

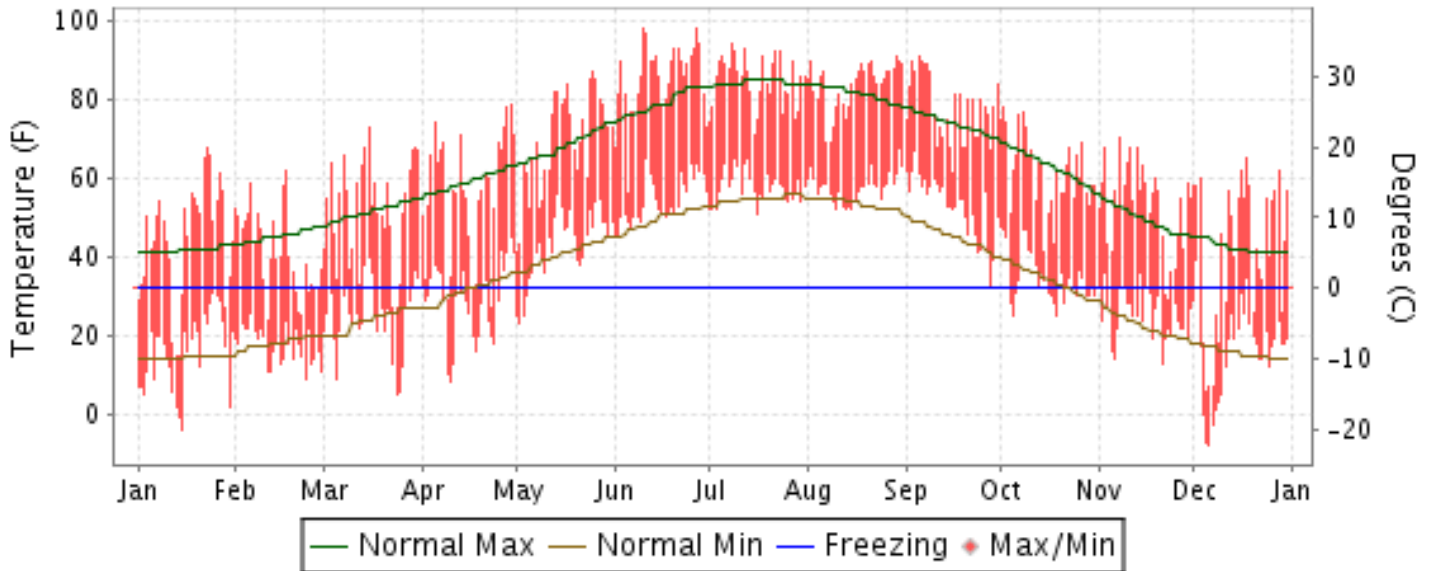


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

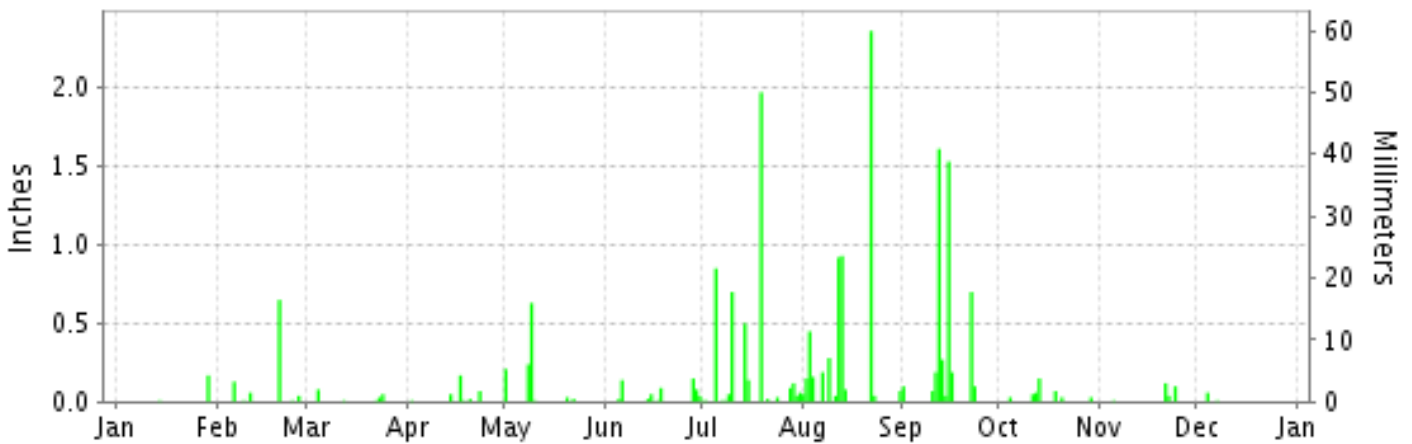
ISSN 0198-7704

COLORADO SPRINGS, COLORADO (KCOS)

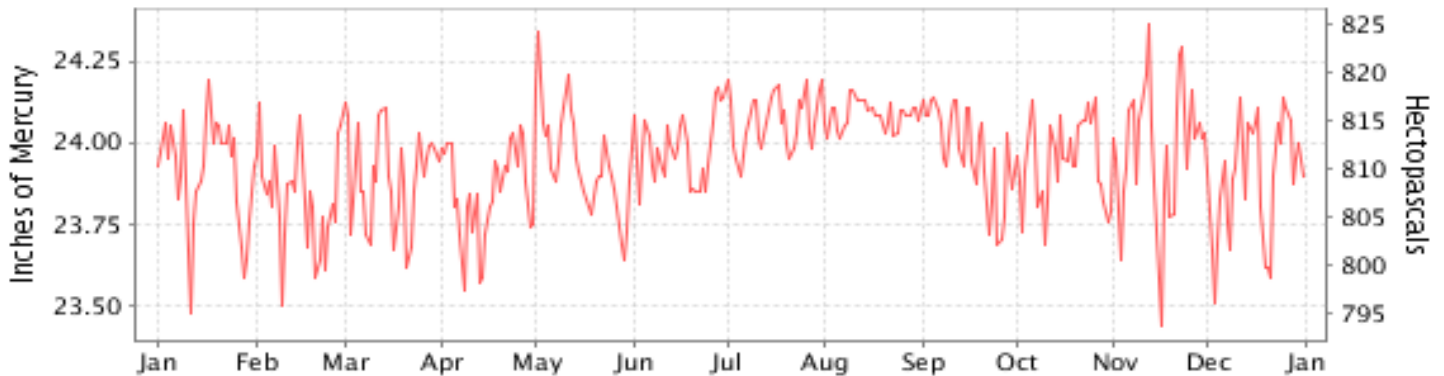
Daily Max/Min Temperature



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

COLORADO SPRINGS (KCOS)

LATITUDE: 38° 48'N LONGITUDE: 104° 41'W ELEVATION (FT): GRND: 6181 BARO: 6183 TIME ZONE: MOUNTAIN (UTC -7) WBAN: 93037

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	44.7	41.3	52.3	56.5	69.5	85.4	84.7	83.7	77.8	61.7	53.1	42.2	62.7	
	HIGHEST DAILY MAXIMUM	68	62	73	79	87	98	94	91	91	78	70	65	98	
	DATE OF OCCURRENCE	23	17	15	29	25	27+	08	29	05	02	08	18	JUN 27+	
	MEAN DAILY MINIMUM	15.8	17.5	24.7	28.8	43.1	54.6	57.8	57.9	53.1	34.7	25.3	16.2	35.8	
	LOWEST DAILY MINIMUM	-4	9	5	8	23	45	51	52	33	25	13	-8	-8	
	DATE OF OCCURRENCE	15	23	24	10	02	02+	16	15+	28	19+	21	06	DEC 06	
	AVERAGE DRY BULB	30.3	29.4	38.5	42.7	56.3	70.0	71.3	70.8	65.4	48.2	39.2	29.2	49.3	
	MEAN WET BULB	22.7	23.7	30.4	33.3	44.0	52.5	58.5	58.4	53.7	38.8	30.6	22.4	39.1	
	MEAN DEW POINT	5.8	12.5	17.7	20.0	29.5	35.9	49.9	50.8	44.5	27.6	17.9	10.2	26.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	14	9	4	3	0	0	0	30	
	MAXIMUM <= 32°	6	7	2	3	0	0	0	0	0	0	2	9	29	
	MINIMUM <= 32°	31	28	25	19	4	0	0	0	0	15	26	29	177	
MINIMUM <= 0°	2	0	0	0	0	0	0	0	0	0	0	4	6		
H/C	HEATING DEGREE DAYS	1069	991	812	663	284	25	5	5	73	512	766	1103	6308	
	COOLING DEGREE DAYS	0	0	0	0	22	182	206	192	92	0	0	0	694	
RH	MEAN (PERCENT)	42	54	48	48	43	36	53	55	54	52	49	52	49	
	HOUR 05 LST	50	65	62	62	59	50	69	68	68	65	59	58	61	
	HOUR 11 LST	27	41	34	34	28	22	35	37	39	32	34	40	34	
	HOUR 17 LST	37	50	40	39	32	25	43	51	48	46	48	52	43	
	HOUR 23 LST	52	61	58	58	55	46	66	67	63	67	59	60	59	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	2	2	4	2	0	1	0	3	3	3	3	24	
	THUNDERSTORMS	0	0	1	0	7	12	15	15	7	1	0	0	58	
PR	MEAN STATION PRESS. (IN.)	23.91	23.84	23.90	23.85	23.94	23.98	24.07	24.08	23.98	23.95	23.98	23.89	23.95	
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	30.03	30.03	29.92	29.91	29.85	29.95	29.99	29.89	29.99	30.13	30.10	29.99	
WINDS	RESULTANT SPEED (MPH)	1.6	3.3	1.9	1.7	1.8	1.3	1.8	1.8	1.8	1.5	1.6	2.4	1.5	
	RES. DIR. (TENS OF DEGS.)	03	36	01	01	35	13	06	04	11	05	01	36	03	
	MEAN SPEED (MPH)	7.6	8.7	9.5	10.9	9.7	10.1	8.6	7.2	8.7	8.2	8.8	8.8	8.9	
	PREVAIL.DIR.(TENS OF DEGS.)	01	34	36	16	34	16	35	34	14	36	01	35	01	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	46	40	49	49	39	37	38	38	31	43	43	40	49	
	DIR. (TENS OF DEGS.)	23	31	30	34	31	29	33	32	20	34	34	29	34	
	DATE OF OCCURRENCE	11	01	17	09	30	17	07	12	27	04	25	01	APR 09	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	62	53	63	61	48	47	49	49	40	52	55	51	63	
DIR. (TENS OF DEGS.)	21	32	30	34	30	30	33	32	27	35	23	31	30		
DATE OF OCCURRENCE	11	01	17	09	31	16	07	12	18	04	16	02	MAR 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.18	0.90	0.18	0.33	1.14	0.60	4.61	5.72	4.80	0.42	0.27	0.07	19.22	
	GREATEST 24-HOUR (IN.)	0.17	0.65	0.08	0.17	0.75	0.16	1.97	2.40	1.87	0.15	0.12	0.06	2.40	
	DATE OF OCCURRENCE	29	20	04	17	08-09	05-06	19	22-23	12-13	13	21	04	AUG 22-23	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	2	6	5	6	6	9	16	13	10	7	4	2	86		
PRECIPITATION 0.10	1	2	0	1	3	2	6	8	8	1	2	0	34		
PRECIPITATION 1.00	0	0	0	0	0	0	1	1	2	0	0	0	4		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	3.2	10.6	4.2	3.6	1.8	T	T	T	T	0.2	4.0	2.9	30.5	
	GREATEST 24-HOUR (IN.)	2.8	7.3	3.1	2.0	1.8	T	T	T	T	0.2	1.8	1.5	7.3	
	DATE OF OCCURRENCE	29	20	04	17	01	29+	10	14+	22	18	21	07	FEB 20	
	MAXIMUM SNOW DEPTH (IN.)	3	7	3	1	2	0	0	0	0	T	1	3	7	
	DATE OF OCCURRENCE	30	22+	01	23	02					18	26+	09+	FEB 22+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	1	2	1	2	1	0	0	0	0	0	2	2	11		

NORMALS, MEANS, AND EXTREMES COLORADO SPRINGS (KCOS)

LATITUDE: 38° 48'N **LONGITUDE:** 104° 41'W **ELEVATION (FT):** GRND: 6181 BARO: 6183 **TIME ZONE:** MOUNTAIN (UTC -7) **WBAN: 93037**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	43.2	44.8	52.1	59.8	69.1	79.0	84.8	81.6	74.5	63.0	51.0	42.1	62.1
	MEAN DAILY MAXIMUM	53	42.9	43.6	50.9	59.2	69.1	78.0	85.4	82.5	74.5	64.2	50.9	43.6	62.1
	HIGHEST DAILY MAXIMUM	64	73	76	81	87	94	101	100	99	94	86	78	77	101
	YEAR OF OCCURRENCE		1997	1963	1971	1992	2000	2012	2003	2008	1995	1979	2006	1955	JUN 2012
	MEAN OF EXTREME MAXS.	65	63.7	65.3	71.3	79.0	85.6	92.9	95.4	92.6	88.1	80.4	71.5	64.2	79.2
	NORMAL DAILY MINIMUM	30	17.7	19.5	26.0	33.3	42.7	51.3	56.9	55.7	47.3	35.8	25.2	17.5	35.7
	MEAN DAILY MINIMUM	53	16.7	18.5	24.7	32.6	42.6	50.4	57.2	55.5	47.0	36.3	24.7	18.0	35.4
	LOWEST DAILY MINIMUM	64	-26	-27	-11	-3	21	32	42	39	22	5	-8	-24	-27
	YEAR OF OCCURRENCE		1951	1951	1956	1959	1954	1951	1952	1992	1985	1969	1976	1990	FEB 1951
	MEAN OF EXTREME MINS.	65	-1.3	0.7	9.4	19.0	29.9	41.0	50.8	48.8	34.4	20.6	7.8	-1.8	21.6
	NORMAL DRY BULB	30	30.5	32.1	39.1	46.5	55.9	65.1	70.9	68.7	60.9	49.4	38.1	29.8	48.9
	MEAN DRY BULB	65	29.7	31.5	37.8	45.9	55.8	64.6	71.1	68.9	60.6	50.1	37.7	30.7	48.7
	MEAN WET BULB	30	20.4	22.5	27.2	33.2	42.2	49.2	55.0	54.8	46.6	36.2	26.3	20.9	36.2
	MEAN DEW POINT	30	15.4	16.6	22.5	28.3	38.0	45.6	50.9	51.5	42.3	31.0	21.7	15.5	31.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.2	3.0	8.3	2.6	0.5	0.0	0.0	0.0	14.6
	MAXIMUM <= 32	30	5.7	4.8	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.4	2.5	6.3	22.3
	MINIMUM <= 32	30	29.7	26.5	23.8	12.7	1.5	0.0	0.0	0.0	0.8	8.9	23.6	29.6	157.1
MINIMUM <= 0	30	1.4	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	4.8	
H/C	NORMAL HEATING DEG. DAYS	30	1071	920	805	554	291	79	10	21	159	484	807	1091	6292
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	9	83	191	134	36	1	0	0	455
RH	NORMAL (PERCENT)	30	52	51	51	50	53	50	51	56	52	49	52	53	52
	HOURLY 05 LST	30	58	59	62	64	69	67	68	71	67	60	60	58	64
	HOURLY 11 LST	30	42	41	40	38	40	37	36	41	39	36	40	43	39
	HOURLY 17 LST	30	47	40	38	37	39	36	38	43	38	37	46	49	41
	HOURLY 23 LST	30	59	58	58	58	62	58	60	66	61	57	60	59	60
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	36	2.6	3.4	3.7	2.8	1.7	0.9	0.9	1.3	1.4	2.3	2.9	2.6	26.5
	THUNDERSTORMS	36	0.0	0.1	0.6	2.1	7.2	10.0	12.7	13.0	4.3	0.7	0.1	0.0	50.8
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	1	3.2	3.7	5.6	6.0	4.8	3.6	3.6	5.6	3.2	4.0	3.2	2.4	4.1
	MIDNIGHT-MIDNIGHT (OKTAS)	1	4.0	3.6	6.4	6.0	4.8	3.2	3.6	5.6	3.2	4.4	2.8	2.4	4.2
	MEAN NO. DAYS WITH: CLEAR	3	5.3	8.3	8.0	5.0	1.0	3.0	7.0	6.0	11.0	10.5	6.0	11.0	82.1
	PARTLY CLOUDY	3	2.0	5.0	5.7	5.5	5.0	4.0	4.0	8.5	4.0	1.0	2.0	4.5	51.2
	CLOUDY	3	1.7	6.7	7.0	8.0	2.0	2.0	1.5	7.5	6.0	5.0	1.5	1.0	49.9
PR	MEAN STATION PRESSURE(IN)	30	23.90	23.88	23.87	23.87	23.92	23.97	24.06	24.07	24.03	23.98	23.93	23.90	23.95
	MEAN SEA-LEVEL PRES. (IN)	30	30.10	30.05	29.97	29.90	29.88	29.87	29.94	29.97	29.98	30.02	30.06	30.10	29.99
WINDS	MEAN SPEED (MPH)	30	8.8	9.5	10.4	11.5	10.6	10.0	8.9	8.5	9.0	9.4	8.9	8.8	9.5
	PREVAIL.DIR(TENS OF DEGS)	32	36	36	36	36	36	17	36	36	36	36	36	36	36
	MAXIMUM 2-MINUTE: SPEED (MPH)	20	49	61	56	61	58	51	49	48	45	59	49	53	61
	DIR. (TENS OF DEGS)		27	28	28	28	23	27	22	24	35	27	34	29	28
	YEAR OF OCCURRENCE		1996	1999	2004	1996	2006	2009	2000	2011	2012	2001	2010	1993	FEB 1999
	MAXIMUM 3-SECOND SPEED (MPH)	20	66	78	68	68	68	64	63	63	58	70	62	63	78
	DIR. (TENS OF DEGS)		25	28	29	30	25	21	14	04	24	30	35	28	28
YEAR OF OCCURRENCE		2012	1999	2004	1996	2010	2011	2012	2009	2009	1996	2010	2000	FEB 1999	
PRECIPITATION	NORMAL (IN)	30	0.32	0.34	1.00	1.42	2.03	2.50	2.84	3.34	1.19	0.82	0.40	0.34	16.54
	MAXIMUM MONTHLY (IN)	64	1.17	2.45	2.42	7.50	5.67	8.00	5.27	7.04	5.91	5.01	2.21	1.05	8.00
	YEAR OF OCCURRENCE		1987	1987	1998	1999	1957	1965	1968	1999	2011	1984	1957	1988	JUN 1965
	MINIMUM MONTHLY (IN)	64	T	T	0.01	0.01	0.33	0.13	0.28	0.12	T	0.01	T	T	0.01
	YEAR OF OCCURRENCE		1995	1991	1966	1964	2008	1990	2008	2012	1953	1980	1995	1995	OCT 1980
	MAXIMUM IN 24 HOURS (IN)	64	0.79	1.49	1.63	3.30	2.57	3.09	3.66	4.11	4.97	1.60	1.45	0.69	4.97
	YEAR OF OCCURRENCE		1987	1987	1998	1999	1955	1954	1997	1999	2008	1960	1979	1981	SEP 2008
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	3.9	4.6	7.6	8.3	10.6	10.2	11.5	13.6	7.3	5.0	4.6	4.3	91.5
	PRECIPITATION >= 1.00	30	0.0	0.0	0.1	0.1	0.3	0.5	0.7	0.5	0.1	0.0	0.0	0.0	2.3
SNOWFALL	NORMAL (IN)	30	5.6	4.9	8.1	4.9	0.7	0.0	0.0	0.0	0.2	2.9	4.7	5.7	37.7
	MAXIMUM MONTHLY (IN)	65	28.7	23.2	23.2	42.7	19.4	1.1	T	T	27.9	25.9	26.3	18.2	42.7
	YEAR OF OCCURRENCE		1987	1987	1984	1957	1978	1975	2013	2013	1959	1984	1991	1983	APR 1957
	MAXIMUM IN 24 HOURS (IN)	65	22.0	14.8	15.0	18.0	17.4	1.1	T	T	17.1	19.9	14.5	9.6	22.0
	YEAR OF OCCURRENCE		1987	1987	1998	1957	1978	1975	2013	2013	1959	1997	1972	1979	JAN 1987
	MAXIMUM SNOW DEPTH (IN)	37	16	12	15	12	11	0	0	0	2	20	11	10	20
	YEAR OF OCCURRENCE		1987	1987	1998	1997	1978				1985	1997	1979	1979	OCT 1997
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.9	1.4	2.4	1.4	0.2	0.0	0.0	0.0	0.1	0.8	1.4	2.0	11.6	

PRECIPITATION (inches) 2013 COLORADO SPRINGS (KCOS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.32	0.09	1.93	1.66	0.74	1.54	3.97	4.03	0.93	5.01	0.14	0.64	21.00
1985	0.42	0.24	1.68	2.07	3.36	0.78	4.92	1.56	1.49	0.52	0.42	0.55	18.01
1986	0.01	0.30	0.31	0.65	1.89	2.47	1.63	6.06	0.61	1.41	0.64	0.28	16.26
1987	1.17	2.45	1.79	0.50	3.82	2.89	0.67	2.77	0.55	0.54	0.44	0.64	18.23
1988	0.43	0.68	0.90	0.27	1.01	1.69	2.07	2.88	1.19	0.08	0.36	1.05	12.61
1989	0.23	1.23	0.49	1.06	1.11	3.42	2.26	2.63	2.30	0.28	0.02	0.41	15.44
1990	0.53	0.59	1.77	2.04	3.90	0.13	5.13	1.45	1.50	1.46	0.30	0.27	19.07
1991	0.09	T	0.42	1.76	0.80	3.07	2.87	4.57	0.56	0.88	2.05	0.45	17.52
1992	0.06	0.02	2.36	0.92	2.07	3.91	0.76	3.37	0.13	0.30	0.75	0.11	14.76
1993	0.52	0.21	0.79	1.02	1.60	1.27	2.38	2.17	1.44	0.91	0.97	0.11	13.39
1994	0.18	0.28	0.54	1.49	4.10	4.32	1.29	3.92	1.52	2.67	0.32	0.13	20.76
1995	T	0.21	0.71	3.05	4.81	7.78	1.91	1.77	1.87	0.02	T	T	22.13
1996	0.16	0.34	0.82	0.39	2.22	1.58	4.46	3.46	2.04	0.89	0.17	0.04	16.57
1997	0.11	0.18	0.34	3.30	1.16	5.44	4.63	4.70	1.78	0.98	0.22	0.10	22.94
1998	0.03	0.34	2.42	1.38	0.72	1.27	5.26	2.75	0.51	0.93	0.44	0.15	16.20
1999	0.12	0.05	0.41	7.50	3.57	1.36	4.70	7.04	0.52	1.10	1.01	0.20	27.58
2000	0.68	0.23	1.97	0.62	1.27	1.73	2.72	5.82	0.55	0.86	0.19	0.25	16.89
2001	0.82	0.26	1.38	0.98	3.21	2.14	3.25	1.47	1.01	0.02	0.37	0.09	15.00
2002	0.25	0.11	0.29	0.02	1.12	1.17	1.62	0.43	1.31	1.33	0.09	0.11	7.85
2003	0.03	0.63	1.02	0.97	0.90	5.07	1.14	1.89	0.58	0.09	0.04	0.06	12.42
2004	0.52	0.39	0.38	2.68	0.61	6.01	4.13	4.84	0.50	0.18	0.65	0.24	21.13
2005	0.78	0.04	1.03	1.08	0.73	2.10	1.91	2.65	0.68	0.48	0.08	0.30	11.86
2006	0.24	0.04	0.24	0.09	0.81	0.82	4.42	3.52	1.51	1.57	0.19	0.39	13.84
2007	0.31	0.17	0.66	1.85	2.35	0.94	1.74	2.69	0.34	0.25	0.10	0.39	11.79
2008	0.46	0.19	0.96	0.39	0.33	0.51	0.28	4.30	4.97	0.14	0.25	0.15	12.93
2009	0.09	0.04	0.45	1.52	2.39	2.89	3.82	1.84	1.20	0.36	0.45	0.67	15.72
2010	0.12	0.49	0.55	1.25	0.82	0.34	2.67	2.47	0.09	0.43	0.07	0.07	9.37
2011	0.11	0.14	0.54	0.68	0.69	0.26	4.90	1.49	5.91	0.87	0.19	0.46	16.24
2012	0.02	0.29	0.06	0.85	0.78	0.59	3.56	0.12	1.42	0.14	0.02	0.26	8.11
2013	0.18	0.90	0.18	0.33	1.14	0.60	4.61	5.72	4.80	0.42	0.27	0.07	19.22
POR= 65 YRS	0.29	0.32	0.85	1.32	2.06	2.19	2.93	2.91	1.38	0.77	0.44	0.32	15.78

WBAN : 93037

AVERAGE TEMPERATURE (°F) 2013 COLORADO SPRINGS (KCOS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	26.1	33.3	35.3	41.4	58.2	65.1	71.5	68.4	59.5	42.8	38.4	33.1	47.8
1985	25.1	26.3	37.9	48.7	57.2	65.0	70.3	69.8	58.0	49.0	32.1	27.9	47.3
1986	38.2	34.7	44.3	48.5	54.6	65.8	70.4	67.6	59.1	48.0	37.7	29.8	49.9
1987	29.4	33.0	35.3	48.5	56.0	65.1	70.7	66.1	60.0	50.4	39.2	29.0	48.6
1988	24.3	31.8	36.2	48.2	56.4	68.7	70.6	70.4	60.8	53.0	39.2	29.2	49.1
1989	32.8	21.8	43.7	49.0	57.6	62.1	71.8	68.4	61.0	49.7	41.5	27.3	48.9
1990	33.6	31.7	38.9	47.1	53.8	69.5	68.0	68.0	64.5	49.5	42.7	24.3	49.3
1991	28.0	38.0	39.9	45.8	58.0	67.0	69.4	68.1	60.5	50.3	33.0	31.0	49.1
1992	32.6	37.6	41.6	52.1	57.8	62.5	68.4	66.6	62.9	52.4	31.9	29.3	49.6
1993	26.7	29.4	39.8	46.1	55.6	65.0	70.7	67.3	58.1	48.0	32.3	32.3	47.6
1994	31.5	31.6	40.6	45.5	57.7	69.1	69.8	70.2	62.7	49.1	37.4	33.6	49.9
1995	31.4	35.8	38.7	41.3	49.4	60.6	67.4	71.9	59.0	48.9	41.4	32.1	48.2
1996	27.2	34.0	35.5	47.2	59.6	65.7	69.8	67.6	57.4	49.0	38.1	33.0	48.7
1997	27.1	30.2	40.7	39.5	53.8	64.3	70.5	67.1	62.2	48.5	33.5	30.5	47.3
1998	32.1	31.6	35.4	43.0	58.9	63.8	71.0	67.6	65.4	50.0	41.7	28.3	49.1
1999	33.7	38.1	42.1	42.2	53.4	62.9	71.1	68.7	57.7	50.8	44.9	33.6	49.9
2000	32.1	38.0	39.0	48.8	59.4	64.2	71.9	71.4	62.0	49.7	30.3	28.0	49.6
2001	27.1	30.3	37.4	49.4	55.1	66.5	73.5	69.8	63.1	50.9	41.0	31.6	49.6
2002	30.1	31.8	35.4	50.4	56.3	70.8	73.9	70.0	62.4	44.9	37.2	31.8	49.6
2003	35.8	26.8	40.4	49.8	57.0	61.5	75.8	71.1	58.3	53.9	37.1	33.4	50.1
2004	30.7	30.2	44.7	46.3	59.2	62.7	67.3	64.5	61.0	50.8	35.9	32.7	48.8
2005	33.4	35.1	37.9	46.6	56.4	65.4	73.3	67.7	64.5	50.4	41.3	28.6	50.1
2006	34.8	30.0	38.5	51.0	59.0	69.9	71.7	68.1	56.2	47.5	40.1	31.3	49.8
2007	24.6	33.0	44.5	45.1	55.4	64.7	72.2	72.6	63.4	52.6	41.3	27.3	49.7
2008	26.7	32.7	38.4	45.1	55.2	65.9	74.2	68.5	60.4	50.8	41.7	30.2	49.2
2009	34.0	36.1	41.0	45.6	57.2	64.0	68.7	67.4	59.7	42.7	41.4	23.3	48.4
2010	30.8	27.8	40.7	48.0	55.4	69.6	72.7	70.9	67.0	53.7	38.1	34.5	50.8
2011	29.3	29.3	43.1	48.3	54.2	70.5	75.1	74.1	62.5	50.7	40.6	28.9	50.6
2012	36.3	32.1	48.0	52.4	59.8	73.3	75.4	71.2	63.0	49.3	43.5	31.0	52.9
2013	30.3	29.4	38.5	42.7	56.3	70.0	71.3	70.8	65.4	48.2	39.2	29.2	49.3
POR= 65 YRS	29.7	31.5	37.8	45.9	55.8	64.6	71.1	68.9	60.6	50.1	37.7	30.7	48.7

HEATING DEGREE DAYS (base 65°F) 2013 COLORADO SPRINGS (KCOS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0	6	200	684	790	982	1233	1077	830	481	242	77	6602
1985-86	5	8	253	487	978	1142	822	840	635	487	315	49	6021
1986-87	4	14	174	519	813	1081	1096	888	912	491	272	50	6314
1987-88	17	74	150	445	767	1108	1256	958	886	499	273	25	6458
1988-89	7	8	154	366	767	1099	989	1207	655	475	247	134	6108
1989-90	0	4	172	473	699	1164	966	928	805	526	345	24	6106
1990-91	28	21	83	473	663	1258	1142	750	773	568	219	33	6011
1991-92	16	16	145	453	954	1048	998	788	717	383	219	96	5833
1992-93	21	53	91	383	990	1101	1179	991	776	558	286	84	6513
1993-94	0	40	212	519	972	1008	1032	926	749	576	223	14	6271
1994-95	10	14	98	486	821	969	1035	811	808	702	477	152	6383
1995-96	38	3	231	490	700	1011	1162	890	908	527	192	48	6200
1996-97	2	17	237	490	800	986	1167	967	747	758	341	70	6582
1997-98	6	28	111	506	937	1060	1012	928	911	653	208	116	6476
1998-99	3	6	43	458	691	1129	965	748	702	674	357	101	5877
1999-00	0	5	239	434	600	968	1010	773	798	478	206	83	5594
2000-01	0	2	150	473	1033	1137	1169	964	850	462	305	54	6599
2001-02	0	6	97	431	714	1029	1075	925	909	431	280	22	5919
2002-03	0	7	135	622	828	1023	898	1062	755	449	265	116	6160
2003-04	0	16	200	337	828	972	1056	1002	620	554	185	112	5882
2004-05	33	65	150	432	868	998	973	830	834	544	280	71	6078
2005-06	2	24	72	450	703	1120	930	974	814	414	216	17	5736
2006-07	4	21	257	537	739	1039	1247	890	629	593	288	70	6314
2007-08	0	0	106	382	704	1164	1183	932	819	591	312	57	6250
2008-09	0	38	145	432	689	1073	955	804	736	575	244	94	5785
2009-10	22	19	175	683	703	1287	1055	1036	746	503	318	35	6582
2010-11	4	2	23	343	801	937	1098	991	671	496	338	6	5710
2011-12	0	0	116	439	723	1112	883	948	519	373	178	1	5292
2012-13	0	5	111	482	638	1048	1069	991	812	663	284	25	6128
2013-	5	5	73	512	766	1103							

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COOLING DEGREE DAYS (base 65°F) 2013 COLORADO SPRINGS (KCOS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	17	68	207	119	42	0	0	0	453
1985	0	0	0	0	5	83	179	163	51	0	0	0	481
1986	0	0	0	0	1	82	180	102	3	0	0	0	368
1987	0	0	0	0	0	62	199	113	6	0	0	0	380
1988	0	0	0	0	12	143	190	181	33	0	0	0	559
1989	0	0	0	3	25	54	220	117	57	3	0	0	479
1990	0	0	0	0	6	168	128	121	73	0	0	0	496
1991	0	0	0	0	8	101	161	120	15	4	0	0	409
1992	0	0	0	4	3	28	131	106	32	0	0	0	304
1993	0	0	0	0	2	89	183	117	11	1	0	0	403
1994	0	0	0	0	5	143	165	182	33	0	0	0	528
1995	0	0	0	0	0	30	120	226	60	0	0	0	436
1996	0	0	0	4	31	77	159	106	16	1	0	0	394
1997	0	0	0	0	0	55	182	101	33	0	0	0	371
1998	0	0	0	0	23	88	194	95	61	0	0	0	461
1999	0	0	0	0	0	42	196	130	26	0	0	0	394
2000	0	0	0	0	39	65	220	208	67	5	0	0	604
2001	0	0	0	0	5	106	272	164	45	0	0	0	592
2002	0	0	0	0	17	204	284	170	61	0	0	0	736
2003	0	0	0	0	22	18	342	212	5	0	0	0	599
2004	0	0	0	0	13	49	111	55	38	0	0	0	266
2005	0	0	0	0	22	90	265	111	63	4	0	0	555
2006	0	0	0	0	37	170	219	124	0	2	0	0	552
2007	0	0	0	0	0	65	230	246	65	5	0	0	611
2008	0	0	0	0	14	93	289	151	12	0	0	0	559
2009	0	0	0	0	7	71	141	102	24	0	0	0	345
2010	0	0	0	0	28	182	250	192	90	0	0	0	742
2011	0	0	0	0	8	177	317	287	48	4	0	0	841
2012	0	0	0	2	25	256	329	204	57	0	0	0	873
2013	0	0	0	0	22	182	206	192	92	0	0	0	694

SNOWFALL (inches) 2013 COLORADO SPRINGS (KCOS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.9	25.9	2.0	10.9	8.0	4.7	22.3	0.8	T	0.0	75.5
1985-86	0.0	0.0	1.9	1.7	8.3	6.3	0.2	4.6	2.9	4.0	T	0.0	29.9
1986-87	0.0	0.0	0.0	1.4	7.3	4.4	28.7	23.2	14.9	3.3	T	0.0	83.2
1987-88	0.0	0.0	0.0	0.0	4.8	9.5	4.9	11.5	12.6	1.0	0.3	0.0	44.6
1988-89	0.0	0.0	0.0	0.0	1.6	13.6	3.0	18.9	T	1.0	0.0	T	38.1
1989-90	T	T	T	2.1	0.2	7.5	8.7	9.3	9.7	11.3	4.2	0.0	53.0
1990-91	0.0	0.0	0.0	8.2	2.7	4.1	0.9	T	5.2	5.9	1.5	0.0	28.5
1991-92	0.0	0.0	0.0	7.5	26.3	4.5	1.2	0.2	3.0	T	0.0	T	42.7
1992-93	T	T	0.0	T	11.4	2.6	7.5	3.3	2.3	1.2	T	T	28.3
1993-94	T	0.0	0.1	0.5	12.3	0.5	2.2	1.5	6.8	8.7	T	T	32.6
1994-95	0.0	0.0	T	0.2	6.1	3.9	T	6.5	7.7	0.0	0.0	T	24.4
1995-96	0.0	0.0	0.5	0.2	T	T	2.9	4.7	6.9	3.2			
1996-97				8.7			9.3	3.4	2.4	12.3	T	0.0	
1997-98	0.0	T	0.0	19.9	3.5	1.8	0.3	4.3	17.5	9.5	T	T	56.8
1998-99	T	T	0.0	1.1	1.7	7.3	2.9	0.3	2.7	17.6	0.3	T	33.9
1999-00	0.0	0.0	0.2	3.0	10.6	2.3	7.4	2.0	12.6	2.0	T	0.0	40.1
2000-01	T	0.0	1.5	1.5	2.9	3.7	14.6	5.9	12.0	8.1	6.5	T	56.7
2001-02	0.0	T	2.4	0.0	3.7	1.2	4.5	1.1	3.0	T	T	T	15.9
2002-03	T	0.0	0.0	1.0	1.7	2.7	0.3	9.3	6.2	4.0	0.4	T	25.6
2003-04	T	0.0	0.0	T	0.7	0.8	9.3	3.7	2.2	6.6	T	T	23.3
2004-05	T	T	0.0	0.5	6.5	4.4	9.1	0.4	7.5	2.2	T	T	30.6
2005-06	T	T	T	T	0.2	10.4	2.8	1.0	2.5	T	0.5	T	17.4
2006-07	0.0	0.0	0.0	7.6	2.7	7.4	6.2	2.2	T	3.8	T	T	29.9
2007-08	T	T	0.0	T	1.4	7.2	8.0	2.7	11.7	2.5	0.5	0.0	34.0
2008-09	0.0	0.0	0.0	T	2.7	5.2	3.3	0.6	4.7	1.4	0.0	0.0	17.9
2009-10	0.0	0.0	T	1.8	1.5	9.4	1.9	9.7	7.2	0.3	T	0.0	31.8
2010-11	T	0.0	0.0	T	0.2	4.0	1.6	2.5	3.1	1.3	T	0.0	12.7
2011-12	0.0	0.0	0.0	3.6	1.0	11.7	0.5	4.2	0.7	T	T	T	21.7
2012-13	T	0.0	0.0	0.6	0.3	5.4	3.2	10.6	4.2	3.6	1.8	T	29.7
2013-	T	T	T	0.2	4.0	2.9							
POR= 51 YRS	T	T	0.9	2.9	4.7	5.3	4.9	4.7	8.3	5.6	1.2	T	38.5

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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: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>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.</p>
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2013

COLORADO SPRINGS

COLORADO (KCOS)

At an elevation near 6,200 feet above sea level, Colorado Springs is located in relatively flat semi-arid country on the eastern slope of the Rocky Mountains. Immediately to the west the mountains rise abruptly to heights ranging from 10,000 to 14,000 feet but generally averaging near 11,000 feet. To the east lie gently undulating prairie lands. The land slopes upward to the north, reaching an average height of about 8,000 feet in 20 miles at the top of Palmer Lake Divide.

Colorado Springs is in the Arkansas River drainage basin. The principal tributary feeding the Arkansas from this area is Fountain Creek which rises in the high mountains west of the city and is fed by Monument Creek originating to the north in the Palmer Lake Divide area.

Other topographical features of the area, and particularly its wide range of elevations, help to give Colorado Springs the various and altogether delightful plains and mountain mixture of climate that has established the locality as a highly desirable place to live. The higher elevations immediately to the west and north of the city produce significant differences in temperature and precipitation. Precipitation amounts at these higher elevations are approximately twice those at nearby lower elevations and the number of rainy days is almost triple.

In Colorado Springs itself, precipitation is relatively sparse. Over 80 percent of it falls between April 1 and September 30, mostly as heavy downpours accompanying summer thunderstorms. Temperatures, in view of the station latitude and elevation, are mild. Uncomfortable extremes, in either summer or winter, are comparatively rare and of short duration. Relative humidity is normally low and wind movement moderately high. This is notably true of the west-to-east movement of the chinook winds, that cause rapid rises in winter temperatures and remind us that the Indian meaning of CHINOOK is SNOW EATER.

Colorado Springs is best known as a resort city, but is also important to the high-tech industry and military community. Several military installations, including the United States Air Force Academy and the Space Command are located within or near the city. The surrounding prairie is also important for cattle raising and a considerable amount of grazing land is used for sheep in the summer months. The growing season varies considerably in length but averages from the first week in May to the first week of October.

Station History

COLORADO SPRINGS, CO

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
COLORADO SPRINGS PETERSON FIELD	1948-07-01	1954-01-01	38° 49'	-104° 42'	6175		AIRWAYS, COOP
COLORADO SPRINGS PETERSON FIELD	1960-02-01	1967-01-01	38° 49'	-104° 42'	6145		AIRWAYS, COOP
COLORADO SPRINGS PETERSON FIELD	1973-01-01	1975-12-12	38° 49'	-104° 43'	6145		COOP, WXSVC
COLORADO SPRINGS MUNICIPAL AP PETERSON FIELD	2002-11-25	2008-01-01	38° 48'	-104° 41'	6181		ASOS, COOP
COLORADO SPRINGS MUNICIPAL AP PETERSON FIELD	1931-10-01	1932-11-30	38° 49'	-104° 42'			AIRWAYS
COLORADO SPRINGS MUNICIPAL AP PETERSON FIELD	2008-01-01	Present	38° 48'	-104° 41'	6181		ASOS, COOP
COLORADO SPRINGS MUNICIPAL AP PETERSON FIELD	1992-11-01	2002-11-25	38° 48'	-104° 42'	6140		ASOS, COOP
COLORADO SPRINGS MUNICIPAL AP PETERSON FIELD	1935-10-01	1941-01-01	38° 49'	-104° 42'			AIRWAYS
COLORADO SPRINGS PETERSON FIELD	1941-01-01	1944-02-28	38° 49'	-104° 42'			AIRWAYS, COOP
COLORADO SPRINGS PETERSON FIELD	1954-01-01	1960-02-01	38° 49'	-104° 42'	6163		AIRWAYS, COOP
COLORADO SPRINGS PETERSON FIELD	1967-01-01	1973-01-01	38° 49'	-104° 43'	6145		AIRWAYS, COOP
COLORADO SPRINGS MUNICIPAL AP	1975-12-12	1992-11-01	38° 49'	-104° 43'	6145		COOP, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1995-07-01	1995-08-01	DAILY	2400	UNIV	RCRD	
PRECIP	2011-12-31	Present	HOURLY	2400	AWPAG	SHLD; RCRD; HTD	
TEMP	1931-10-01	1944-02-28	DAILY	2400			
TEMP	1948-07-01	1982-01-01	DAILY	2400			
TEMP	1995-07-01	1995-08-01	DAILY	2400	HYGR		
PRECIP	2011-12-31	Present	DAILY	2400	PCPNX	SHLD	
TEMP	2011-12-31	Present	DAILY	2400	ATEMP		
PRECIP	1982-01-01	1988-05-17	DAILY	2400			
PRECIP	1988-05-17	1993-08-09	DAILY	2400	UNIV	RCRD	
PRECIP	1993-08-09	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1948-07-01	1982-01-01	DAILY	2400			
PRECIP	2002-11-25	2011-12-31	DAILY	2400	PCPNX	SHLD	
PRECIP	1982-01-01	1988-05-17	HOURLY	2400			
TEMP	1982-01-01	1988-05-17	DAILY	2400			
PRECIP	1988-05-17	1993-08-09	HOURLY	2400			
PRECIP	1993-08-09	1995-07-01	HOURLY	2400			
TEMP	1993-08-09	1995-07-01	DAILY	2400	HYGR		
PRECIP	1995-08-01	2002-11-25	DAILY	2400	TB	RCRD	
PRECIP	1995-07-01	1995-08-01	HOURLY	2400	UNIV	RCRD	
TEMP	1988-05-17	1993-08-09	DAILY	2400	MXMN		
PRECIP	1995-08-01	2002-11-25	HOURLY	2400	TB	RCRD	
TEMP	1995-08-01	2002-11-25	DAILY	2400	HYGR		
PRECIP	2002-11-25	2011-12-31	HOURLY	2400	AHTB	SHLD; RCRD; HTD	
PRECIP	1931-10-01	1944-02-28	DAILY	2400			
TEMP	2002-11-25	2011-12-31	DAILY	2400	HYGR		

* 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

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