

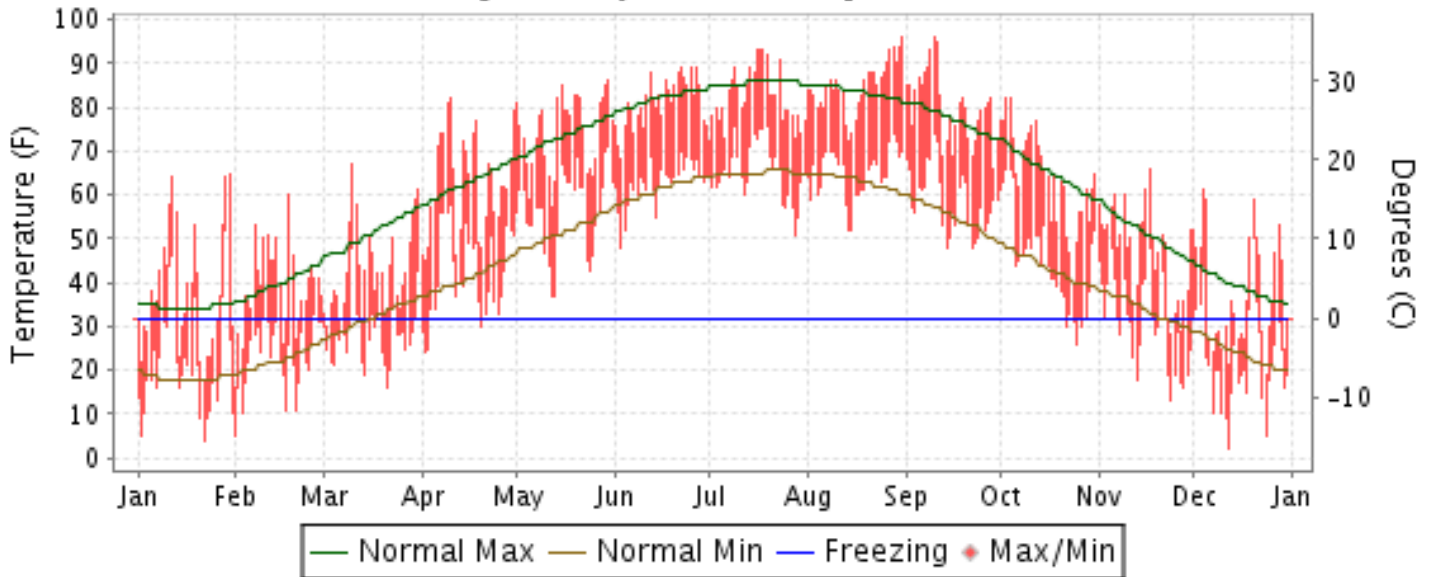


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

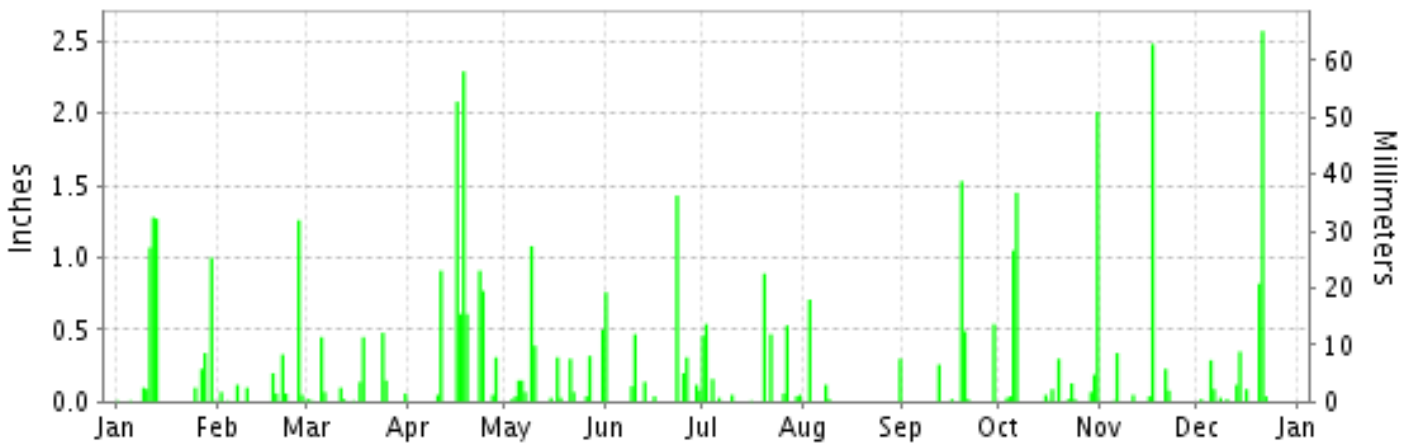
ISSN 0198-1986

## INDIANAPOLIS, INDIANA (KIND)

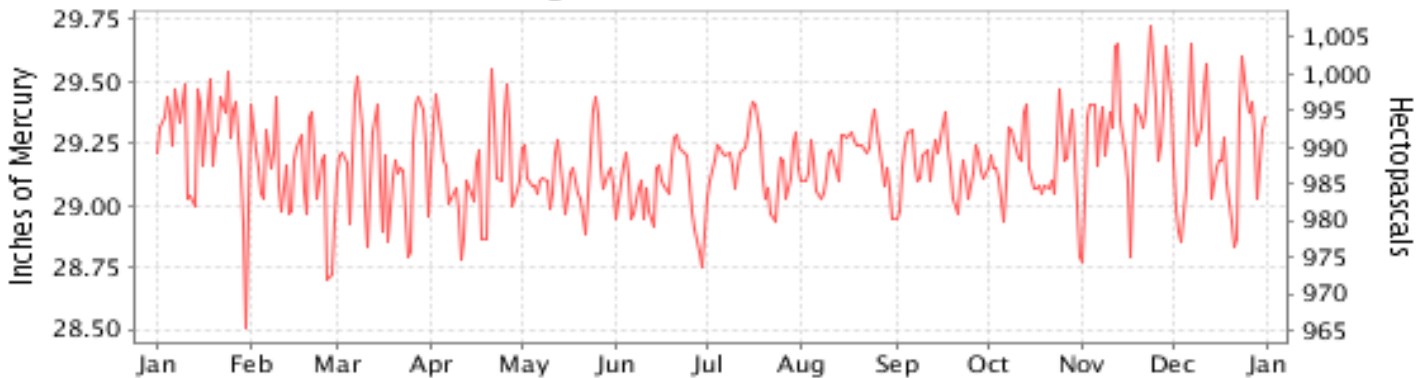
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2013

## INDIANAPOLIS (KIND)

LATITUDE: 39° 43'N      LONGITUDE: 86° 16'W      ELEVATION (FT): GRND: 790 BARO: 797      TIME ZONE: EASTERN (UTC -5)      WBAN: 93819

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	38.3	38.9	43.1	62.9	74.4	81.2	82.4	84.9	80.1	64.3	47.4	37.4	61.3	
	HIGHEST DAILY MAXIMUM	65	60	67	82	86	89	93	96	96	82	66	61	96	
	DATE OF OCCURRENCE	30	18	10	10	30	27+	18+	31	10	04+	17	04	SEP 10	
	MEAN DAILY MINIMUM	21.5	23.0	27.9	42.2	56.3	62.7	65.4	65.0	58.9	44.9	31.0	22.5	43.4	
	LOWEST DAILY MINIMUM	4	5	16	24	37	48	51	52	48	26	13	2	2	
	DATE OF OCCURRENCE	22	01	21	02	13+	03	28	15+	22+	25	24	12	DEC 12	
	AVERAGE DRY BULB	29.9	30.9	35.5	52.6	65.4	72.0	73.9	74.9	69.5	54.6	39.2	29.9	52.4	
	MEAN WET BULB	27.9	27.8	31.5	46.4	58.9	64.9	67.1	66.2	61.3	49.9	35.2	27.7	47.1	
	MEAN DEW POINT	23.1	23.1	25.3	39.1	54.0	60.4	63.1	61.2	56.0	45.4	28.9	23.3	41.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	5	6	3	0	0	0	14
MAXIMUM <= 32°	13	7	3	0	0	0	0	0	0	0	0	3	15	41	
MINIMUM <= 32°	26	27	26	4	0	0	0	0	0	0	6	19	25	133	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	1083	947	906	376	103	9	3	5	26	346	764	1079	5647	
	COOLING DEGREE DAYS	0	0	0	9	120	226	285	319	170	31	0	0	1160	
RH	MEAN (PERCENT)	76	75	69	64	69	70	71	66	66	74	68	78	71	
	HOUR 01 LST	80	79	77	72	79	79	81	79	78	83	74	80	78	
	HOUR 07 LST	84	82	80	71	77	77	77	77	79	86	77	82	79	
	HOUR 13 LST	67	68	58	54	58	56	58	47	49	59	55	71	58	
	HOUR 19 LST	74	75	67	60	65	65	67	62	61	70	66	78	68	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	2	0	0	1	2	1	0	1	1	1	12	
	THUNDERSTORMS	3	0	1	6	7	8	6	4	2	2	2	1	42	
PR	MEAN STATION PRESS. (IN.)	29.27	29.12	29.15	29.15	29.12	29.06	29.17	29.18	29.16	29.17	29.32	29.23	29.18	
	MEAN SEA-LEVEL PRESS. (IN.)	30.17	30.02	30.04	30.01	29.98	29.91	30.02	30.04	30.02	30.04	30.22	30.13	30.05	
WINDS	RESULTANT SPEED (MPH)	5.1	4.4	3.7	3.8	4.1	2.2	1.3	1.0	0.5	3.6	4.1	4.8	2.8	
	RES. DIR. (TENS OF DEGS.)	24	25	29	20	19	23	23	30	19	22	24	24	24	
	MEAN SPEED (MPH)	10.5	11.2	10.5	10.8	9.6	8.4	7.5	6.7	7.4	7.7	10.3	10.2	9.2	
	PREVAIL.DIR.(TENS OF DEGS.)	22	27	30	14	18	21	21	03	21	21	31	21	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	43	40	36	33	41	46	33	36	28	44	49	29	49	
	DIR. (TENS OF DEGS.)	32	24	26	20	29	23	26	05	27	24	22	25	22	
	DATE OF OCCURRENCE	30	19	31	18	21	23	20	31	10	31	17	10	NOV 17	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	48	59	45	41	55	55	41	44	35	58	67	36	67	
DIR. (TENS OF DEGS.)	18	24	25	21	27	23	26	05	19	23	22	21	22		
DATE OF OCCURRENCE	30	19	31	18	21	23	20	31	10	31	17	20	NOV 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	5.51	2.27	1.96	8.59	3.50	3.66	3.29	1.15	2.86	5.46	3.23	4.44	45.92	
	GREATEST 24-HOUR (IN.)	2.55	1.26	0.62	2.89	1.11	1.43	0.89	0.71	1.53	2.01	2.52	2.95	2.95	
	DATE OF OCCURRENCE	12-13	26	24-25	18-19	09-10	23	20	03	19	31	16-17	20-21	DEC 20-21	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	12	11	12	10	15	10	12	4	6	14	7	11	124		
PRECIPITATION 0.10	8	5	6	8	8	8	6	3	4	6	3	5	70		
PRECIPITATION 1.00	4	1	0	2	1	1	0	0	1	3	1	1	15		
SNOWFALL	SNOW,ICE PELLETS,HAIL	2.4	2.6	14.5	T	0.0	0.0	0.0	0.0	0.0	T	0.1	8.8	28.4	
	TOTAL (IN.)	1.2	1.3	6.2	T	0.0	0.0	0.0	0.0	0.0	T	0.1	2.9	6.2	
	GREATEST 24-HOUR (IN.)	25	02	24	19		23				24+	11	05	MAR 24	
	DATE OF OCCURRENCE	6	1	7	0	0	0	0	0	0	0	T	5	7	
	MAXIMUM SNOW DEPTH (IN.)	01	05+	25								12	18+	MAR 25	
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	1	4	0	0	0	0	0	0	0	0	5	11		

# NORMALS, MEANS, AND EXTREMES INDIANAPOLIS (KIND)

**LATITUDE:** 39° 43'N      **LONGITUDE:** 86° 16'W      **ELEVATION (FT):** GRND: 790 BARO: 797      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 93819**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	35.6	40.2	51.7	63.4	72.8	81.9	85.0	84.0	77.6	65.3	52.2	38.9	62.4
	MEAN DAILY MAXIMUM	71	35.5	39.5	50.7	63.1	73.2	82.0	85.4	84.1	77.4	66.0	51.3	39.2	62.3
	HIGHEST DAILY MAXIMUM	75	71	76	85	89	93	104	105	102	100	91	81	71	105
	YEAR OF OCCURRENCE		1950	2000	1981	1970	1988	2012	2012	1988	2011	2007	1950	1950	JUL 2012
	MEAN OF EXTREME MAXS.	82	57.9	62.0	74.2	81.7	86.9	92.4	93.9	92.7	90.2	82.1	71.1	61.2	78.9
	NORMAL DAILY MINIMUM	30	20.5	23.9	32.8	42.7	52.6	62.1	65.8	64.4	56.2	44.7	35.1	24.4	43.8
	MEAN DAILY MINIMUM	71	19.5	22.5	31.8	41.9	52.1	61.3	65.3	63.5	55.5	44.2	33.8	24.1	43.0
	LOWEST DAILY MINIMUM	75	-27	-21	-7	16	28	-27	44	41	28	17	-2	-27	-27
	YEAR OF OCCURRENCE		1994	1982	1980	1940	1966	1994	1942	1965	1942	1942	1958	1994	DEC 1994
	MEAN OF EXTREME MINS.	82	-2.8	2.1	13.3	26.3	36.8	47.8	54.2	52.5	40.1	28.7	17.9	3.3	26.7
	NORMAL DRY BULB	30	28.1	32.1	42.2	53.0	62.7	72.0	75.4	74.2	66.9	55.0	43.6	31.6	53.1
	MEAN DRY BULB	71	27.5	31.0	41.3	52.5	62.7	71.7	75.4	73.8	66.5	55.1	42.6	31.6	52.6
	MEAN WET BULB	29	25.6	28.2	36.0	45.4	55.4	63.7	67.4	66.1	59.0	48.0	38.3	28.9	46.8
	MEAN DEW POINT	29	23.3	25.5	33.2	42.7	53.2	61.9	66.1	65.0	57.3	45.9	36.3	27.0	44.8
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.1	2.7	5.2	5.0	1.5	0.1	0.0	0.0	14.6
	MAXIMUM <= 32	30	11.6	6.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.1	28.6
MINIMUM <= 32	30	25.4	21.8	15.3	3.8	0.2	0.0	0.0	0.0	0.0	2.3	11.8	23.0	103.6	
MINIMUM <= 0	30	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.1	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1145	922	707	372	140	16	1	3	71	326	641	1034	5378
	NORMAL COOLING DEG. DAYS	30	0	0	2	13	69	226	323	288	128	16	1	0	1066
<b>RH</b>	NORMAL (PERCENT)	30	77	75	70	67	68	70	73	76	74	72	75	79	73
	HOURLY 01 LST	30	80	78	75	74	77	81	84	87	85	81	80	81	80
	HOURLY 07 LST	30	82	82	80	79	82	83	87	91	91	87	84	84	84
	HOURLY 13 LST	30	72	68	61	56	56	57	59	61	58	57	66	72	62
	HOURLY 19 LST	30	75	71	65	59	58	59	63	67	66	65	72	77	66
<b>S</b>	PERCENT POSSIBLE SUNSHINE	52	40	49	50	54	60	40	66	68	65	61	41	40	53
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	2.8	2.1	1.3	0.5	0.7	0.6	0.8	1.2	1.3	1.1	1.2	2.2	15.8
	THUNDERSTORMS	66	0.8	0.8	2.7	4.4	6.5	7.6	7.5	5.9	3.4	1.8	1.1	0.4	42.9
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
<b>PR</b>	MEAN STATION PRESSURE(IN)	30	29.22	29.21	29.17	29.10	29.12	29.11	29.15	29.17	29.19	29.20	29.22	29.23	29.17
	MEAN SEA-LEVEL PRES. (IN)	30	30.12	30.10	30.05	29.97	29.97	29.96	29.99	30.02	30.05	30.07	30.10	30.12	30.04
<b>WINDS</b>	MEAN SPEED (MPH)	30	10.9	10.7	11.1	11.1	9.5	8.4	7.6	7.2	7.9	8.9	10.2	10.4	9.5
	PREVAIL.DIR.(TENS OF DEGS)	43	25	25	25	24	24	23	24	23	21	23	24	25	24
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	44	48	48	52	60	47	49	53	49	44	49	45	60
	DIR. (TENS OF DEGS)		26	22	17	29	19	27	28	27	29	24	22	25	19
	YEAR OF OCCURRENCE		2008	2009	2012	2006	2009	2009	1998	2009	2008	2013	2013	2009	MAY 2009
	MAXIMUM 3-SECOND SPEED (MPH)	18	58	60	62	85	70	58	61	67	63	58	67	58	85
	DIR. (TENS OF DEGS)		25	23	25	28	19	24	31	27	28	23	22	25	28
	YEAR OF OCCURRENCE		2008	2009	2002	2006	2009	2010	2008	2009	2008	2013	2013	2009	APR 2006
<b>PRECIPITATION</b>	NORMAL (IN)	30	2.66	2.32	3.56	3.81	5.05	4.25	4.55	3.13	3.12	3.12	3.70	3.17	42.44
	MAXIMUM MONTHLY (IN)	75	12.69	5.35	10.74	8.59	10.10	12.69	11.79	8.34	10.37	8.36	8.50	12.69	12.69
	YEAR OF OCCURRENCE		1950	1971	1963	2013	1943	1950	1992	1980	2003	1941	1985	1950	JAN 1950
	MINIMUM MONTHLY (IN)	75	0.21	0.36	0.64	0.98	1.06	0.09	0.47	0.37	0.24	0.17	0.69	0.21	0.09
	YEAR OF OCCURRENCE		1944	1978	2001	1976	1988	2012	2011	2010	1963	1963	1999	1944	JUN 2012
	MAXIMUM IN 24 HOURS (IN)	75	3.47	2.50	3.05	3.11	3.80	3.58	5.32	4.72	7.31	3.90	4.15	3.47	7.31
	YEAR OF OCCURRENCE		1950	1977	1963	2011	2004	2010	1987	1976	2003	1959	1993	1950	SEP 2003
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	12.1	10.0	11.9	12.0	13.1	11.1	10.5	8.5	8.1	8.6	10.8	12.5	129.2
PRECIPITATION >= 1.00	30	0.4	0.4	0.8	0.8	1.3	1.1	1.4	0.9	0.8	0.8	1.0	0.6	10.3	
<b>SNOWFALL</b>	NORMAL (IN)	30	8.6	6.5	2.6	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.7	6.9	25.9
	MAXIMUM MONTHLY (IN)	83	30.6	21.7	14.5	4.0	0.2	30.6	0.0	T	T	9.3	8.3	30.6	30.6
	YEAR OF OCCURRENCE		1978	2003	2013	1940	1989	1978		1989	2012	1989	1966	1978	DEC 1978
	MAXIMUM IN 24 HOURS (IN)	72	12.2	12.5	11.3	3.1	0.2	12.2	0.0	T	T	7.5	8.2	12.2	12.5
	YEAR OF OCCURRENCE		1978	1965	1996	1953	1989	1978		1989	2012	1989	1966	1978	FEB 1965
	MAXIMUM SNOW DEPTH (IN)	66	20	15	9	3	0	20	0	0	0	2	8	20	20
	YEAR OF OCCURRENCE		1978	1978	1960	1953		1978				1989	1966	1978	DEC 1978
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.5	2.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	2.2	7.8	

**PRECIPITATION (inches) 2013 INDIANAPOLIS (KIND)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.97	3.16	3.14	3.90	4.35	1.51	4.83	3.27	4.69	2.60	5.38	4.33	42.13
1985	1.37	3.73	5.94	2.60	4.60	3.06	4.06	5.29	2.71	1.82	8.50	3.30	46.98
1986	0.73	2.84	3.93	4.34	7.37	3.58	4.88	1.18	5.68	7.84	2.32	1.71	46.40
1987	1.55	1.28	1.84	2.68	1.77	4.11	9.22	0.86	1.41	1.36	2.60	4.77	33.45
1988	2.35	3.04	3.22	4.02	1.06	0.36	4.71	1.46	1.14	3.07	4.39	2.50	31.32
1989	1.75	1.32	3.72	4.32	5.79	3.80	6.15	8.05	8.06	2.92	2.79	1.90	50.57
1990	1.79	5.17	3.93	2.44	7.59	3.11	3.68	4.46	2.68	4.64	3.23	7.72	50.44
1991	1.59	1.94	6.41	4.34	4.64	0.91	2.17	3.54	1.12	5.47	3.95	1.45	37.53
1992	1.40	1.15	2.61	4.17	1.56	4.07	11.79	1.42	3.40	2.84	7.88	1.89	44.18
1993	3.29	2.31	3.72	3.75	2.76	5.15	4.94	6.42	5.69	2.25	8.30	2.18	50.76
1994	2.68	1.39	0.92	5.62	2.03	7.00	1.27	2.59	2.19	0.86	3.40	1.66	31.61
1995	2.44	0.90	2.99	2.79	7.37	3.49	2.61	4.16	1.27	2.08	2.64	2.72	35.46
1996	4.08	1.16	3.51	7.02	8.89	5.16	6.26	2.27	7.61	1.88	6.22	2.75	56.81
1997	4.47	3.92	4.59	1.97	4.93	3.17	0.55	2.96	1.51	1.55	1.94	1.33	32.89
1998	2.51	1.23	5.49	4.84	6.13	10.26	3.97	3.66	0.48	4.89	2.52	1.00	46.98
1999	6.35	3.57	1.71	4.09	3.75	2.57	2.96	1.50	0.75	1.82	0.69	2.61	32.37
2000	2.07	2.86	1.64	3.80	5.00	4.55	2.95	4.26	4.82	3.08	2.67	2.76	40.46
2001	0.74	1.95	0.64	1.82	4.10	4.46	8.34	2.47	4.66	7.01	2.69	3.01	41.89
2002	2.48	1.67	4.22	5.47	7.46	3.11	1.65	1.42	3.70	2.64	2.89	3.02	39.73
2003	1.27	3.45	3.72	2.55	6.39	2.36	8.01	4.64	10.37	2.68	3.64	3.48	52.56
2004	4.65	0.77	4.33	1.54	8.55	4.44	7.72	4.73	0.75	4.31	5.14	1.95	48.88
2005	9.39	2.59	1.14	4.69	2.51	3.59	2.98	4.20	4.67	1.64	3.64	2.69	43.73
2006	3.30	1.89	6.79	3.63	4.34	5.63	3.98	3.01	3.53	5.45	4.25	5.24	51.04
2007	4.41	2.77	4.91	3.30	1.97	2.22	1.90	3.43	1.59	2.80	1.85	5.55	36.70
2008	2.14	4.34	7.49	1.54	5.54	8.00	6.58	1.83	2.04	1.97	1.97	5.58	49.02
2009	1.72	2.69	2.28	7.23	6.69	6.60	4.60	4.94	1.86	5.59	1.16	3.30	48.66
2010	1.22	0.97	3.09	2.97	4.43	9.73	2.87	0.37	0.56	1.32	4.46	1.86	33.85
2011	2.20	5.25	3.73	7.98	4.97	5.76	0.47	1.11	5.37	2.82	4.87	5.10	49.63
2012	3.48	1.38	4.14	3.36	2.70	0.09	0.83	6.51	7.73	3.87	1.33	2.58	38.00
2013	5.51	2.27	1.96	8.59	3.50	3.66	3.29	1.15	2.86	5.46	3.23	4.44	45.92
POR= 82 YRS	2.86	2.37	3.61	3.86	4.24	4.24	4.01	3.30	3.16	2.79	3.27	3.00	40.71

WBAN : 93819

**AVERAGE TEMPERATURE (°F) 2013 INDIANAPOLIS (KIND)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	22.8	37.3	33.0	50.0	58.8	75.3	72.4	74.3	64.2	61.3	43.0	38.9	52.6
1985	20.4	26.1	44.6	57.1	64.9	70.6	74.3	71.2	66.2	57.6	46.6	22.5	51.8
1986	28.5	31.4	43.9	53.8	63.5	72.8	77.5	70.1	69.8	55.6	39.8	32.3	53.3
1987	27.6	35.5	44.5	52.5	68.1	73.7	75.8	73.6	68.1	48.6	46.3	35.8	54.2
1988	25.9	27.2	41.4	51.9	64.4	73.4	78.3	77.5	67.3	48.2	44.2	31.7	52.6
1989	36.3	27.2	42.5	51.4	59.4	71.4	75.7	71.8	64.4	55.4	40.9	18.8	51.3
1990	37.3	37.6	46.2	51.4	60.1	71.3	73.9	72.5	66.9	53.9	47.5	34.6	54.4
1991	26.9	35.3	43.7	55.3	68.3	74.6	76.7	75.2	67.9	57.5	40.2	35.7	54.8
1992	31.5	38.4	43.2	52.1	60.5	68.1	73.5	69.5	65.1	53.4	43.2	33.3	52.7
1993	31.6	27.4	39.1	50.7	63.5	71.0	77.2	75.3	62.2	51.6	42.2	32.4	52.0
1994	21.8	29.7	41.0	54.1	60.4	75.0	75.5	71.8	66.5	57.0	48.6	38.9	53.4
1995	28.6	30.0	45.0	51.9	61.6	72.8	76.6	79.6	64.7	55.7	37.0	28.6	52.7
1996	25.1	31.2	35.6	49.3	61.9	72.1	73.1	74.9	65.5	55.3	37.3	34.4	51.3
1997	24.3	36.0	43.0	48.3	56.7	69.6	75.4	71.6	66.1	54.6	39.0	33.4	51.5
1998	36.6	40.8	42.0	53.3	67.1	71.5	74.9	75.3	71.4	57.0	45.5	36.5	56.0
1999	28.5	37.5	38.4	54.9	64.3	73.7	79.2	72.4	67.1	55.2	48.8	34.6	54.6
2000	27.9	38.7	47.0	51.4	64.9	71.0	73.0	73.6	65.2	57.8	40.7	19.8	52.6
2001	28.0	34.6	38.4	58.5	64.4	70.2	74.4	75.4	65.1	54.3	49.5	38.2	54.3
2002	35.1	35.6	40.1	54.8	59.7	73.8	78.3	77.4	71.3	53.3	40.3	33.0	54.4
2003	21.7	25.4	43.3	54.6	61.1	68.2	74.1	74.9	64.6	54.5	47.3	34.4	52.0
2004	25.2	32.1	45.4	55.0	66.9	71.0	73.1	69.8	69.1	55.9	46.8	31.8	53.5
2005	30.7	36.3	38.3	55.0	60.2	74.8	76.4	76.6	70.5	56.3	44.5	27.1	53.9
2006	39.8	32.3	41.7	57.1	61.3	70.5	76.7	75.0	64.1	52.0	45.5	38.8	54.6
2007	32.5	19.7	49.0	50.8	68.1	74.2	74.3	80.0	71.7	62.1	43.4	34.1	55.0
2008	28.7	29.8	40.4	53.8	59.8	73.2	75.0	73.9	70.1	56.0	41.7	30.7	52.8
2009	23.0	33.9	47.3	53.9	63.6	73.4	70.9	73.0	68.5	51.6	47.4	31.1	53.1
2010	24.6	26.0	45.9	59.7	66.1	76.0	78.7	79.6	70.5	58.1	44.8	25.4	54.6
2011	23.9	33.4	43.7	55.8	63.8	73.7	82.1	76.9	66.0	55.7	48.7	37.8	55.1
2012	33.7	37.3	56.6	54.5	68.8	74.6	84.0	74.9	65.2	52.7	41.4	38.4	56.8
2013	29.9	30.9	35.5	52.6	65.4	72.0	73.9	74.9	69.5	54.6	39.2	29.9	52.4
POR= 71 YRS	27.5	31.0	41.3	52.5	62.7	71.7	75.4	73.8	66.5	55.1	42.6	31.6	52.6

**HEATING DEGREE DAYS (base 65°F) 2013 INDIANAPOLIS (KIND)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	1	0	119	138	653	803	1375	1082	631	269	85	16	5172
1985-86	0	1	97	245	544	1311	1126	935	652	344	114	7	5376
1986-87	0	24	30	312	750	1009	1150	820	627	378	51	0	5151
1987-88	2	5	37	504	553	900	1205	1090	726	390	84	15	5511
1988-89	0	2	37	517	618	1024	882	1052	693	419	226	11	5481
1989-90	0	8	106	313	718	1426	851	760	588	432	153	19	5374
1990-91	4	1	86	348	518	932	1175	824	651	292	71	0	4902
1991-92	0	0	103	254	739	902	1035	766	670	390	185	34	5078
1992-93	2	7	88	353	645	973	1028	1046	796	424	103	35	5500
1993-94	0	1	129	409	680	1005	1332	984	738	336	192	3	5809
1994-95	0	4	61	256	483	805	1118	973	615	392	131	6	4844
1995-96	1	0	94	288	835	1125	1230	971	908	469	162	7	6090
1996-97	0	0	85	296	823	942	1254	807	676	494	261	30	5668
1997-98	3	5	47	366	772	973	876	670	720	344	48	44	4868
1998-99	0	0	14	257	579	878	1125	767	814	297	81	8	4820
1999-00	0	0	70	298	481	936	1143	755	553	401	83	18	4738
2000-01	0	0	101	237	724	1394	1141	845	816	246	100	31	5635
2001-02	5	0	91	331	457	826	919	819	764	348	211	5	4776
2002-03	0	0	22	389	731	983	1335	1101	666	320	144	45	5736
2003-04	0	0	89	328	528	942	1227	949	604	316	77	8	5068
2004-05	3	20	19	280	538	1024	1060	796	820	309	176	2	5047
2005-06	0	0	18	295	610	1165	774	910	716	248	187	10	4933
2006-07	0	0	84	415	579	807	997	1261	508	430	45	1	5127
2007-08	0	0	19	179	639	952	1118	1015	755	342	179	0	5198
2008-09	0	0	9	298	692	1055	1295	863	543	367	103	15	5240
2009-10	2	7	25	409	522	1043	1245	1082	586	190	94	0	5205
2010-11	0	0	19	230	601	1220	1269	878	660	276	151	0	5304
2011-12	0	0	82	297	482	837	961	797	299	317	29	15	4116
2012-13	0	0	88	377	698	818	1083	947	906	376	103	9	5405
2013-	3	5	26	346	764	1079							

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**COOLING DEGREE DAYS (base 65°F) 2013 INDIANAPOLIS (KIND)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	6	25	318	237	291	103	28	0	0	1008
1985	0	0	5	36	90	190	296	199	143	21	0	0	980
1986	0	0	6	12	74	249	395	189	181	24	0	0	1130
1987	0	0	0	6	156	265	343	279	137	0	0	0	1186
1988	0	0	1	3	72	274	422	395	114	2	0	0	1283
1989	0	0	1	20	57	215	338	227	94	21	0	0	973
1990	0	0	13	30	10	215	289	241	147	10	1	0	956
1991	0	0	0	7	178	294	367	323	196	30	0	0	1395
1992	0	0	0	10	53	137	274	152	99	1	0	0	726
1993	0	0	0	0	64	223	389	328	51	0	0	0	1055
1994	0	0	0	16	56	307	330	221	114	13	0	0	1057
1995	0	0	0	4	32	250	371	459	92	6	0	0	1214
1996	0	0	0	7	71	229	261	313	107	3	0	0	991
1997	0	0	0	0	12	178	327	217	87	49	0	0	870
1998	0	0	15	0	120	246	312	331	214	16	0	1	1255
1999	0	0	0	5	67	278	450	236	138	3	1	0	1178
2000	0	0	2	0	88	205	256	274	113	22	0	0	960
2001	0	0	0	60	90	194	302	328	101	6	0	0	1081
2002	0	0	0	48	53	274	419	392	218	33	0	0	1437
2003	0	0	0	17	27	149	287	314	83	9	3	0	889
2004	0	0	3	21	147	192	258	177	149	5	0	0	952
2005	0	0	0	15	34	304	361	367	189	36	0	0	1306
2006	0	0	0	20	78	178	367	319	65	18	0	0	1045
2007	0	0	18	11	150	285	297	470	223	97	0	0	1551
2008	0	0	0	14	24	252	317	283	168	28	0	0	1086
2009	0	0	0	38	67	274	192	261	136	0	0	0	968
2010	0	0	0	37	135	339	431	460	191	26	0	0	1619
2011	0	0	3	8	123	267	537	379	118	16	0	0	1451
2012	0	0	45	10	155	309	596	313	102	4	0	0	1534
2013	0	0	0	9	120	226	285	319	170	31	0	0	1160

**SNOWFALL (inches) 2013 INDIANAPOLIS (KIND)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.0	2.5	3.6	10.6	11.0	T	0.1	0.0	0.0	27.8
1985-86	0.0	0.0	0.0	0.0	T	8.1	1.7	9.5	1.1	T	0.0	0.0	20.4
1986-87	0.0	0.0	0.0	0.0	T	1.6	11.6	5.3	1.4	T	0.0	0.0	19.9
1987-88	0.0	0.0	0.0	0.0	T	1.1	2.9	4.8	2.5	T	0.0	0.0	11.3
1988-89	0.0	0.0	0.0	T	0.4	6.8	0.1	2.4	1.9	1.7	0.2	0.0	13.5
1989-90	0.0	T	0.0	9.3	0.6	8.2	4.1	2.5	1.3	T	0.0	0.0	26.0
1990-91	0.0	0.0	0.0	0.0	0.0	9.6	5.4	2.4	0.1	0.0	T	0.0	17.5
1991-92	0.0	0.0	0.0	0.0	3.0	0.2	7.1	0.2	2.9	1.3	0.0	T	14.7
1992-93	0.0	0.0	0.0	0.1	1.4	3.7	3.1	17.2	3.0	T	0.0	0.0	28.5
1993-94	0.0	0.0	0.0	2.4	1.1	5.6	14.0	3.9	3.7	0.8	0.0	T	31.5
1994-95	0.0	0.0	0.0	0.0	0.0	2.5	13.1	3.6	0.6	0.0	0.0	T	19.8
1995-96	0.0	0.0	0.0	0.0	1.4	11.0	25.2	1.6	12.5	T	0.0	0.0	51.7
1996-97	0.0	0.0	0.0	0.0	.9	14.6	12.9	3.1	T	T	0.0	0.0	31.5
1997-98	0.0	0.0	0.0	0.0	5.8	2.5	0.8	0.6	0.7	0.0	0.0	0.0	10.4
1998-99	0.0	0.0	0.0	0.0	0.0	3.3	18.3	2.9	5.2	T	0.0	0.0	29.7
1999-00	0.0	0.0	0.0	0.0	0.0	3.1	11.3	1.6	8.1	T	0.0	0.0	24.1
2000-01	0.0	T	0.0	0.0	0.2	16.3	2.1	0.8	T	0.2	T	0.0	19.6
2001-02	0.0	0.0	0.0	T	T	0.7	4.6	4.8	0.8	T	T	0.0	10.9
2002-03	0.0	0.0	0.0	0.0	0.5	10.6	14.6	21.7	2.6	T	0.0	0.0	50.0
2003-04	0.0	0.0	0.0	0.0	0.4	4.8	10.0	1.8	3.9	0.0	0.0	0.0	20.9
2004-05	0.0	0.0	0.0	0.0	0.1	13.1	10.7	2.5	1.2	T	0.0	0.0	27.6
2005-06	0.0	0.0	0.0	0.0	0.8	14.1	2.7	3.9	5.5	T	0.0	0.0	27.0
2006-07	0.0	0.0	T	T	T	0.9	5.8	18.2	0.9	T	0.0	0.0	25.8
2007-08	0.0	0.0	0.0	0.0	T	10.8	4.8	5.4	2.3	0.0	0.0	T	23.3
2008-09	0.0	0.0	0.0	T	0.5	2.1	16.1	5.6	T	T	T	0.0	24.3
2009-10	0.0	0.0	0.0	0.0	T	7.7	7.8	17.5	0.0	0.0	0.0	0.0	33.0
2010-11	0.0	0.0	0.0	0.0	T	16.6	11.8	7.5	1.5	0.0	T	0.0	37.4
2011-12	0.0	0.0	0.0	0.0	0.2	2.3	4.4	2.2	0.7	0.0	0.0	0.0	9.8
2012-13	0.0	0.0	T	T	0.2	14.8	2.4	2.6	14.5	T	0.0	0.0	34.5
2013-	0.0	0.0	0.0	T	0.1	8.8							
POR= 66 YRS	0.0	T	T	0.2	1.4	6.0	7.8	6.1	3.4	0.4	T	T	25.3

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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: <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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# 2013

## INDIANAPOLIS

### INDIANA (KIND)

Indianapolis is located in the central part of the state and is situated on level or slightly rolling terrain. The greater part of the city lies east of the White River which flows in a general north to south direction.

The National Weather Service Forecast Office is located approximately 7 miles southwest of the central part of the city at the Indianapolis International Airport. From a field elevation of 797 feet above sea level at the Indianapolis International Airport the terrain slopes gradually downward to a little below 645 feet at the White River, then upward to just over 910 feet in the northwest corner and eastern sections of the county. The street elevation at the former city office located in the Old Federal Building is 718 feet.

Indianapolis has a temperate climate, with very warm summers and without a dry season. Very cold temperatures may be produced by the invasion of continental polar air in the winter from northern latitudes. The polar air can be quite frigid with very low humidity. The arrival of maritime tropical air from the Gulf in the summer brings warm temperatures and moderate humidity. One of the longest and most severe heat waves brought temperatures of 100 degrees or more for nine consecutive days.

Precipitation is distributed fairly evenly throughout the year, and therefore there is no pronounced wet or dry season. Rainfall in the spring and summer is produced mostly by showers and thunderstorms. A rainfall of about 2 1/2 inches in a 24-hour period can be expected about once a year. Snowfalls of 3 inches or more occur on an average of two or three times in the winter.

Local levees and/or channel improvements now protect some formerly flood-prone areas.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 20 and the average last occurrence in the spring is April 22.

# Station History

INDIANAPOLIS, IN

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
INDIANAPOLIS INTL AP	1978-09-30	1988-07-28	39° 43'	-86° 16'	792	.6 UN E	COOP,WXSVC
INDIANAPOLIS INTL AP	2006-02-28	Present	39° 43'	-86° 16'	790		ASOS, COOP, WXSVC
INDIANAPOLIS INTL AP	1988-07-28	1996-01-01	39° 43'	-86° 16'	792		COOP, WXSVC
INDIANAPOLIS INTL AP	1996-01-01	1996-05-01	39° 43'	-86° 16'	790		ASOS, COOP, WXSVC
INDIANAPOLIS WEIR COOK MUNICIPAL AP	1948-01-01	1966-01-01	39° 43'	-86° 16'	810		AIRWAYS, COOP
INDIANAPOLIS INTL AP	1977-09-01	1978-09-30	39° 43'	-86° 16'	792		COOP, WXSVC
INDIANAPOLIS INTL AP	1996-05-01	1997-04-09	39° 43'	-86° 16'	790		AIRWAYS, ASOS, COOP, WXSVC
INDIANAPOLIS WEIR COOK MUNICIPAL AP	1973-01-01	1977-09-01	39° 43'	-86° 16'	792		COOP, WXSVC
INDIANAPOLIS INTL AP	1997-04-09	2006-02-28	39° 43'	-86° 16'	790		ASOS, COOP, WXSVC
INDIANAPOLIS WEIR COOK MUNICIPAL AP	1931-01-01	1948-01-01	39° 43'	-86° 16'			AIRWAYS
INDIANAPOLIS WEIR COOK MUNICIPAL AP	1966-01-01	1973-01-01	39° 43'	-86° 16'	792		AIRWAYS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	2010-09-29	Present	HOURLY	2400	AWPAG	SHLD;RCRD;HTD	
TEMP	1995-07-01	1996-01-01	DAILY	2400	MXMN		
PRECIP	1995-07-01	1996-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	2006-02-28	2010-09-29	HOURLY	2400	TB	RCRD	
TEMP	2006-02-28	2010-09-29	DAILY	2400	HYGR		
TEMP	2010-09-29	Present	DAILY	2400	HYGR		
PRECIP	1978-09-30	1995-07-01	HOURLY	2400			
PRECIP	2010-09-29	Present	DAILY	2400	PCPN1		
PRECIP	1996-01-01	2006-02-28	HOURLY	2400	TB	RCRD	
PRECIP	1931-01-01	1978-09-30	DAILY	2400	UNIV	RCRD	
PRECIP	1978-09-30	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1996-01-01	2006-02-28	DAILY	2400	TB	RCRD	
TEMP	1978-09-30	1995-07-01	DAILY	2400	MXMN		
PRECIP	1995-07-01	1996-01-01	HOURLY	2400	UNIV	RCRD	
TEMP	1996-01-01	2006-02-28	DAILY	2400	HYGR		
PRECIP	2006-02-28	2010-09-29	DAILY	2400	PCPN1		

\* 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](mailto:ncdc.orders@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)