

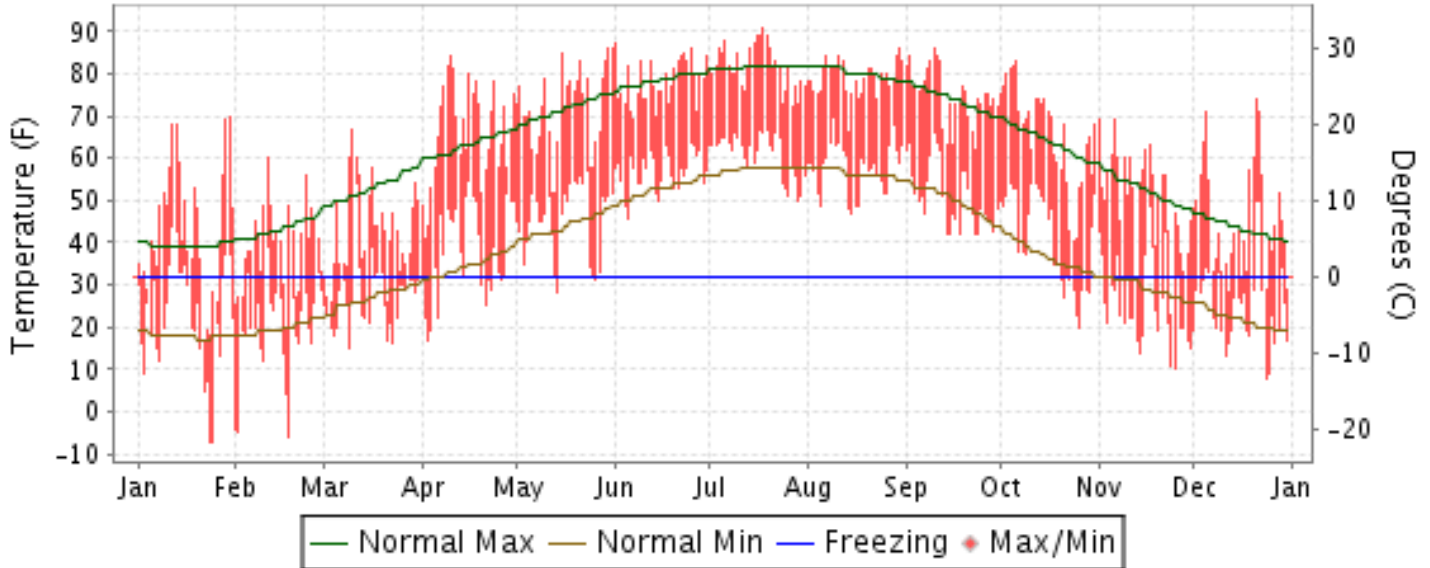


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

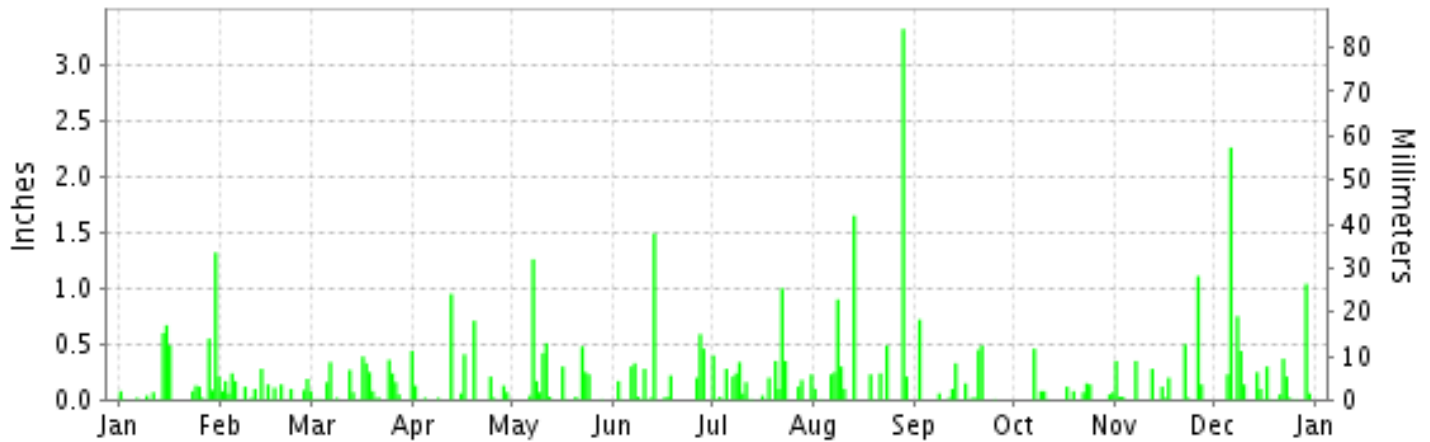
ISSN 0198-5620

ELKINS, WEST VIRGINIA (KEKN)

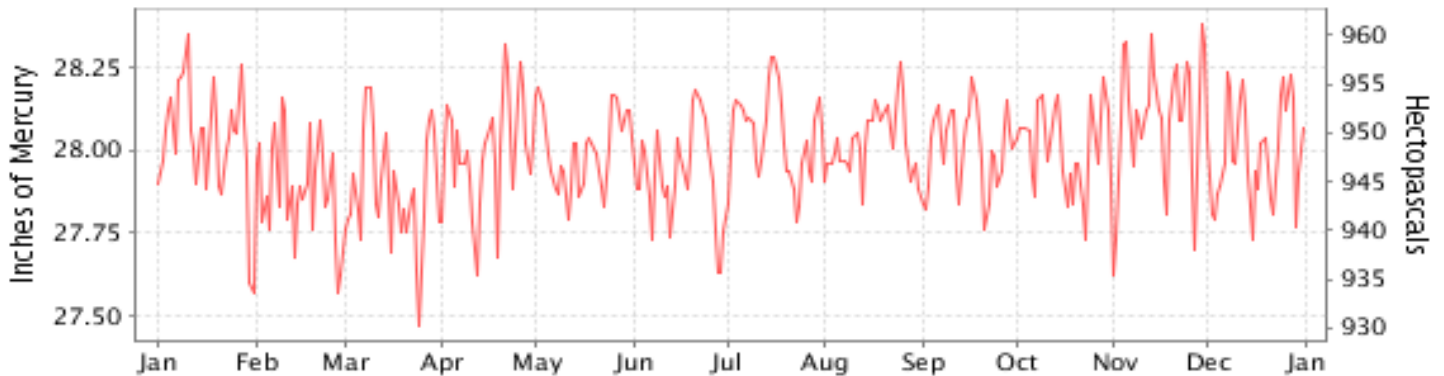
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

ELKINS (KEKN)

LATITUDE: 38° 53'N LONGITUDE: 79° 51'W ELEVATION (FT): GRND: 1979 BARO: 1982 TIME ZONE: EASTERN (UTC -5) WBAN: 13729

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	43.0	39.1	42.8	66.2	71.5	78.2	81.7	78.9	74.9	65.7	50.7	45.6	61.5	
	HIGHEST DAILY MAXIMUM	70	60	67	84	86	87	91	86	86	83	69	74	91	
	DATE OF OCCURRENCE	30	11	10	10	31+	01	18	30	10	06	06+	21	JUL 18	
	MEAN DAILY MINIMUM	22.5	19.5	26.9	37.9	45.6	57.0	61.0	57.9	51.1	41.0	25.9	24.9	39.3	
	LOWEST DAILY MINIMUM	-7	-6	15	17	28	46	50	47	42	20	10	8	-7	
	DATE OF OCCURRENCE	25+	18	09	03	14	05	29	15	24+	26	25	24	JAN 25+	
	AVERAGE DRY BULB	32.7	29.3	34.9	52.1	58.5	67.6	71.4	68.4	63.0	53.4	38.3	35.2	50.4	
	MEAN WET BULB	29.8	26.7	30.3	44.7	52.1	62.1	65.5	63.0	57.3	48.1	33.6	31.7	45.4	
	MEAN DEW POINT	24.2	21.0	23.5	35.3	46.2	58.9	62.4	60.3	54.2	44.2	26.6	26.5	40.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	MAXIMUM <= 32°	7	7	4	0	0	0	0	0	0	0	2	4	24	
MINIMUM <= 32°	23	25	26	12	4	0	0	0	0	10	23	25	148		
MINIMUM <= 0°	2	3	0	0	0	0	0	0	0	0	0	0	5		
H/C	HEATING DEGREE DAYS	991	994	927	384	216	12	4	19	113	365	794	915	5734	
	COOLING DEGREE DAYS	0	0	0	3	22	97	208	133	60	10	0	0	533	
RH	MEAN (PERCENT)	73	71	68	57	68	77	78	80	79	77	68	74	73	
	HOUR 01 LST	77	76	77	73	82	90	92	92	93	88	75	78	83	
	HOUR 07 LST	78	77	74	68	71	84	85	89	91	89	81	82	81	
	HOUR 13 LST	62	62	59	37	47	61	60	59	55	54	50	61	56	
	HOUR 19 LST	76	71	67	51	69	78	80	85	86	82	71	75	74	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	6	3	4	3	9	5	2	4	8	3	1	1	49	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
PR	MEAN STATION PRESS. (IN.)	28.03	27.89	27.88	28.00	28.01	27.93	28.04	28.03	28.01	28.01	28.10	28.00	27.99	
	MEAN SEA-LEVEL PRESS. (IN.)	30.20	30.05	30.02	30.11	30.10	29.99	30.11	30.10	30.09	30.12	30.25	30.16	30.11	
WINDS	RESULTANT SPEED (MPH)	3.3	3.5	4.3	2.7	1.5	1.3	0.9	0.9	0.9	1.3	2.8	2.7	2.1	
	RES. DIR. (TENS OF DEGS.)	26	26	27	23	23	27	25	29	30	27	27	25	26	
	MEAN SPEED (MPH)	5.0	6.0	6.6	5.9	4.0	3.1	2.8	2.0	1.9	2.6	5.0	4.7	4.1	
	PREVAIL.DIR.(TENS OF DEGS.)	27	26	31	16	14	31	16	32	32	28	30	28	31	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	37	28	32	45	24	28	30	16	22	30	37	38	45	
	DIR. (TENS OF DEGS.)	25	15	24	29	26	25	29	23	29	28	29	28	29	
	DATE OF OCCURRENCE	30	26	19	24	15	13	20	09	12	17	17	22	APR 24	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	47	43	49	54	32	43	39	30	30	41	56	53	56	
DIR. (TENS OF DEGS.)	29	25	25	29	25	26	28	29	28	28	30	27	30		
DATE OF OCCURRENCE	31	12	19	24	15	13	20	01	12	17	17	22	NOV 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.51	2.10	3.24	2.73	3.81	4.17	4.32	8.04	2.37	1.31	3.15	6.27	46.02	
	GREATEST 24-HOUR (IN.)	1.51	0.29	0.54	0.95	1.27	1.51	1.22	3.53	0.72	0.46	1.13	2.37	3.53	
	DATE OF OCCURRENCE	30-31	04-05	24-25	12	06-07	12-13	22-23	28-29	02	07	26-27	05-06	AUG 28-29	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	17	17	20	11	14	16	20	14	11	11	12	19	182		
PRECIPITATION 0.10	8	11	10	6	8	9	14	12	6	4	8	11	107		
PRECIPITATION 1.00	1	0	0	0	1	1	1	2	0	0	1	2	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	10.6	20.6	18.8	T	0.0	0.0	0.0	0.0	0.0	T	6.5	10.9	67.4	
	GREATEST 24-HOUR (IN.)	4.0	4.4	4.7	T	0.0	0.0	0.0	0.0	0.0	T	3.8	4.0	4.7	
	DATE OF OCCURRENCE	24	03	06	01						24+	27	08	MAR 06	
	MAXIMUM SNOW DEPTH (IN.)	6	8	5	0	0	0	0	0	0	0	2	3	8	
	DATE OF OCCURRENCE	27+	04	27+								28	14+	FEB 04	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	4	8	8	0	0	0	0	0	0	0	2	3	25		

NORMALS, MEANS, AND EXTREMES ELKINS (KEKN)

LATITUDE:
38° 53'N

LONGITUDE:
79° 51'W

ELEVATION (FT):
GRND: 1979 BARO: 1982

TIME ZONE:
EASTERN (UTC -5)

WBAN: 13729

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	39.0	42.8	51.7	62.8	70.7	77.9	81.0	80.2	73.7	64.0	53.3	42.3	61.6
	MEAN DAILY MAXIMUM	87	40.1	41.3	51.4	61.6	71.3	77.1	81.2	80.0	73.7	64.4	52.2	42.9	61.4
	HIGHEST DAILY MAXIMUM	69	76	75	84	89	93	96	99	95	97	87	82	76	99
	YEAR OF OCCURRENCE		2002	2001	2012	2010	1996	2012	1988	1948	1953	2005	2004	1951	JUL 1988
	MEAN OF EXTREME MAXS.	87	62.6	64.2	74.8	81.5	84.6	87.5	88.9	88.0	85.4	79.5	72.5	64.8	77.9
	NORMAL DAILY MINIMUM	30	19.4	21.5	28.0	36.6	45.5	54.6	59.0	58.0	50.7	38.4	30.5	22.7	38.7
	MEAN DAILY MINIMUM	87	19.6	20.1	27.9	35.9	45.4	53.0	58.1	57.0	49.6	38.2	29.4	22.5	38.1
	LOWEST DAILY MINIMUM	69	-24	-22	-15	3	20	25	32	34	27	11	0	-24	-24
	YEAR OF OCCURRENCE		1984	1996	1978	1985	1978	1977	1988	1965	1963	1952	1958	1989	DEC 1989
	MEAN OF EXTREME MINS.	87	-6.8	-3.7	7.3	19.1	28.3	38.9	45.3	45.4	34.8	21.4	11.8	-0.7	20.1
	NORMAL DRY BULB	30	29.2	32.2	39.8	49.7	58.1	66.3	70.0	69.1	62.2	51.2	41.9	32.5	50.2
	MEAN DRY BULB	87	29.9	30.7	39.7	48.8	58.4	65.2	69.7	68.5	61.7	51.3	40.8	32.7	49.8
	MEAN WET BULB	30	26.0	28.0	34.3	42.8	52.4	60.9	64.7	63.6	56.9	45.5	36.4	29.1	45.1
	MEAN DEW POINT	30	23.4	24.8	31.0	39.0	49.9	58.9	63.0	62.0	55.3	43.2	33.7	26.5	42.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.9	0.1	0.0	0.0	0.0	2.3
	MAXIMUM <= 32	30	9.6	5.6	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.8	25.5
	MINIMUM <= 32	30	25.3	22.9	20.4	10.2	2.0	0.0	0.0	0.0	0.4	9.0	17.9	24.8	132.9
MINIMUM <= 0	30	2.9	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.3	
H/C	NORMAL HEATING DEG. DAYS	30	1110	920	780	462	234	55	12	18	130	431	693	1007	5852
	NORMAL COOLING DEG. DAYS	30	0	0	0	3	20	92	166	145	45	4	0	0	475
RH	NORMAL (PERCENT)	30													
	HOURLY 01 LST	30													
	HOURLY 07 LST	30	80	81	82	82	87	91	93	95	95	90	83	82	87
	HOURLY 13 LST	30	65	61	55	50	55	59	61	61	62	54	59	65	59
	HOURLY 19 LST	30	74	70	61	55	61	69	73	79	86	79	74	75	71
S	PERCENT POSSIBLE SUNSHINE	11	29	32	39	46	44	48	44	44	45	46	37	28	40
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	36	3.1	2.2	2.9	2.9	6.7	10.0	11.4	14.3	14.0	9.4	3.1	2.9	82.9
	THUNDERSTORMS	44	0.3	0.5	1.5	3.1	5.0	6.0	7.0	4.8	2.1	0.8	0.4	0.3	31.8
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	50	6.4	6.2	6.1	5.8	5.7	5.8	5.6	5.5	5.3	5.0	5.9	6.2	5.8
	MIDNIGHT-MIDNIGHT (OKTAS)	5	4.7	4.5	4.5	4.9	4.4	4.0	4.4	4.3	4.0	3.4	4.3	4.7	4.3
	MEAN NO. DAYS WITH: CLEAR	50	3.4	3.4	4.2	4.1	4.4	3.1	2.4	2.5	4.2	7.2	4.4	4.1	47.4
	PARTLY CLOUDY	50	5.6	5.5	6.4	7.8	9.3	11.1	12.3	13.4	11.1	8.2	6.2	5.3	102.2
	CLOUDY	50	22.0	19.3	20.4	18.1	17.3	15.9	15.7	14.5	14.3	12.9	18.7	21.0	210.1
PR	MEAN STATION PRESSURE(IN)	30	27.96	27.95	27.94	27.91	27.95	27.97	28.00	28.02	28.03	28.02	28.02	27.99	27.98
	MEAN SEA-LEVEL PRES. (IN)	30	30.12	30.11	30.08	30.02	30.04	30.04	30.07	30.09	30.12	30.14	30.15	30.14	30.09
WINDS	MEAN SPEED (MPH)	30	6.0	6.2	6.3	6.4	5.0	4.1	3.7	3.2	3.5	4.2	5.1	5.5	4.9
	PREVAIL.DIR.(TENS OF DEGS)	19	28	31	31	31	31	31	31	31	31	31	31	28	31
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	38	51	37	45	39	40	31	37	32	30	37	40	51
	DIR. (TENS OF DEGS)		24	24	32	29	30	27	30	19	27	28	29	27	24
	YEAR OF OCCURRENCE		2008	2009	2011	2013	2004	1998	2011	2007	2011	2013	2013	2000	FEB 2009
	MAXIMUM 3-SECOND SPEED (MPH)	17	56	69	55	56	54	64	45	52	48	45	56	59	69
	DIR. (TENS OF DEGS)		24	24	33	29	31	29	30	20	27	28	30	26	24
YEAR OF OCCURRENCE		2008	2009	2011	2011	2004	2012	2008	2007	1998	2001	2013	2009	FEB 2009	
PRECIPITATION	NORMAL (IN)	30	3.23	3.10	3.96	3.80	5.12	4.40	5.36	3.84	3.63	2.85	3.38	3.26	45.93
	MAXIMUM MONTHLY (IN)	69	6.27	6.51	8.85	7.06	15.76	10.05	12.02	10.40	8.88	8.43	11.08	6.73	15.76
	YEAR OF OCCURRENCE		1999	1994	1963	2011	1996	1998	1996	1980	2000	1954	1985	1978	MAY 1996
	MINIMUM MONTHLY (IN)	69	1.05	0.79	1.39	1.02	1.45	1.11	1.31	1.09	0.32	0.31	0.48	0.90	0.31
	YEAR OF OCCURRENCE		1967	1978	1957	1971	1970	2005	1987	1976	1985	1963	2012	1965	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	69	1.85	3.09	2.94	2.09	3.35	2.63	3.31	3.53	3.74	3.62	5.10	2.37	5.10
	YEAR OF OCCURRENCE		1971	1994	1963	2009	1996	1986	2002	2013	2000	1985	1985	2013	NOV 1985
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	17.9	15.5	16.4	15.2	15.4	14.8	14.4	12.8	11.1	11.5	13.2	16.7	174.9
	PRECIPITATION >= 1.00	30	0.3	0.4	0.5	0.5	0.8	0.9	1.3	0.7	0.9	0.2	0.4	0.3	7.2
SNOWFALL	NORMAL (IN)	30	24.4	18.7	12.5	5.5	0.0	0.0	0.0	0.0	0.0	0.4	5.2	16.8	83.5
	MAXIMUM MONTHLY (IN)	43	54.1	43.8	33.5	24.8	0.7	T	0.0	0.0	0.0	18.0	23.7	36.7	54.1
	YEAR OF OCCURRENCE		1985	2010	1993	1987	1963	1994				2012	1995	1993	JAN 1985
	MAXIMUM IN 24 HOURS (IN)	43	18.8	12.8	16.9	11.6	0.7	T	0.0	0.0	0.0	10.0	12.4	19.9	19.9
	YEAR OF OCCURRENCE		1996	1983	1993	1987	1963	1994				2012	1970	2009	DEC 2009
	MAXIMUM SNOW DEPTH (IN)	49	20	17	18	20	0	0	0	0	0	14	19	17	20
	YEAR OF OCCURRENCE		1977	1977	1993	1962						2012	1950	1967	JAN 1977
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	7.2	6.1	3.8	1.6	0.0	0.0	0.0	0.0	0.0	0.1	2.0	5.5	26.3	

PRECIPITATION (inches) 2013 ELKINS (KEKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	1.69	4.42	4.89	3.96	2.64	2.52	5.66	7.21	2.23	4.08	3.94	3.87	47.11
1985	3.26	1.99	4.68	2.44	6.95	3.56	5.58	2.78	0.32	6.00	11.08	2.59	51.23
1986	2.09	5.27	3.44	3.38	3.04	7.84	6.42	5.03	4.29	2.91	5.68	2.61	52.00
1987	4.00	2.95	1.50	3.94	3.88	2.97	1.31	4.29	5.69	1.51	3.18	3.54	38.76
1988	2.81	2.50	2.92	3.14	4.84	1.66	3.60	4.05	7.52	2.03	3.60	2.35	41.02
1989	3.78	3.82	5.52	4.10	6.09	5.94	5.31	7.98	2.17	3.75	3.65	3.03	55.14
1990	3.62	2.87	2.25	3.72	7.03	4.01	4.01	3.25	4.11	3.31	1.66	6.12	45.96
1991	4.10	2.50	5.94	3.12	2.32	2.59	8.34	3.52	1.92	2.37	2.66	6.09	45.47
1992	2.66	3.72	4.33	2.58	3.20	1.95	8.26	2.49	2.63	0.80	2.66	4.47	39.75
1993	1.71	2.87	6.30	3.90	2.69	2.12	2.71	2.18	6.24	2.49	4.54	4.97	42.72
1994	5.21	6.51	6.29	3.96	5.13	4.57	5.97	5.69	1.13	0.43	2.63	2.55	50.07
1995	3.98	2.90	2.80	3.10	5.43	4.46	1.74	3.79	1.57	2.07	3.55	3.40	38.79
1996	5.29	4.72	4.38	3.43	15.76	5.30	12.02	5.02	6.45	2.65	4.47	3.39	72.88
1997	2.39	1.73	7.42	2.07	5.71	2.68	3.37	3.72	3.55	1.17	4.87	2.33	41.01
1998	4.28	2.54	3.33	4.78	4.02	10.05	3.75	4.30	4.06	1.96	1.40	1.99	46.46
1999	6.27	2.49	3.65	2.94	3.66	1.84	1.88	1.88	2.81	4.35	1.27	3.28	36.32
2000	1.63	4.19	3.27	4.11	4.30	5.06	4.71	3.82	8.88	0.69	1.91	1.87	44.44
2001	2.67	2.59	3.06	2.55	5.75	4.98	8.78	3.03	1.91	1.14	0.86	2.29	39.61
2002	3.42	1.43	4.96	6.41	5.55	3.25	7.37	2.45	3.46	4.68	4.15	2.46	49.59
2003	2.14	4.43	2.38	3.80	7.51	3.06	4.37	5.56	5.84	2.82	5.00	2.75	49.66
2004	2.79	2.76	5.10	5.30	6.94	6.17	6.91	2.41	4.03	3.41	4.20	2.53	52.55
2005	3.07	2.18	4.15	4.25	4.75	1.11	6.99	3.02	0.53	5.24	3.54	2.57	41.40
2006	3.50	0.84	1.71	5.43	2.96	6.52	5.59	1.78	3.01	3.81	2.62	1.44	39.21
2007	2.94	3.35	3.80	4.70	2.48	4.85	6.51	3.72	3.80	4.33	2.28	5.75	48.51
2008	3.61	3.33	3.38	3.79	6.64	6.20	3.76	1.36	1.83	1.02	2.94	4.98	42.84
2009	4.95	1.64	2.42	6.01	6.04	4.13	8.38	5.94	2.30	4.73	0.84	3.31	50.69
2010	2.56	2.39	1.93	1.74	4.60	3.55	6.08	4.86	4.03	2.75	3.11	1.85	39.45
2011	1.52	3.27	5.08	7.06	3.94	3.59	5.78	4.14	5.71	4.27	4.23	3.74	52.33
2012	1.79	3.62	4.08	2.24	5.95	2.36	10.44	1.33	5.75	4.08	0.48	4.34	46.46
2013	4.51	2.10	3.24	2.73	3.81	4.17	4.32	8.04	2.37	1.31	3.15	6.27	46.02
POR= 87 YRS	3.33	3.11	4.01	3.81	4.55	4.68	5.27	4.10	3.44	2.97	3.02	3.33	45.62

WBAN : 13729

AVERAGE TEMPERATURE (°F) 2013 ELKINS (KEKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	24.2	35.6	34.5	47.8	54.8	65.9	65.9	67.9	58.6	58.8	37.7	41.3	49.4
1985	21.6	28.4	41.0	50.2	59.1	63.2	68.9	66.7	61.6	54.8	50.6	27.6	49.5
1986	26.5	33.1	38.0	50.1	58.4	65.1	71.8	66.6	63.1	52.6	42.9	33.0	50.1
1987	27.7	31.3	40.4	47.0	61.3	67.0	71.6	69.5	62.1	45.2	43.2	34.4	50.1
1988	23.9	29.5	38.7	48.0	57.2	62.7	70.7	71.6	61.4	43.7	41.8	31.5	48.4
1989	35.5	29.5	42.5	45.6	54.8	67.0	71.2	68.0	63.1	51.4	39.6	18.4	48.9
1990	35.7	37.7	44.3	48.3	56.8	65.7	69.9	70.0	63.0	52.2	42.9	38.5	52.1
1991	31.3	34.4	41.2	52.4	65.3	67.2	71.8	69.2	62.0	51.6	39.5	36.0	51.8
1992	30.7	35.2	39.4	48.3	56.3	63.7	70.4	66.3	62.8	48.3	43.0	32.6	49.8
1993	36.3	28.0	35.2	47.9	58.1	66.3	73.3	72.0	63.4	49.6	41.4	30.7	50.2
1994	23.8	32.5	39.2	53.9	53.0	69.0	71.3	67.8	60.6	50.2	46.3	38.0	50.5
1995	31.9	29.2	41.7	48.6	58.2	67.9	71.7	73.7	61.0	53.7	36.0	28.4	50.2
1996	28.6	30.2	35.2	49.1	58.9	67.4	66.3	68.0	61.5	51.3	35.2	36.5	49.0
1997	29.8	36.5	42.2	44.0	52.4	64.4	68.8	66.1	59.8	49.8	37.1	32.1	48.6
1998	36.0	37.6	40.1	49.8	60.9	65.7	69.1	68.4	63.6	50.2	40.2	35.1	51.4
1999	33.6	33.7	31.8	50.3	56.9	65.4	71.7	66.8	59.8	48.4	44.4	32.8	49.6
2000	26.3	36.3	42.6	48.8	60.1	67.0	66.9	67.5	61.4	51.8	37.5	24.5	49.2
2001	26.1	35.6	34.3	52.0	58.5	65.2	66.7	70.5	59.8	49.4	44.5	37.3	50.0
2002	33.7	32.8	41.4	52.0	56.5	67.6	71.7	69.9	65.0	51.5	39.1	31.2	51.0
2003	22.4	29.0	42.6	51.7	58.0	63.6	69.5	71.0	61.7	49.5	45.5	30.0	49.5
2004	25.0	31.0	42.4	50.3	64.5	66.1	69.8	67.4	64.9	54.0	45.7	33.8	51.2
2005	34.7	35.7	37.6	52.8	55.2	70.2	74.0	73.4	67.0	55.3	44.7	29.8	52.5
2006	38.6	32.1	39.8	52.4	55.1	63.8	70.6	70.4	59.7	49.2	44.0	36.2	51.0
2007	33.0	21.0	44.6	46.4	60.6	66.1	67.0	71.9	64.8	56.7	41.3	36.6	50.8
2008	29.2	32.8	41.1	52.2	55.7	67.6	69.2	66.8	65.2	49.7	37.7	34.8	50.2
2009	26.3	32.0	42.6	49.6	60.1	67.5	66.9	70.0	62.1	50.8	45.6	31.8	50.4
2010	25.5	24.2	40.4	53.3	62.0	70.2	71.8	71.7	63.1	51.1	42.8	22.9	49.9
2011	24.8	35.2	41.3	53.8	62.0	67.6	73.4	70.2	63.9	50.8	45.8	37.4	52.2
2012	34.1	35.9	50.3	50.1	64.2	65.8	74.2	68.9	61.9	51.3	37.3	37.5	52.6
2013	32.7	29.3	34.9	52.1	58.5	67.6	71.4	68.4	63.0	53.4	38.3	35.2	50.4
POR= 87 YRS	29.9	30.7	39.7	48.8	58.4	65.2	69.7	68.5	61.7	51.3	40.8	32.7	49.8

HEATING DEGREE DAYS (base 65°F) 2013 ELKINS (KEKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	39	22	199	190	811	727	1338	1020	738	437	194	101	5816
1985-86	1	27	160	312	427	1153	1185	888	830	443	218	68	5712
1986-87	9	50	98	397	657	987	1149	938	753	533	163	43	5777
1987-88	12	26	122	605	645	939	1264	1024	808	506	243	131	6325
1988-89	27	6	119	653	686	1031	908	987	689	573	321	20	6020
1989-90	0	29	120	416	755	1438	903	758	637	496	249	49	5850
1990-91	1	4	131	394	654	814	1038	852	730	383	80	43	5124
1991-92	0	6	144	406	760	893	1056	856	785	495	267	82	5750
1992-93	4	32	122	510	654	996	884	1028	918	508	210	49	5915
1993-94	0	2	115	472	705	1056	1273	902	795	328	369	29	6046
1994-95	4	16	138	452	552	831	1019	997	717	488	224	31	5469
1995-96	4	0	142	358	863	1126	1123	1002	915	482	217	29	6261
1996-97	39	9	140	417	886	879	1082	790	703	623	392	75	6035
1997-98	14	45	160	460	832	1012	892	759	765	450	141	77	5607
1998-99	5	9	82	450	737	922	968	873	1023	433	246	68	5816
1999-00	9	24	169	507	613	990	1192	826	686	480	160	43	5699
2000-01	24	9	163	405	816	1249	1197	820	944	399	211	62	6299
2001-02	36	1	167	477	612	852	967	894	723	389	277	19	5414
2002-03	4	12	62	419	771	1039	1316	1003	686	393	214	80	5999
2003-04	2	0	126	474	577	1078	1233	978	694	435	75	54	5726
2004-05	5	36	46	334	573	963	931	813	844	360	307	14	5226
2005-06	0	0	28	314	607	1086	814	915	776	369	319	78	5306
2006-07	12	0	160	483	624	887	988	1225	629	552	155	37	5752
2007-08	30	4	75	273	706	873	1103	925	733	380	282	32	5416
2008-09	6	33	60	466	814	928	1193	919	690	460	182	18	5769
2009-10	16	6	99	434	574	1021	1219	1135	758	353	128	14	5757
2010-11	12	0	93	424	658	1297	1242	826	730	343	144	30	5799
2011-12	0	6	93	432	571	849	949	839	449	438	81	70	4777
2012-13	0	1	163	427	824	847	991	994	927	384	216	12	5786
2013-	4	19	113	365	794	915							

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COOLING DEGREE DAYS (base 65°F) 2013 ELKINS (KEKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	2	9	82	72	117	16	6	0	0	304
1985	0	0	0	0	17	54	129	87	63	5	0	0	355
1986	0	0	0	1	20	78	224	104	46	18	0	0	491
1987	0	0	0	0	57	109	224	171	42	0	0	0	603
1988	0	0	0	0	6	67	211	220	18	1	0	0	523
1989	0	0	0	0	10	90	198	130	70	1	0	0	499
1990	0	0	3	1	3	78	158	167	74	4	0	0	488
1991	0	0	0	13	97	116	217	144	61	0	0	0	648
1992	0	0	0	0	3	49	178	79	62	0	0	0	371
1993	0	0	0	2	5	97	263	225	69	2	2	0	665
1994	0	0	0	4	2	158	208	106	16	0	0	0	494
1995	0	0	0	5	21	124	219	274	27	16	0	0	686
1996	0	0	0	10	35	109	87	110	40	0	0	0	391
1997	0	0	0	0	6	65	139	84	10	0	0	0	304
1998	0	0	0	0	21	104	141	120	44	0	0	0	430
1999	0	0	0	0	2	84	225	86	18	0	0	0	415
2000	0	0	0	0	16	112	90	93	63	1	0	0	375
2001	0	0	0	16	12	74	95	178	21	0	0	0	396
2002	0	0	0	5	21	103	218	170	71	7	0	0	595
2003	0	0	0	0	4	45	149	191	34	0	0	0	423
2004	0	0	0	0	64	94	161	116	50	0	0	0	485
2005	0	0	0	0	11	175	285	267	93	22	2	0	855
2006	0	0	0	0	17	49	191	175	8	1	0	0	441
2007	0	0	0	0	24	77	100	227	77	22	0	0	527
2008	0	0	0	1	2	113	146	93	72	0	0	0	427
2009	0	0	3	4	40	101	83	169	18	3	0	0	421
2010	0	0	0	8	45	177	227	214	44	0	0	0	715
2011	0	0	0	15	56	116	266	178	68	0	0	0	699
2012	0	0	0	0	63	103	295	131	77	9	0	0	678
2013	0	0	0	3	22	97	208	133	60	10	0	0	533

SNOWFALL (inches) 2013 ELKINS (KEKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.0	4.0	4.0	54.1	21.3	0.5	8.0	0.0	0.0	91.9
1985-86	0.0	0.0	0.0	0.0	0.0	22.6	33.5	32.0	16.8	18.8	0.0	0.0	123.7
1986-87	0.0	0.0	0.0	0.0	1.0	4.0	42.6	19.5	4.9	24.8	0.0	0.0	96.8
1987-88	0.0	0.0	0.0	T	12.4	20.3	21.5	16.1	15.9	1.6	0.0	0.0	87.8
1988-89	0.0	0.0	0.0	T	2.1	14.3	11.5	14.1	1.8	7.9	0.5	0.0	52.2
1989-90	0.0	0.0	0.0	0.9	9.0	32.2	21.7	9.0	12.3	13.8	0.0	0.0	98.9
1990-91	0.0	0.0	0.0	T	T	8.9	19.9	20.0	18.9	0.3	0.0	0.0	68.0
1991-92	0.0	0.0	0.0	0.0	5.8	6.9	29.5	11.8	19.3	5.8	0.0	0.0	79.1
1992-93	0.0	0.0	0.0	2.4	3.4	27.5	4.4	27.4	33.5	2.5	0.0	T	101.1
1993-94	0.0	0.0	0.0	3.1	3.5	36.7	45.0	15.1	21.2	0.5	0.0	T	125.1
1994-95	0.0	0.0	0.0	0.0	0.5	3.1	20.9	11.1	7.5	0.4	0.0	0.0	43.5
1995-96	0.0	0.0	0.0	0.0	23.7	22.9	44.6	24.3	16.1	5.0	T	0.0	136.6
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05						16.7	12.9	9.6	25.4	9.2	0.0	0.0	
2005-06	0.0	0.0	0.0	1.1	5.7	16.2	11.8	19.9	4.8	T	0.0	0.0	59.5
2006-07	0.0	0.0	0.0	0.1	0.6	3.0	24.4	20.8	8.8	6.3	0.0	0.0	64.0
2007-08	0.0	0.0	0.0	0.0	0.8	14.3	10.3	14.2	2.8	0.0	0.0	0.0	42.4
2008-09	0.0	0.0	0.0	0.6	14.6	13.5	25.1	9.9	1.5	2.9	0.0	0.0	68.1
2009-10	0.0	0.0	0.0	T	1.4	29.9	26.7	43.8	2.9	0.0	0.0	0.0	104.7
2010-11	0.0	0.0	0.0	0.0	T	34.2	32.2	7.2	6.4	1.5	0.0	0.0	81.5
2011-12	0.0	0.0	0.0	1.1	0.5	5.2	13.4	8.1	2.1	0.2	0.0	0.0	30.6
2012-13	0.0	0.0	0.0	18.0	0.4	9.3	10.6	20.6	18.8	T	0.0	0.0	77.7
2013-	0.0	0.0	0.0	T	6.5	10.9							
POR= 86 YRS	0.0	0.0	0.0	0.6	4.9	11.5	14.9	13.1	9.8	3.2	T	T	58.0

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REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN</p>	<p>PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2013 ELKINS WEST VIRGINIA (KEKN)

Elkins, West Virginia, is located near the principal storm tracks and is therefore subjected to frequent weather changes throughout the year. While changes may be rigorous, they bring relief from summer heat waves and winter cold waves. The airport and city are located near the middle of a valley with a narrow floor and ridges at or near 3,000 feet. The ridges are oriented north northeast to south southwest, 3 to 4 miles to the east and west. The valley is located on the general northwest slope of the Appalachian Mountains which crest about 20 miles to the southeast at about 4,500 feet, with some higher peaks.

The seasonal climates vary greatly from year to year. When the Atlantic High extends westward, warm weather with high humidities occur in both summer and winter. Conversely, if the Atlantic High is displaced eastward and the circulation is principally from the northwest, weather is colder than normal. Hottest weather is from warm westerlies which have been over land for a long time and have a path over the south central or southwestern areas of the United States.

Summers are characterized by warm, humid, showery weather, but the heat is moderated by elevation and orographically induced cloudiness. A daily high temperature of 90 or above may occasionally be expected during the summer months. Winters are moderately severe with rapid changes. Snowfall may be frequent, and at times, heavy. However, it seldom remains on the ground for extended periods. Snows often fall upon warm ground thereby causing preliminary melting, then freezing, resulting in slippery road conditions. Glaze formation upon the ground or upon wires and trees is rare. Cold spells alternate frequently with thaws, and snow is subject to frequent complete melting during the winter. Severe cold spells occur occasionally but they seldom last more than two or three days. A daily low of zero degrees or below can be expected several times annually.

Significant climatic characteristics are associated with air currents rising and descending over the mountains. Orographic lifting of air delays post-frontal clearing after the passage of a cold front, especially during the winter when low clouds and snow flurries sometimes persist for 24 hours or more after the front has passed. While this upslope effect prevails with winds from the north-west quadrant, a foehn effect prevails with easterly and southerly winds, tending to diminish existing low cloud layers and to keep ceilings higher than otherwise anticipated. Nocturnal radiation fog is common during the summer and the autumn but it usually dissipates rapidly after sunrise.

Tornadoes are rare in this area, and severe thunderstorms are very infrequent. However, occasionally intense local rainfall from warm-season thunderstorms causes flash flooding in the narrow valleys of the area. Due to the remote location of the city with respect to concentrated industry, the air is usually relatively unpolluted. There are no important smoke sources in the locality, and smoke or haze seldom reduces the visibility below four miles.

The average last occurrence in the spring of temperatures as low as 32 is early to mid-May, and the first occurrence in the autumn is early October. The length of the growing season averages about 148 days.

Station History

ELKINS, WV

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
ELKINS RANDOLPH COUNTY AP	1962-03-15	1962-04-01	38° 52'	-79° 51'	1949		AIRWAYS
ELKINS MUNICIPAL AP	1961-01-01	1962-01-01	38° 52'	-79° 51'			AIRWAYS
ELKINS MUNICIPAL AP	1954-01-01	1960-12-31	38° 52'	-79° 51'	1975		AIRWAYS, COOP
ELKINS RANDOLPH COUNTY AP	2003-07-01	2012-01-05	38° 53'	-79° 51'	1979		ASOS, COOP
ELKINS MUNICIPAL AP	1935-07-01	1937-12-31	38° 52'	-79° 51'			AIRWAYS
ELKINS RANDOLPH COUNTY AP	1969-01-01	1981-12-31	38° 52'	-79° 51'	1948		COOP, WXSVC
ELKINS RANDOLPH COUNTY AP	1962-04-01	1969-01-01	38° 52'	-79° 51'	1948		AIRWAYS, COOP
ELKINS MUNICIPAL AP	1960-12-31	1961-01-01	38° 52'	-79° 51'			AIRWAYS, COOP
ELKINS MUNICIPAL AP	1962-01-01	1962-03-15	38° 52'	-79° 51'	1949		AIRWAYS
ELKINS RANDOLPH COUNTY AP	2012-01-05	Present	38° 53'	-79° 51'	1979		ASOS, COOP
ELKINS MUNICIPAL AP	1948-01-01	1954-01-01	38° 52'	-79° 51'	1985		COOP
ELKINS RANDOLPH COUNTY AP	1981-12-31	1996-05-01	38° 52'	-79° 51'	1948		COOP
ELKINS RANDOLPH COUNTY AP	1996-05-01	2003-07-01	38° 53'	-79° 51'	1948		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1992-01-01	2003-07-01	HOURLY	2400	UNIV	RCRD	ROOF
TEMP	2012-01-05	Present	DAILY	2400	ATEMP		
PRECIP	1982-01-01	1992-01-01	HOURLY	2400	UNIV	RCRD	ROOF
PRECIP	1982-01-01	1992-01-01	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	2003-07-01	2012-01-05	HOURLY	2400	TB	RCRD	
PRECIP	1899-01-01	1982-01-01	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	2003-07-01	2012-01-05	DAILY	2400	TB	RCRD	
PRECIP	2012-01-05	Present	DAILY	2400	PCPNX		
TEMP	1899-01-01	1982-01-01	DAILY	2400			
PRECIP	2012-01-05	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	1982-01-01	1992-01-01	DAILY	2400			
TEMP	1992-01-01	2003-07-01	DAILY	2400	HYGR		
PRECIP	1992-01-01	2003-07-01	DAILY	2400	UNIV	RCRD	ROOF
TEMP	2003-07-01	2012-01-05	DAILY	2400	HYGR		

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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