59	34	7		
DAY 22																															
01	0	UNL	12		32	29	22	67	32	6	10	160	10	DAY 23	37	34	29	73	00	0	7	60	10	DAY 24	35	31	25	67	33	5	