

2002

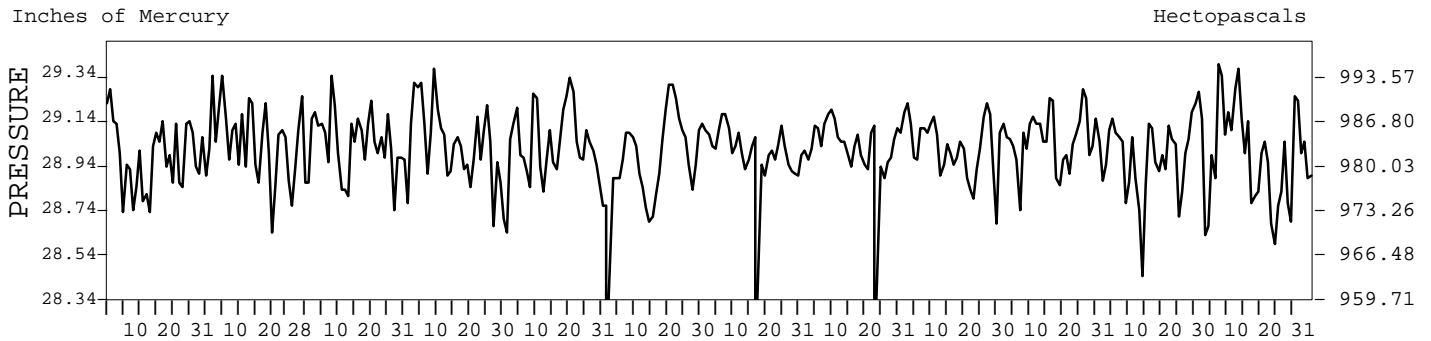
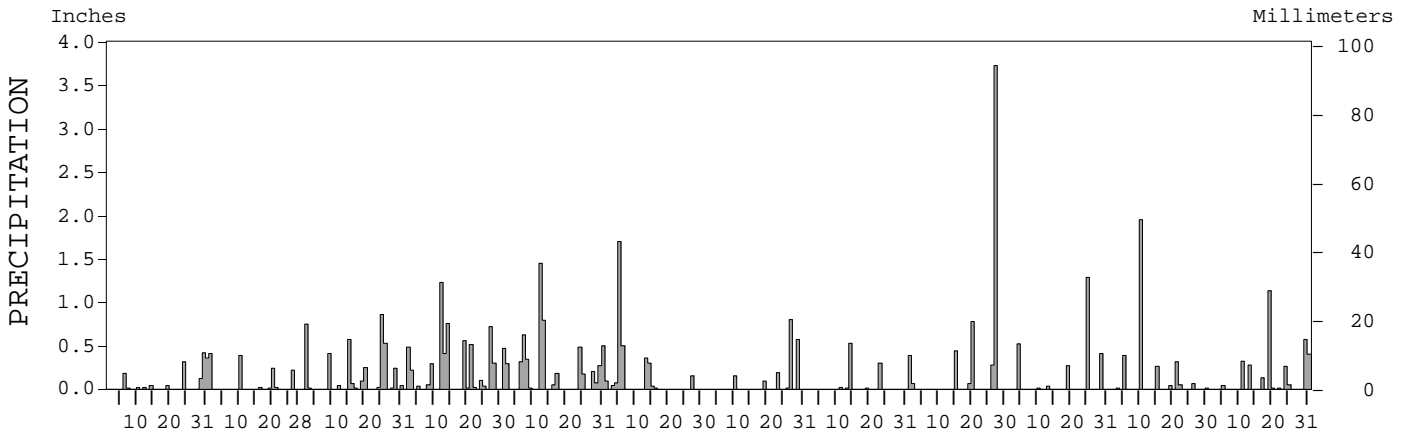
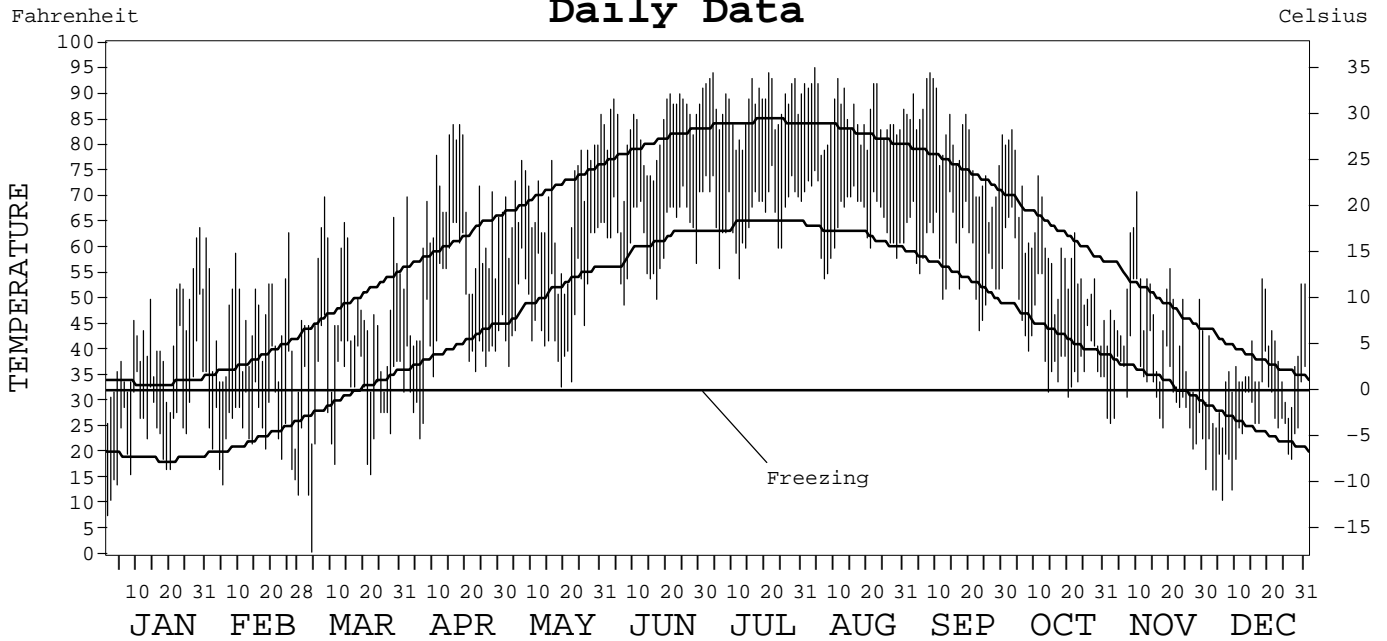
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3970

DAYTON,  
OHIO (DAY)

## Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

DIRECTOR NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2002

## DAYTON, OH (DAY)

LATITUDE: 39° 54' 22" N      LONGITUDE: 84° 13' 07" W      ELEVATION (FT): GRND: 1001      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	42.6	44.0	48.2	63.3	68.8	82.5	88.1	86.0	80.6	59.7	46.2	36.7	62.2	
	HIGHEST DAILY MAXIMUM	64	63	70	84	86	90	94	95	94	83	71	54	95	
	DATE OF OCCURRENCE	29	25	08	18+	31	24+	21+	04	08	03	10	18	AUG 04	
	MEAN DAILY MINIMUM	26.7	25.3	30.5	43.7	48.3	62.3	66.7	65.5	58.7	43.2	33.0	24.7	44.1	
	LOWEST DAILY MINIMUM	8	12	1	23	33	49	54	54	44	31	21	11	1	
	DATE OF OCCURRENCE	01	28	04	06	19	07	12	07	23	20	27	06	MAR 04	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	31.7	30.5	35.4	48.1		65.8			61.9	47.6	36.6	28.7		
	MEAN DEW POINT	26.8	23.2	29.2	42.5		61.7			56.8	43.4	32.1	24.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	2	13	9	5	0	0	0	0	29
	MAXIMUM ≤ 32°	6	2	4	0	0	0	0	0	0	0	3	9	24	
	MINIMUM ≤ 32°	23	25	14	6	0	0	0	0	0	2	17	26	113	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	933	843	787	376	234	16	0	0	34	442	751	1057	5473	
	COOLING DEGREE DAYS	0	0	0	40	41	245	390	342	178	33	0	0	1269	
RH	MEAN (PERCENT)	75	65	69	69	69	71	65	68	68	75	76	77	71	
	HOUR 01 LST	75	67	72	78	77	83	78	81	76	82	80	80	77	
	HOUR 07 LST	84	76	76	82	78	82	81	85	85	88	83	83	82	
	HOUR 13 LST	68	57	63	57	60	56	50	51	51	62	67	70	59	
	HOUR 19 LST	72	59	67	62	63	64	54	58	61	71	73	75	65	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	5	1	1	0	3	2	3	0	2	0	0	3	20	
	THUNDERSTORMS	0	1	1	5	8	8	4	3	3	0	1	0	34	
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.)	28.96	29.03	29.03	29.02	29.00				29.00	29.03	28.95	28.98		
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	30.13	30.12	30.10					30.05	30.11	30.04	30.08		
WINDS	RESULTANT SPEED (MPH)	7.0	7.9	4.4	4.3	2.8	2.8			1.2	0.4	6.3	3.9		
	RES. DIR. (TENS OF DEGS.)	23	24	23	24	24	23			15	33	25	24		
	MEAN SPEED (MPH)	11.2	12.4	11.9	11.2	10.1	8.0	8.0	8.2	7.2	8.6	12.0	11.8	10.1	
	PREVAIL. DIR. (TENS OF DEGS.)	20	21	22	20	20	21	22	22	19	21	20	22	20	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	29	41	49	44	38	43	43	28	31	31	38	32	49	
	DIR. (TENS OF DEGS.)	26	27	27	26	28	24	26	34	24	15	29	24	27	
	DATE OF OCCURRENCE	14+	01	09	28	25	05	29	11	20	04	10	21	MAR 09	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	36	51	58	59	49	54	49	36	39	39	47	41	59	
DIR. (TENS OF DEGS.)	27	28	27	25	28	24	26	26	23	17	29	16	25		
DATE OF OCCURRENCE	15	01	09	28	25	05	29	22	20	04	10	19	APR 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.46	0.76	1.01	1.62	1.79	2.20	0.81	0.54	4.01	1.29	1.95	1.13	4.01	
	DATE OF OCCURRENCE	29-30	31-01	25-26	12-13	12-13	05-06	26-27	13-14	26-27	25	10	19	SEP 26-27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	10	7	15	16	16	10	6	5	7	6	9	11	118	
PRECIPITATION ≥ 0.10	5	4	7	11	13	5	4	2	5	4	4	7	71		
PRECIPITATION ≥ 1.00	0	0	0	1	1	1	0	0	1	1	1	1	7		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	3.6	1.1	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.8	13.2	
	GREATEST 24-HOUR (IN.)	3.1	0.6	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.1	3.1	
	DATE OF OCCURRENCE	06	26	25	05							26	24	JAN 06	
	MAXIMUM SNOW DEPTH (IN.)	4	0	1	0	0	0	0	0	0	0	1	3	4	
	DATE OF OCCURRENCE	07		25+								27+	25	JAN 07	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	1	0	0	0	0	0	0	0	0	0	1	4	6		

# NORMALS, MEANS, AND EXTREMES

## DAYTON, OH (DAY)

LATITUDE: 39° 54' 22" N      LONGITUDE: 84° 13' 07" W      ELEVATION (FT): GRND: 1001      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	33.7	38.2	49.3	60.7	71.2	80.1	84.2	82.3	75.6	63.5	50.1	38.5	60.6
	MEAN DAILY MAXIMUM	55	35.1	39.3	49.0	61.8	72.2	81.4	85.0	83.3	76.7	64.8	50.7	39.2	61.5
	HIGHEST DAILY MAXIMUM	59	71	73	82	89	93	102	102	102	101	89	79	72	102
	YEAR OF OCCURRENCE		1950	2000	1986	1962	1962	1988	1988	1988	1954	1951	1975	1998	AUG 1988
	MEAN OF EXTREME MAXS.	55	57.3	61.6	72.7	80.9	86.2	92.4	93.8	92.7	89.6	80.7	70.4	60.6	78.2
	NORMAL DAILY MINIMUM	30	19.0	22.4	31.2	40.4	51.1	60.2	64.4	62.2	54.6	43.5	34.3	24.4	42.3
	MEAN DAILY MINIMUM	55	19.6	22.6	30.6	40.8	51.2	60.4	64.7	62.6	55.2	44.0	34.1	24.3	42.5
	LOWEST DAILY MINIMUM	59	-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.	55	-3.0	1.7	11.9	24.8	35.5	47.2	52.7	50.2	39.2	29.0	17.8	3.4	25.9
	NORMAL DRY BULB	30	26.0	29.4	40.5	51.2	61.7	70.4	74.2	72.2	65.8	54.1	42.9	31.6	51.7
	MEAN DRY BULB	55	27.4	31.0	39.8	51.2	61.7	70.9	74.7	72.9	65.8	54.4	42.3	31.7	52.0
	MEAN WET BULB	19	26.2	29.6	35.9	45.8	55.1	63.8	63.7	62.1	59.2	46.0	38.8	29.5	46.3
	MEAN DEW POINT	19	21.8	24.2	29.6	39.2	49.5	58.9	59.7	58.6	54.4	40.9	34.0	25.2	41.3
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	0.5	3.7	6.7	3.8	1.2	0.0	0.0	0.0	15.9	
MAXIMUM ≤ 32°	30	13.9	9.3	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	8.7	35.3	
MINIMUM ≤ 32°	30	27.5	23.4	18.0	6.3	0.4	0.0	0.0	0.0	*	3.7	13.6	24.3	117.2	
MINIMUM ≤ 0°	30	3.5	1.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	
H/C	NORMAL HEATING DEG. DAYS	30	1185	973	760	427	167	24	2	7	90	358	670	1027	5690
	NORMAL COOLING DEG. DAYS	30	0	0	2	9	62	194	305	246	105	11	1	0	935
RH	NORMAL (PERCENT)	30	73	72	70	64	65	66	69	72	72	69	73	76	70
	HOUR 01 LST	30	75	75	74	71	74	76	79	82	81	77	77	78	77
	HOUR 07 LST	30	77	78	78	76	77	78	82	86	87	82	81	80	80
	HOUR 13 LST	30	68	66	62	54	54	53	55	57	57	56	65	71	60
	HOUR 19 LST	30	71	70	65	58	57	56	59	63	65	64	71	75	64
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) THUNDERSTORMS	60 60	3.6 0.4	2.7 0.5	1.9 2.4	0.7 4.3	1.1 6.2	0.9 7.3	1.2 7.1	1.7 5.9	1.7 3.0	1.3 1.5	1.8 0.8	3.0 0.3	21.6 39.7
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS) MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR	0			4.0		1.0								
	PARTLY CLOUDY CLOUDY	0 1	2.0 3.0	3.0 7.0			1.0 1.0	1.0							
PR	MEAN STATION PRESSURE(IN)	30	29.00	28.99	28.90	28.90	28.90	28.90	29.00	29.00	29.00	29.00	29.00	29.00	28.97
	MEAN SEA-LEVEL PRES. (IN)	19	30.12	30.11	30.06	29.99	30.00	30.01	30.03	30.06	30.08	30.11	30.10	30.16	30.07
WINDS	MEAN SPEED (MPH)	50	11.5	11.2	11.7	11.2	9.6	8.7	7.9	7.3	8.1	9.1	11.0	11.1	9.9
	PREVAIL.DIR(TENS OF DEGS)	34	27	21	27	20	22	21	24	22	20	21	20	20	21
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	7	43	45	49	49	54	43	61	33	43	43	44	46	61
	DIR. (TENS OF DEGS)		25	28	27	25	24	24	29	35	22	26	22	25	29
	YEAR OF OCCURRENCE		1997	2001	2002	2000	1999	2002	1998	2001	2000	2001	1998	2000	JUL 1998
MAXIMUM 5-SECOND:															
SPEED (MPH)	7	53	55	58	59	60	68	74	53	53	49	53	54	74	
DIR. (TENS OF DEGS)		25	22	27	25	24	20	30	28	24	24	17	25	30	
YEAR OF OCCURRENCE		1997	1997	2002	2002	1999	2000	1998	1999	2000	1996	2001	2000	JUL 1998	
PRECIPITATION	NORMAL (IN)	30	2.60	2.29	3.29	4.03	4.17	4.21	3.75	3.49	2.65	2.72	3.30	3.08	39.58
	MAXIMUM MONTHLY (IN)	59	9.86	5.77	7.65	9.20	9.05	10.89	8.55	8.03	6.87	6.25	8.07	10.04	10.89
	YEAR OF OCCURRENCE		1950	1990	1964	1996	1995	1958	1990	1974	1996	1986	1985	1990	JUN 1958
	MINIMUM MONTHLY (IN)	59	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)	59	4.30	2.79	2.87	3.10	3.64	3.76	4.54	3.62	4.01	3.75	2.93	2.86	4.54
	YEAR OF OCCURRENCE		1959	1959	1964	1977	1989	1981	1990	1974	2002	1986	1955	1990	JUL 1990
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	12.6	11.1	13.2	12.2	11.6	10.2	10.3	9.7	8.3	9.4	11.6	12.9	133.1	
PRECIPITATION ≥ 1.00	30	0.2	0.3	0.4	0.6	0.8	0.9	0.9	0.8	0.6	0.4	0.5	0.5	6.9	
SNOWFALL	NORMAL (IN)	30	9.9	6.5	4.8	0.8	0.*	0.0	0.0	0.0	0.0	0.4	1.4	5.4	29.2
	MAXIMUM MONTHLY (IN)	58	40.2	17.5	13.8	4.9	T	0.0	T	T	0.0	5.8	12.7	15.6	40.2
	YEAR OF OCCURRENCE		1978	1979	1984	1974	1995		1995	2000		1989	1950	1960	JAN 1978
	MAXIMUM IN 24 HOURS (IN)	58	12.2	7.7	11.3	4.7	T	0.0	T	T	0.0	5.0	10.0	7.6	12.2
	YEAR OF OCCURRENCE		1978	1984	1968	1974	1995		1995	2000		1989	1950	1974	JAN 1978
	MAXIMUM SNOW DEPTH (IN)	53	22	14	11	6	0	0	0	0	0	4	12	10	22
	YEAR OF OCCURRENCE		1978	1978	1963	1987						1989	1950	1951	JAN 1978
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	3.0	2.0	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.6	8.7	

PRECIPITATION (inches) 2002 DAYTON, OH (DAY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	1.63	1.28	4.64	3.45	3.10	5.72	3.76	3.93	0.69	3.28	3.86	3.14	38.48
1974	2.67	2.04	3.59	2.97	5.20	4.50	0.47	8.03	3.68	0.98	3.44	2.86	40.43
1975	3.59	3.95	3.34	3.99	2.28	2.23	5.50	4.75	3.30	2.45	2.18	3.53	41.09
1976	3.01	1.73	2.97	1.80	1.90	5.32	0.95	1.88	1.71	2.82	0.87	0.67	25.63
1977	1.64	1.78	3.50	5.13	2.02	2.46	1.73	3.59	2.73	3.85	2.67	4.47	35.57
1978	4.72	0.24	2.45	3.89	2.85	4.66	3.83	6.98	0.43	2.47	2.03	4.45	39.00
1979	3.29	2.85	1.35	3.62	2.90	4.34	4.43	7.95	3.51	2.03	4.91	2.12	43.30
1980	2.16	1.69	4.43	3.55	5.06	9.54	2.98	4.60	1.45	2.25	1.81	1.44	40.96
1981	0.30	3.37	1.18	5.06	4.76	6.32	5.08	3.51	5.06	2.79	2.80	3.46	43.69
1982	6.03	1.82	5.54	1.95	4.80	4.05	1.46	6.42	1.40	1.42	4.10	3.72	42.71
1983	1.39	0.65	2.67	4.73	4.43	5.73	3.57	1.16	0.88	5.54	4.21	2.89	37.85
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	0.03	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
POR= 90 YRS	2.86	2.19	3.37	3.65	3.91	3.89	3.52	3.05	2.66	2.52	2.88	2.63	37.13

WBAN : 93815

AVERAGE TEMPERATURE (°F) 2002 DAYTON, OH (DAY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	31.3	31.2	48.6	50.5	58.7	73.5	75.8	74.5	70.2	58.7	45.0	31.0	54.1
1974	32.4	29.5	42.5	52.7	60.1	67.3	75.5	73.7	60.5	52.5	44.4	33.0	52.0
1975	33.3	33.9	37.9	47.1	65.9	71.6	73.1	74.5	62.0	55.8	48.6	33.8	53.1
1976	24.1	38.6	46.4	52.3	59.1	70.5	73.1	68.8	61.7	47.6	35.2	26.4	50.3
1977	11.6	27.5	45.6	55.7	68.8	69.2	77.5	72.8	68.3	51.8	44.8	29.0	51.9
1978	18.7	16.9	34.8	51.7	60.4	71.6	73.3	71.1	69.4	52.0	44.9	34.4	49.9
1979	20.6	19.1	44.3	50.3	61.5	70.3	73.0	71.6	64.7	52.6	43.2	35.1	50.5
1980	28.0	22.9	35.7	48.3	62.3	68.1	76.8	77.0	68.8	49.3	39.3	31.2	50.6
1981	23.3	32.9	39.3	54.9	57.3	71.9	75.1	72.8	63.4	52.1	43.6	29.7	51.4
1982	20.9	27.6	40.0	46.6	67.9	66.7	75.0	70.7	63.9	55.4	43.9	39.6	51.5
1983	29.1	34.4	42.0	46.9	56.7	69.9	76.4	75.8	66.2	54.1	43.1	21.9	51.4
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
POR= 90 YRS	28.4	31.3	40.2	51.4	61.7	71.0	75.0	73.1	66.5	55.0	42.6	32.1	52.4

HEATING DEGREE DAYS (base 65°F) 2002 DAYTON, OH (DAY)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	2	31	227	593	1045	1004	986	691	379	198	42	5198
1974-75	0	0	164	384	613	988	977	868	835	530	84	22	5465
1975-76	2	0	130	292	492	957	1259	760	570	403	203	2	5070
1976-77	0	25	121	535	886	1191	1651	1042	600	309	63	36	6459
1977-78	0	7	45	403	605	1108	1428	1339	927	395	205	15	6477
1978-79	1	11	47	396	597	942	1372	1281	634	445	166	15	5907
1979-80	7	23	91	397	649	923	1145	1217	901	495	139	49	6036
1980-81	0	0	44	487	764	1043	1289	894	792	305	252	9	5879
1981-82	0	2	119	398	638	1089	1362	1039	766	546	27	22	6008
1982-83	1	9	102	320	630	782	1105	851	706	538	258	28	5330
1983-84	8	0	104	345	649	1331	1351	827	1051	493	263	2	6424
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-	0	0	34	442	751	1057							

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COOLING DEGREE DAYS (base 65°F) 2002 DAYTON, OH (DAY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	15	18	260	343	306	191	39	0	0	1172
1974	0	0	0	15	52	118	331	277	36	3	3	0	835
1975	0	0	0	2	119	228	257	302	46	13	7	0	974
1976	0	0	2	30	27	175	259	147	28	1	0	0	669
1977	0	0	4	36	188	167	393	255	153	0	3	0	1199
1978	0	0	0	1	66	219	265	210	184	0	0	0	945
1979	0	0	1	12	63	179	260	234	87	18	0	0	854
1980	0	0	0	0	61	148	373	378	164	6	0	0	1130
1981	0	0	1	11	17	221	321	251	76	5	0	0	903
1982	0	0	0	0	123	78	316	191	75	29	3	1	816
1983	0	0	0	1	8	180	369	339	148	10	0	0	1055
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

SNOWFALL (inches) 2002 DAYTON, OH (DAY)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	0.0	T	11.6	2.0	6.3	3.5	4.9	0.0	0.0	28.3
1974-75	0.0	0.0	0.0	T	6.6	8.8	8.2	6.4	11.1	T	0.0	0.0	41.1
1975-76	0.0	0.0	0.0	0.0	0.0	3.0	4.7	11.6	1.3	1.2	T	0.0	21.8
1976-77	0.0	0.0	0.0	T	2.6	3.9	20.2	10.6	1.2	0.3	0.0	0.0	38.8
1977-78	0.0	0.0	0.0	T	2.4	8.5	40.2	3.6	8.0	0.0	0.0	0.0	62.7
1978-79	0.0	0.0	0.0	0.0	T	1.1	20.5	17.5	0.2	T	0.0	0.0	39.3
1979-80	0.0	0.0	0.0	T	0.4	0.2	7.3	14.6	2.4	T	0.0	0.0	24.9
1980-81	0.0	0.0	0.0	T	5.3	3.3	5.7	2.0	3.3	0.0	0.0	0.0	19.6
1981-82	0.0	0.0	0.0	T	0.8	14.7	13.3	5.1	4.9	4.1	0.0	0.0	42.9
1982-83	0.0	0.0	0.0	0.0	0.1	0.3	1.5	2.5	0.9	0.2	0.0	0.0	5.5
1983-84	0.0	0.0	0.0	0.0	T	5.9	9.2	12.2	13.8	T	0.0	0.0	41.1
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	0.0	57.0
1996-97							1.4	3.2	4.0	0.0	0.0	0.0	
1997-98													
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-	0.0	0.0	0.0	0.0	1.8	5.8							
POR= 57 YRS	T	0.0	0.0	0.2	2.1	5.2	8.1	5.8	4.9	0.7	T	0.0	27.0

WBAN : 93815

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  
DAYTON,  
OHIO (DAY)

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 LOCATION

DAYTON, OHIO

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT * REMARKS	
						SEA LEVEL	GROUND										HYGRO THERMOMETER
							GROUND	WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE			
*NOTE: <u>AIRPORT</u> CAA Airway Station Municipal Airport (10.4 mi. NNW of P.O.)														a			
CAA Airway Station Municipal Airport (10.4 mi. NNW of P.O.)	5/7/30	6/15/43	NA	39°54'	84°12'	1000	41	4	4					a3	a. Installed 8/11/40.		
Army Modification Ctr. #11, South Admn. Bldg. Municipal Airport	6/15/43	12/6/61	0.6 WNW	39°54'	84°12'	1002	55	6	6	Unk	3	3	3	b			
Terminal Building James M. Cox Airport (Dayton Municipal)	12/6/61	2/4/74	0.75 WSW	39°54'	84°13'	997 c1002	20	5 e	5 e	Unk d95	15	17	15	b4	b. Telepsychrometer (6') 6/15/43-6/26/63. Hygro. comm. 1900' SSE of thermometer site 6/26/63. c. Effective 6/26/63. d. Effective 7/19/63. e. Removed in 1964.		
FSS/NWS Building James M Cox, Dayton Municipal Airport + + (eff. 10/15/78)	2/4/74	11/01/95	0.8 mi. ENE	39°54'	84°12'	f995	22		4	21	3	5	3	4 g4 h4	Instruments Installed 2/15/74. f. Established 8/1/74. g. Type change 1/1984. h. Type change 3/86.		
International Airport	11/01/95	Present	NA	39°54'	84°13'	i1001								S	ASOS Commissioned 11/01/95 i. Ground Elevation		

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