

2002

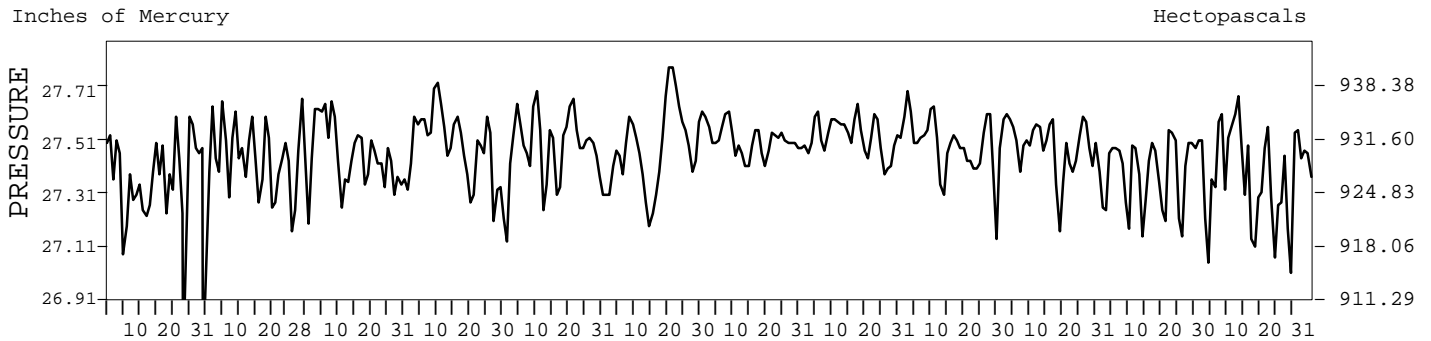
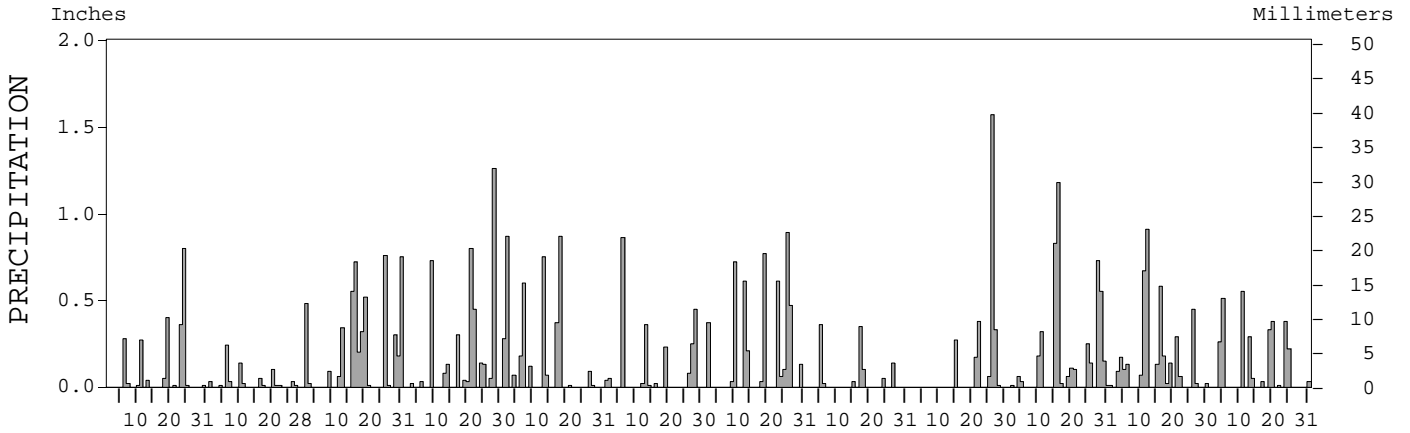
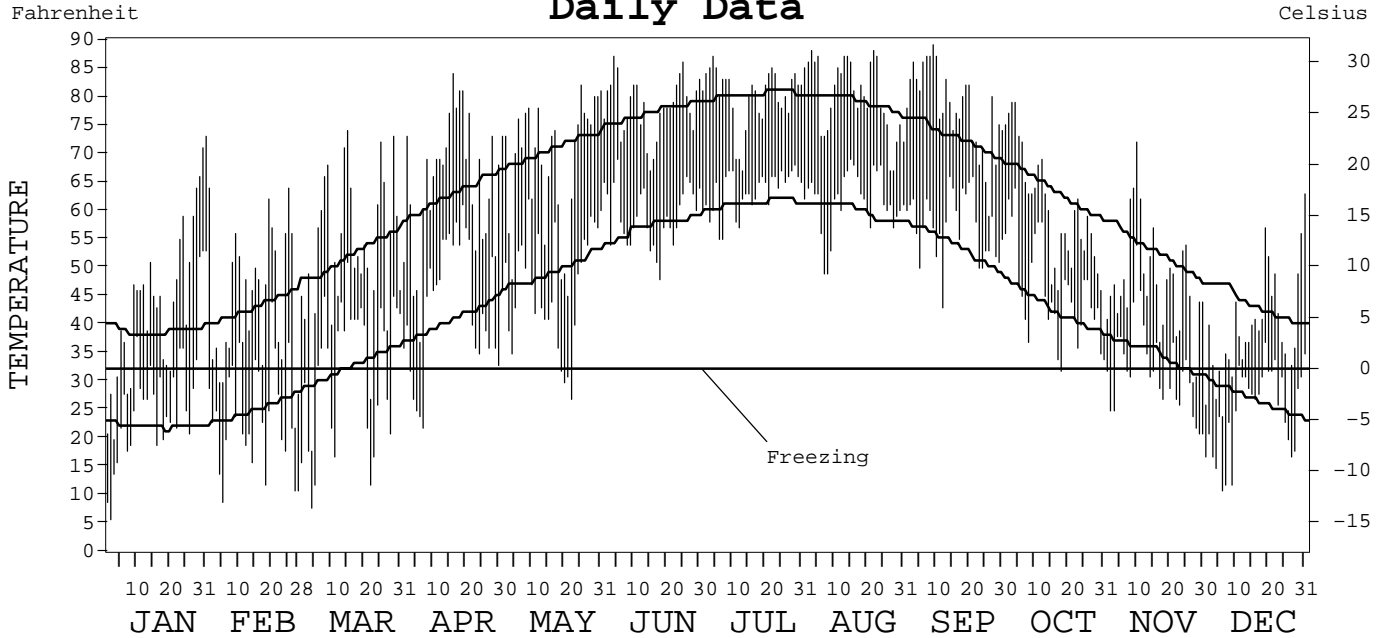
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5582

BECKLEY,  
WEST VIRGINIA (BKW)

## Daily Data



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*Thomas R. Karl*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 2002

## BECKLEY, WV (BKW)

LATITUDE: 37° 47' 42" N      LONGITUDE: 81° 07' 29" W      ELEVATION (FT): GRND: 2505      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	44.2	44.4	53.1	64.7	68.7	78.2	80.1	80.1	77.9	59.9	47.4	39.1	61.5	
	HIGHEST DAILY MAXIMUM	73	64	74	84	82	87	87	88	89	79	72	63	89	
	DATE OF OCCURRENCE	31	25+	15	16	25	04	04	22+	09	04+	10	31	SEP 09	
	MEAN DAILY MINIMUM	27.4	24.1	31.9	43.2	46.6	59.0	63.1	61.6	57.3	45.8	32.3	25.2	43.1	
	LOWEST DAILY MINIMUM	6	9	8	22	27	48	55	49	43	32	21	11	6	
	DATE OF OCCURRENCE	02	05	04	07	22	18	07+	8 +	12	18	30+	06	JAN 02	
	AVERAGE DRY BULB	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	
	MEAN WET BULB			38.4	47.9				65.1	61.9	51.0		29.4		
	MEAN DEW POINT			31.6	41.4				62.2	58.5	49.5		24.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM ≤ 32°	7	4	2	0	0	0	0	0	0	0	2	6	21	
MINIMUM ≤ 32°	23	22	13	5	4	0	0	0	0	1	18	27	113		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	900	853	691	343	245	14	3	11	37	386	746	1012	5241	
	COOLING DEGREE DAYS	0	0	0	19	27	131	219	200	122	17	0	0	735	
RH	MEAN (PERCENT)	69	62	69	66	73	76	81	76	77	89	78	75	74	
	HOUR 01 LST	73	70	72	76	84	86	91	86	87	94	83	78	82	
	HOUR 07 LST	77	71	78	78	82	86	90	87	92	95	84	80	83	
	HOUR 13 LST	62	54	64	55	59	62	68	62	62	78	71	69	64	
	HOUR 19 LST	65	55	64	55	65	69	78	71	72	90	78	72	70	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	4	5	0	2	2	5	2	2	5	4	3	36	
	THUNDERSTORMS	2	4	3	9	10	17	14	12	3	0	3	1	78	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)		27.45	27.47	27.50	27.48	27.49	27.52	27.54	27.50	27.47	27.39	27.40		
	MEAN SEA-LEVEL PRESS. (IN.)			30.13	30.11		30.04		30.09	30.05	30.09		30.10		
WINDS	RESULTANT SPEED (MPH)		3.9		2.2		1.2	1.3	1.2	2.4	1.7		2.3		
	RES. DIR. (TENS OF DEGS.)		26		23		18	20	16	13	16		20		
	MEAN SPEED (MPH)	8.3	9.1	9.2	8.7	7.3	5.9	5.5	5.5	6.4	6.3	8.0	6.9	7.3	
	PREVAIL. DIR. (TENS OF DEGS.)	23	14	14	14	14	22	13	13	14	14	30	13	14	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	31	29	30	31	29	26	26	30	29	25	28	26	31	
	DIR. (TENS OF DEGS.)	14	28	16	32	26	30	21	31	16	16	28	14	32	
	DATE OF OCCURRENCE	19	20+	09	28	13+	06	23	18	27	04	21	19	APR 28	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	39	39	49	39	31	30	36	38	33	39	37	49	
DIR. (TENS OF DEGS.)	15	27	16	29	28	31	18	30	15	16	28	13	29		
DATE OF OCCURRENCE	19	20	09	28	13+	06	23+	18	27	04	30	13	APR 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.80	0.27	0.86	1.26	1.24	0.86	0.98	0.37	1.62	1.98	0.91	0.76	1.98	
	DATE OF OCCURRENCE	24	06-07	17-18	28	17-18	06	25-26	17-18	25-26	15-16	12	04-05	OCT 15-16	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	12	13	16	14	13	11	13	7	7	17	18	12	153		
PRECIPITATION ≥ 0.10	5	3	11	8	8	5	10	4	5	11	11	8	89		
PRECIPITATION ≥ 1.00	0	0	0	1	0	0	0	0	1	1	0	0	3		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
DATE OF OCCURRENCE															
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

# NORMALS, MEANS, AND EXTREMES

## BECKLEY, WV (BKW)

LATITUDE: 37° 47' 42" N      LONGITUDE: 81° 07' 29" W      ELEVATION (FT): GRND: 2505      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	38.8	42.8	51.9	62.5	70.6	77.0	80.2	78.9	72.6	63.1	52.4	43.1	61.2
	MEAN DAILY MAXIMUM	39	38.9	42.3	51.4	62.6	70.2	76.6	79.6	78.5	72.4	62.8	52.2	42.6	60.8
	HIGHEST DAILY MAXIMUM	39	73	74	81	86	89	90	94	96	92	81	78	73	96
	YEAR OF OCCURRENCE		2002	1977	1998	1976	1996	1964	1988	1988	1998	1997	1993	2001	AUG 1988
	MEAN OF EXTREME MAXS.	39	60.9	64.0	72.7	80.0	82.3	85.5	87.1	86.1	83.2	76.8	70.4	63.4	76.0
	NORMAL DAILY MINIMUM	30	22.1	24.9	32.4	40.6	49.2	57.0	61.1	59.8	53.5	42.4	34.4	26.5	42.0
	MEAN DAILY MINIMUM	39	21.8	24.1	31.8	41.0	49.0	56.8	60.9	59.5	53.1	42.2	34.3	26.0	41.7
	LOWEST DAILY MINIMUM	39	-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.	39	-1.7	2.5	11.4	23.1	33.1	42.4	48.9	47.7	37.3	25.9	15.6	4.8	24.2
	NORMAL DRY BULB	30	29.2	32.1	42.0	51.2	59.5	66.2	69.7	68.8	62.8	52.4	43.4	34.0	50.9
	MEAN DRY BULB	39	30.4	33.1	41.6	51.9	59.6	66.7	70.0	68.9	62.8	52.5	43.2	34.3	51.2
	MEAN WET BULB	17	29.0	31.7	36.8	45.0	53.9	62.1	65.5	60.5	58.1	48.2	39.2	32.1	46.8
	MEAN DEW POINT	17	23.4	25.5	29.5	37.2	48.8	58.7	62.6	61.4	55.0	42.9	33.0	26.7	42.1
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	0.0	*	0.4	0.4	0.0	0.0	0.0	0.0	0.8	
MAXIMUM ≤ 32°	30	10.7	7.1	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.6	28.5	
MINIMUM ≤ 32°	30	25.5	21.8	16.6	7.0	1.0	*	0.0	0.0	0.2	5.4	13.8	22.4	113.7	
MINIMUM ≤ 0°	30	2.4	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.5	
H/C	NORMAL HEATING DEG. DAYS	30	1068	882	714	414	199	48	10	16	115	388	647	926	5427
	NORMAL COOLING DEG. DAYS	30	0	0	1	8	29	99	183	149	56	4	0	0	529
RH	NORMAL (PERCENT)	30	74	72	67	62	68	75	78	80	80	72	70	74	73
	HOUR 01 LST	30	77	75	72	70	79	87	90	90	90	82	76	77	80
	HOUR 07 LST	30	80	79	78	75	80	86	89	92	92	86	80	79	83
	HOUR 13 LST	30	67	64	58	52	54	59	62	63	63	57	60	66	60
	HOUR 19 LST	30	71	68	61	54	61	68	72	76	79	70	68	73	68
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	39	4.1	3.6	3.8	2.5	3.0	3.9	4.9	5.5	5.7	3.6	3.1	3.2	46.9
	THUNDERSTORMS	39	0.5	0.8	2.1	3.6	6.9	8.9	9.9	7.2	3.4	0.8	0.7	0.2	45.0
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)	30	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	34	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	34	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	34	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)	27	27.40	27.39	27.40	27.40	27.40	27.50	27.50	27.51	27.50	27.50	27.40	27.40	27.45
	MEAN SEA-LEVEL PRES. (IN)	17	30.14	30.13	30.06	30.02	30.03	30.02	30.05	30.08	30.09	30.14	30.15	30.16	30.09
WINDS	MEAN SPEED (MPH)	26	9.5	9.4	9.9	9.5	8.1	7.0	6.4	6.2	6.7	7.6	8.8	9.2	8.2
	PREVAIL. DIR (TENS OF DEGS)	27	14	14	14	14	14	24	24	14	14	14	14	14	14
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	6	32	32	35	31	37	29	31	30	29	32	30	33	37
	DIR. (TENS OF DEGS)		22	18	27	32	29	32	01	31	16	26	17	22	29
	YEAR OF OCCURRENCE		2001	1997	2001	2002	2001	2000	1997	2002	2002	2001	1998	2001	MAY 2001
	MAXIMUM 5-SECOND:														
SPEED (MPH)	6	46	44	49	49	48	38	41	40	38	43	39	46	49	
DIR. (TENS OF DEGS)		23	13	28	29	27	01	01	02	15	26	28	22	29	
YEAR OF OCCURRENCE		1999	1998	2001	2002	2001	1998	1997	2000	2002	2001	2002	2001	APR 2002	
PRECIPITATION	NORMAL (IN)	30	3.23	2.96	3.63	3.43	4.39	3.92	4.78	3.45	3.23	2.64	2.88	3.09	41.63
	MAXIMUM MONTHLY (IN)	39	6.36	6.01	9.18	7.63	7.65	7.05	9.65	5.93	8.27	5.91	6.33	6.43	9.65
	YEAR OF OCCURRENCE		1974	1972	1975	1987	2001	1969	2001	1977	1964	1990	1985	1991	JUL 2001
	MINIMUM MONTHLY (IN)	39	0.53	0.69	1.74	0.28	1.03	1.26	1.65	1.05	0.54	0.14	0.66	0.57	0.14
	YEAR OF OCCURRENCE		1983	2002	1966	1976	1977	1999	1993	2002	1985	1963	2001	1965	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	39	2.28	2.11	2.22	3.77	2.50	2.47	3.48	2.55	5.34	3.31	2.54	2.22	5.34
	YEAR OF OCCURRENCE		1995	1994	1967	1977	1985	1983	2001	1980	1964	1989	1985	1991	SEP 1964
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	16.3	14.7	14.7	14.4	13.6	12.1	13.3	11.4	10.8	10.0	12.6	14.8	158.7	
PRECIPITATION ≥ 1.00	30	0.2	0.3	0.3	0.3	0.7	0.7	1.2	0.6	0.7	0.5	0.3	0.5	6.3	
SNOWFALL	NORMAL (IN)	30	17.0	15.0	9.0	2.9	0.1	0.0	0.0	0.0	0.6	3.6	10.4	58.6	
	MAXIMUM MONTHLY (IN)	36	37.3	30.8	35.5	18.6	1.3	T	0.0	0.0	T	6.5	13.1	26.5	37.3
	YEAR OF OCCURRENCE		1996	1964	1993	1987	1989	1993			1967	1993	1974	1993	JAN 1996
	MAXIMUM IN 24 HOURS (IN)	36	25.5	14.4	28.2	13.1	1.3	T	0.0	0.0	T	6.5	7.0	13.8	28.2
	YEAR OF OCCURRENCE		1998	1983	1993	1987	1989	1993			1967	1993	1968	1967	MAR 1993
	MAXIMUM SNOW DEPTH (IN)	35	26	19	30	15	0	0	0	0	0	2	6	14	30
	YEAR OF OCCURRENCE		1998	1998	1993	1987						1993	1968	1974	MAR 1993
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	4.1	4.3	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.2	1.1	3.4	16.2	

PRECIPITATION (inches) 2002 BECKLEY, WV (BKW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	1.75	2.66	4.49	5.12	4.63	2.11	5.21	2.79	2.33	3.22	4.52	4.62	43.45
1974	6.36	2.03	4.91	3.36	4.67	4.42	3.93	2.76	2.89	2.90	4.07	3.45	45.75
1975	4.54	4.34	9.18	3.92	5.65	4.61	7.26	4.21	4.62	2.75	2.51	3.51	57.10
1976	3.08	2.96	3.32	0.28	3.79	2.98	3.56	1.74	5.51	5.88	1.30	2.77	37.17
1977	2.02	1.58	2.48	6.27	1.03	5.65	3.28	5.93	4.06	4.09	2.94	2.11	41.44
1978	4.40	0.98	3.14	3.82	4.16	1.48	3.10	4.66	1.49	0.97	2.42	5.88	36.50
1979	5.31	2.54	2.60	3.11	4.99	6.40	4.89	3.40	4.59	2.59	3.68	1.48	45.58
1980	3.35	1.78	3.71	4.85	2.38	2.69	6.80	5.54	1.60	1.81	2.15	1.06	37.72
1981	0.57	2.11	1.79	3.40	5.16	5.65	3.29	2.50	5.00	3.15	1.25	3.42	37.29
1982	2.07	3.68	3.49	1.44	6.22	3.23	9.61	2.87	1.74	2.64	3.46	1.69	42.14
1983	0.53	1.43	1.83	3.43	3.98	7.00	3.72	2.52	1.60	4.55	1.84	2.27	34.70
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
POR= 52 YRS	3.17	3.05	3.84	3.39	4.08	3.91	4.76	3.53	3.34	2.50	2.79	3.13	41.49

WBAN : 03872

AVERAGE TEMPERATURE (°F) 2002 BECKLEY, WV (BKW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	31.3	31.4	48.5	49.1	56.8	68.8	70.2	69.9	65.6	55.3	44.3	34.1	52.1
1974	41.4	34.1	45.7	53.1	59.5	62.6	68.2	68.2	59.3	50.4	42.8	34.4	51.6
1975	34.3	36.5	37.3	47.7	62.6	66.6	69.5	71.9	61.1	55.5	47.1	35.3	52.1
1976	27.8	42.2	47.7	52.0	57.2	66.6	68.1	66.0	59.9	46.4	34.3	29.5	49.8
1977	16.5	29.9	46.7	54.8	63.0	63.5	71.9	69.8	65.1	49.3	46.1	32.6	50.8
1978	22.2	21.6	38.9	52.8	58.7	66.1	69.1	70.3	66.0	51.5	47.4	36.9	50.1
1979	25.6	26.6	45.5	51.8	60.1	64.0	67.7	68.6	62.2	50.5	44.4	36.2	50.3
1980	30.8	25.8	38.6	50.5	59.5	64.2	72.2	71.4	65.6	49.9	39.9	33.5	50.2
1981	24.2	34.4	36.2	55.6	56.6	68.6	70.6	67.3	60.7	50.1	42.4	29.9	49.7
1982	25.8	34.3	44.2	48.5	64.4	64.6	70.2	66.6	61.2	53.4	45.3	41.0	51.6
1983	30.2	34.2	42.8	48.6	57.8	66.0	70.3	70.9	63.0	51.8	41.5	28.5	50.5
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
POR= 52 YRS	30.7	33.8	41.3	51.7	59.8	66.4	70.1	68.9	62.9	52.2	42.7	34.2	51.2

HEATING DEGREE DAYS (base 65°F) 2002 BECKLEY, WV (BKW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	5	13	55	295	613	951	724	859	594	362	198	113	4782
1974-75	5	9	188	447	660	943	946	794	849	514	116	40	5511
1975-76	0	2	146	289	530	914	1148	655	533	421	241	37	4916
1976-77	24	49	151	566	914	1094	1496	978	565	310	113	97	6357
1977-78	8	11	67	479	564	997	1319	1211	801	366	216	56	6095
1978-79	14	3	58	411	521	864	1213	1070	597	389	175	69	5384
1979-80	28	37	116	448	611	890	1053	1130	809	435	186	81	5824
1980-81	0	1	69	463	746	970	1257	849	887	287	264	15	5808
1981-82	6	18	164	453	670	1084	1211	856	636	487	71	43	5699
1982-83	9	23	144	363	585	737	1071	856	680	490	230	46	5234
1983-84	14	12	138	400	699	1126	1138	781	827	483	266	18	5902
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-	3	11	37	386	746	1012							

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COOLING DEGREE DAYS (base 65°F) 2002 BECKLEY, WV (BKW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	1	6	9	130	172	173	81	2	0	0	574
1974	0	0	1	12	35	51	112	112	22	0	0	0	345
1975	0	0	0	1	51	92	145	221	37	1	0	0	548
1976	0	0	2	38	7	90	127	86	6	0	0	0	356
1977	0	0	1	11	58	60	229	169	77	0	2	0	607
1978	0	0	0	5	33	96	147	175	96	0	0	0	552
1979	0	0	0	1	31	49	121	157	39	6	0	0	404
1980	0	0	0	4	24	66	235	207	94	2	0	0	632
1981	0	0	0	11	8	130	187	99	40	0	0	0	475
1982	0	0	0	0	61	37	176	83	37	12	0	0	406
1983	0	0	0	4	16	84	189	201	86	0	0	0	580
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

SNOWFALL (inches) 2002 BECKLEY, WV (BKW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	3.2	0.7	19.2	1.4	10.4	2.5	1.2	0.0	0.0	38.6
1974-75	0.0	0.0	0.0	1.4	13.1	16.5	11.7	7.8	17.3	1.0	0.0	0.0	68.8
1975-76	0.0	0.0	0.0	0.0	3.1	5.0	16.4	7.3	3.8	T	T	0.0	35.6
1976-77	0.0	0.0	0.0	T	12.7	19.3	35.5	15.4	3.5	2.2	0.0	0.0	88.6
1977-78	0.0	0.0	0.0	T	5.4	7.9	31.6	20.3	15.1	0.2	0.0	0.0	80.5
1978-79	0.0	0.0	0.0	0.0	2.4	3.8	27.7	29.5	5.4	T	0.0	0.0	68.8
1979-80	0.0	0.0	0.0	2.7	1.4	4.7	21.1	26.1	12.8	1.0	0.0	0.0	69.8
1980-81	0.0	0.0	0.0	T	1.4	4.4	21.4	8.4	20.4	T	0.0	0.0	56.0
1981-82	0.0	0.0	0.0	0.5	3.6	22.0	17.9	18.2	12.8	4.0	0.0	0.0	79.0
1982-83	0.0	0.0	0.0	0.0	0.3	14.8	10.9	25.6	6.8	0.7	0.0	0.0	59.1
1983-84	0.0	0.0	0.0	0.0	3.8	8.5	22.3	22.9	9.8	0.3	0.0	0.0	67.6
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-													
POR= 34 YRS	0.0	0.0	T	0.5	3.7	11.2	16.9	15.4	8.8	2.5	0.1	T	59.1

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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. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). 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 AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. 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 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.</p> <p>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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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## 2002 BECKLEY, WEST VIRGINIA (BKW)

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 LOCATION

BECKLEY, WEST VIRGINIA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE		ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS
				NORTH	WEST	GROUND											
						SEA LEVEL	GROUND	WIND	EXTREME	PSYCHROMETER	SUNSHINE	TIPPING GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE	HYGROMETER		
*NOTES:																	
<u>AIRPORT</u>																	
Terminal Building Raleigh County Memorial Airport	7/12/52	5/14/63	NA	37°47'	81°07'	2504	40		4							Supplementary Aeronautical Weather Reporting Station.	
Administration Building Raleigh County Memorial Airport	5/15/63	02/01/96	75ft. NNE	37°47'	81°07'	2504	50 b33	5 d5	5 d5	NA	NA a4 d4	4 d4	4 d4	NA c5	NA	First order Weather Bureau Station. a. Installed 5/1/75. b. Moved to center of field 11/1/77. c. Installed at center of field 11/1/77. d. Minor move 10/7/77.	
Raleigh County Memorial Airport	02/01/96	Present	NA	37°48'	81°07'	e2505									S	ASOS Commissioned 02/01/96 e. Ground elevation	

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\* NOTES: For earlier station history see previous edition.