

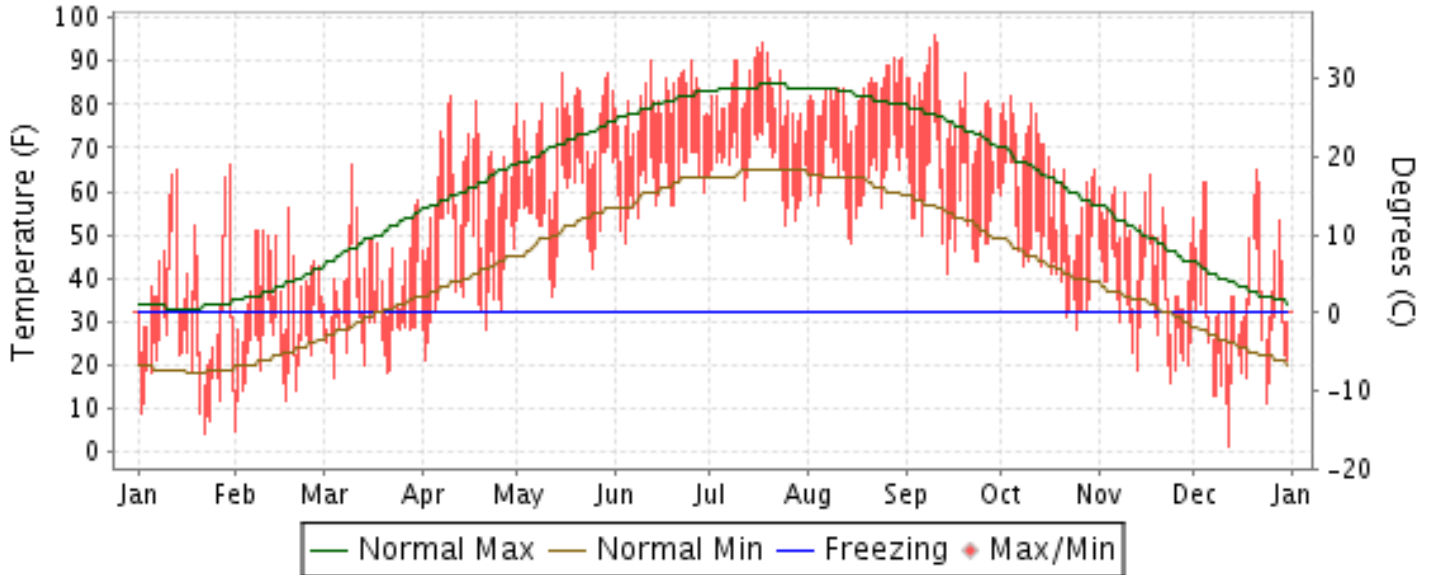


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

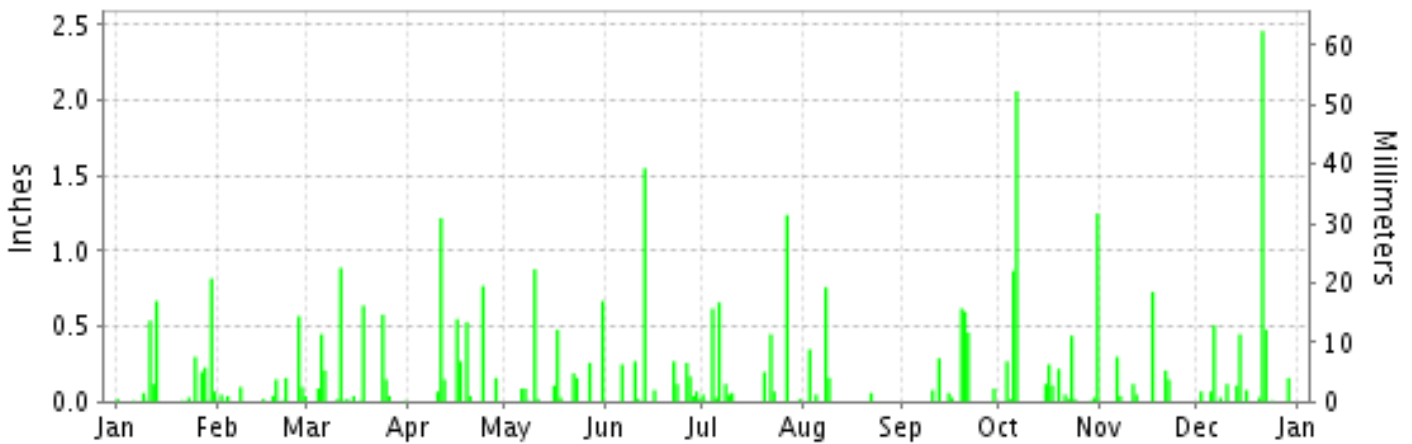
ISSN 0198-3970

DAYTON, OHIO (KDAY)

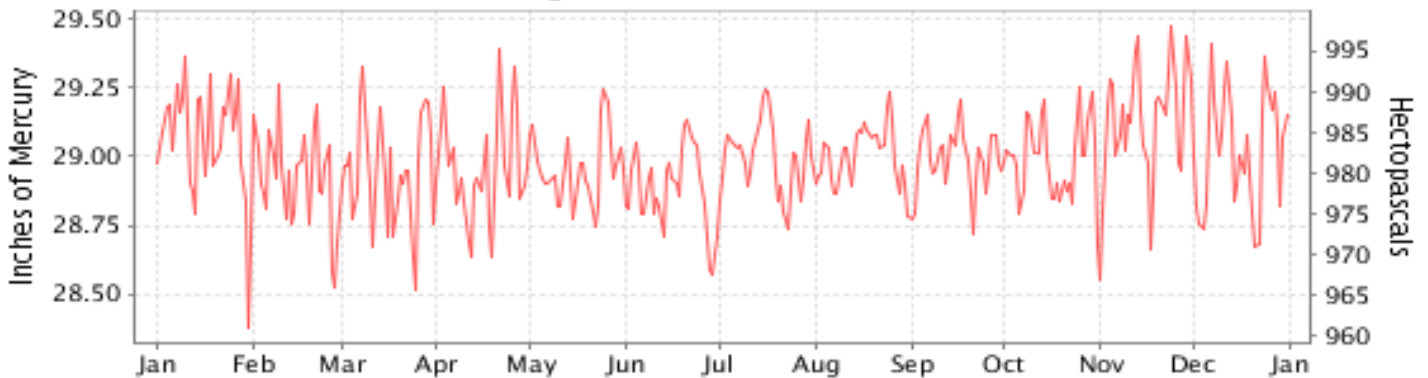
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

DAYTON (KDAY)

LATITUDE: 39° 54'N LONGITUDE: 84° 13'W ELEVATION (FT): GRND: 1000 BARO: 1004 TIME ZONE: EASTERN (UTC -5) WBAN: 93815

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	38.5	38.1	42.3	63.8	74.5	80.7	82.5	82.9	79.1	65.4	47.9	39.9	61.3	
	HIGHEST DAILY MAXIMUM	66	56	66	82	87	90	94	91	96	82	64	65	96	
	DATE OF OCCURRENCE	30	18	10	10	30+	25+	18	31+	10	04	17	21	SEP 10	
	MEAN DAILY MINIMUM	22.8	22.9	28.3	41.7	55.7	61.9	65.5	62.7	56.1	45.6	32.5	25.4	43.4	
	LOWEST DAILY MINIMUM	4	5	17	21	36	48	52	48	41	28	16	1	1	
	DATE OF OCCURRENCE	22	01	04	02	12	04	25	15	14	25	24	12	DEC 12	
	AVERAGE DRY BULB	30.6	30.5	35.3	52.8	65.1	71.3	74.0	72.8	67.6	55.5	40.2	32.6	52.4	
	MEAN WET BULB	29.1	27.5	31.8	46.3	58.4	64.9	68.2	66.3	60.3	50.8	36.3	30.2	47.5	
	MEAN DEW POINT	24.2	22.9	26.2	39.2	53.1	60.9	65.0	62.5	55.4	46.5	30.1	25.5	42.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	2	7	3	3	0	0	0	15	
	MAXIMUM <= 32°	12	8	4	0	0	0	0	0	0	0	1	14	39	
	MINIMUM <= 32°	25	26	27	6	0	0	0	0	0	5	15	22	126	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1057	959	912	377	107	11	3	9	55	320	737	995	5542	
	COOLING DEGREE DAYS	0	0	0	16	115	208	289	259	140	35	0	0	1062	
RH	MEAN (PERCENT)	75	76	72	64	67	72	75	72	70	75	68	76	72	
	HOUR 01 LST	78	81	80	72	78	83	87	85	83	84	75	80	81	
	HOUR 07 LST	81	81	80	73	73	78	81	82	83	87	77	79	80	
	HOUR 13 LST	69	67	64	52	54	57	61	54	50	60	56	69	59	
	HOUR 19 LST	75	75	69	60	64	68	71	70	64	73	67	77	69	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	1	1	0	2	0	1	5	0	3	0	2	18	
	THUNDERSTORMS	0	0	0	3	6	10	5	2	3	3	1	0	33	
PR	MEAN STATION PRESS. (IN.)	29.06	28.92	28.95	28.97	28.95	28.89	29.00	29.01	28.99	28.99	29.13	29.03	28.99	
	MEAN SEA-LEVEL PRESS. (IN.)	30.17	30.02	30.04	30.05	30.02	29.94	30.05	30.06	30.05	30.07	30.22	30.13	30.07	
WINDS	RESULTANT SPEED (MPH)	6.2	4.9	4.2	4.6	3.8	2.4	1.8	1.2	1.0	3.9	4.8	5.9	3.4	
	RES. DIR. (TENS OF DEGS.)	23	25	29	21	19	24	21	28	22	22	24	23	24	
	MEAN SPEED (MPH)	11.5	11.2	10.6	10.6	9.6	8.1	7.1	5.8	7.1	7.4	10.5	10.6	9.2	
	PREVAIL.DIR.(TENS OF DEGS.)	21	27	29	19	19	24	22	22	21	20	19	21	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	37	37	39	35	44	32	43	21	26	36	40	33	44	
	DIR. (TENS OF DEGS.)	27	26	26	25	23	20	31	33	25	26	27	20	23	
	DATE OF OCCURRENCE	31	11	19	19	31	23	10	13	20	31	17	22	MAY 31	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	46	44	47	45	59	43	55	33	33	52	53	43	59	
DIR. (TENS OF DEGS.)	26	21	26	20	23	19	30	30	25	26	28	21	23		
DATE OF OCCURRENCE	31	18	19	18	31	23	10	13	20	31	17	22	MAY 31		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.10	1.29	3.16	3.76	2.99	3.12	3.58	1.38	2.23	5.74	1.60	4.58	36.53	
	GREATEST 24-HOUR (IN.)	0.83	0.64	0.91	1.37	0.88	1.55	1.24	0.85	1.06	2.15	0.73	2.76	2.76	
	DATE OF OCCURRENCE	30-31	26-27	10-11	11-12	10	13	27	08-09	20-21	05-06	17	21-22	DEC 21-22	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	15	12	14	9	12	12	13	5	8	15	7	13	135		
PRECIPITATION 0.10	7	5	6	7	7	7	6	3	4	9	5	7	73		
PRECIPITATION 1.00	0	0	0	1	0	1	1	0	0	2	0	1	6		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	6.1	3.8	14.2	0.4	0.0	0.0	0.0	0.0	0.0	1.0	1.0	12.6	39.1	
	GREATEST 24-HOUR (IN.)	3.4	1.0	5.8	0.4	0.0	0.0	0.0	0.0	0.0	1.0	0.5	6.1	6.1	
	DATE OF OCCURRENCE	25	28	24	20						23	11	06	DEC 06	
	MAXIMUM SNOW DEPTH (IN.)	5	1	6	0	0	0	0	0	0	1	1	6	6	
	DATE OF OCCURRENCE	02+	28+	26							23	12	18+	DEC 18+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	1	4	0	0	0	0	0	0	1	0	5	13		

NORMALS, MEANS, AND EXTREMES DAYTON (KDAY)

LATITUDE: 39° 54'N **LONGITUDE:** 84° 13'W **ELEVATION (FT):** GRND: 1000 BARO: 1004 **TIME ZONE:** EASTERN (UTC -5) **WBAN: 93815**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	34.7	38.9	49.6	61.9	71.5	80.2	83.8	82.6	75.9	63.8	51.1	38.1	61.0
	MEAN DAILY MAXIMUM	79	35.4	38.3	49.6	61.6	72.2	80.7	84.9	83.4	76.3	64.9	50.5	39.0	61.4
	HIGHEST DAILY MAXIMUM	70	71	73	86	89	93	102	102	102	101	89	79	72	102
	YEAR OF OCCURRENCE		1950	2000	2012	1962	1962	2012	2012	1988	1954	2007	1975	1998	JUL 2012
	MEAN OF EXTREME MAXS.	94	57.5	61.1	72.7	81.0	86.2	92.2	93.6	92.6	89.4	80.9	70.2	60.8	78.2
	NORMAL DAILY MINIMUM	30	20.3	23.1	31.2	41.4	51.4	60.9	64.5	62.7	54.9	44.0	34.6	24.3	42.8
	MEAN DAILY MINIMUM	79	20.2	22.1	31.1	40.9	51.6	60.5	64.7	63.0	55.1	44.4	34.0	24.6	42.7
	LOWEST DAILY MINIMUM	70	-25	-16	-7	15	27	40	44	39	32	21	-2	-20	-25
	YEAR OF OCCURRENCE		1994	1951	1980	1972	1947	1990	1972	2001	1974	1962	1958	1989	JAN 1994
	MEAN OF EXTREME MINS.	94	-2.2	1.8	12.3	24.9	35.8	47.5	53.0	50.5	39.7	29.2	18.1	4.1	26.2
	NORMAL DRY BULB	30	27.5	31.0	40.4	51.6	61.4	70.6	74.1	72.7	65.4	53.9	42.8	31.2	51.9
	MEAN DRY BULB	79	27.8	30.2	40.4	51.2	61.9	70.7	74.8	73.2	65.7	54.7	42.3	31.8	52.1
	MEAN WET BULB	29	25.0	27.8	35.0	44.0	54.1	62.3	66.1	64.8	57.8	47.0	37.5	28.6	45.8
	MEAN DEW POINT	29	22.7	24.5	31.8	41.1	51.6	60.2	64.2	63.2	55.7	44.6	35.4	26.5	43.5
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.0	1.6	4.1	3.2	0.9	0.0	0.0	0.0	9.8
	MAXIMUM <= 32	30	12.8	8.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	9.6	34.2
MINIMUM <= 32	30	26.0	22.4	17.1	5.0	0.1	0.0	0.0	0.0	0.0	2.2	12.4	23.6	108.8	
MINIMUM <= 0	30	2.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.9	
H/C	NORMAL HEATING DEG. DAYS	30	1162	952	764	411	168	24	2	6	88	356	665	1048	5646
	NORMAL COOLING DEG. DAYS	30	0	0	1	11	58	190	285	243	99	12	0	0	899
RH	NORMAL (PERCENT)	30	76	73	70	65	67	68	70	73	72	70	73	77	71
	HOURLY 01 LST	30	78	76	75	72	75	78	80	83	82	78	77	80	78
	HOURLY 07 LST	30	80	79	79	76	78	80	83	88	88	84	81	82	82
	HOURLY 13 LST	30	71	68	61	55	55	56	56	58	57	57	65	72	61
	HOURLY 19 LST	30	74	71	65	58	58	59	60	64	65	65	71	76	66
S	PERCENT POSSIBLE SUNSHINE	53	40	44	48	52	58	66	66	67	65	59	40	36	53
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	2.8	2.2	1.4	0.7	1.2	0.8	1.1	1.5	1.7	1.3	1.3	2.7	18.7
	THUNDERSTORMS	66	0.5	0.6	2.2	4.3	6.3	7.4	7.2	5.8	3.1	1.5	0.8	0.3	40.0
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	30	29.01	28.99	28.97	28.91	28.93	28.93	28.96	28.98	29.01	29.01	29.02	29.02	28.98
	MEAN SEA-LEVEL PRES. (IN)	30	30.11	30.10	30.06	29.98	29.99	29.98	30.01	30.04	30.06	30.09	30.11	30.12	30.05
WINDS	MEAN SPEED (MPH)	30	11.1	10.7	10.7	10.6	9.1	8.3	7.4	6.9	7.7	8.8	10.2	10.5	9.3
	PREVAIL.DIR.(TENS OF DEGS)	45	28	27	30	21	21	22	23	23	21	21	20	21	20
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	47	53	49	49	54	58	61	45	53	46	44	49	61
	DIR. (TENS OF DEGS)		25	24	27	25	24	33	29	33	23	25	22	22	29
	YEAR OF OCCURRENCE		2008	2009	2002	2000	1999	2012	1998	2007	2008	2010	1998	2006	JUL 1998
	MAXIMUM 3-SECOND SPEED (MPH)	18	62	66	58	61	62	82	74	56	69	62	53	58	82
	DIR. (TENS OF DEGS)		25	23	27	24	29	34	30	32	23	25	28	23	34
YEAR OF OCCURRENCE		2008	2009	2002	2011	2007	2012	1998	2007	2008	2010	2013	2006	JUN 2012	
PRECIPITATION	NORMAL (IN)	30	2.71	2.24	3.34	4.09	4.66	4.17	4.11	2.99	3.30	2.93	3.39	3.12	41.05
	MAXIMUM MONTHLY (IN)	70	9.86	5.77	7.65	9.20	9.05	10.89	8.55	8.03	10.84	6.25	8.07	10.04	10.89
	YEAR OF OCCURRENCE		1950	1990	1964	1996	1995	1958	1990	1974	2011	1986	1985	1990	JUN 1958
	MINIMUM MONTHLY (IN)	70	0.30	0.14	1.07	0.56	1.55	0.32	0.47	0.03	0.27	0.10	0.48	0.36	0.03
	YEAR OF OCCURRENCE		1981	1947	1966	1962	1964	1962	1974	1996	1963	1944	1949	1955	AUG 1996
	MAXIMUM IN 24 HOURS (IN)	70	4.30	2.79	2.87	3.10	3.64	3.76	4.54	3.62	4.59	3.75	2.93	2.86	4.59
	YEAR OF OCCURRENCE		1959	1959	1964	1977	1989	1981	1990	1974	2005	1986	1955	1990	SEP 2005
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	12.6	11.2	12.2	13.2	13.7	11.8	10.8	8.4	8.7	9.3	11.5	12.4	135.8
PRECIPITATION >= 1.00	30	0.3	0.3	0.6	0.8	1.0	0.9	1.3	0.9	0.8	0.7	0.9	0.6	9.1	
SNOWFALL	NORMAL (IN)	30	7.9	5.9	3.4	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.6	4.5	23.3
	MAXIMUM MONTHLY (IN)	69	40.2	23.0	15.7	4.9	T	0.0	T	T	T	5.8	12.7	17.0	40.2
	YEAR OF OCCURRENCE		1978	2010	2008	1974	2007		1995	2000	2006	1989	1950	2004	JAN 1978
	MAXIMUM IN 24 HOURS (IN)	69	12.2	7.7	11.3	4.7	T	0.0	T	T	T	5.0	10.0	11.5	12.2
	YEAR OF OCCURRENCE		1978	2010	1968	1974	1995		1995	2000	2006	1989	1950	2004	JAN 1978
	MAXIMUM SNOW DEPTH (IN)	64	22	14	13	6	0	0	0	0	0	4	12	16	22
	YEAR OF OCCURRENCE		1978	1978	2008	1987						1989	1950	2004	JAN 1978
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.9	1.5	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.2	5.9	

PRECIPITATION (inches) 2013 DAYTON (KDAY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	1.15	2.67	3.63	3.92	4.29	1.87	2.37	2.06	3.30	3.52	3.38	3.83	35.99
1985	1.56	2.26	4.85	1.56	4.43	2.27	2.69	2.50	0.98	2.39	8.07	2.25	35.81
1986	1.68	3.67	4.02	2.68	2.29	6.66	4.62	1.99	3.15	6.25	3.04	2.87	42.92
1987	1.06	1.01	2.22	3.11	2.61	3.16	4.36	0.65	0.28	1.26	1.98	3.00	24.70
1988	1.46	3.81	3.04	2.01	1.62	1.41	3.76	2.86	4.73	3.00	6.22	2.65	36.57
1989	2.72	2.65	5.99	6.52	8.55	4.76	3.56	1.89	5.66	1.56	3.66	1.85	49.37
1990	2.28	5.77	3.70	3.00	8.40	3.21	8.55	3.76	2.60	5.98	2.46	10.04	59.75
1991	2.53	2.55	5.34	4.72	4.25	2.52	2.58	2.13	3.25	1.52	2.12	3.64	37.15
1992	3.06	0.96	2.99	5.44	3.17	3.23	6.83	4.48	2.27	1.51	5.07	1.58	40.59
1993	3.88	2.77	3.85	6.78	3.98	6.25	4.68	3.32	4.69	3.06	6.19	2.78	52.23
1994	3.76	1.27	1.88	6.32	2.00	3.85	4.54	2.92	0.97	1.00	3.50	2.76	34.77
1995	2.39	1.47	2.62	5.30	9.05	5.60	5.83	7.54	1.03	5.65	2.30	2.48	51.26
1996	4.11	1.82	3.88	9.20	7.75	6.04	5.89	.03	6.87	1.39	3.54	4.13	54.65
1997	2.40	1.75	3.96	1.42	5.76	2.22	3.07	2.55	1.66	1.27	2.40	2.15	30.61
1998	3.30	2.32	2.98	6.19	4.09	6.35	3.31	2.71	0.77	3.47	1.59	2.13	39.21
1999	3.93	3.97	1.61	3.53	1.98	3.70	2.82	1.80	1.05	1.06	1.85	2.56	29.86
2000	3.20	2.15	2.21	4.19	2.98	2.98	2.96	2.56	2.84	3.52	2.32	2.41	34.32
2001	0.84	1.69	1.35	3.60	4.53	2.91	5.48	6.40	3.88	4.99	2.86	3.66	42.19
2002	1.52	1.31	3.89	5.72	6.20	3.25	1.81	0.87	5.74	2.53	3.08	3.20	39.12
2003	1.07	2.23	2.65	1.49	6.62	4.56	6.32	3.83	5.40	3.03	3.88	2.44	43.52
2004	4.62	1.31	2.48	3.39	8.61	5.12	3.25	5.15	0.61	2.38	3.18	1.61	41.71
2005	9.22	1.63	2.31	3.97	2.31	3.49	1.95	4.40	7.37	3.11	3.64	1.88	45.28
2006	2.97	1.66	3.70	4.42	3.67	3.64	5.32	3.44	5.09	4.60	3.17	3.66	45.34
2007	4.08	2.52	4.87	3.52	2.93	1.78	2.34	3.28	4.81	3.31	3.00	4.45	40.89
2008	2.04	4.14	6.98	2.21	4.38	6.63	5.89	1.65	2.69	1.24	2.28	5.12	45.25
2009	2.03	1.59	1.48	3.96	3.79	5.30	4.01	2.03	2.68	4.80	0.93	2.95	35.55
2010	1.47	1.49	4.12	2.13	5.30	5.53	2.75	1.73	1.65	1.13	4.85	1.45	33.60
2011	1.43	4.55	4.17	8.72	6.06	2.56	2.22	2.02	10.84	3.00	5.81	5.34	56.72
2012	4.73	1.27	2.66	2.17	2.04	1.57	2.86	1.65	5.27	3.81	0.79	3.77	32.59
2013	3.10	1.29	3.16	3.76	2.99	3.12	3.58	1.38	2.23	5.74	1.60	4.58	36.53
POR= 94 YRS	2.87	2.17	3.40	3.67	3.98	3.87	3.50	3.07	2.90	2.53	2.87	2.78	37.61

WBAN : 93815

AVERAGE TEMPERATURE (°F) 2013 DAYTON (KDAY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	21.2	36.3	30.9	48.6	57.2	72.4	69.9	71.5	62.5	58.8	39.6	38.1	50.6
1985	19.4	25.3	43.6	56.2	62.8	67.0	73.0	70.8	66.3	57.4	47.6	23.8	51.1
1986	29.1	31.3	42.4	54.0	63.8	71.3	75.6	69.8	68.8	55.3	40.4	32.8	52.9
1987	28.2	34.1	43.3	51.3	66.4	72.5	75.5	73.2	67.4	48.5	46.6	35.2	53.5
1988	26.1	27.1	40.3	50.8	63.5	71.4	78.3	77.2	65.4	47.1	43.6	30.9	51.8
1989	36.3	27.5	42.4	50.2	58.8	70.6	76.1	72.2	64.1	54.1	41.0	19.0	51.0
1990	37.1	37.3	44.9	50.7	58.5	70.2	73.2	71.6	65.1	53.4	47.1	36.3	53.8
1991	28.1	34.9	42.9	55.0	69.3	74.2	76.3	73.7	66.0	56.7	39.2	34.6	54.2
1992	30.0	36.3	41.0	50.9	60.5	68.1	74.2	68.9	64.3	52.2	42.8	33.0	51.9
1993	32.1	26.3	37.7	50.0	62.0	69.7	77.0	75.1	62.7	51.6	42.5	31.1	51.5
1994	20.0	28.8	39.3	53.7	58.6	74.3	75.1	71.7	64.9	56.2	48.4	37.6	52.4
1995	28.9	28.1	43.0	50.4	60.4	72.8	75.9	78.0	63.5	56.1	36.1	26.5	51.6
1996	25.0	30.2	34.0	48.6	60.0	71.2	72.1	73.2	64.5	54.6	36.3	35.5	50.4
1997	25.7	35.0	41.8	47.4	55.8	69.1	73.2	69.8	64.5	54.0	38.8	33.1	50.7
1998	36.0	39.2	41.7	52.0	66.0	70.5	73.6	74.2	70.6	55.6	45.2	37.0	55.1
1999	28.8	35.7	35.6	53.6	63.7	72.5	78.4	71.3	66.8	54.6	47.4	33.3	53.5
2000	24.9	36.7	45.5	51.0	64.6	70.7	71.9	71.1	64.2	57.1	40.4	20.6	51.6
2001	28.1	34.1	37.2	55.9	63.5	69.6	73.3	73.5	63.0	54.8	48.6	37.2	53.2
2002	34.7	34.7	39.4	53.5	58.6	72.4	77.4	75.8	69.7	51.5	39.6	30.7	53.2
2003	20.7	24.7	42.1	53.7	60.0	66.7	72.2	73.0	63.1	52.4	46.4	33.0	50.7
2004	23.6	30.7	43.0	52.6	65.6	69.3	72.1	69.1	66.6	53.9	45.0	30.8	51.9
2005	28.5	33.4	35.9	52.7	57.3	73.3	75.2	75.0	68.5	54.5	43.8	26.4	52.0
2006	39.1	31.7	39.3	54.6	59.7	68.5	75.6	73.7	62.1	50.7	44.0	37.9	53.1
2007	32.3	18.4	46.2	49.5	65.6	71.7	71.6	76.9	68.8	60.1	42.6	32.7	53.0
2008	28.6	28.2	37.3	52.6	58.4	71.7	73.2	71.4	68.5	53.9	40.0	30.8	51.2
2009	21.1	32.1	44.7	52.5	62.6	71.2	69.6	71.0	65.1	50.9	46.5	30.8	51.5
2010	24.3	24.7	42.8	57.0	64.3	73.3	76.5	75.8	67.9	56.5	42.9	25.1	52.6
2011	23.0	31.6	40.8	53.9	62.5	71.6	79.8	73.9	63.7	53.4	47.2	36.4	53.2
2012	30.7	36.1	53.6	51.9	68.3	72.3	80.1	73.1	64.2	52.4	40.9	38.4	55.2
2013	30.6	30.5	35.3	52.8	65.1	71.3	74.0	72.8	67.6	55.5	40.2	32.6	52.4
POR= 79 YRS	27.8	30.2	40.4	51.2	61.9	70.7	74.8	73.2	65.7	54.7	42.3	31.8	52.1

HEATING DEGREE DAYS (base 65°F) 2013 DAYTON (KDAY)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	7	8	142	191	756	824	1406	1104	660	294	128	34	5554
1985-86	0	1	107	255	516	1271	1109	939	699	343	118	15	5373
1986-87	0	32	42	317	732	991	1134	858	664	411	98	6	5285
1987-88	2	10	44	505	551	916	1200	1091	759	425	106	35	5644
1988-89	2	3	56	549	635	1052	881	1043	700	445	241	14	5621
1989-90	0	5	114	347	713	1419	858	772	628	450	199	29	5534
1990-91	3	1	101	359	534	886	1138	835	678	304	59	1	4899
1991-92	0	0	111	281	765	935	1078	828	735	427	187	26	5373
1992-93	2	10	110	392	658	988	1011	1076	837	444	129	47	5704
1993-94	0	2	121	413	672	1046	1391	1011	790	350	239	7	6042
1994-95	0	8	76	278	492	845	1112	1025	676	436	164	3	5115
1995-96	4	0	102	275	861	1186	1227	1001	955	491	218	14	6334
1996-97	2	0	97	316	856	908	1209	833	712	520	287	32	5772
1997-98	2	10	70	381	781	983	891	717	735	382	63	59	5074
1998-99	0	0	29	294	588	862	1119	814	903	340	91	16	5056
1999-00	0	3	63	320	521	976	1233	816	601	416	89	24	5062
2000-01	0	4	113	258	731	1372	1134	860	856	311	101	31	5771
2001-02	7	0	117	321	486	856	933	843	787	376	234	16	4976
2002-03	0	0	34	442	751	1057	1364	1123	706	343	172	59	6051
2003-04	0	0	98	391	552	984	1278	992	677	379	93	12	5456
2004-05	4	21	48	343	595	1056	1124	879	894	372	243	3	5582
2005-06	0	0	23	345	629	1190	796	927	785	312	222	20	5249
2006-07	0	0	105	449	622	832	1008	1296	583	469	85	4	5453
2007-08	2	0	39	210	664	994	1123	1062	852	374	225	3	5548
2008-09	3	1	15	352	742	1054	1356	914	623	408	126	19	5613
2009-10	3	18	54	434	552	1054	1254	1122	682	259	104	2	5538
2010-11	1	0	51	277	655	1229	1295	929	743	330	180	3	5693
2011-12	0	0	124	355	528	881	1058	829	376	394	40	21	4606
2012-13	0	0	110	390	715	819	1057	959	912	377	107	11	5457
2013-	3	9	55	320	737	995							

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COOLING DEGREE DAYS (base 65°F) 2013 DAYTON (KDAY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	5	25	233	169	218	72	7	0	0	729
1985	0	0	3	36	63	101	253	190	152	25	1	0	824
1986	0	0	4	23	88	211	335	186	161	21	0	0	1029
1987	0	0	0	5	148	238	331	270	122	0	5	0	1119
1988	0	0	1	4	64	232	423	387	73	3	0	0	1187
1989	0	0	5	7	55	189	350	235	94	17	0	0	952
1990	0	0	12	27	5	192	263	215	111	7	4	0	836
1991	0	0	0	11	199	284	355	277	149	28	0	0	1303
1992	0	0	0	11	51	127	293	138	94	0	0	0	714
1993	0	0	0	0	44	195	376	323	58	4	0	0	1000
1994	0	0	0	18	46	293	321	220	81	11	0	0	990
1995	0	0	0	3	26	243	349	410	66	4	0	0	1101
1996	0	0	0	6	69	208	228	263	87	0	0	0	861
1997	0	0	0	0	7	163	262	164	66	46	0	0	708
1998	0	0	19	0	102	229	272	293	203	10	0	3	1131
1999	0	0	0	5	54	248	423	207	123	1	0	0	1061
2000	0	0	0	1	84	202	223	199	99	17	0	0	825
2001	0	0	0	45	63	175	268	271	66	14	0	0	902
2002	0	0	0	40	41	245	390	342	178	33	0	0	1269
2003	0	0	0	10	22	116	229	255	48	6	1	0	687
2004	0	0	0	11	120	149	231	153	103	4	0	0	771
2005	0	0	0	7	14	257	322	316	134	25	0	0	1075
2006	0	0	0	8	65	133	337	275	27	10	0	0	855
2007	0	0	9	12	111	214	212	377	161	64	0	0	1160
2008	0	0	0	8	25	208	265	207	126	14	0	0	853
2009	0	0	1	35	59	212	152	210	62	3	0	0	734
2010	0	0	0	28	90	258	363	339	147	20	0	0	1245
2011	0	0	0	3	109	207	465	285	89	2	0	0	1160
2012	0	0	30	4	149	247	473	258	94	9	0	0	1264
2013	0	0	0	16	115	208	289	259	140	35	0	0	1062

SNOWFALL (inches) 2013 DAYTON (KDAY)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.0	3.2	5.3	14.0	12.6	0.3	2.3	0.0	0.0	37.7
1985-86	0.0	0.0	0.0	0.0	0.0	7.5	4.2	10.4	1.6	0.3	0.0	0.0	24.0
1986-87	0.0	0.0	0.0	0.0	1.1	1.7	3.6	3.4	7.9	2.2	0.0	0.0	19.9
1987-88	0.0	0.0	0.0	0.0	0.5	2.0	3.2	7.2	2.1	T	0.0	0.0	15.0
1988-89	0.0	0.0	0.0	T	1.0	4.8	0.1	4.0	5.7	0.1	T	0.0	15.7
1989-90	0.0	0.0	0.0	5.8	0.4	8.6	3.8	3.8	2.2	0.2	0.0	0.0	24.8
1990-91	0.0	0.0	0.0	0.0	0.0	3.5	5.3	1.5	2.4	0.0	0.0	0.0	12.7
1991-92	0.0	0.0	0.0	0.0	1.9	1.0	9.1	1.1	2.9	1.0	0.0	0.0	17.0
1992-93	T	0.0	0.0	0.1	0.8	1.8	2.8	16.4	7.2	T	0.0	0.0	29.1
1993-94	0.0	0.0	0.0	4.1	1.2	6.5	16.8	5.3	7.0	2.3	0.0	0.0	43.2
1994-95	0.0	0.0	0.0	0.0	0.0	1.3	9.4	5.3	2.0	0.4	T	0.0	18.4
1995-96	T	0.0	0.0	0.0	0.6	7.9	24.6	2.0	6.0	1.2	0.0		
1996-97													
1997-98							1.4	3.2	4.0	0.0	0.0	0.0	
1998-99	0.0	0.0	0.0	0.0	0.0	1.6	17.4	3.7	7.9	0.0	0.0	0.0	30.6
1999-00	0.0	0.0	0.0	0.0	T	0.9	16.9	3.5	5.4	0.0	0.0	0.0	26.7
2000-01	0.0	T	0.0	0.0	0.5	8.0	1.8	5.1	0.4	0.2	0.0	0.0	16.0
2001-02	0.0	0.0	0.0	T	0.0	0.5	3.6	1.1	0.5	0.4	0.0	0.0	6.1
2002-03	0.0	0.0	0.0	0.0	1.8	5.8	14.0	21.2	0.9	0.0	0.0	0.0	43.7
2003-04	0.0	0.0	0.0	0.0	0.2	3.2	6.2	2.3	5.8	T	0.0	0.0	17.7
2004-05	0.0	0.0	0.0	T	T	17.0	9.2	2.7	3.0	1.0	0.0	0.0	32.9
2005-06	0.0	0.0	0.0	0.0	0.6	12.9	3.4	5.3	3.5	T	T	0.0	25.7
2006-07	0.0	0.0	T	T	T	2.2	4.0	11.7	T	0.4	T	0.0	18.3
2007-08	0.0	0.0	0.0	0.0	0.3	7.7	5.5	12.2	15.7	0.0	0.0	0.0	41.4
2008-09	0.0	0.0	0.0	0.0	2.2	2.0	13.7	1.2	T	T	0.0	0.0	19.1
2009-10	0.0	0.0	0.0	0.0	0.0	6.0	9.0	23.0	2.0	0.0	0.0	0.0	40.0
2010-11	0.0	0.0	0.0	0.0	T	9.4	10.2	4.9	2.0	0.0	0.0	0.0	26.5
2011-12	0.0	0.0	0.0	0.0	1.0	0.7	5.3	2.0	0.2	0.0	0.0	0.0	9.2
2012-13	0.0	0.0	0.0	0.7	0.2	10.9	6.1	3.8	14.2	0.4	0.0	0.0	36.3
2013-	0.0	0.0	0.0	1.0	1.0	12.6							
POR= 65 YRS	T	T	T	0.2	1.8	5.5	8.4	6.3	5.1	0.6	T	0.0	27.9

WBAN : 93815

REFERENCE NOTES :

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).

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

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.

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.

2013 DAYTON OHIO (KDAY)

Dayton is located near the center of the Miami River Valley, which is a nearly flat plain, 50 to 200 feet below the general elevation of the adjacent rolling country. Three Miami River tributaries, the Mad River, the Stillwater River, and Wolf Creek converge, fanwise, from the north to join the master stream within the city limits of Dayton. Heavy rains in March 1913 caused the worst flood disaster in the history of the Miami Valley. During the flood more than 400 people lost their lives and property damage amounted to \$100 million. After the 1913 flood, dams were built on the streams north of Dayton, forming retarding basins. No floods have occurred at Dayton since the construction of these dams.

The elevation of the city of Dayton is about 750 feet. Terrain north of the city slopes gradually upward to about 1,100 feet at Indian Lake. Ten miles southeast of Indian Lake, near Bellefontaine, is the highest point in the state, with an elevation of about 1,550 feet. South of the city, the terrain slopes gradually downward to about 450 feet where the Miami River empties into the Ohio River.

Precipitation, which is rather evenly distributed throughout the year, and moderate temperatures help to make the Miami Valley a rich agricultural region. High relative humidities during much of the year cause some discomfort to people with allergies. Temperatures of zero or below will be experienced in about four years out of five, while 100 degrees or higher will be recorded in about one year out of five. Extreme temperatures are usually of short duration. The downward slope of about 700 feet in the 163 miles of the Miami River may have some moderating influence on the winter temperatures in the Miami Valley.

The average last occurrence in the spring of freezing temperatures is mid-April, and the average first occurrence in the autumn is late October.

Cold, polar air, flowing across the Great Lakes, causes much cloudiness during the winter, and is accompanied by frequent snow flurries. These add little to the total snowfall.

Station History

DAYTON, OH

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
DAYTON MUNICIPAL AP	1969-01-01	1974-01-01	39° 54'	-84° 13'	1027		COOP, WXSVC
DAYTON JAMES M COX MUNICIPAL AP	1975-01-01	1978-09-01	39° 54'	-84° 12'	995		COOP, WXSVC
DAYTON MUNICIPAL AP	1948-01-01	1949-01-01	39° 54'	-84° 12'	1004		AIRWAYS, COOP
DAYTON MUNICIPAL AP	1974-01-01	1974-02-01	39° 54'	-84° 13'	1004		COOP, WXSVC
DAYTON JAMES M COX MUNICIPAL AP	1974-02-01	1975-01-01	39° 54'	-84° 13'	1004		COOP, WXSVC
DAYTON INTL AP	1981-12-31	1995-11-01	39° 54'	-84° 12'	995		COOP
DAYTON INTL AP	1998-05-01	Present	39° 54'	-84° 13'	1000		ASOS, COOP
DAYTON JAMES M COX MUNICIPAL AP	1930-01-01	1930-05-07	39° 54'	-84° 12'			AIRWAYS
DAYTON MUNICIPAL AP	1930-05-07	1943-06-15	39° 54'	-84° 12'			AIRWAYS
DAYTON MUNICIPAL AP	1962-01-01	1969-01-01	39° 54'	-84° 13'	1027		AIRWAYS, COOP
DAYTON MUNICIPAL AP	1943-06-15	1948-01-01	39° 54'	-84° 12'			AIRWAYS, COOP
DAYTON MUNICIPAL AP	1949-01-01	1962-01-01	39° 54'	-84° 12'	1017		AIRWAYS, COOP
DAYTON INTL AP	1978-09-01	1981-12-31	39° 54'	-84° 12'	995		COOP, WXSVC
DAYTON INTL AP	1995-11-01	1998-05-01	39° 54'	-84° 13'	995		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1995-07-01	1995-11-01	DAILY	2400			
PRECIP	1995-11-01	1998-05-01	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1982-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-11-01	1998-05-01	DAILY	2400	UNIV	RCRD	
TEMP	1998-05-01	Present	DAILY	2400	HYGR		
PRECIP	1998-05-01	Present	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-11-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-11-01	1998-05-01	DAILY	2400			
PRECIP	1982-01-01	1995-07-01	HOURLY	2400			
TEMP	1982-01-01	1995-07-01	DAILY	2400			
PRECIP	1995-07-01	1995-11-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1911-07-01	1982-01-01	DAILY	2400	UNIV	RCRD	
TEMP	1911-07-01	1982-01-01	DAILY	2400			
PRECIP	1998-05-01	Present	HOURLY	2400	AHTB	RCRD;HTD	

* 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>

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