

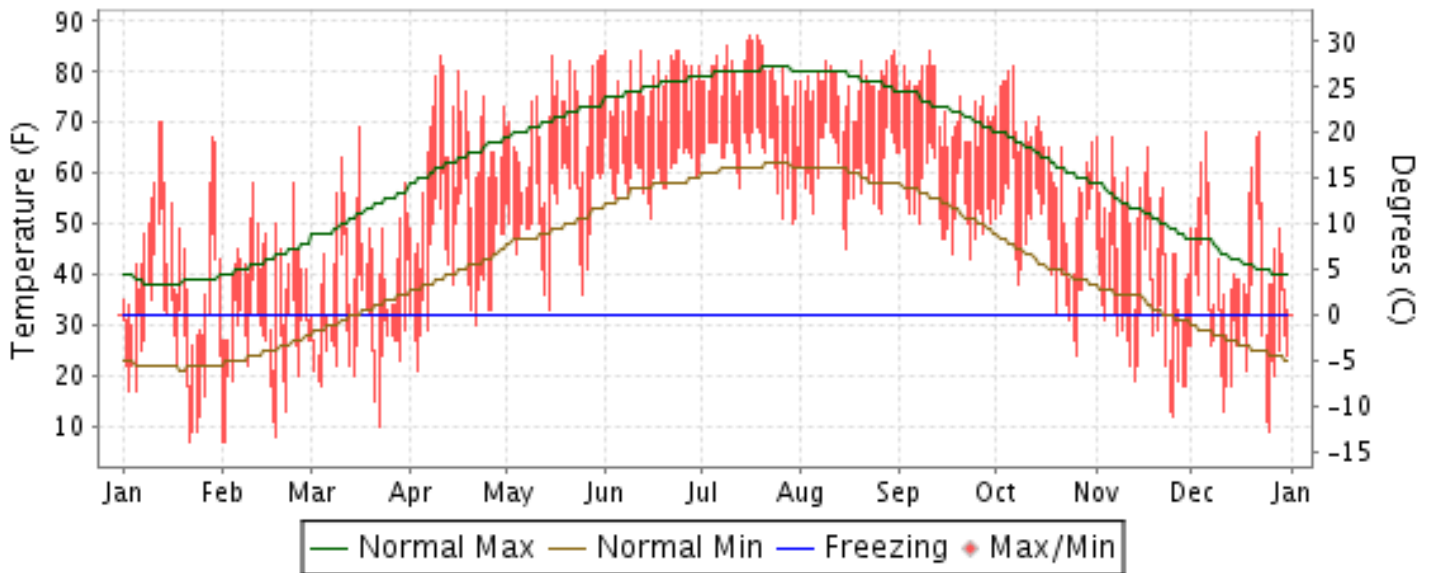


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

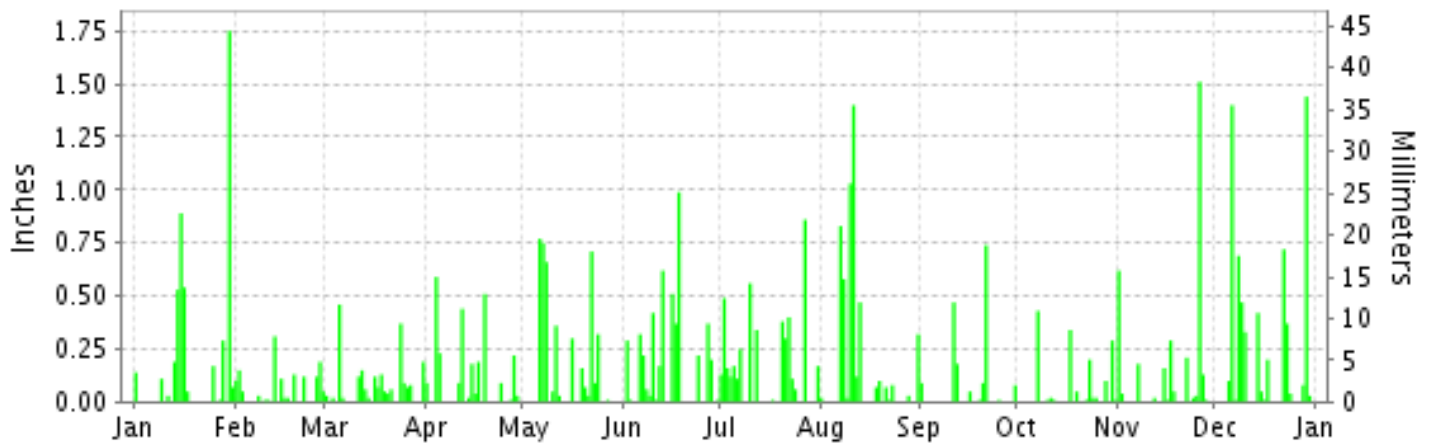
ISSN 0198-5582

BECKLEY, WEST VIRGINIA (KBKW)

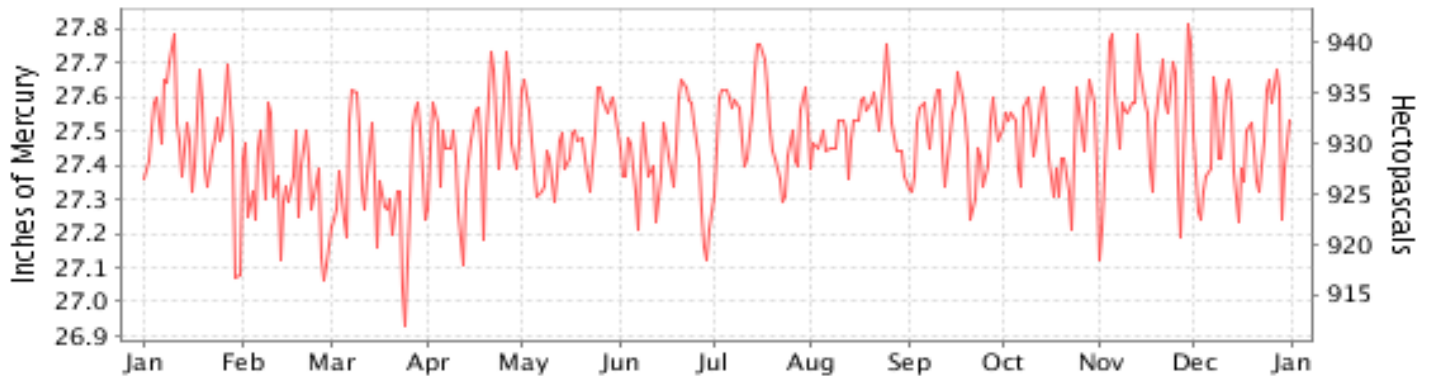
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

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

BECKLEY (KBKW)

LATITUDE: 37° 47'N LONGITUDE: 81° 7'W ELEVATION (FT): GRND: 2514 BARO: 2508 TIME ZONE: EASTERN (UTC -5) WBAN: 03872

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	43.8	40.8	42.9	64.6	70.2	77.5	79.6	77.7	73.4	63.6	49.5	45.0	60.7	
	HIGHEST DAILY MAXIMUM	70	58	69	83	83	84	87	84	84	81	67	68	87	
	DATE OF OCCURRENCE	13+	23+	16	10	31+	24+	18+	30	10	06	06+	22+	JUL 18+	
	MEAN DAILY MINIMUM	27.9	24.6	27.6	41.8	51.2	59.9	62.8	60.1	54.2	45.7	30.1	29.0	42.9	
	LOWEST DAILY MINIMUM	7	7	10	21	33	51	50	45	43	24	12	9	7	
	DATE OF OCCURRENCE	22	02+	22	03	14	15	29	15	23	26	25	25	FEB 02+	
	AVERAGE DRY BULB	35.9	32.7	35.3	53.2	60.7	68.7	71.2	68.9	63.8	54.7	39.8	37.0	51.8	
	MEAN WET BULB	32.0	28.6	30.8	45.8	53.3	64.0	67.1	64.2	58.6	49.8	34.7	33.1	46.8	
	MEAN DEW POINT	26.2	22.1	24.2	36.9	47.7	61.4	65.2	61.6	55.4	45.7	27.1	27.1	41.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM <= 32°	7	7	6	0	0	0	0	0	0	0	2	2	24	
	MINIMUM <= 32°	21	24	25	6	0	0	0	0	0	4	20	21	121	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	894	898	914	361	179	7	5	15	89	327	749	856	5294	
	COOLING DEGREE DAYS	0	0	0	16	51	125	205	146	57	15	0	0	615	
RH	MEAN (PERCENT)	71	68	69	57	67	80	85	81	78	75	64	70	72	
	HOUR 01 LST	74	71	74	68	79	91	96	92	88	82	68	75	80	
	HOUR 07 LST	77	75	74	65	70	86	90	87	86	85	74	76	79	
	HOUR 13 LST	64	61	60	43	52	65	69	64	59	58	51	62	59	
	HOUR 19 LST	70	66	66	51	69	80	87	83	81	77	63	68	72	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	9	3	4	1	1	2	2	5	6	5	3	5	46	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
PR	MEAN STATION PRESS. (IN.)	27.49	27.34	27.34	27.46	27.47	27.41	27.52	27.51	27.48	27.47	27.56	27.46	27.46	
	MEAN SEA-LEVEL PRESS. (IN.)	30.19	30.04	30.03	30.08	30.05	29.95	30.06	30.06	30.05	30.09	30.25	30.16	30.08	
WINDS	RESULTANT SPEED (MPH)	3.3	3.3	3.6	3.0	2.4	2.3	1.8	1.3	0.6	1.5	1.8	3.1	2.0	
	RES. DIR. (TENS OF DEGS.)	25	26	28	20	17	23	17	23	22	22	25	24	24	
	MEAN SPEED (MPH)	7.7	9.4	9.0	8.1	7.9	5.8	5.2	4.7	4.6	4.5	8.2	7.4	6.9	
	PREVAIL.DIR.(TENS OF DEGS.)	23	31	30	14	14	15	15	14	15	15	14	29	30	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	32	38	38	40	31	30	25	23	24	23	28	25	40	
	DIR. (TENS OF DEGS.)	27	12	27	25	27	32	31	26	35	33	29	13	25	
	DATE OF OCCURRENCE	30	26	19	24	23	13	10	28	12	17	17	14	APR 24	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	45	53	47	51	43	49	31	30	32	32	40	35	53	
DIR. (TENS OF DEGS.)	25	11	27	26	27	15	31	27	35	18	27	15	11		
DATE OF OCCURRENCE	31	26	19	24	23	05	10	28	12	31	18	14	FEB 26		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.77	1.42	2.15	2.73	4.31	4.82	4.62	5.15	1.72	1.51	3.28	6.36	42.84	
	GREATEST 24-HOUR (IN.)	1.81	0.31	0.46	0.82	1.33	1.36	0.86	2.26	0.74	0.43	1.54	1.52	2.26	
	DATE OF OCCURRENCE	30-31	13	05	04-05	06-07	17-18	27	10-11	21	07	26-27	28-29	AUG 10-11	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	13	15	19	14	14	17	17	15	9	13	14	16	176		
PRECIPITATION 0.10	9	8	7	7	8	12	15	8	3	5	7	10	99		
PRECIPITATION 1.00	1	0	0	0	0	0	0	2	0	0	1	2	6		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	4.2	11.5	16.1	0.0	0.0	0.0	0.0	0.0	0.0	T	6.5	7.9	46.2	
	GREATEST 24-HOUR (IN.)	1.5	2.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	T	3.6	4.2	4.2	
	DATE OF OCCURRENCE	25	01	03							25+	27	10	DEC 10	
	MAXIMUM SNOW DEPTH (IN.)	4	6	4	0	0	0	0	0	0	0	5	3	6	
	DATE OF OCCURRENCE	01	03	26+								28	12+	FEB 03	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	2	7	9	0	0	0	0	0	0	0	3	4	25		

NORMALS, MEANS, AND EXTREMES BECKLEY (KBKW)

LATITUDE:
37° 47'N

LONGITUDE:
81° 7'W

ELEVATION (FT):
GRND: 2514 BARO: 2508

TIME ZONE:
EASTERN (UTC -5)

WBAN: 03872

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	39.4	43.1	51.8	62.8	70.2	77.0	79.8	79.2	72.9	63.3	53.0	42.3	61.2
	MEAN DAILY MAXIMUM	50	39.0	42.1	51.7	63.0	70.2	76.7	79.7	78.8	72.7	62.8	52.5	42.7	61.0
	HIGHEST DAILY MAXIMUM	50	73	74	82	86	89	96	94	96	93	86	79	73	96
	YEAR OF OCCURRENCE		2002	1977	2012	1976	1996	2012	1988	1988	2011	2007	2004	2001	JUN 2012
	MEAN OF EXTREME MAXS.	50	61.0	63.5	72.9	80.3	82.3	85.5	87.0	86.3	83.6	77.0	70.8	63.4	76.1
	NORMAL DAILY MINIMUM	30	22.8	25.7	32.3	41.4	49.4	57.8	61.4	60.3	53.4	43.1	34.8	26.2	42.4
	MEAN DAILY MINIMUM	50	22.3	24.3	32.2	41.3	49.4	56.9	60.9	59.8	53.4	42.5	34.3	26.3	42.0
	LOWEST DAILY MINIMUM	50	-22	-16	-5	11	23	32	41	36	30	18	4	-18	-22
	YEAR OF OCCURRENCE		1985	1996	1980	1985	1966	1972	1988	1986	1983	1997	1970	1989	JAN 1985
	MEAN OF EXTREME MINS.	50	-0.3	3.4	12.0	23.6	33.3	43.1	49.5	48.3	38.0	26.1	16.0	5.9	24.9
	NORMAL DRY BULB	30	31.1	34.4	42.1	52.1	59.8	67.4	70.6	69.7	63.2	53.2	43.9	34.2	51.8
	MEAN DRY BULB	50	30.7	33.2	42.0	52.1	59.8	66.9	70.3	69.3	63.1	52.7	43.4	34.5	51.5
	MEAN WET BULB	30	27.2	29.2	35.3	43.1	52.8	61.0	64.7	63.5	57.2	46.7	37.4	30.1	45.7
	MEAN DEW POINT	30	24.7	26.1	32.1	39.8	50.6	59.5	63.5	62.3	55.8	44.4	34.4	27.2	43.4
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.5	0.1	0.0	0.0	1.1
	MAXIMUM <= 32	30	8.8	5.7	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.8	24.6
MINIMUM <= 32	30	24.3	20.9	15.7	5.6	0.6	0.0	0.0	0.0	0.1	4.1	12.7	22.5	106.5	
MINIMUM <= 0	30	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.9	
H/C	NORMAL HEATING DEG. DAYS	30	1051	857	712	396	192	39	8	13	113	372	634	953	5340
	NORMAL COOLING DEG. DAYS	30	0	0	1	9	31	111	181	160	57	6	1	0	557
RH	NORMAL (PERCENT)	30	74	71	67	62	70	76	78	79	79	73	70	74	73
	HOURLY 01 LST	30	78	75	73	70	80	88	90	90	90	82	76	77	81
	HOURLY 07 LST	30	81	79	78	74	81	86	89	91	91	86	80	80	83
	HOURLY 13 LST	30	68	64	58	52	56	61	63	63	64	58	60	66	61
	HOURLY 19 LST	30	73	68	61	55	62	69	72	75	79	71	68	72	69
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	4.5	3.8	4.0	2.7	3.0	3.9	4.9	5.9	5.5	3.7	3.1	3.2	48.2
	THUNDERSTORMS	50	0.9	1.0	2.3	4.1	6.7	8.8	9.7	7.4	3.1	0.9	0.8	0.4	46.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	33	6.2	6.1	6.0	5.7	5.7	5.8	5.5	5.4	5.2	4.7	5.6	6.0	5.7
	MIDNIGHT-MIDNIGHT (OKTAS)	31	5.9	5.7	5.6	5.2	5.1	5.1	5.1	4.9	4.7	4.5	5.3	5.8	5.2
	MEAN NO. DAYS WITH: CLEAR	33	4.6	4.5	5.1	5.2	4.9	3.4	3.2	3.9	6.1	8.5	5.0	4.5	58.9
	PARTLY CLOUDY	33	5.2	5.4	5.8	7.3	8.6	10.4	11.5	11.2	8.3	7.7	6.9	5.5	93.8
	CLOUDY	33	21.2	18.4	20.1	17.5	17.5	16.2	15.4	15.0	14.7	13.9	17.3	20.1	207.3
PR	MEAN STATION PRESSURE(IN)	30	27.42	27.41	27.40	27.38	27.43	27.45	27.49	27.50	27.51	27.49	27.48	27.45	27.45
	MEAN SEA-LEVEL PRES. (IN)	30	30.13	30.11	30.06	29.99	30.01	30.00	30.03	30.05	30.08	30.11	30.14	30.15	30.07
WINDS	MEAN SPEED (MPH)	30	8.6	8.4	8.5	8.3	7.0	5.9	5.4	5.2	5.8	6.5	7.5	8.0	7.1
	PREVAIL.DIR(TENS OF DEGS)	38	29	15	15	15	15	15	24	15	15	15	15	15	15
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	38	41	38	40	37	43	39	47	32	32	32	39	47
	DIR. (TENS OF DEGS)		26	27	27	25	29	35	36	11	21	26	23	23	11
	YEAR OF OCCURRENCE		2012	2009	2013	2013	2001	2012	2005	2012	2008	2001	2010	2009	AUG 2012
	MAXIMUM 3-SECOND SPEED (MPH)	17	63	55	49	58	52	68	59	59	43	43	46	62	68
	DIR. (TENS OF DEGS)		25	13	28	29	17	36	27	12	21	18	22	21	36
YEAR OF OCCURRENCE		2012	2010	2001	2009	2008	2012	2012	2012	2008	2010	2010	2009	JUN 2012	
PRECIPITATION	NORMAL (IN)	30	2.81	2.76	3.57	3.36	4.66	4.00	5.03	3.47	3.01	2.57	2.95	3.00	41.19
	MAXIMUM MONTHLY (IN)	50	6.36	6.01	9.18	7.63	7.65	7.51	9.65	8.04	8.27	5.91	6.68	6.43	9.65
	YEAR OF OCCURRENCE		1974	1972	1975	1987	2001	2006	2001	2006	1964	1990	2003	1991	JUL 2001
	MINIMUM MONTHLY (IN)	50	0.53	0.69	1.45	0.28	1.03	1.26	1.65	1.05	0.46	0.14	0.66	0.57	0.14
	YEAR OF OCCURRENCE		1983	2002	2003	1976	1977	1999	1993	2002	2005	1963	2001	1965	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	50	3.44	2.11	3.27	3.77	2.70	2.47	3.48	3.06	5.34	3.31	2.74	2.22	5.34
	YEAR OF OCCURRENCE		2009	1994	2010	1977	2004	1983	2001	2006	1964	1989	2003	1991	SEP 1964
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	15.1	13.9	15.6	14.2	14.7	13.2	13.1	10.7	9.6	10.1	12.2	14.9	157.3
	PRECIPITATION >= 1.00	30	0.3	0.4	0.5	0.4	1.0	0.7	1.2	0.7	0.7	0.3	0.4	0.3	6.9
SNOWFALL	NORMAL (IN)	30	18.0	16.6	8.5	2.9	0.1	0.0	0.0	0.0	0.0	0.4	2.6	12.9	62.0
	MAXIMUM MONTHLY (IN)	45	42.1	49.8	35.5	18.6	1.3	T	0.0	0.0	T	22.9	13.1	47.3	49.8
	YEAR OF OCCURRENCE		2010	2010	1993	1987	1989	1993			1967	2012	1974	2010	FEB 2010
	MAXIMUM IN 24 HOURS (IN)	45	25.5	14.4	28.2	13.1	1.3	T	0.0	0.0	T	12.9	7.0	15.0	28.2
	YEAR OF OCCURRENCE		1998	1983	1993	1987	1989	1993			1967	2012	1968	2009	MAR 1993
	MAXIMUM SNOW DEPTH (IN)	44	26	19	30	15	0	0	0	0	0	16	13	21	30
	YEAR OF OCCURRENCE		1998	1998	1993	1987						2012	2012	2009	MAR 1993
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	5.8	4.7	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.0	18.7

PRECIPITATION (inches) 2013 BECKLEY (KBKW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	1.50	4.07	1.85	3.21	5.27	2.87	8.53	2.65	1.76	2.18	4.13	3.41	41.43
1985	2.25	2.02	2.14	0.87	7.13	4.11	3.14	4.32	0.54	1.57	6.33	1.71	36.13
1986	1.44	2.67	2.07	2.23	4.59	2.16	6.13	2.90	3.75	3.11	4.50	2.69	38.24
1987	3.24	3.59	1.93	7.63	2.47	4.16	1.66	3.77	2.80	1.29	1.69	4.27	38.50
1988	2.11	1.79	2.50	2.70	2.98	2.31	4.56	1.90	5.89	2.10	2.55	2.22	33.61
1989	2.97	3.27	3.39	4.29	4.55	3.56	4.27	4.46	3.36	5.25	2.05	2.39	43.81
1990	2.94	4.71	2.26	3.31	3.53	3.09	3.61	3.50	1.94	5.91	1.66	5.26	41.72
1991	4.20	2.46	6.57	2.54	2.16	1.64	3.16	3.63	2.55	0.82	4.00	6.43	40.16
1992	1.94	2.35	4.39	4.06	3.35	3.70	5.28	3.97	1.60	1.47	1.92	3.94	37.97
1993	1.56	2.84	6.37	2.54	4.10	3.15	1.65	3.50	4.06	3.29	2.58	4.49	40.13
1994	4.60	5.25	7.63	2.70	4.23	3.71	8.39	4.68	1.45	1.21	1.31	1.89	47.05
1995	5.82	2.72	2.15	1.89	5.62	5.57	2.67	2.67	2.92	3.29	3.84	2.43	41.59
1996	5.53	2.84	4.11	3.15	7.52	3.97	7.59	4.87	6.65	2.17	4.10	3.05	55.55
1997	2.58	2.06	6.41	2.62	4.25	4.67	4.34	3.28	1.46	0.89	2.95	2.20	37.71
1998	4.79	4.97	3.79	4.71	7.58	7.00	4.50	1.52	1.89	1.52	2.63	4.33	49.23
1999	4.57	2.73	3.09	3.57	1.36	1.26	3.77	3.53	4.48	2.16	2.47	1.87	34.86
2000	1.80	2.74	2.46	4.13	3.43	4.60	5.53	4.22	6.24	0.49	1.66	1.63	38.93
2001	2.04	2.16	2.50	1.26	7.65	3.18	9.65	2.40	1.35	0.71	0.66	2.41	35.97
2002	2.26	0.69	5.31	4.19	4.29	2.37	5.00	1.05	2.79	4.73	4.04	3.04	39.76
2003	1.47	5.35	1.45	5.40	5.49	4.67	4.11	5.62	6.18	2.69	6.68	2.33	51.44
2004	2.73	2.17	3.96	4.62	7.11	6.23	5.68	2.04	5.35	3.26	3.69	2.12	48.96
2005	2.70	2.23	3.10	2.42	3.04	1.78	4.95	5.36	0.46	2.08	3.04	2.72	33.88
2006	2.41	1.71	1.83	5.19	2.42	7.51	3.53	8.04	4.43	4.26	2.76	1.28	45.37
2007	2.92	1.67	5.30	4.55	2.35	4.72	4.24	1.28	2.02	3.17	1.99	3.11	37.32
2008	3.12	2.65	4.49	4.42	3.12	4.65	4.99	5.89	1.30	0.76	2.73	4.43	42.55
2009	4.54	1.40	2.80	2.26	7.19	3.03	7.32	2.44	2.53	4.32	1.90	4.66	44.39
2010	3.06	2.03	5.84	1.92	7.47	4.29	5.85	2.71	1.99	1.95	3.89	2.28	43.28
2011	1.89	2.65	4.50	5.35	4.26	2.55	3.09	1.75	5.58	2.74	3.78	4.01	42.15
2012	3.35	3.85	4.04	3.69	3.90	2.44	6.67	2.77	5.30	4.49	0.68	3.19	44.37
2013	4.77	1.42	2.15	2.73	4.31	4.82	4.62	5.15	1.72	1.51	3.28	6.36	42.84
POR= 50 YRS	3.09	2.74	3.63	3.50	4.26	3.85	4.83	3.51	3.32	2.61	2.93	3.17	41.44

WBAN : 03872

AVERAGE TEMPERATURE (°F) 2013 BECKLEY (KBKW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	28.1	37.9	38.1	49.0	57.0	69.7	67.5	68.7	60.1	61.1	41.5	45.1	52.0
1985	24.2	31.6	43.2	54.8	60.5	65.1	69.5	67.5	63.0	57.2	52.2	28.8	51.5
1986	29.3	35.8	42.3	54.4	60.0	68.1	72.3	67.7	64.7	54.2	44.8	34.5	52.3
1987	29.6	33.4	42.6	47.6	64.3	68.8	72.7	72.8	64.0	48.4	46.4	37.6	52.4
1988	27.8	32.3	44.0	50.7	59.6	66.5	72.7	73.4	63.0	46.1	44.5	34.0	51.2
1989	38.6	32.9	45.8	50.3	56.1	68.3	71.5	69.1	63.2	54.1	43.1	22.9	51.3
1990	38.6	41.7	46.3	51.1	59.5	67.2	70.6	69.9	63.6	54.7	47.6	41.0	54.3
1991	33.9	37.5	44.3	55.6	66.6	69.0	73.4	70.4	63.9	55.7	42.9	38.6	54.3
1992	34.7	39.5	41.9	51.8	58.2	66.1	72.2	67.8	64.4	52.3	43.7	34.6	52.3
1993	36.8	31.5	37.9	51.1	60.4	67.2	74.5	71.5	64.1	52.6	43.9	32.8	52.0
1994	25.8	35.9	41.2	56.4	54.8	69.6	71.3	68.1	60.9	53.3	49.1	40.0	52.2
1995	33.3	31.7	44.5	52.8	59.2	67.4	72.3	73.1	61.6	54.3	37.7	30.9	51.6
1996	30.3	31.8	36.6	50.6	62.8	69.2	68.0	68.7	61.9	53.2	37.8	38.9	50.8
1997	30.6	38.9	45.2	46.9	54.2	65.4	70.7	66.7	61.0	51.4	38.0	32.9	50.2
1998	36.2	36.8	40.8	51.5	61.8	66.6	69.8	70.0	67.0	53.8	43.7	37.3	52.9
1999	35.9	35.6	36.1	54.5	60.6	68.6	73.6	68.4	62.1	52.0	47.2	36.0	52.6
2000	28.6	38.3	46.0	50.1	62.9	68.1	67.5	67.7	61.8	54.1	39.1	25.0	50.8
2001	29.8	38.2	36.2	55.1	60.2	66.6	68.0	70.6	60.1	52.3	49.5	39.3	52.2
2002	35.8	34.3	42.5	54.0	57.7	68.6	71.6	70.9	67.6	52.9	39.9	32.2	52.3
2003	24.3	30.9	45.2	53.6	58.8	64.3	69.7	70.6	62.0	52.3	48.3	32.9	51.1
2004	26.8	34.1	44.6	52.4	64.7	65.9	69.0	66.5	63.8	55.3	46.5	34.1	52.0
2005	34.1	35.8	37.5	52.3	55.6	68.5	72.3	71.9	65.5	54.7	45.2	29.6	51.9
2006	39.3	31.8	41.9	56.0	56.6	64.6	70.7	70.6	59.2	50.1	45.0	39.8	52.1
2007	34.3	25.3	48.4	49.1	62.3	67.4	68.5	75.0	67.7	59.2	42.4	38.7	53.2
2008	31.1	35.9	42.4	52.4	57.6	68.4	68.9	67.0	64.8	50.8	39.0	35.2	51.1
2009	28.9	34.9	43.3	52.7	60.6	67.7	66.4	69.2	62.8	51.2	45.9	31.8	51.3
2010	26.0	26.0	41.4	56.4	63.5	70.5	72.7	72.9	65.8	55.0	45.4	24.3	51.7
2011	27.5	38.7	42.5	57.3	61.8	69.3	74.8	72.0	64.7	51.8	48.5	39.9	54.1
2012	36.7	38.0	54.0	53.2	65.5	67.2	74.3	69.6	63.5	51.6	40.6	40.0	54.5
2013	35.9	32.7	35.3	53.2	60.7	68.7	71.2	68.9	63.8	54.7	39.8	37.0	51.8
POR= 50 YRS	30.7	33.2	42.0	52.1	59.8	66.9	70.3	69.3	63.1	52.7	43.4	34.5	51.5

HEATING DEGREE DAYS (base 65°F) 2013 BECKLEY (KBKW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	24	14	189	137	698	608	1259	929	672	324	151	56	5061
1985-86	4	19	128	247	378	1116	1099	812	696	332	173	26	5030
1986-87	2	46	75	347	598	939	1089	878	686	518	92	19	5289
1987-88	5	8	82	507	552	842	1148	943	644	422	182	84	5419
1988-89	14	5	85	580	606	953	812	894	597	441	298	16	5301
1989-90	1	22	118	334	652	1299	813	648	574	427	190	29	5107
1990-91	2	9	122	320	515	736	957	765	636	294	70	23	4449
1991-92	0	4	117	293	655	812	936	732	710	395	229	49	4932
1992-93	1	17	98	390	630	937	865	932	833	414	147	41	5305
1993-94	0	4	97	378	631	993	1211	810	730	273	320	10	5457
1994-95	4	14	129	357	471	767	977	925	628	367	195	22	4856
1995-96	4	3	131	333	811	1050	1066	957	873	438	140	14	5820
1996-97	17	4	123	361	807	806	1059	724	609	541	337	70	5458
1997-98	9	37	137	421	806	987	886	784	757	400	122	58	5404
1998-99	0	1	52	349	626	851	892	820	888	312	148	33	4972
1999-00	10	6	109	396	528	892	1120	766	581	441	100	33	4982
2000-01	18	6	152	333	769	1231	1085	745	883	318	157	33	5730
2001-02	16	5	169	392	455	791	900	853	691	343	245	14	4874
2002-03	3	11	37	386	746	1012	1256	949	607	337	200	75	5619
2003-04	2	0	118	387	503	990	1179	890	627	384	70	47	5197
2004-05	7	53	63	296	554	953	949	813	846	374	286	28	5222
2005-06	2	0	40	316	590	1092	792	923	710	269	283	71	5088
2006-07	13	2	170	457	595	775	946	1106	511	478	135	18	5206
2007-08	19	0	49	214	671	809	1045	837	693	383	230	25	4975
2008-09	10	23	66	435	771	914	1110	836	665	390	164	15	5399
2009-10	24	6	88	426	568	1025	1201	1086	722	275	101	8	5530
2010-11	8	0	65	310	579	1257	1156	729	693	257	160	15	5229
2011-12	0	1	76	403	489	772	872	775	346	366	58	50	4208
2012-13	0	3	115	410	726	768	894	898	914	361	179	7	5275
2013-	5	15	89	327	749	856							

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COOLING DEGREE DAYS (base 65°F) 2013 BECKLEY (KBKW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	8	26	166	107	134	52	24	0	0	517
1985	0	0	5	25	20	68	150	100	75	9	0	0	452
1986	0	0	0	21	27	124	235	136	74	20	0	0	637
1987	0	0	0	2	78	143	250	257	59	0	0	0	789
1988	0	0	0	1	22	135	258	268	37	1	0	0	722
1989	0	0	10	5	29	121	208	155	71	3	0	0	602
1990	0	0	1	16	25	100	183	169	83	7	0	0	584
1991	0	0	0	17	126	150	266	178	94	13	1	0	845
1992	0	0	0	7	23	85	230	111	86	2	0	0	544
1993	0	0	0	1	13	113	304	213	79	4	3	0	730
1994	0	0	0	22	11	156	207	120	13	1	0	0	530
1995	0	0	0	7	20	101	235	262	37	8	0	0	670
1996	0	0	0	9	76	149	119	127	38	0	0	0	518
1997	0	0	0	2	9	90	191	97	22	5	0	0	416
1998	0	0	15	0	32	114	156	163	120	6	0	0	606
1999	0	0	0	6	19	149	282	119	30	0	0	0	605
2000	0	0	0	0	40	134	103	98	64	4	0	0	443
2001	0	0	0	30	16	88	113	184	29	4	0	0	464
2002	0	0	0	19	27	131	219	200	122	17	0	0	735
2003	0	0	0	0	15	61	156	183	36	0	6	0	457
2004	0	0	0	14	70	82	140	105	34	1	4	0	450
2005	0	0	0	0	2	139	234	220	62	5	1	0	663
2006	0	0	1	5	30	67	199	184	5	0	0	0	491
2007	0	0	2	8	57	98	135	319	139	41	0	0	799
2008	0	0	0	9	8	135	140	91	66	1	0	0	450
2009	0	0	0	25	33	103	75	147	31	3	0	0	417
2010	0	0	0	24	61	177	255	251	98	5	0	0	871
2011	0	0	1	35	69	149	311	225	75	0	0	0	865
2012	0	0	13	17	84	123	296	154	75	3	0	0	765
2013	0	0	0	16	51	125	205	146	57	15	0	0	615

SNOWFALL (inches) 2013 BECKLEY (KBKW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.0	0.5	4.8	34.1	18.5	2.2	6.9	0.0	0.0	67.0
1985-86	0.0	0.0	0.0	0.0	T	14.4	24.4	18.7	9.4	1.7	0.0	0.0	68.6
1986-87	0.0	0.0	0.0	0.0	1.1	0.3	29.4	21.9	1.3	18.6	0.0	0.0	72.6
1987-88	0.0	0.0	0.0	T	7.3	15.9	16.8	9.2	7.5	0.4	0.0	0.0	57.1
1988-89	0.0	0.0	0.0	T	0.2	12.8	9.5	10.9	0.4	5.7	1.3	0.0	40.8
1989-90	0.0	0.0	0.0	1.2	7.4	24.6	15.0	15.3	4.4	6.1	T	0.0	74.0
1990-91	0.0	0.0	0.0	T	T	4.6	4.7	9.9	3.7	T	0.0	0.0	22.9
1991-92	0.0	0.0	0.0	0.0	1.4	4.5	9.5	5.2	10.7	11.3	T	0.0	42.6
1992-93	0.0	0.0	0.0	0.2	2.5	14.8	0.4	20.1	35.5	1.0	T	T	74.5
1993-94	0.0	0.0	0.0	6.5	0.7	26.5	29.5	6.9	11.2	0.7	0.0	0.0	82.0
1994-95	0.0	0.0	0.0	0.0	T	1.4	17.3	13.0	13.1	0.1	0.0	0.0	44.9
1995-96	0.0	0.0	0.0	T	12.0	13.6	37.3	23.8	9.4	4.0	0.0	0.0	100.1
1996-97	0.0	0.0	0.0	T	4.0	6.5	10.0	7.5	0.1	1.1	T	0.0	29.2
1997-98	0.0	0.0	0.0	0.1	2.9	18.6	29.2	28.4	6.0	T	T	0.0	85.2
1998-99	0.0	0.0	0.0	0.0	0.3	8.9	7.8	8.3	19.0				
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05						7.6	15.5	13.5	14.7	3.5	0.0	0.0	
2005-06	0.0	0.0	0.0	T	0.6	5.3	7.5	23.0	3.0	0.0	0.0	0.0	39.4
2006-07	0.0	0.0	0.0	T	0.5	1.0	9.7	15.5	0.5	1.5	0.0	0.0	28.7
2007-08	0.0	0.0	0.0	0.0	T	3.1	10.0	2.9	T	T	0.0	0.0	16.0
2008-09	0.0	0.0	0.0	T	12.1	8.7	17.2	16.3	3.5	1.6	0.0	0.0	59.4
2009-10	0.0	0.0	0.0	T	1.0	37.7	42.1	49.8	3.5	0.0	0.0	0.0	134.1
2010-11	0.0	0.0	0.0	0.0	T	47.3	30.5	5.9	9.2	0.2	0.0	0.0	93.1
2011-12	0.0	0.0	0.0	1.2	0.2	6.4	11.0	11.1	6.0	0.1	0.0	0.0	36.0
2012-13	0.0	0.0	0.0	22.9	0.1	15.4	4.2	11.5	16.1	0.0	0.0	0.0	70.2
2013-	0.0	0.0	0.0	T	6.5	7.9							
POR= 51 YRS	0.0	0.0	0.0	0.8	3.1	10.8	15.5	14.5	7.7	1.9	T	T	54.3

WBAN : 03872

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). 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. 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 BECKLEY WEST VIRGINIA (KBKW)

The city of Beckley is located in the Appalachian Mountains about 30 miles northwest of the high ridges through eastern West Virginia. The Raleigh County Memorial Airport is on a plateau about 2.5 miles east of the city. Beckley is almost surrounded by distant peaks. The entire area is on a broad plateau composed of rough, hilly ground and lush valleys. The generalized 2,000-foot contour line is about 25 miles to the northwest and runs from southwest to northeast. The generalized 3,000-foot contour is about 10 miles to the southeast and follows the general configuration of the Appalachians.

One of the important results of this location is that only the air reaching Beckley from the northwest has had a trajectory which is primarily upslope. When a northwesterly circulation persists following the passage of a cold front, clearing often is delayed because of the upslope conditions causing clouds. The downslope effect is noticeable with an easterly circulation. When this occurs, the weather often remains clear over Beckley even though the low stratus to the east may obscure the ridges and be solid to the east of these ridges. To a lesser degree, the upslope effect from the northwest is largely responsible for the formation of heavy fogs at the Beckley Airport. Likewise, downslope motion resists formation of fog when the flow is from an easterly direction. The exception to this is a light southeasterly flow which frequently produces fog that is advected over the airport after forming over the large lake in New River Valley. Smoke is no problem due to the lack of any source region.

Beckley has a climate characterized by sharp temperature contrasts, both seasonal and day to day. The months of May through September are

generally warm, those of November through March moderately cold, with April and October months of fairly rapid transition. Cold waves occur on an average of two or three times during the winter, but severe cold spells are seldom of more than two or three days duration. Below-zero temperatures, as well as temperatures in the 70s have been recorded during winter months. A low of -13 degrees may be expected once every 10 years and -16 degrees once every 25 years. Summer highs near 90 degrees have occurred, contrasting with lows in the 30s during the same months. Highs seldom reach above the mid-80s. Cool nights are common throughout the summer, with lowest temperatures usually ranging from the 50s to the low 60s.

Ample precipitation is well distributed throughout the year. July has the highest monthly average while October has the lowest average. Summer rainfall occurs mostly during thunderstorms or showery precipitation, while the heaviest winter precipitation usually is associated with storms originating to the southwest and moving northeastward over the Ohio Valley. The formation of storms in the eastern Gulf of Mexico which move up the east coast will sometimes bring heavy snow to the Beckley area. Snowfall occurs chiefly from November through March and occasionally in October and April. The average seasonal snowfall is greater than snowfall at stations to the west at lower elevations, and considerably less than the totals for stations at higher elevations to the east and northeast.

Station History

BECKLEY, WV

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
RALEIGH COUNTY AP	1952-07-01	1952-07-12	37° 46'	-81° 7'			AIRWAYS
BECKLEY RALEIGH CO MEM AP	1963-01-01	1963-05-01	37° 46'	-81° 7'	2503		AIRWAYS
BECKLEY RALEIGH CO MEM AP	1981-12-31	1996-02-01	37° 46'	-81° 7'	2504		COOP
BECKLEY RALEIGH CO MEM AP	1963-05-01	1973-01-01	37° 46'	-81° 7'	2504		AIRWAYS, COOP
BECKLEY RALEIGH CO MEM AP	1973-01-01	1981-12-31	37° 46'	-81° 7'	2504		COOP, WXSVC
BECKLEY RALEIGH CO MEM AP	1952-07-12	1963-01-01	37° 46'	-81° 7'			AIRWAYS
BECKLEY RALEIGH CO MEM AP	2011-11-17	Present	37° 47'	-81° 7'	2514		ASOS, COOP
BECKLEY RALEIGH CO MEM AP	1996-02-01	2011-11-17	37° 47'	-81° 7'	2514		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1952-07-01	1963-05-01	DAILY	2400	UNIV	RCRD	
TEMP	1963-05-01	1996-02-01	DAILY	2400			
TEMP	1952-07-01	1963-05-01	DAILY	2400			
PRECIP	1996-02-01	2011-11-17	DAILY	2400	TB	RCRD	
PRECIP	1963-05-01	1996-02-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1963-05-01	1996-02-01	DAILY	2400	UNIV	RCRD	
PRECIP	1996-02-01	2011-11-17	HOURLY	2400	TB	RCRD	
TEMP	1996-02-01	2011-11-17	DAILY	2400	TEMPX		
PRECIP	2011-11-17	Present	DAILY	2400	PCPNX		
PRECIP	2011-11-17	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	2011-11-17	Present	DAILY	2400	ATEMP		

* 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/asos2implementation.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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