

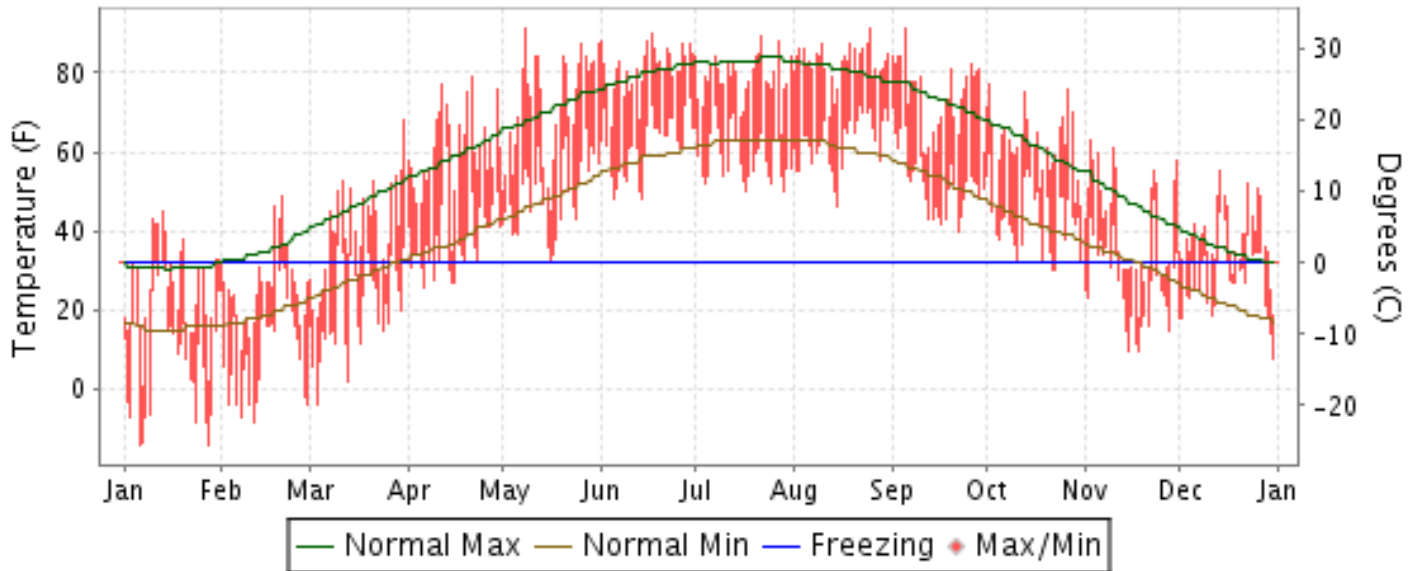


# 2014 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

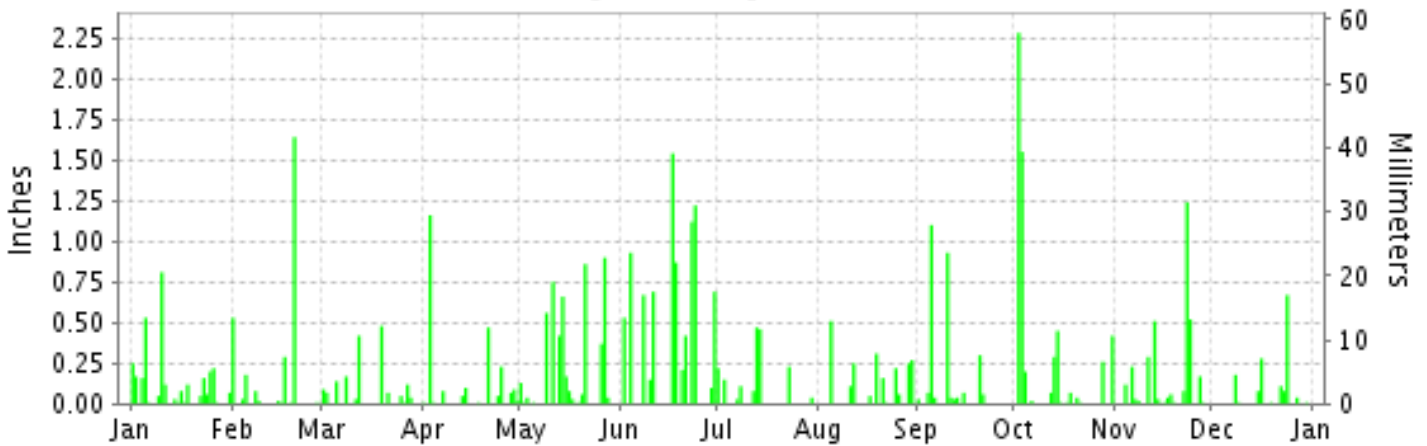
ISSN 0198-201X

## SOUTH BEND, INDIANA (KSBN)

### 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 2014

## SOUTH BEND (KSBN)

LATITUDE: 41° 42'N      LONGITUDE: 86° 18'W      ELEVATION (FT): GRND: 773 BARO: 780      TIME ZONE: EASTERN (UTC -5)      WBAN: 14848

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	25.6	26.4	39.8	60.7	72.0	81.1	78.7	82.5	74.0	61.7	42.0	38.7	56.9	
	HIGHEST DAILY MAXIMUM	45	49	68	79	91	90	89	91	91	77	63	55	91	
	DATE OF OCCURRENCE	13	20	31	21	08	17	22	25	05	02	03	14	SEP 05	
	MEAN DAILY MINIMUM	8.5	10.4	20.3	37.7	49.4	61.7	58.7	62.7	52.4	43.2	26.8	27.7	38.3	
	LOWEST DAILY MINIMUM	-14	-8	-4	26	32	48	50	46	40	30	10	8	-14	
	DATE OF OCCURRENCE	28+	11	03	06	16	14+	29+	15	22	23+	18+	31	JAN 28+	
	AVERAGE DRY BULB	17.1	18.4	30.0	49.2	60.7	71.4	68.7	72.6	63.2	52.4	34.4	33.2	47.6	
	MEAN WET BULB			27.0	42.2	54.2	64.7	62.0	65.7	57.4	47.6	31.6	31.3		
	MEAN DEW POINT			19.7	33.0	47.6	60.3	57.2	61.9	53.2	42.5	26.0	27.2		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	1	0	1	1	0	0	0	0	4
	MAXIMUM <= 32°	22	23	9	0	0	0	0	0	0	0	13	3	70	
MINIMUM <= 32°	29	28	25	10	1	0	0	0	0	0	3	20	136		
MINIMUM <= 0°	10	8	1	0	0	0	0	0	0	0	0	0	19		
H/C	HEATING DEGREE DAYS	1478	1293	1076	469	208	17	18	10	120	385	909	978	6961	
	COOLING DEGREE DAYS	0	0	0	2	83	216	140	252	74	4	0	0	771	
RH	MEAN (PERCENT)	72	70	66	57	63	70	68	73	73	71	72	78	69	
	HOUR 01 LST	75	73	70	65	75	80	81	84	85	78	71	81	77	
	HOUR 07 LST	76	76	75	65	69	75	75	81	83	82	80	82	77	
	HOUR 13 LST	66	63	58	44	51	57	52	58	54	57	66	71	58	
	HOUR 19 LST	73	68	63	55	57	65	64	72	75	69	71	79	68	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	2	2	2	1	0	1	4	1	3	1	0	19	
	THUNDERSTORMS	0	1	0	3	6	6	5	8	2	1	0	0	32	
PR	MEAN STATION PRESS. (IN.)	29.15	29.23	29.23	29.13	29.17	29.12	29.18	29.18	29.27	29.10	29.20	29.34	29.19	
	MEAN SEA-LEVEL PRESS. (IN.)	30.02	30.11	30.10	29.96	30.00	29.94	30.00	30.00	30.10	29.93	30.05	30.20	30.03	
WINDS	RESULTANT SPEED (MPH)	6.9	4.3	1.1	1.4	2.0	2.5	3.4	0.7	1.2	3.5	7.7	2.8	2.9	
	RES. DIR. (TENS OF DEGS.)	23	26	26	18	22	20	27	21	25	25	23	24	24	
	MEAN SPEED (MPH)	12.1	9.6	10.0	11.7	9.0	7.9	7.3	6.2	6.6	9.4	11.6	9.3	9.2	
	PREVAIL.DIR.(TENS OF DEGS.)	22	29	33	10	20	19	33	21	21	23	21	24	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	35	33	38	36	48	30	31	30	35	37	26	48	
	DIR. (TENS OF DEGS.)	29	24	21	20	23	32	32	17	32	36	24	27	32	
	DATE OF OCCURRENCE	27	20	28	29	09	30	27	29	21	31	24	27	JUN 30	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	45	49	49	49	51	68	40	45	40	45	48	31	68		
DIR. (TENS OF DEGS.)	30	25	20	19	23	31	35	23	31	01	24	21	31		
DATE OF OCCURRENCE	27	21	28	29	09	30	01	19	21	31	24	27	JUN 30		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.12	2.82	1.69	2.35	5.10	9.14	1.79	2.20	2.71	5.68	3.37	1.47	41.44	
	GREATEST 24-HOUR (IN.)	0.92	1.64	0.48	1.16	1.10	2.20	0.55	0.51	1.14	3.75	1.75	0.68	3.75	
	DATE OF OCCURRENCE	10-11	20	19	03	26-27	17-18	12-13	05	05-06	02-03	23-24	23-24	OCT 02-03	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	20	11	12	13	17	13	9	11	11	14	16	10	157		
PRECIPITATION 0.10	10	4	5	4	9	13	6	8	3	7	7	4	80		
PRECIPITATION 1.00	0	1	0	1	0	3	0	0	1	2	1	0	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)											19.1	0.2		
	GREATEST 24-HOUR (IN.)											12.3	0.2		
	DATE OF OCCURRENCE											13	30		
	MAXIMUM SNOW DEPTH (IN.)											8	T		
DATE OF OCCURRENCE											14	30+			
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0											5	0			

# NORMALS, MEANS, AND EXTREMES SOUTH BEND (KSBN)

LATITUDE: 41° 42'N      LONGITUDE: 86° 18'W      ELEVATION (FT): GRND: 773 BARO: 780      TIME ZONE: EASTERN (UTC -5)      WBAN: 14848

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	31.3	35.1	46.5	59.5	70.0	79.4	82.9	80.9	74.0	61.7	48.2	35.2	58.7
	MEAN DAILY MAXIMUM	118	31.7	32.6	45.5	58.0	70.2	78.7	83.9	82.0	73.9	63.0	47.1	35.4	58.5
	HIGHEST DAILY MAXIMUM	75	68	74	85	91	97	104	102	103	99	92	82	70	104
	YEAR OF OCCURRENCE		1950	2000	2012	1942	2012	1988	2012	1988	1953	1963	1950	2001	JUN 1988
	MEAN OF EXTREME MAXS.	119	51.5	53.9	70.8	80.0	86.6	92.5	93.8	91.9	89.1	80.7	68.3	55.9	76.3
	NORMAL DAILY MINIMUM	30	17.6	20.5	28.4	38.6	48.6	58.7	63.1	61.7	53.7	42.6	33.3	22.4	40.8
	MEAN DAILY MINIMUM	118	17.0	17.7	27.8	37.5	48.3	57.2	62.4	60.7	53.0	42.7	31.7	21.9	39.8
	LOWEST DAILY MINIMUM	75	-22	-17	-13	11	24	35	42	40	29	20	-7	-16	-22
	YEAR OF OCCURRENCE		1943	1951	1943	1972	1968	1972	2001	1965	1942	1988	1950	1960	JAN 1943
	MEAN OF EXTREME MINS.	119	-4.8	-0.8	10.0	23.1	33.3	44.0	50.9	49.2	38.6	29.1	17.3	1.9	24.3
	NORMAL DRY BULB	30	24.4	27.8	37.5	49.0	59.3	69.1	73.0	71.3	63.9	52.1	40.7	28.8	49.7
	MEAN DRY BULB	118	24.4	25.2	36.6	47.8	59.2	68.0	73.2	71.4	63.5	52.9	39.4	28.7	49.2
	MEAN WET BULB	30	22.4	24.6	31.8	41.3	51.6	60.8	65.0	64.2	56.9	45.9	35.7	26.6	43.9
	MEAN DEW POINT	30	20.6	22.3	29.3	38.5	49.3	58.7	63.3	62.8	55.2	43.9	34.0	24.9	41.9
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.3	2.4	4.2	2.1	0.7	0.0	0.0	0.0	9.7
	MAXIMUM <= 32	30	16.2	11.2	3.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.6	44.5
MINIMUM <= 32	30	27.7	24.3	20.3	7.9	0.4	0.0	0.0	0.0	0.0	3.0	13.6	25.6	122.8	
MINIMUM <= 0	30	2.8	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.4	
H/C	NORMAL HEATING DEG. DAYS	30	1257	1041	855	487	223	44	5	13	116	407	728	1122	6298
	NORMAL COOLING DEG. DAYS	30	0	0	1	9	46	165	253	208	82	9	0	0	773
RH	NORMAL (PERCENT)	30	78	75	70	66	66	68	71	75	74	72	75	79	72
	HOURLY 01 LST	30	80	79	76	74	76	79	83	86	84	80	79	82	80
	HOURLY 07 LST	30	82	82	80	79	80	81	84	89	89	85	82	83	83
	HOURLY 13 LST	30	73	68	60	56	55	55	57	60	59	59	68	75	62
	HOURLY 19 LST	30	77	73	65	59	57	57	60	66	68	68	74	79	67
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	51	2.6	2.4	2.3	1.2	1.3	1.0	1.3	2.0	1.7	1.6	1.9	3.1	22.4
	THUNDERSTORMS	67	0.4	0.5	2.2	4.2	5.0	7.4	7.2	6.1	4.0	2.0	1.0	0.5	40.5
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	51	6.4	6.2	6.0	5.5	5.0	4.9	4.5	4.5	4.6	4.9	6.1	6.4	5.4
	MIDNIGHT-MIDNIGHT (OKTAS)	32	6.3	5.9	5.7	5.3	4.8	4.6	4.2	4.2	4.4	4.7	6.0	6.4	5.2
	MEAN NO. DAYS WITH: CLEAR	57	3.4	3.7	4.7	5.8	6.9	7.2	8.2	8.6	8.8	8.7	3.6	3.0	72.6
	PARTLY CLOUDY	57	5.9	5.6	7.3	7.6	9.6	10.4	12.7	12.1	9.0	8.0	6.0	5.6	99.8
	CLOUDY	57	21.7	18.9	19.1	16.6	14.5	12.4	10.1	10.3	12.2	14.4	20.4	22.5	193.1
PR	MEAN STATION PRESSURE(IN)	31	29.22	29.23	29.20	29.13	29.15	29.14	29.18	29.21	29.23	29.22	29.22	29.23	29.20
	MEAN SEA-LEVEL PRES. (IN)	31	30.08	30.09	30.05	29.97	29.97	29.95	29.99	30.02	30.05	30.05	30.07	30.09	30.03
WINDS	MEAN SPEED (MPH)	31	10.9	10.3	10.5	10.6	9.2	8.0	7.3	6.7	7.4	8.6	10.0	10.2	9.1
	PREVAIL.DIR.(TENS OF DEGS)	40	24	23	35	33	22	22	22	21	20	22	24	24	24
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	39	45	43	44	46	53	47	45	36	56	51	43	56
	DIR. (TENS OF DEGS)		28	20	24	23	25	26	32	18	25	25	23	21	25
	YEAR OF OCCURRENCE		2013	1999	2009	2008	2013	2013	2011	2012	2010	2001	2013	2007	OCT 2001
	MAXIMUM 3-SECOND SPEED (MPH)	18	53	56	56	61	60	74	66	66	51	90	68	62	90
	DIR. (TENS OF DEGS)		28	20	23	24	25	24	32	19	25	26	23	21	26
YEAR OF OCCURRENCE		2013	1999	2004	2008	2013	2010	2011	2012	2010	2001	2013	2007	OCT 2001	
PRECIPITATION	NORMAL (IN)	30	2.29	1.95	2.42	3.23	3.83	3.79	4.00	3.76	3.53	3.32	3.27	2.61	38.00
	MAXIMUM MONTHLY (IN)	75	5.34	5.23	7.96	9.20	8.09	10.86	8.66	8.88	13.92	9.75	6.72	5.50	13.92
	YEAR OF OCCURRENCE		2008	1976	1976	1947	1996	1993	2006	2007	2008	1954	1985	1965	SEP 2008
	MINIMUM MONTHLY (IN)	75	0.44	0.54	0.54	0.50	0.80	0.48	0.02	0.32	0.01	0.42	0.26	0.60	0.01
	YEAR OF OCCURRENCE		1945	1969	1958	1971	1994	1988	1946	1950	1979	1950	2012	1943	SEP 1979
	MAXIMUM IN 24 HOURS (IN)	75	3.15	2.64	2.33	3.14	2.99	4.70	3.64	4.88	6.88	3.75	3.95	3.33	6.88
	YEAR OF OCCURRENCE		2008	1954	1972	1947	1976	1968	1989	1995	2008	2014	1990	1965	SEP 2008
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	15.7	11.8	12.7	13.2	12.3	10.3	9.5	9.9	9.9	10.9	13.4	15.8	145.4
	PRECIPITATION >= 1.00	30	0.3	0.2	0.2	0.5	0.8	0.9	1.0	1.0	0.6	0.8	0.6	0.3	7.2
SNOWFALL	NORMAL (IN)	30	20.6	15.0	7.1	1.4	0.0	0.0	0.0	0.0	0.0	0.4	4.8	17.3	66.6
	MAXIMUM MONTHLY (IN)	73	86.1	35.1	33.9	14.0	0.6	T	T	T	1.2	8.8	30.3	44.6	86.1
	YEAR OF OCCURRENCE		1978	1958	1960	1982	1966	2008	2011	1996	1942	1989	1977	2000	JAN 1978
	MAXIMUM IN 24 HOURS (IN)	73	26.0	14.4	14.8	8.7	0.6	T	T	T	1.0	8.8	17.5	13.7	26.0
	YEAR OF OCCURRENCE		2011	1993	1960	1982	1966	1992	2011	1989	1994	1989	1977	1981	JAN 2011
	MAXIMUM SNOW DEPTH (IN)	64	41	35	21	6	0	0	0	0	0	6	20	23	41
	YEAR OF OCCURRENCE		1978	1978	1960	1982						1989	1977	1962	JAN 1978
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	6.2	4.7	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.1	1.7	5.1	20.4	

**PRECIPITATION (inches) 2014 SOUTH BEND (KSBN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	2.58	4.32	3.86	1.93	1.50	2.88	3.80	3.82	1.88	3.36	6.72	2.51	39.16
1986	1.24	2.46	2.09	1.87	3.42	5.06	6.15	1.90	4.27	3.81	2.90	1.67	36.84
1987	2.31	1.32	1.18	2.67	3.50	3.57	3.61	3.34	3.64	3.20	2.11	4.12	34.57
1988	2.21	1.98	3.03	2.91	1.40	0.48	1.28	5.63	4.42	6.68	5.72	2.91	38.65
1989	1.58	1.05	2.27	2.83	2.72	3.49	5.90	5.65	3.78	1.45	3.55	1.83	36.10
1990	2.36	3.66	2.79	2.91	6.86	4.40	5.45	4.60	3.76	7.09	6.69	5.04	55.61
1991	1.64	1.79	2.79	4.58	4.01	0.62	1.32	3.68	2.71	8.75	2.75	1.67	36.31
1992	1.64	1.73	2.93	2.19	1.17	1.74	5.24	2.07	8.84	1.60	5.54	3.99	38.68
1993	3.35	1.20	2.62	3.64	2.34	10.86	1.51	4.38	7.76	4.09	2.39	1.50	45.64
1994	2.46	1.45	0.80	2.80	0.80	5.10	4.97	4.19	4.68	3.49	4.36	2.50	37.60
1995	2.46	2.00	1.84	4.56	3.67	2.36	6.50	8.29	0.89	3.22	4.40	1.89	42.08
1996	1.66	2.09	1.24	3.60	8.09	7.20	6.69	1.75	3.30	3.27	3.70	2.90	45.49
1997	2.63	3.86	2.02	1.36	3.77	3.16	1.98	5.05	2.86	2.16	2.45	2.14	33.44
1998	3.76	1.69	4.03	3.78	2.49	3.98	2.27	5.84	1.54	2.50	1.24	2.04	35.16
1999	3.06	1.58	1.18	7.48	1.64	2.60	2.39	4.12	1.25	1.37	1.32	2.66	30.65
2000	2.57	1.63	1.81	3.69	4.60	7.75	2.88	1.49	3.22	2.28	3.07	2.29	37.28
2001	0.83	3.47	1.11	3.65	4.31	4.25	2.97	3.75	3.65	7.06	2.66	2.25	39.96
2002	2.48	2.10	2.77	3.40	5.75	1.26	2.47	2.31	1.16	1.43	1.91	1.80	28.84
2003	1.21	0.91	1.52	3.30	6.34	1.16	6.22	1.74	3.69	2.68	4.15	1.70	34.62
2004	1.56	0.76	3.37	0.83	5.67	5.09	4.12	5.62	0.92	1.97	4.56	2.21	36.68
2005	5.10	1.92	2.05	1.14	1.06	2.07	3.46	2.20	3.07	1.24	2.21	1.79	27.31
2006	2.87	0.95	3.08	2.41	5.45	2.00	8.66	4.66	3.53	4.51	3.33	3.55	45.00
2007	3.50	1.38	2.44	4.48	1.70	1.80	5.40	8.88	1.48	4.02	2.18	3.03	40.29
2008	5.34	3.39	2.50	2.51	2.64	2.84	2.38	1.90	13.92	3.13	2.02	3.79	46.36
2009	1.57	3.00	5.55	3.57	2.82	6.76	2.64	7.08	0.48	5.16	1.32	1.88	41.83
2010	1.22	1.34	1.72	2.38	6.04	5.71	4.35	0.92	2.13	1.87	2.76		
2011	2.16	3.51	2.27	7.24	7.59	4.94	2.52	1.94	3.65	4.57	3.46	2.62	46.47
2012	2.97	2.30	1.67	2.22	2.14	1.54	6.48	5.26	2.03	4.39	0.26	3.43	34.69
2013	5.00	2.49	1.26	5.30	3.25	3.43	3.16	3.03	4.12	4.35	2.63	2.33	40.35
2014	3.12	2.82	1.69	2.35	5.10	9.14	1.79	2.20	2.71	5.68	3.37	1.47	41.44
POR= 119 YRS	2.35	1.87	2.75	3.41	3.63	3.69	3.45	3.54	3.38	3.14	2.86	2.61	36.68

WBAN : 14848

**AVERAGE TEMPERATURE (°F) 2014 SOUTH BEND (KSBN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	19.6	23.7	41.3	55.2	63.1	66.8	73.1	69.8	65.6	54.6	41.6	20.1	49.5
1986	25.8	24.8	40.4	51.3	59.9	67.7	74.8	67.6	65.9	53.0	36.1	31.2	49.9
1987	25.3	30.8	40.0	50.4	64.7	72.8	75.8	71.7	64.6	46.8	43.7	32.8	51.6
1988	21.3	22.7	37.3	48.4	62.2	72.0	76.4	75.9	64.5	45.9	42.5	28.8	49.8
1989	33.4	22.2	37.0	47.3	57.2	68.0	73.9	70.6	61.8	52.9	38.8	17.7	48.4
1990	34.0	31.3	40.9	48.7	56.7	68.8	71.2	69.9	65.0	52.3	45.9	31.8	51.4
1991	24.2	32.3	41.5	52.6	67.5	74.0	75.7	73.2	63.2	54.9	36.6	32.1	52.3
1992	29.1	33.2	37.4	46.1	58.4	65.1	70.0	67.4	62.3	51.4	40.0	30.9	49.3
1993	28.3	24.4	35.0	46.9	60.7	67.7	74.5	73.6	58.9	50.5	39.4	29.7	49.1
1994	16.3	22.5	36.6	51.0	57.4	71.4	72.9	67.9	65.0	54.0	44.6	35.1	49.6
1995	25.3	25.3	40.3	46.5	57.9	71.3	74.9	77.2	62.2	54.3	34.8	26.0	49.7
1996	24.1	27.8	32.3	46.0	57.3	68.9	68.5	71.1	62.6	52.4	33.8	29.4	47.9
1997	20.6	29.6	37.6	43.7	52.5	68.3	72.2	67.9	62.4	51.6	36.2	30.7	47.8
1998	31.6	37.0	38.6	49.5	65.0	68.3	72.5	73.0	67.4	53.8	43.6	34.6	52.9
1999	22.7	33.0	33.5	51.0	62.7	71.3	78.0	70.1	64.9	52.6	45.9	31.9	51.5
2000	25.5	35.0	44.1	46.7	61.4	67.4	70.0	70.9	63.1	55.7	37.4	17.1	49.5
2001	24.7	28.1	34.1	53.7	61.2	67.3	72.4	72.9	61.8	52.7	48.6	35.1	51.1
2002	32.7	33.0	34.2	49.8	54.3	71.2	76.8	72.8	68.1	49.8	38.1	28.7	50.8
2003	20.3	23.1	37.9	50.4	56.0	66.1	71.1	72.9	62.4	51.1	43.3	32.1	48.9
2004	21.1	27.0	41.5	50.9	61.8	67.1	71.3	67.4	66.1	52.3	42.4	29.3	49.9
2005	23.9	30.9	33.0	52.2	57.2	73.9	74.5	73.3	67.7	53.4	42.5	24.1	50.6
2006	35.9	28.8	37.7	52.2	57.7	67.7	74.6	71.4	61.4	48.8	42.7	35.6	51.2
2007	29.0	17.8	42.4	47.0	64.6	71.3	72.2	73.0	67.5	59.0	39.8	29.5	51.1
2008	24.7	23.9	34.3	50.6	56.0	70.3	73.0	70.5	65.9	51.7	38.3	26.0	48.8
2009	15.6	28.7	40.1	48.4	59.2	69.1	68.3	69.3	64.0	48.8	44.2	27.6	48.6
2010	23.0	25.7	41.7	54.3	61.3	70.2	75.6	74.7	63.9	53.9	41.3	24.8	50.9
2011	21.2	25.6	36.2	48.9	60.4	70.3	77.5	72.3	61.9	53.3	45.0	35.1	50.6
2012	29.4	32.2	52.8	49.5	64.7	71.5	79.5	70.3	63.0	50.8	40.1	36.4	53.4
2013	27.7	27.3	32.0	46.8	62.9	69.0	71.8	70.4	65.6	53.5	38.4	26.1	49.3
2014	17.1	18.4	30.0	49.2	60.7	71.4	68.7	72.6	63.2	52.4	34.4	33.2	47.6
POR= 118 YRS	24.4	25.2	36.6	47.8	59.2	68.0	73.2	71.4	63.5	52.9	39.4	28.7	49.2

**HEATING DEGREE DAYS (base 65°F) 2014 SOUTH BEND (KSBN)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	0	4	121	319	694	1381	1208	1117	760	425	192	46	6267
1986-87	3	48	81	369	858	1038	1224	950	766	436	139	16	5928
1987-88	5	25	78	558	638	993	1347	1220	851	498	158	37	6408
1988-89	1	11	72	581	670	1116	972	1190	865	528	271	40	6317
1989-90	0	12	147	381	779	1462	954	936	751	521	257	46	6246
1990-91	6	14	110	408	565	1021	1260	910	722	378	106	2	5502
1991-92	0	1	167	318	844	1012	1104	915	850	561	247	75	6094
1992-93	6	25	139	417	742	1049	1130	1130	925	536	157	55	6311
1993-94	0	7	198	450	765	1087	1505	1186	875	441	273	28	6815
1994-95	0	30	92	336	606	921	1224	1105	759	548	221	20	5862
1995-96	7	0	135	337	896	1202	1258	1072	1005	566	276	23	6777
1996-97	22	1	140	384	928	1098	1368	983	844	631	383	39	6821
1997-98	12	20	120	437	858	1057	1026	775	824	458	74	80	5741
1998-99	0	0	52	346	632	936	1304	893	968	412	134	41	5718
1999-00	0	3	92	377	566	1020	1218	863	646	540	167	59	5551
2000-01	7	6	153	291	820	1476	1242	1026	951	342	168	87	6569
2001-02	22	0	139	381	489	923	993	891	948	487	347	25	5645
2002-03	0	2	41	487	800	1116	1376	1167	832	441	279	62	6603
2003-04	0	2	136	427	643	1012	1356	1096	719	441	177	44	6053
2004-05	1	43	56	387	670	1101	1267	948	984	384	250	17	6108
2005-06	2	3	50	385	666	1260	894	1007	840	377	282	26	5792
2006-07	1	1	127	498	663	906	1107	1318	702	537	97	22	5979
2007-08	0	7	63	235	751	1091	1240	1185	944	429	285	19	6249
2008-09	0	4	45	417	796	1201	1526	1010	763	500	205	33	6500
2009-10	12	33	74	495	614	1153	1294	1094	712	333	186	21	6021
2010-11	2	3	99	349	705	1241	1349	1098	886	482	205	12	6431
2011-12	0	0	157	372	594	920	1094	946	417	459	115	29	5103
2012-13	0	10	133	440	738	879	1148	1049	1014	544	148	37	6140
2013-14	14	15	91	379	790	1197	1478	1293	1076	469	208	17	7027
2014-	18	10	120	385	909	978							

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**COOLING DEGREE DAYS (base 65°F) 2014 SOUTH BEND (KSBN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1985	0	0	0	52	64	109	260	159	147	3	0	0	794
1986	0	0	4	22	41	135	312	136	113	2	0	0	765
1987	0	0	0	3	136	256	345	240	71	0	3	0	1054
1988	0	0	0	3	77	254	362	357	65	0	0	0	1118
1989	0	0	1	6	37	137	283	194	55	11	0	0	724
1990	0	0	9	37	8	167	203	171	117	21	0	0	733
1991	0	0	0	13	189	281	338	264	121	11	0	0	1217
1992	0	0	0	2	50	90	168	103	66	2	0	0	481
1993	0	0	0	0	29	144	302	284	18	9	0	0	786
1994	0	0	0	26	45	226	255	124	98	2	0	0	776
1995	0	0	0	0	9	216	320	382	57	10	0	0	994
1996	0	0	0	1	44	147	136	201	74	0	0	0	603
1997	0	0	0	0	0	146	241	117	48	29	0	0	581
1998	0	0	9	0	82	185	238	253	131	8	0	0	906
1999	0	0	0	0	67	236	410	166	96	3	0	0	978
2000	0	0	4	0	62	138	171	197	102	9	0	0	683
2001	0	0	0	11	56	164	259	253	53	6	0	0	802
2002	0	0	0	40	24	218	372	252	144	21	0	0	1071
2003	0	0	0	10	7	103	197	255	63	2	0	0	637
2004	0	0	0	27	85	117	204	123	96	3	0	0	655
2005	0	0	0	7	16	288	303	266	138	33	0	0	1051
2006	0	0	0	3	60	117	304	202	26	3	0	0	715
2007	0	0	9	3	90	217	232	261	145	57	0	0	1014
2008	0	0	0	6	13	184	256	179	81	10	0	0	729
2009	0	0	0	11	32	162	123	173	48	0	0	0	549
2010	0	0	0	21	81	185	342	307	74	12	0	0	1022
2011	0	0	0	7	71	181	395	232	72	11	0	0	969
2012	0	0	44	2	112	232	458	180	80	7	0	0	1115
2013	0	0	0	5	91	165	229	190	118	30	0	0	828
2014	0	0	0	2	83	216	140	252	74	4	0	0	771

**SNOWFALL (inches) 2014 SOUTH BEND (KSBN)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	0.0	0.0	0.0	0.0	2.2	40.4	26.3	11.3	3.6	0.2	0.0	0.0	84.0
1986-87	0.0	0.0	0.0	0.0	9.7	4.8	31.4	5.9	2.0	1.5	0.0	0.0	55.3
1987-88	0.0	0.0	T	T	1.6	13.1	11.4	22.9	12.1	T	0.0	0.0	61.1
1988-89	0.0	0.0	0.0	0.3	7.8	14.8	3.1	16.3	2.5	1.7	T	T	46.5
1989-90	T	T	0.0	8.8	15.2	29.4	1.2	13.9	3.4	1.1	0.0	0.0	73.0
1990-91	0.0	0.0	0.0	T	T	17.5	15.7	23.4	2.4	T	T	0.0	59.0
1991-92	0.0	0.0	0.0	T	7.6	11.7	19.9	10.9	16.7	0.9	0.0	T	67.7
1992-93	0.0	0.0	0.0	1.2	7.7	12.6	8.1	32.2	19.0	1.4	0.0	0.0	82.2
1993-94	0.0	0.0	0.1	T	2.2	11.3	21.5	20.0	0.1	0.8	T	0.0	56.0
1994-95	T	0.0	1.0	0.0	T	2.4	17.3	25.8	2.8	0.6	0.0	0.0	49.9
1995-96	0.0	0.0	0.0	T	6.2	22.1	12.2	7.9	8.3	0.9	T	0.0	57.6
1996-97	T	T	0.0	0.0	15.3	10.5	36.4	10.2	3.3	0.4	T	0.0	76.1
1997-98	0.0	0.0	0.0	0.2	5.6	18.1	7.8	T	20.8	0.0	0.0	T	52.5
1998-99	T	0.0	0.0	0.0	T	17.1	37.0	10.4	14.2	T	T	0.0	78.7
1999-00	0.0	0.0	0.0	0.0	1.9	7.4	37.1	11.4	T	1.1	0.0	0.0	58.9
2000-01	T	0.0	0.0	T	10.4	44.6	2.9	5.4	10.6	2.7	T	0.0	76.6
2001-02	T	0.0	0.0	T	0.0	19.5	10.4	18.4	14.2	0.3	0.0	0.0	62.8
2002-03	0.0	0.0	0.0	T	4.6	9.0	27.2	14.5	3.8	1.0	0.0	0.0	60.1
2003-04	T	0.0	0.0	0.0	0.2	10.5	27.6	5.3	0.7	T	0.0	0.0	44.3
2004-05	T	0.0	0.0	0.0	5.0	20.1	28.8	8.0	15.4	1.1	T	0.0	78.4
2005-06	0.0	0.0	0.0	0.0	6.0	19.1	3.4	5.9	3.6	0.0	0.0	T	38.0
2006-07	T	0.0	0.0	1.8	0.2	4.0	25.3	17.6	9.5	6.1	0.0	0.0	64.5
2007-08	0.0	0.0	0.0	T	2.6	18.4	25.3	26.7	2.9	T	0.0	T	75.9
2008-09	0.0	0.0	0.0	0.7	16.2	16.8	29.4	12.0	0.1	2.0	0.0	0.0	77.2
2009-10	0.0	0.0	0.0	T	0.0	11.5	27.4	18.4	T	T	0.0	0.0	57.3
2010-11	0.0	0.0	0.0	0.0	1.3	23.6	53.8	25.5	1.4	T	0.0	0.0	105.6
2011-12	T	0.0	0.0	T	T	5.7	35.0	9.0	1.5	T	0.0	0.0	51.2
2012-13	0.0	0.0	0.0	0.0	T	9.1							
2013-14													
2014-					19.1	0.2							
POR= 79 YRS	T	T	T	1.2	6.6	14.6	17.0	12.2	8.0	2.0	0.2	T	61.8

WBAN : 14848

**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: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> 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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# 2014

## SOUTH BEND

### INDIANA (KSBN)

South Bend is located on the Saint Joseph River in the northern portion of Saint Joseph County, situated on mostly level to gently rolling terrain and some former marshland. Drainage for the area is through the Saint Joseph River and Kankakee River.

South Bend is under the climatic influence of Lake Michigan with its nearest shore 20 miles to the northwest. The lake has a moderating effect on the temperature. Temperatures of 100 degrees or higher are rare and cold waves are less severe than at many locations at the same latitude. This results in favorable conditions for orchard and vegetable growth.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 18 and the average last occurrence in the spring is May 1.

Precipitation is fairly evenly distributed throughout the year with the greatest amounts during the growing season. The predominant snow season is from November through March, although there are also generally lighter amounts in October and April.

Winter is marked by considerable cloudiness and rather high humidity along with frequent periods of snow. Heavy snowfalls, resulting from a cold northwest wind passing over Lake Michigan are not uncommon.

# Station History

SOUTH BEND, IN

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
SOUTH BEND BENDIX MUNICIPAL AP	1938-01-01	1940-01-01	41° 42'	-86° 19'	774		AIRWAYS, COOP
SOUTH BEND BENDIX MUNICIPAL AP	1929-11-01	1933-01-01	41° 45'	-86° 10'	801		AIRWAYS, COOP
SOUTH BEND ST JOSEPH COUNTY AP	1942-11-22	1963-08-01	41° 42'	-86° 19'	768		AIRWAYS, COOP
SOUTH BEND ST JOSEPH COUNTY AP	1963-08-01	1969-01-01	41° 42'	-86° 19'	773		AIRWAYS, COOP
SOUTH BEND MICHIANA REGIONAL AP	2012-01-01	Present	41° 42'	-86° 18'	773		AIRWAYS, ASOS, COOP
SOUTH BEND ST JOSEPH COUNTY AP	1969-01-01	1976-07-01	41° 42'	-86° 19'	773		COOP, WXSVC
SOUTH BEND MICHIANA REGIONAL AP	1976-07-01	1981-12-31	41° 42'	-86° 19'	773		COOP, WXSVC
SOUTH BEND MICHIANA REGIONAL AP	1996-07-01	2009-02-18	41° 42'	-86° 19'	773		ASOS, COOP
SOUTH BEND BENDIX MUNICIPAL AP	1933-01-01	1938-01-01	41° 42'	-86° 19'	768		AIRWAYS, COOP
SOUTH BEND MICHIANA REGIONAL AP	1981-12-31	1996-07-01	41° 42'	-86° 19'	773		COOP
SOUTH BEND MICHIANA REGIONAL AP	2010-03-16	2012-01-01	41° 42'	-86° 18'	773		AIRWAYS, ASOS, COOP
SOUTH BEND BENDIX MUNICIPAL AP	1940-01-01	1942-02-10	41° 42'	-86° 19'	771		AIRWAYS, COOP
SOUTH BEND ST JOSEPH COUNTY AP	1942-02-10	1942-11-22	41° 42'	-86° 19'	771		AIRWAYS, COOP
SOUTH BEND MICHIANA REGIONAL AP	2009-02-18	2010-03-16	41° 42'	-86° 18'	773		ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1988-07-08	1995-07-01	HOURLY	2400			
WIND	2009-02-18	2010-03-16	DAILY	2400	WINDX		
PRECIP	1982-01-01	1988-07-08	DAILY	2400	UNIV	RCRD	
TEMP	1996-07-01	2006-09-27	DAILY	2400	MXMN		
PRECIP	2006-09-27	2009-02-18	HOURLY	2400	UNIV	RCRD	
PRECIP	2009-02-18	2010-03-16	HOURLY	2400	AWPAG	RCRD;HTD	
WIND	2010-03-16	Present	DAILY	2400	WINDX		
PRECIP	1929-11-01	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1988-07-08	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1988-07-08	1995-07-01	DAILY	2400	MXMN		
PRECIP	2010-03-16	Present	DAILY	2400	PCPNX	SHLD	
TEMP	1929-11-01	1982-01-01	DAILY	2400			
PRECIP	1995-07-01	1996-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	2006-09-27	2009-02-18	DAILY	2400	UNIV	RCRD	
DEWPNTTEMP	2009-02-18	2010-03-16	DAILY	2400	ATEMP		
TEMP	2010-03-16	Present	DAILY	2400	ATEMP		
WIND	2006-09-27	2009-02-18	HOURLY	UNKN	ANEMSONIC		
TEMP	2006-09-27	2009-02-18	DAILY	2400	MXMN		
TEMP	1995-07-01	1996-07-01	DAILY	2400	MXMN		
WIND	1996-07-01	2006-09-27	HOURLY	UNKN	ANEMCUP		
PRECIP	2009-02-18	2010-03-16	DAILY	2400	PCPNX		
WIND	2009-02-18	2010-03-16	HOURLY	UNKN	ANEMSONIC		
TEMP	1982-01-01	1988-07-08	DAILY	2400			
PRECIP	1995-07-01	1996-07-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1996-07-01	2006-09-27	DAILY	2400	UNIV	RCRD	
TEMP	2009-02-18	2010-03-16	DAILY	2400	ATEMP		
DEWPNTTEMP	2010-03-16	Present	DAILY	2400	ATEMP		
PRECIP	1982-01-01	1988-07-08	HOURLY	2400			
PRECIP	1996-07-01	2006-09-27	HOURLY	2400	UNIV	RCRD	
PRECIP	2010-03-16	Present	HOURLY	2400	AWPAG	SHLD;RCRD;HTD	
WIND	2010-03-16	Present	HOURLY	UNKN	ANEMSONIC		

\* 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

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