

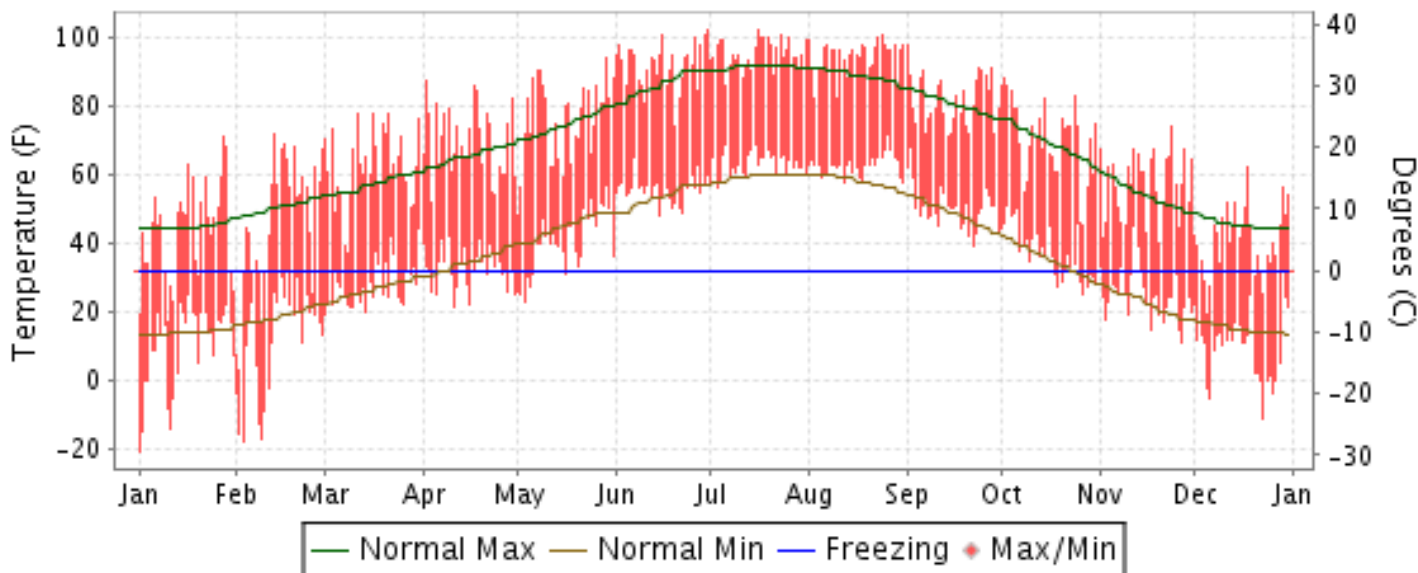


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

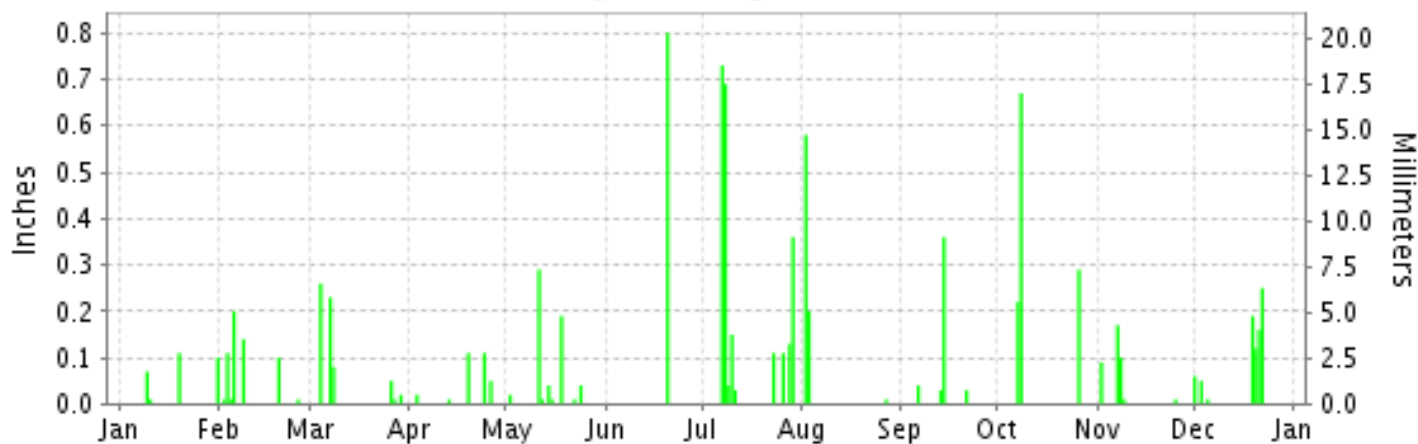
ISSN 0198-7631

PUEBLO, COLORADO (KPUB)

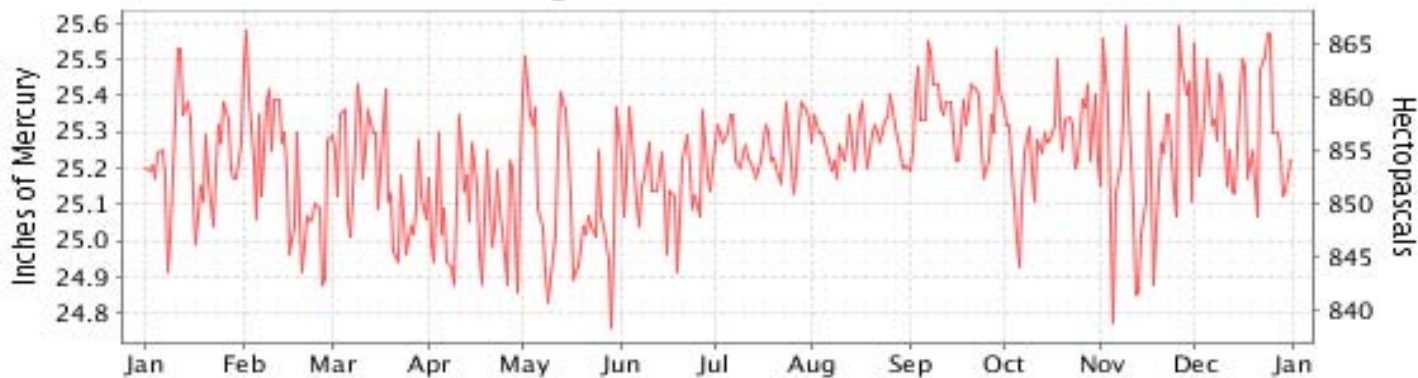
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

PUEBLO (KPUB)

LATITUDE: 38° 17'N LONGITUDE: -104° 29'W ELEVATION (FT): GRND: 4720 BARO: 4655 TIME ZONE: MOUNTAIN (UTC -7) WBAN: 93058

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	43.8	46.5	62.3	69.7	75.9	91.9	95.2	94.3	81.6	70.4	57.2	40.7	69.1	
	HIGHEST DAILY MAXIMUM	71	72	78	87	94	102	102	101	98	88	74	62	102	
	DATE OF OCCURRENCE	28	13	21+	02	29	30	16	24	01	02	24	18	JUL 16	
	MEAN DAILY MINIMUM	10.0	12.1	27.7	32.6	40.3	55.6	63.1	62.7	50.5	37.3	24.7	9.7	35.5	
	LOWEST DAILY MINIMUM	-21	-18	19	21	23	48	56	58	39	25	11	-11	-21	
	DATE OF OCCURRENCE	01	03	01	11	03	15	03	31+	22	27	27	23	JAN 01	
	AVERAGE DRY BULB	26.9	29.3	45.0	51.2	58.1	73.8	79.2	78.5	66.1	53.9	41.0	25.2	52.4	
	MEAN WET BULB	22.5	23.1	34.7	39.1	44.6	54.7	62.0	61.4	51.5	42.3	32.0	21.0	40.7	
	MEAN DEW POINT	15.0	11.9	18.6	21.6	27.8	37.0	51.9	50.4	38.7	29.9	19.3	15.2	28.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	3	20	28	27	5	0	0	0	0	83
	MAXIMUM <= 32°	8	8	0	0	0	0	0	0	0	0	0	0	6	22
MINIMUM <= 32°	31	28	24	15	7	0	0	0	0	10	26	31	172		
MINIMUM <= 0°	7	7	0	0	0	0	0	0	0	0	0	7	21		
H/C	HEATING DEGREE DAYS	1174	993	612	409	227	2	0	0	46	344	713	1227	5747	
	COOLING DEGREE DAYS	0	0	0	0	22	272	447	429	82	7	0	0	1259	
RH	MEAN (PERCENT)	67	57	45	39	41	33	46	44	42	48	50	71	49	
	HOUR 05 LST	77	72	69	60	58	54	68	68	64	70	65	80	67	
	HOUR 11 LST	48	38	29	22	27	21	27	27	26	30	31	57	32	
	HOUR 17 LST	65	48	29	26	28	17	29	31	31	36	45	70	38	
	HOUR 23 LST	78	69	54	51	53	43	58	56	53	61	59	79	60	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	0	0	0	0	2	0	1	0	0	5	11	
	THUNDERSTORMS	0	0	1	0	2	1	7	2	1	0	0	0	14	
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.)	25.22	25.19	25.17	25.08	25.12	25.16	25.26	25.28	25.36	25.27	25.22	25.32	25.22	
	MEAN SEA-LEVEL PRESS. (IN.)	30.08	30.03	29.90	29.75	29.77	29.73	29.84	29.86	30.01	29.97	29.98	30.21	29.93	
WINDS	RESULTANT SPEED (MPH)	1.2	2.1	0.4	1.3	1.1	2.2	1.8	0.9	2.1	1.4	2.4	2.2	0.7	
	RES. DIR. (TENS OF DEGS.)	01	29	14	33	34	10	10	06	05	29	31	34	36	
	MEAN SPEED (MPH)	5.0	7.8	9.1	10.6	10.2	9.9	7.8	7.5	7.3	6.9	7.7	6.1	8.0	
	PREVAIL.DIR.(TENS OF DEGS.)	11	26	10	11	01	11	13	13	12	28	29	29	10	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	54	43	44	47	45	57	48	51	48	45	49	57	
	DIR. (TENS OF DEGS.)	02	36	20	01	36	01	27	20	02	01	29	32	27	
	DATE OF OCCURRENCE	19	08	21	03	11	30	08	02	29	17	13	31	JUL 08	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	46	68	53	59	55	54	78	63	61	55	59	60	78	
DIR. (TENS OF DEGS.)	02	36	23	23	01	01	24	21	02	02	29	32	24		
DATE OF OCCURRENCE	19	08	24	03	11	19	08	02	29	17	13	31	JUL 08		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.29	0.58	0.65	0.30	0.61	0.80	2.35	0.79	0.46	1.18	0.38	0.84	9.23	
	GREATEST 24-HOUR (IN.)	0.11	0.20	0.31	0.11	0.30	0.80	1.01	0.77	0.36	0.89	0.27	0.41	1.01	
	DATE OF OCCURRENCE	19	05	07-08	24+	11-12	20	07-08	02-03	14	07-08	07-08	21-22	JUL 07-08	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	7	6	5	8	1	9	3	4	3	5	7	62	
PRECIPITATION 0.10	2	4	2	2	2	1	7	2	1	3	2	4	32		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	5.7	8.4	2.7	0.2	T	0.0	T	0.0	0.0	0.3	2.7	18.6	38.6	
	GREATEST 24-HOUR (IN.)	1.9	3.4	1.9	0.1	T	0.0	T	0.0	0.0	0.3	2.7	6.5	6.5	
	DATE OF OCCURRENCE	31	03	07	24+	01	0	08	0	0	26	02	19	DEC 19	
	MAXIMUM SNOW DEPTH (IN.)	4	4	2	T	0	0	0	0	0	0	1	11	11	
	DATE OF OCCURRENCE	03+	04	08	04							02	23	DEC 23	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	3	3	1	0	0	0	0	0	0	0	1	5	13		

NORMALS, MEANS, AND EXTREMES PUEBLO (KPUB)

LATITUDE:
38° 17'N

LONGITUDE:
-104° 29'W

ELEVATION (FT):
GRND: 4720 BARO: 4655

TIME ZONE:
MOUNTAIN (UTC -7)

WBAN: 93058

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	44.6	50.4	57.3	65.3	74.6	86.1	91.4	88.8	80.8	69.4	54.3	45.4	67.4
	MEAN DAILY MAXIMUM	57	46.0	50.5	57.9	67.2	76.8	87.4	92.9	89.8	81.8	70.2	56.3	47.3	68.7
	HIGHEST DAILY MAXIMUM	69	81	81	86	93	102	108	109	105	100	94	85	82	109
	YEAR OF OCCURRENCE		1997	1981	1989	1992	2002	1990	2003	2008	2002	1991	2006	1980	JUL 2003
	MEAN OF EXTREME MAXS.	57	68.4	70.9	78.3	85.4	92.0	100.0	102.5	99.7	95.2	87.6	76.6	69.7	85.5
	NORMAL DAILY MINIMUM	30	14.0	18.8	26.3	34.5	44.8	53.5	59.4	58.1	48.7	35.3	22.5	15.1	35.9
	MEAN DAILY MINIMUM	57	13.8	18.3	25.6	34.8	45.0	53.8	60.2	58.5	49.1	35.9	23.6	15.7	36.2
	LOWEST DAILY MINIMUM	69	-29	-31	-20	2	23	35	44	40	21	4	-17	-25	-31
	YEAR OF OCCURRENCE		1948	1951	1948	1997	2011	2007	1994	1968	1999	1997	1991	1990	FEB 1951
	MEAN OF EXTREME MINS.	57	-6.7	-1.1	8.7	20.4	32.2	43.7	52.5	50.4	35.8	22.1	6.1	-3.9	21.7
	NORMAL DRY BULB	30	29.3	34.6	41.8	49.9	59.7	69.8	75.4	73.5	64.8	52.4	38.4	30.3	51.7
	MEAN DRY BULB	57	29.9	34.4	41.8	51.0	60.9	70.8	76.6	74.1	65.4	53.1	39.9	31.5	52.5
	MEAN WET BULB	30	24.4	27.2	33.0	38.9	47.8	54.4	59.4	59.4	51.4	41.5	31.9	26.1	41.3
	MEAN DEW POINT	30	19.3	20.4	26.2	31.6	41.2	48.2	53.1	54.0	44.8	34.5	26.2	20.7	35.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	2.5	14.7	22.2	18.8	7.2	0.4	0.0	0.0	66.0
	MAXIMUM <= 32	30	6.3	3.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	1.9	4.9	17.5
MINIMUM <= 32	30	30.4	26.8	24.0	11.4	1.0	0.0	0.0	0.0	0.9	11.4	26.9	30.2	163.0	
MINIMUM <= 0	30	3.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.8	8.2	
H/C	NORMAL HEATING DEG. DAYS	30	1094	843	703	439	179	24	1	3	88	381	782	1061	5598
	NORMAL COOLING DEG. DAYS	30	0	0	0	2	31	183	337	276	91	2	0	0	922
RH	NORMAL (PERCENT)	30	61	55	51	48	50	46	48	53	49	50	58	62	53
	HOURLY 05 LST	30	73	69	70	72	76	73	75	79	74	71	78	73	74
	HOURLY 11 LST	30	52	46	42	37	39	35	36	39	38	37	47	52	42
	HOURLY 17 LST	30	51	37	34	32	34	29	32	36	32	33	48	53	38
	HOURLY 23 LST	30	70	63	60	59	60	56	60	66	61	60	72	71	63
S	PERCENT POSSIBLE SUNSHINE	60	75	74	74	74	74	80	79	78	81	79	72	71	76
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	45	1.6	1.5	1.2	0.7	0.4	0.2	0.3	0.4	0.6	1.0	1.7	1.8	11.4
	THUNDERSTORMS	54	0.0	0.0	0.4	1.4	5.1	7.3	10.0	8.3	2.5	0.5	0.1	0.0	35.6
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	1	3.2	4.0	4.8	4.4	5.2	2.4	2.8	4.0	3.2	2.8	3.2	2.4	3.5
	MIDNIGHT-MIDNIGHT (OKTAS)	1	4.0	4.0	4.8	4.8	5.2	2.4	2.8	4.0	3.2	3.2	3.2	2.4	3.7
	MEAN NO. DAYS WITH: CLEAR	3	11.0	9.3	7.0	9.5	4.0	11.3	15.0	8.0	9.0	11.0	10.0	15.0	120.1
	PARTLY CLOUDY	2	3.5	4.7	2.3	8.5	7.3	4.0	6.5	11.0	1.5	3.5	2.5	4.0	59.3
	CLOUDY	3	3.3	5.7	4.7	5.0	4.3	2.0	2.0	5.0	2.5	5.0	2.5	2.5	44.5
PR	MEAN STATION PRESSURE(IN)	30	25.25	25.23	25.19	25.18	25.20	25.24	25.31	25.33	25.31	25.28	25.26	25.26	25.25
	MEAN SEA-LEVEL PRES. (IN)	30	30.07	30.03	29.93	29.86	29.83	29.83	29.88	29.92	29.94	29.98	30.03	30.08	29.95
WINDS	MEAN SPEED (MPH)	30	7.2	7.9	9.1	10.3	9.6	9.2	8.5	7.9	7.8	7.7	7.2	6.9	8.3
	PREVAIL.DIR(TENS OF DEGS)	23	28	28	10	09	10	10	13	10	10	10	28	28	28
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	44	54	49	53	56	49	58	56	51	51	45	49	58
	DIR. (TENS OF DEGS)		24	36	27	34	35	27	30	27	02	02	29	32	30
	YEAR OF OCCURRENCE		1999	2011	1994	2007	2001	2005	2000	2006	2011	2007	2011	2011	JUL 2000
	MAXIMUM 3-SECOND SPEED (MPH)	18	53	68	60	67	68	59	78	69	61	56	59	61	78
	DIR. (TENS OF DEGS)		00	36	36	36	36	27	24	30	02	35	29	27	24
YEAR OF OCCURRENCE		1996	2011	2008	2009	2001	2007	2011	2006	2011	2008	2011	2000	JUL 2011	
PRECIPITATION	NORMAL (IN)	30	0.33	0.26	0.97	1.25	1.49	1.33	2.04	2.27	0.84	0.64	0.58	0.39	12.39
	MAXIMUM MONTHLY (IN)	69	1.45	1.39	2.94	6.17	5.43	4.26	5.39	5.85	2.73	4.91	2.48	0.97	6.17
	YEAR OF OCCURRENCE		1948	1987	2000	1942	1957	1961	2009	1955	1976	1957	1991	1979	APR 1942
	MINIMUM MONTHLY (IN)	69	0.00	T	0.04	T	0.22	T	0.09	0.08	T	T	T	T	0.00
	YEAR OF OCCURRENCE		1993	2006	2002	1963	2004	1990	1987	1960	1956	1988	1989	1993	JAN 1993
	MAXIMUM IN 24 HOURS (IN)	69	0.61	0.60	1.31	2.49	2.53	2.24	1.96	2.95	1.57	3.77	1.08	0.71	3.77
	YEAR OF OCCURRENCE		1990	1987	1998	1957	1957	1979	1977	1955	1982	1957	1997	1979	OCT 1957
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	4.3	3.5	6.2	6.8	8.2	6.8	9.5	9.1	5.3	3.5	4.5	4.1	71.8
	PRECIPITATION >= 1.00	30	0.0	0.0	*	0.1	0.2	0.1	0.3	0.5	*	0.0	0.0	0.0	1.2
SNOWFALL	NORMAL (IN)	30	5.7	3.6	6.4	4.7	0.6	0.0	0.0	0.0	0.5	1.9	4.8	5.5	33.7
	MAXIMUM MONTHLY (IN)	69	20.0	14.4	22.4	21.2	10.6	T	T	T	14.0	16.3	29.3	18.6	29.3
	YEAR OF OCCURRENCE		1948	1965	1948	1957	1990	1992	2011	2009	1959	1991	1946	2011	NOV 1946
	MAXIMUM IN 24 HOURS (IN)	69	12.4	8.2	11.1	16.8	9.4	T	T	T	9.5	12.6	16.3	8.7	16.8
	YEAR OF OCCURRENCE		1990	1989	1998	1990	1990	1992	2011	2009	1959	1991	1946	1961	APR 1990
	MAXIMUM SNOW DEPTH (IN)	62	12	7	10	9	3	0	0	0	1	8	12	11	12
	YEAR OF OCCURRENCE		1960	1989	1998	1990	1990				1984	1997	1972	2011	NOV 1972
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.7	1.2	1.8	1.2	0.2	0.0	0.0	0.0	0.1	0.4	1.4	1.7	9.7	

PRECIPITATION (inches) 2011 PUEBLO (KPUB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	0.54	0.31	0.26	0.13	2.28	1.71	2.71	4.35	2.24	0.37	0.12	0.44	15.46
1983	0.60	0.04	2.08	1.05	1.96	2.07	1.49	1.58	0.18	0.22	0.51	0.95	12.73
1984	0.23	0.07	1.15	1.17	1.11	0.35	4.21	4.37	0.27	2.55	0.20	0.44	16.12
1985	0.50	0.36	0.72	1.70	1.46	0.10	4.82	0.95	1.01	0.60	1.13	0.27	13.62
1986	0.25	0.14	0.55	0.43	0.84	2.21	1.71	2.42	0.35	0.90	0.48	0.49	10.77
1987	0.74	1.39	0.45	0.30	2.09	1.29	0.09	2.89	0.31	0.04	0.49	0.74	10.82
1988	0.94	0.38	0.93	0.70	1.33	1.86	2.00	0.67	1.80	T	0.17	0.60	11.38
1989	0.42	0.83	0.14	0.59	1.45	1.27	0.61	1.02	1.03	0.10	T	0.87	8.33
1990	0.76	0.69	1.14	1.57	2.34	0.00	5.14	3.08	1.83	0.59	0.54	0.22	17.90
1991	0.08	0.01	0.74	0.83	0.72	1.97	2.79	2.14	1.36	0.62	2.48	0.52	14.26
1992	0.04	0.19	1.31	0.43	0.40	3.15	1.39	2.48	0.70	0.71	1.30	0.47	12.57
1993		0.18	1.72	1.40	1.99	1.49	1.37	3.71	0.62	0.54	1.07	T	
1994	0.46	0.24	0.83	2.13	2.36	2.59	0.12	4.01	0.16	1.69	0.58	0.24	15.41
1995	0.01	0.16	0.88	2.52	4.30	2.29	1.18	2.57	1.38	T	0.14	T	15.43
1996	0.24	0.12	0.95	0.66	1.80	1.32	3.41	2.11	1.46	0.31	0.43	0.22	13.03
1997	0.17	0.42	0.26	2.29	0.53	2.02	0.80	4.13	0.96	0.83	1.53	0.38	14.32
1998	0.10	0.17	1.94	1.88	1.04	0.68	2.42	0.93	0.41	1.60	0.46	0.33	11.96
1999	0.11	0.01	0.56	5.30	1.84	0.19	1.86	2.98	0.31	0.62	0.02	0.05	13.85
2000	0.34	0.04	2.94	1.21	0.85	0.80	3.03	0.92	0.36	1.50	0.08	0.21	12.28
2001	0.81	0.16	0.51	0.48	2.67	1.10	2.70	2.00	0.49	0.07	0.44	0.22	11.65
2002	0.43	0.07	0.04	0.16	0.22	0.43	0.84	0.30	0.42	0.67	0.02	0.34	3.94
2003	0.01	0.81	0.81	1.90	1.56	3.72	0.32	1.17	0.44	0.08	0.04	0.05	10.91
2004	0.51	0.65	0.55	4.85	T	1.93	0.76	3.53	0.22	0.23	0.58	0.25	14.06
2005	0.38	0.20	1.74	1.55	1.16	1.15	0.80	1.39	0.94	1.60	T	0.24	11.15
2006	0.52	T	0.62	0.16	0.98	0.24	3.13	3.78	1.64	1.96	0.18	0.65	13.86
2007	0.42	0.11	0.42	2.83	2.46	1.53	1.52	2.60	0.10	0.33	0.14	0.47	12.93
2008	0.19	0.25	0.62	0.97	0.96	0.89	1.53	2.76	0.77	0.66	0.50	0.29	10.39
2009	0.04	0.04	0.72	1.54	1.07	1.20	5.39	2.71	0.95	1.92	0.05	0.18	15.81
2010	0.19	0.77	1.01	1.14	2.84	0.90	2.28	1.76	0.04	0.03	0.20	0.44	11.60
2011	0.29	0.58	0.65	0.30	0.61	0.80	2.35	0.79	0.46	1.18	0.38	0.84	9.23
POR= 56 YRS	0.31	0.30	0.82	1.20	1.46	1.29	1.97	2.10	0.81	0.77	0.47	0.35	11.85

WBAN : 93058

AVERAGE TEMPERATURE (°F) 2011 PUEBLO (KPUB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	31.0	33.3	46.1	53.0	60.8	67.8	77.3	76.6	66.3	51.0	38.3	32.2	52.8
1983	33.3	37.5	41.0	46.1	56.9	67.1	77.5	77.4	68.0	54.1	41.8	20.8	51.8
1984	26.6	36.0	40.1	47.9	63.5	71.7	77.5	75.3	64.0	49.5	41.0	35.5	52.4
1985	25.8	29.1	43.4	54.0	61.9	70.9	75.4	75.0	62.7	51.6	31.1	27.4	50.7
1986	39.5	38.9	47.8	53.2	59.9	71.1	75.9	73.3	63.1	50.9	40.1	30.2	53.7
1987	29.8	37.3	40.4	52.9	61.7	71.2	77.0	72.0	65.0	53.3	39.6	29.0	52.4
1988	19.7	33.6	39.7	51.5	60.8	73.2	75.7	75.8	64.8	55.0	41.8	30.5	51.8
1989	33.1	24.0	46.3	52.8	62.8	67.9	76.8	73.6	65.3	53.2	42.3	26.1	52.0
1990	33.6	33.4	42.4	51.6	57.7	74.3	72.8	72.0	68.3	53.3	44.4	24.6	52.4
1991	28.8	38.7	43.4	51.3	64.0	72.3	74.9	73.7	64.7	52.8	33.9	32.1	52.6
1992	33.9	38.6	45.1	54.6	61.9	66.8	73.2	70.5	65.6	52.1	31.1	28.2	51.8
1993	26.5	30.6	42.1	50.5	59.1	68.8	74.9	71.2	60.1	49.0	32.3	31.8	49.7
1994	30.0	32.1	42.6	49.2	61.1	73.1	73.9	73.9	66.0	52.2	38.7	33.7	52.2
1995	31.6	36.7	41.1	44.4	54.0	65.1	71.8	75.6	62.2	48.7	41.3	31.8	50.4
1996	27.9	34.7	38.0	50.4	64.7	70.3	75.0	72.6	62.2	51.2	38.1	32.7	51.5
1997	28.0	31.7	43.1	43.8	58.2	69.5	75.0	72.0	66.5	49.9	34.9	29.5	50.2
1998	31.4	34.5	37.6	47.6	61.3	66.6	75.0	72.4	69.8	53.8	44.3	29.3	52.0
1999	36.2	40.3	44.7	47.8	59.6	68.4	77.2	73.6	62.7	52.2	44.6	33.4	53.4
2000	33.6	40.7	43.5	52.8	63.1	71.3	77.8	76.9	65.4	52.0	32.1	28.2	53.1
2001	26.0	31.5	40.9	53.3	58.9	70.6	78.1	73.8	66.0	52.2	42.3	30.3	52.0
2002	29.5	31.9	37.5	52.8	60.7	75.3	79.1	75.2	66.7	48.3	40.0	32.3	52.4
2003	36.3	30.6	45.3	55.6	63.4	67.8	81.2	76.0	62.6	56.6	39.0	34.1	54.0
2004	31.5	33.3	48.9	50.5	63.2	67.8	73.2	69.5	65.0	52.9	39.0	33.3	52.3
2005	33.3	37.2	40.7	50.2	60.2	70.1	78.3	73.0	67.3	53.2	42.9	30.5	53.1
2006	36.2	32.0	41.9	53.7	62.8	74.3	77.3	73.5	59.5	50.8	41.3	32.0	52.9
2007	23.8	32.8	46.6	48.4	60.0	68.5	75.5	76.6	66.4	54.0	40.7	28.6	51.8
2008	27.5	33.9	41.6	48.1	59.5	70.8	77.4	72.8	64.0	52.4	42.2	30.4	51.7
2009	34.5	37.4	43.3	50.1	62.4	68.8	74.5	72.5	63.9	46.2	42.6	24.4	51.7
2010	30.2	29.0	41.8	51.0	58.7	72.5	76.6	74.5	68.6	55.1	38.1	33.2	52.4
2011	26.9	29.3	45.0	51.2	58.1	73.8	79.2	78.5	66.1	53.9	41.0	25.2	52.4
POR= 57 YRS	29.9	34.4	41.8	51.0	60.9	70.8	76.6	74.1	65.4	53.1	39.9	31.5	52.5

HEATING DEGREE DAYS (base 65°F) 2011 PUEBLO (KPUB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	0	62	427	794	1010	974	762	740	561	258	50	5638
1983-84	0	0	52	330	689	1365	1183	834	763	505	120	2	5843
1984-85	0	0	127	474	713	907	1209	999	662	325	125	9	5550
1985-86	0	0	172	410	1010	1161	783	728	523	346	169	21	5323
1986-87	0	0	94	428	741	1069	1082	768	756	358	119	10	5425
1987-88	4	17	43	355	754	1111	1399	903	777	399	167	8	5937
1988-89	1	0	84	308	689	1062	980	1145	573	378	134	35	5389
1989-90	0	0	94	373	676	1199	964	877	695	394	233	2	5507
1990-91	1	0	34	360	610	1245	1116	730	667	406	103	3	5275
1991-92	1	0	76	380	929	1014	958	759	608	309	125	41	5200
1992-93	0	15	58	390	1009	1132	1186	959	703	428	195	30	6105
1993-94	0	18	155	491	973	1020	1081	915	687	468	143	0	5951
1994-95	0	6	57	389	785	964	1028	788	734	608	335	64	5758
1995-96	7	0	157	498	700	1019	1144	872	829	435	88	5	5754
1996-97	0	0	122	420	804	995	1139	925	672	633	211	11	5932
1997-98	0	3	58	466	898	1092	1035	848	844	517	126	61	5948
1998-99	0	0	4	339	613	1099	884	684	620	513	180	26	4962
1999-00	0	0	140	390	605	973	965	696	660	360	126	7	4922
2000-01	0	0	114	401	977	1136	1200	933	738	346	202	14	6061
2001-02	0	0	52	395	673	1068	1091	918	845	360	160	11	5573
2002-03	0	0	58	509	745	1007	879	956	605	275	110	29	5173
2003-04	0	0	114	262	771	948	1028	912	491	427	107	27	5087
2004-05	6	18	85	366	774	976	975	772	745	436	184	19	5356
2005-06	0	0	40	371	655	1061	886	920	709	329	130	0	5101
2006-07	0	2	166	434	707	1019	1272	897	565	490	159	28	5739
2007-08	0	0	54	347	720	1124	1156	894	719	499	202	19	5734
2008-09	0	16	59	385	679	1064	937	767	666	442	102	35	5152
2009-10	2	0	102	575	666	1252	1072	1000	712	411	220	16	6028
2010-11	0	0	11	302	799	975	1174	993	612	409	227	2	5504
2011-	0	0	46	344	713	1227							

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COOLING DEGREE DAYS (base 65°F) 2011 PUEBLO (KPUB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	3	30	123	395	359	110	0	0	0	1020
1983	0	0	0	0	16	120	392	391	149	0	0	0	1068
1984	0	0	0	0	76	210	395	328	103	0	0	0	1112
1985	0	0	0	0	36	192	329	318	114	1	0	0	990
1986	0	0	0	0	17	212	347	264	45	0	0	0	885
1987	0	0	0	2	26	203	385	240	50	2	0	0	908
1988	0	0	0	0	45	261	342	342	84	4	0	0	1078
1989	0	0	0	16	72	128	373	273	109	11	0	0	982
1990	0	0	0	0	13	286	250	223	140	3	0	0	915
1991	0	0	0	0	78	232	314	276	75	9	0	0	984
1992	0	0	0	3	34	100	262	191	82	0	0	0	672
1993	0	0	0	1	18	152	316	221	16	1	0	0	725
1994	0	0	0	0	29	251	283	289	94	0	0	0	946
1995	0	0	0	0	0	76	228	338	80	0	0	0	722
1996	0	0	0	4	87	170	316	244	45	1	0	0	867
1997	0	0	0	0	7	152	314	229	112	8	0	0	822
1998	0	0	0	0	19	117	318	237	155	0	0	0	846
1999	0	0	0	0	19	136	385	275	79	0	0	0	894
2000	0	0	0	0	77	205	404	373	132	8	0	0	1199
2001	0	0	0	1	19	190	416	280	90	4	0	0	1000
2002	0	0	0	0	33	326	444	326	115	0	0	0	1244
2003	0	0	0	0	67	121	511	348	47	5	0	0	1099
2004	0	0	0	1	60	116	267	164	94	0	0	0	702
2005	0	0	0	0	41	181	418	255	114	13	0	0	1022
2006	0	0	0	0	69	287	390	272	7	3	0	0	1028
2007	0	0	0	0	10	140	334	366	103	12	0	0	965
2008	0	0	0	0	39	200	393	263	36	1	0	0	932
2009	0	0	0	0	28	156	304	240	76	0	0	0	804
2010	0	0	0	0	32	248	367	300	126	1	0	0	1074
2011	0	0	0	0	22	272	447	429	82	7	0	0	1259

SNOWFALL (inches) 2011 PUEBLO (KPUB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	0.4	3.3	5.7	0.4	8.9	3.6	0.0	0.0	22.3
1983-84	0.0	0.0	0.0	0.0	1.9	12.9	5.3	0.2	11.5	8.9	0.3	0.0	41.0
1984-85	0.0	0.0	3.0	4.9	1.5	6.2	10.1	4.1	7.8	0.0	0.0	0.0	37.6
1985-86	0.0	0.0	1.2	T	23.5	4.9	3.9	3.7	2.4	2.5	T	0.0	42.1
1986-87	0.0	0.0	0.0	T	3.6	6.2	13.9	4.9	1.8	1.1	0.0	0.0	31.5
1987-88	0.0	0.0	0.0	0.0	5.2	12.0	18.3	8.3	11.1	8.9	0.4	0.0	64.2
1988-89	0.0	0.0	0.0	0.0	1.2	9.3	9.0	12.6	T	1.2	T	T	33.3
1989-90	0.0	0.0	0.0	T	T	10.4	15.0	12.7	2.5	18.4	10.6	0.0	69.6
1990-91	0.0	0.0	0.0	1.6	5.1	6.5	2.4	0.1	10.5	2.0	T	T	28.2
1991-92	T	T	T	16.3	25.6	4.0	1.1	0.5	1.2	0.0	0.0	T	48.7
1992-93	T	0.0	0.0				6.4						
1993-94										17.2	T	0.0	
1994-95	0.0	T	0.0	0.0	6.7	5.0	0.4	5.4	11.6	0.0	0.0		
1995-96		0.0	3.5	0.0	1.2	T	5.5	2.7	5.4	3.6	0.0	0.0	
1996-97	0.0	T	0.8	3.5	4.3	2.8	4.8	6.3	3.2	7.3	0.0	T	33.0
1997-98	0.0	T	0.0	8.2	10.6	5.2	1.0	0.6	12.5	1.3	T	0.0	39.4
1998-99	T	T	0.0	T	T	8.1	1.5	0.3	4.8	7.6	T	0.0	22.3
1999-00	0.0	0.0	0.0	2.0	T	0.4	5.5	T	8.2	0.4	0.0	0.0	16.5
2000-01	T	0.0	T	T	1.8	2.4	19.3	4.7	2.4	0.4	0.4	T	31.4
2001-02	T	T	0.0	0.0	2.1	2.9	8.9	2.2	0.7	0.0	0.0	0.0	16.8
2002-03	T	0.0	0.0	0.7	T	5.7	0.2	8.4	4.4	0.2	0.0	T	19.6
2003-04	0.0	0.0	0.0	0.0	0.8	T	9.6	4.5	3.0	2.4	0.0	0.0	20.3
2004-05	0.0	0.0	0.0	0.0	4.9	3.3	2.2	1.1	5.8	0.6	T	0.0	17.9
2005-06	0.0	0.0	0.0	0.0	0.0	5.6	7.6	0.5	3.8	0.0	0.0	0.0	17.5
2006-07	0.0	0.0	0.0	T	4.1	11.5	9.7	2.9	T	3.0	T	0.0	31.2
2007-08	T	T	0.0	T	1.7	7.8	3.9	4.0	6.5	1.4	0.0	0.0	25.3
2008-09	0.0	0.0	0.0	0.0	0.8	3.0	1.3	T	8.4	0.9	0.0	0.0	14.4
2009-10	T	T	T	0.8	0.6	6.0	2.8	10.8	7.9	T	T	0.0	28.9
2010-11	0.0	0.0	0.0	0.0	0.5	7.8	5.7	8.4	2.7	0.2	T	0.0	25.3
2011-	T	0.0	0.0	0.3	2.7	18.6							
POR= 56 YRS	T	T	0.5	1.3	3.6	5.3	5.9	4.1	6.2	3.5	0.4	T	30.8

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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. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). 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. 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.</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 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 HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm 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 the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2011 PUEBLO COLORADO (KPUB)

The city of Pueblo is located about 40 miles east-southeast of the Royal Gorge, at the junction of the Arkansas and Fountain Rivers. The mountains west of the city extend from within 25 miles to the southwest to about 35 miles to the northwest. Lake Pueblo, the largest body of water in southern Colorado, is located 7 miles west of the city and provides a variety of water sports, fishing, picnicing, and a wildlife preserve. The countryside surrounding Pueblo consists of rolling plains, broken by normally dry arroyos, and is generally treeless, covered mainly with sparse bunchgrass and occasional cacti. The business section of the city is 4,663 feet above sea level. The National Weather Service Office is located at Pueblo Memorial Airport, 6 miles east of the Pueblo Post Office, and about 1 1/2 miles north of the Arkansas River. Terrain at the airport is relatively flat, and from 50 to 100 feet above the river. The air quality in Pueblo is rated the best of large Colorado cities along the front range.

The climate is semi-arid and marked by large daily temperature variations. The temperature reaches 90 degrees or more about half the time during the summer, but thanks to the low relative humidity, the heat is not oppressive. Summer nights are invariably cool since mountain breezes prevail from shortly after sunset to about noon

the following day. The sun shines about 76 percent of the time. Winter is comparatively mild due to the abundant sunshine and the protection afforded by the nearby mountains. Temperatures reach 50 degrees or higher in the winter. The temperature drops to zero or below about eight times during the winter. Cold spells are generally broken after a few days by chinook winds, a very dry, warm, downslope westerly wind.

The probability of measurable precipitation in summer is one day out of four and in winter one out of eight. Summer rains usually occur in the form of afternoon thunderstorms. Blowing dust frequently develops during the spring months of abnormally dry years, especially in areas where dry farming has been attempted.

Agriculture consists chiefly of cattle grazing on the dry plains and irrigated farming near streams. Sugar beets, corn, chili peppers, and melons are the most important crops. In addition, a variety of vegetables, from asparagus to zucchini, are grown. Some dry farming is attempted, but the extent of such operations is limited by the annual precipitation of less than 12 inches.

Station History

PUEBLO, CO

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
PUEBLO MEMORIAL AP	1999-04-24	2002-12-17	38° 17'	-104° 29'	4720	.4 MI NNW	ASOS, COOP, WXSVC
PUEBLO MEMORIAL AP	2007-07-09	Present	38° 17'	-104° 29'	4720		ASOS, COOP, WXSVC
PUEBLO MEMORIAL AP	1970-01-01	1973-01-01	38° 16'	-104° 30'	4684		AIRWAYS, COOP
PUEBLO MEMORIAL AP	1954-06-01	1970-01-01	38° 16'	-104° 30'	4646		AIRWAYS, COOP
PUEBLO MEMORIAL AP	1992-10-01	1999-04-24	38° 17'	-104° 29'	4684		ASOS, COOP, WXSVC
PUEBLO MEMORIAL AP	2002-12-17	2007-07-09	38° 17'	-104° 29'	4720		ASOS, COOP, WXSVC
PUEBLO MEMORIAL AP	1973-01-01	1992-10-01	38° 16'	-104° 30'	4684		COOP, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1982-04-01	1982-06-01	DAILY	2300			
PRECIP	1988-09-14	1995-07-01	HOURLY	2400			
PRECIP	1999-04-24	2000-09-06	DAILY	2400	TB	RCRD	
PRECIP	1954-06-01	1982-04-01	DAILY	2400			
EVAP	1982-06-01	1988-09-14	DAILY	0630			
EVAP	1988-09-14	1995-07-01	DAILY	0630	WIND		
EVAP	1988-09-14	1995-07-01	DAILY	0630	PAN-LEVEL		
EVAP	2000-09-06	2002-12-17	DAILY	0700	SIXS		
TEMP	2007-07-09	2009-09-01	DAILY	2400			
PRECIP	2010-05-01	2012-01-31	DAILY	2400	PCPNX		
TEMP	1982-06-01	1988-09-14	DAILY	2400			
PRECIP	1982-06-01	1988-09-14	DAILY	2400	UNIV	RCRD	
PRECIP	1999-04-24	2000-09-06	HOURLY	2400	TB	RCRD	
TEMP	2002-12-17	2007-07-09	DAILY	2400			
PRECIP	2007-07-09	2009-09-01	HOURLY	2400	TB	SHLD;RCRD	
TEMP	2009-09-01	2009-10-01	DAILY	2400			
PRECIP	2009-09-01	2009-10-01	DAILY	2400	PCPN1		
EVAP	1954-06-01	1982-04-01	DAILY	0630			
TEMP	1954-06-01	1982-04-01	DAILY	2300			
EVAP	1982-04-01	1982-06-01	DAILY	0630			
TEMP	1988-09-14	1995-07-01	DAILY	2400	HYGR		
TEMP	1995-07-01	1999-04-24	DAILY	2400	HYGR		
EVAP	2009-09-01	2009-10-01	DAILY	0730	EVAP-C		
EVAP	1995-07-01	1999-04-24	DAILY	0630	PAN-LEVEL		
EVAP	2000-09-06	2002-12-17	DAILY	0700	EVAP-C		
PRECIP	2000-09-06	2002-12-17	HOURLY	2400	TB	RCRD	
EVAP	2009-10-01	2010-05-01	DAILY	0730	EVAP-C		
PRECIP	2010-05-01	2012-01-31	HOURLY	2400	AHTB	SHLD;RCRD;HTD	
PRECIP	1982-04-01	1982-06-01	DAILY	2400			
EVAP	1988-09-14	1995-07-01	DAILY	0630	SIXS		
PRECIP	1995-07-01	1999-04-24	DAILY	2400	UNIV	RCRD	
EVAP	1995-07-01	1999-04-24	DAILY	0630	WIND		
PRECIP	2000-09-06	2002-12-17	DAILY	2400	TB	RCRD	
EVAP	2000-09-06	2002-12-17	DAILY	0700	WIND		
EVAP	2002-12-17	2007-07-09	DAILY	0730	EVAP-C		
PRECIP	2009-10-01	2010-05-01	DAILY	2400	PCPNX		
TEMP	2010-05-01	2012-01-31	DAILY	2400			
PRECIP	1988-09-14	1995-07-01	DAILY	2400	UNIV	RCRD	
EVAP	1995-07-01	1999-04-24	DAILY	0630	SIXS		
PRECIP	1995-07-01	1999-04-24	HOURLY	2400	UNIV	RCRD	
TEMP	1999-04-24	2000-09-06	DAILY	2400	HYGR		
TEMP	2000-09-06	2002-12-17	DAILY	2400	HYGR		
PRECIP	2007-07-09	2009-09-01	DAILY	2400	PCPNX		
EVAP	2007-07-09	2009-09-01	DAILY	0730	EVAP-C		
PRECIP	2012-01-31	Present	DAILY	2400	PCPNX	SHLD	

Element History continued on next page. Also see Station Metadata link below for complete history.

* 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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NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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Element History

PUEBLO, CO

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment	Equipment Modifications	Equipment Exposure
PRECIP	1982-06-01	1988-09-14	HOURLY	2400			
PRECIP	2002-12-17	2007-07-09	DAILY	2400	TB	SHLD;RCRD	
EVAP	2002-12-17	2007-07-09	DAILY	0730	WIND		
PRECIP	2002-12-17	2007-07-09	HOURLY	2400	TB	SHLD;RCRD	
EVAP	2002-12-17	2007-07-09	DAILY	0730	SIXS		
PRECIP	2009-09-01	2009-10-01	HOURLY	2400	TB	SHLD;RCRD	
PRECIP	2009-10-01	2010-05-01	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	2009-10-01	2010-05-01	DAILY	2400			
TEMP	2012-01-31	Present	DAILY	2400	ATEMP		
PRECIP	2012-01-31	Present	HOURLY	2400	AWPAG	RCRD;HTD	