

2003

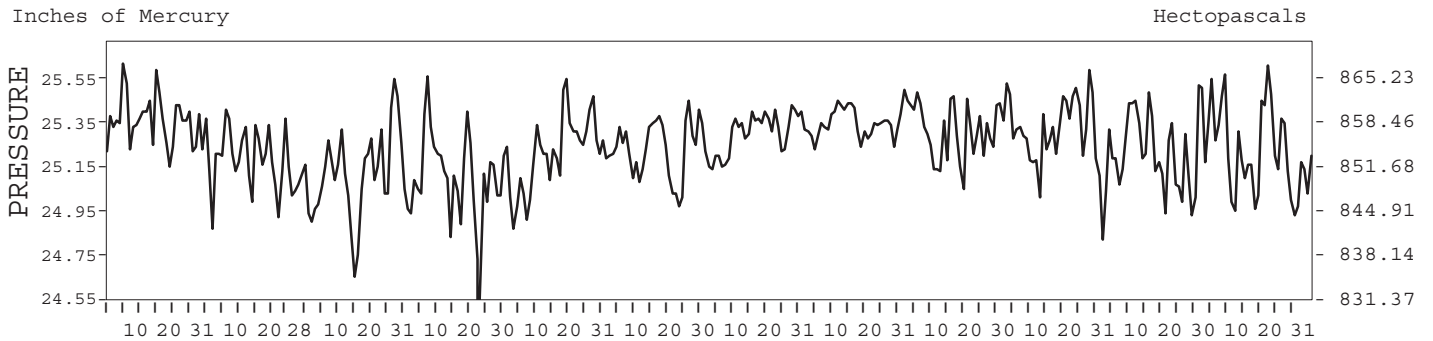
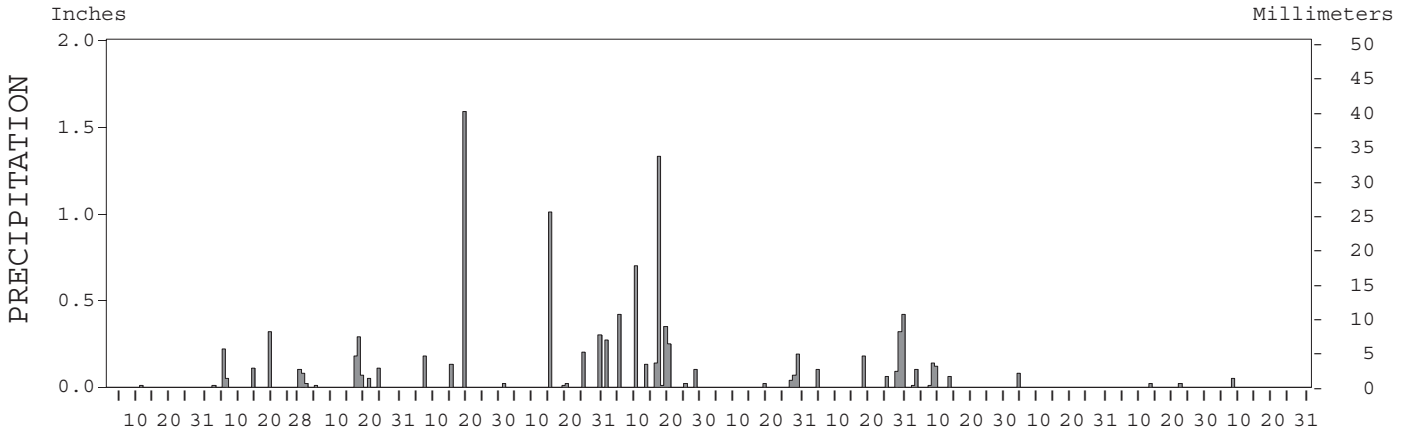
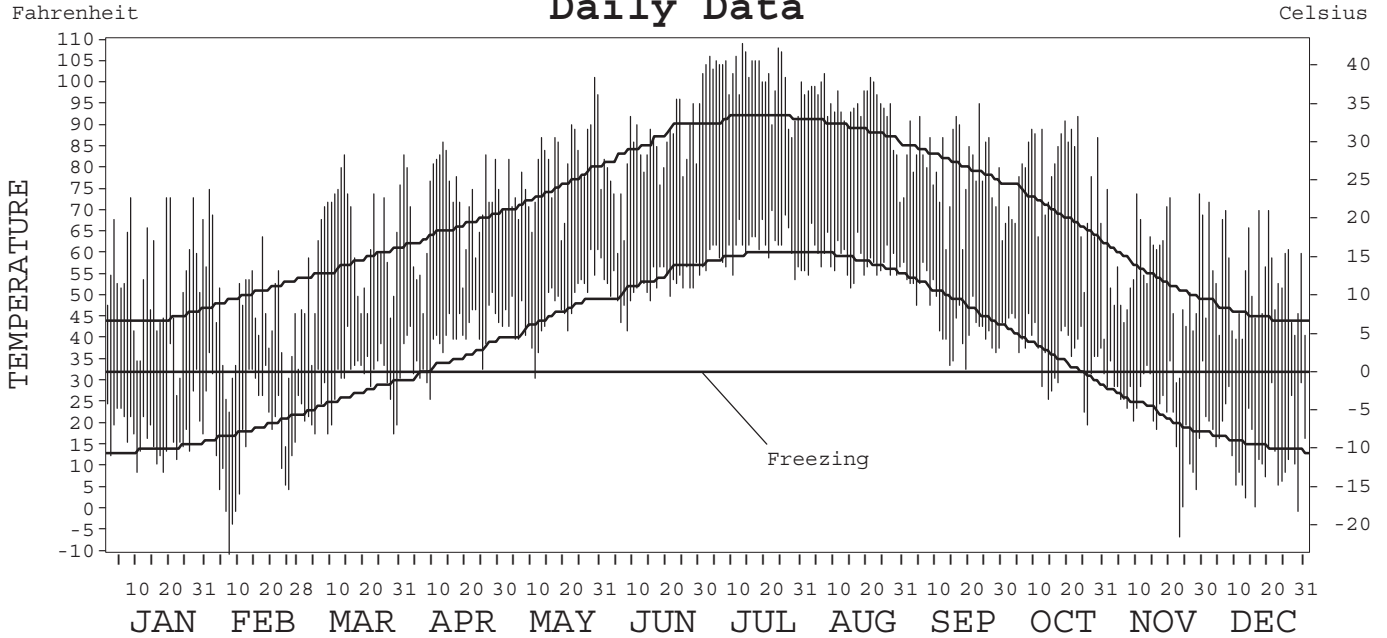
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-7631

PUEBLO,  
COLORADO (PUB)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 2003

## PUEBLO, CO (PUB)

LATITUDE: 38° 17' 24" N      LONGITUDE: 104° 29' 54" W      ELEVATION (FT): GRND: 4652      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	53.7	44.1	61.6	71.1	79.3	83.2	101.0	93.5	80.3	76.2	55.4	53.4	71.1	
	HIGHEST DAILY MAXIMUM	73	75	83	86	101	96	109	102	95	92	75	72	109	
	DATE OF OCCURRENCE	27+	01	14	13	29	24+	13	07	23	23	01	02	JUL 13	
	MEAN DAILY MINIMUM	18.9	17.0	28.9	40.0	47.4	52.3	61.3	58.4	44.8	36.9	22.6	14.8	36.9	
	LOWEST DAILY MINIMUM	9	-10	18	26	31	42	54	52	33	20	-6	0	-10	
	DATE OF OCCURRENCE	18+	07	29+	09	11	08	29	15	19	26	23	29	FEB 07	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	29.1	26.5	36.6	43.8	51.9	57.0		60.6	50.5	43.3	31.2	25.6		
	MEAN DEW POINT	18.8	19.2	24.3	30.0	41.6	49.7		50.3	39.5	27.3	18.8	10.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	4	7	29	27	5	2	0	0	74	
	MAXIMUM ≤ 32°	2	5	0	0	0	0	0	0	0	0	2	0	9	
	MINIMUM ≤ 32°	29	24	19	4	1	0	0	0	0	9	26	31	143	
MINIMUM ≤ 0°	0	4	0	0	0	0	0	0	0	0	1	1	6		
H/C	HEATING DEGREE DAYS	879	956	605	275	110	29	0	0	114	262	771	948	4949	
	COOLING DEGREE DAYS	0	0	0	0	67	121	511	348	47	5	0	0	1099	
RH	MEAN (PERCENT)	56	66	51	45	51	59	35	46	49	38	51	44	49	
	HOUR 05 LST	70	75	71	65	75	84	62	71	73	55	65	58	69	
	HOUR 11 LST	44	56	37	33	38	45	23	34	35	29	41	32	37	
	HOUR 17 LST	42	54	33	27	33	41	20	31	30	25	39	35	34	
	HOUR 23 LST	62	75	58	53	61	70	40	52	59	43	56	46	56	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	5	1	0	1	0	0	0	1	0	1	1	10	
	THUNDERSTORMS	0	0	1	0	3	9	1	5	2	0	0	0	21	
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.)	25.36	25.17	25.12		25.21	25.23	25.30	25.35	25.32	25.29	25.23	25.22		
	MEAN SEA-LEVEL PRESS. (IN.)	30.18	30.00	29.84		29.85	29.85		29.95	29.97	29.98	30.01	30.03		
WINDS	RESULTANT SPEED (MPH)	1.8	0.8	2.9	0.2		1.3	0.4	1.1	1.6	0.5	1.3	2.6		
	RES. DIR. (TENS OF DEGS.)	31	01	30	05		05	01	07	03	03	28	28		
	MEAN SPEED (MPH)	6.9	6.8	9.9	10.0	9.1	7.7	8.1	7.6	7.3	6.5	7.4	7.9	7.9	
	PREVAIL. DIR. (TENS OF DEGS.)	26	07	26	27	03	09	12	08	10	09	27	26	09	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	40	40	44	45	37	40	36	43	41	33	36	40	45	
	DIR. (TENS OF DEGS.)	35	35	33	27	28	24	31	28	35	27	27	18	27	
	DATE OF OCCURRENCE	15	02	19	15	30	10	31+	04	17	29	11	26+	APR 15	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	48	46	51	55	45	48	45	49	49	38	40	52	55	
DIR. (TENS OF DEGS.)	36	36	35	27	26	33	31	28	35	27	36	18	27		
DATE OF OCCURRENCE	15	02	27+	23+	04	06	31	04	17	29+	17+	26+	APR 23+		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.01	0.32	0.37	1.59	1.01	1.33	0.19	0.71	0.14	0.08	0.02	0.05	1.59	
	DATE OF OCCURRENCE	11	19	17-18	19	15	17	29	29-30	08	04	22+	08	APR 19	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	1	6	8	3	6	11	4	6	6	1	2	1	55	
PRECIPITATION ≥ 0.10	0	4	3	3	3	9	1	4	3	0	0	0	30		
PRECIPITATION ≥ 1.00	0	0	0	1	1	1	0	0	0	0	0	0	3		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	0.2	8.4	4.4	0.2	0.0	T	0.0	0.0	0.0	0.0	0.8	T	14.0	
	GREATEST 24-HOUR (IN.)	0.1	3.7	2.2	0.2	0.0	T	0.0	0.0	0.0	0.0	0.7	T	3.7	
	DATE OF OCCURRENCE	23+	05-06	01	07		20					22	22+	FEB 05-06	
	MAXIMUM SNOW DEPTH (IN.)	T	3	3	0	0	0	0	0	0	0	1	T	3	
	DATE OF OCCURRENCE	23+	06	02								23	12	MAR 02	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	0	4	2	0	0	0	0	0	0	0	0	0	6		

# NORMALS, MEANS, AND EXTREMES

## PUEBLO, CO (PUB)

LATITUDE: 38° 17' 24" N      LONGITUDE: 104° 29' 54" W      ELEVATION (FT): GRND: 4652      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	49	45.6	50.5	57.3	67.1	76.9	87.6	92.9	89.7	81.8	70.3	55.8	47.3	68.6
	HIGHEST DAILY MAXIMUM	61	81	81	86	93	102	108	109	104	100	94	84	82	109
	YEAR OF OCCURRENCE		1997	1981	1989	1992	2002	1990	2003	1980	2002	1991	1980	1980	JUL 2003
	MEAN OF EXTREME MAXS.	49	66.9	69.8	77.8	85.5	91.8	100.1	102.1	99.4	95.3	87.6	75.9	69.3	85.1
	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	49	13.7	18.8	25.5	35.2	45.3	54.3	60.4	58.6	49.2	36.2	23.6	15.9	36.4
	LOWEST DAILY MINIMUM	61	-2.9	-3.1	-2.0	2	25	36	44	40	21	4	-17	-25	-31
	YEAR OF OCCURRENCE		1948	1951	1948	1997	1954	2001	1994	1968	1999	1997	1991	1990	FEB 1951
	MEAN OF EXTREME MINS.	49	-6.7	-1.0	8.0	20.7	32.8	43.7	52.9	50.6	35.6	22.1	5.8	-3.4	21.8
	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	49	29.2	33.8	41.3	51.1	61.1	70.8	76.7	74.2	65.4	53.3	39.8	31.6	52.4
	MEAN WET BULB	52	24.2	28.4	33.3	40.5	49.2	56.0	61.1	60.3	52.7	42.4	32.0	26.2	42.2
	MEAN DEW POINT	52	14.5	16.8	21.0	27.1	37.3	45.4	52.3	52.1	42.3	30.7	22.7	16.6	31.6
	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	52	49	50	58	62	52
	HOUR 05 LST	30	73	69	70	72	76	73	75	79	74	71	78	73	74
	HOUR 11 LST	30	52	46	42	37	39	35	36	39	38	37	47	52	42
	HOUR 17 LST	30	51	37	34	32	34	29	32	36	32	33	48	53	38
	HOUR 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)	54	1.5	1.4	1.1	0.7	0.5	0.2	0.1	0.3	0.5	0.7	1.1	1.7	9.8
	THUNDERSTORMS	54	0.0	0.0	0.3	1.6	5.8	7.9	11.2	9.2	3.1	0.5	0.1	0.0	39.7
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)	14	25.25	25.23	25.16	25.17	25.19	25.23	25.30	25.32	25.31	25.28	25.25	25.25	25.25
	MEAN SEA-LEVEL PRES. (IN)	51	30.09	30.03	29.93	29.86	29.85	29.83	29.91	29.93	29.95	30.00	30.06	30.08	29.96
WINDS	MEAN SPEED (MPH)	24	7.0	7.8	9.1	10.3	9.6	9.0	8.6	7.8	7.8	7.4	7.1	7.2	8.2
	PREVAIL. DIR (TENS OF DEGS)	15	27	12	09	09	12	09	12	13	09	27	27	27	09
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	10	44	46	49	52	56	46	58	48	45	47	38	47	58
	DIR. (TENS OF DEGS)		24	28	27	24	35	31	30	35	24	36	36	27	30
	YEAR OF OCCURRENCE		1999	1999	1994	2001	2001	2000	2000	2002	2000	2000	2001	2000	JUL 2000
MAXIMUM 5-SECOND:															
SPEED (MPH)	10	53	55	56	61	68	59	61	58	53	55	47	61	68	
DIR. (TENS OF DEGS)		01	27	27	24	36	02	30	23	24	30	36	27	36	
YEAR OF OCCURRENCE		1996	1999	2000	2001	2001	1997	2000	2001	2000	1996	2001	2000	MAY 2001	
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)	61	1.45	1.39	2.94	6.17	5.43	4.26	5.14	5.85	2.73	4.91	2.48	0.97	6.17
	YEAR OF OCCURRENCE		1948	1987	2000	1942	1957	1961	1990	1955	1976	1957	1991	1979	APR 1942
	MINIMUM MONTHLY (IN)	61	0.00	T	0.04	T	0.22	T	0.09	0.08	T	T	T	T	0.00
	YEAR OF OCCURRENCE		1993	1970	2002	1963	2002	1990	1987	1960	1956	1988	1989	1993	JAN 1993
	MAXIMUM IN 24 HOURS (IN)	61	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)	61	20.0	14.4	22.4	21.2	10.6	T	T	T	14.0	16.3	29.3	15.3	29.3
	YEAR OF OCCURRENCE		1948	1965	1948	1957	1990	1992	1992	1991	1959	1991	1946	1967	NOV 1946
	MAXIMUM IN 24 HOURS (IN)	61	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	1992	1991	1959	1991	1946	1961	APR 1990
	MAXIMUM SNOW DEPTH (IN)	54	12	7	10	9	3	0	0	0	1	8	12	10	12
YEAR OF OCCURRENCE		1960	1989	1998	1990	1990				1984	1997	1972	1967	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) 2003 PUEBLO, CO (PUB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0.40	0.17	0.45	0.29	1.17	1.70	1.23	1.75	0.65	0.86	0.69	0.32	9.68
1975	0.07	0.24	0.12	0.85	0.69	2.05	2.19	2.24	0.06	0.61	0.71	0.05	9.88
1976	0.15	0.11	0.86	0.88	0.68	1.34	2.08	0.88	2.73	0.98	0.30	0.14	11.13
1977	0.10	0.32	0.10	1.77	0.60	0.25	2.96	3.53	0.08	T	0.14	0.02	9.87
1978	0.16	0.34	0.40	0.44	1.95	1.19	0.99	1.23	0.08	0.68	0.24	0.71	8.41
1979	0.59	0.06	2.34	0.54	2.60	3.51	1.47	2.04	0.63	0.36	0.94	0.97	16.05
1980	0.39	0.14	1.22	2.99	2.20	0.43	0.75	2.35	0.47	T	0.64	0.01	11.59
1981	0.12	0.15	1.24	0.13	0.76	0.16	1.28	2.55	0.32	0.19	0.04	0.67	7.61
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
POR= 49 YRS	0.35	0.31	0.83	1.13	1.53	1.32	1.95	2.08	0.86	0.75	0.52	0.35	11.98

WBAN : 93058

AVERAGE TEMPERATURE (°F) 2003 PUEBLO, CO (PUB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	26.3	36.8	47.0	51.3	65.6	72.4	78.7	72.8	63.3	56.8	41.5	28.8	53.4
1975	31.6	33.5	40.5	49.3	59.8	70.0	76.8	75.3	64.0	54.6	38.3	36.5	52.5
1976	30.9	40.2	38.5	51.3	59.5	69.4	76.6	72.5	63.8	48.4	36.0	33.0	51.7
1977	27.6	38.2	42.0	54.2	65.3	74.2	77.5	74.1	67.5	53.8	40.6	36.0	54.3
1978	25.2	29.1	43.7	53.2	58.0	70.2	77.9	72.8	66.7	53.6	38.9	24.0	51.1
1979	16.1	34.4	43.1	51.8	57.6	68.9	76.5	71.7	67.4	55.2	35.8	33.9	51.0
1980	28.2	37.2	40.6	48.3	58.3	72.8	80.2	76.0	67.0	52.4	40.8	41.2	53.6
1981	36.6	39.8	45.9	59.6	62.0	75.6	79.2	74.2	68.7	56.3	46.4	34.5	56.6
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
POR= 50 YRS	29.8	34.4	41.4	50.9	61.1	70.8	76.6	74.3	65.4	53.4	39.8	31.7	52.5

HEATING DEGREE DAYS (base 65°F) 2003 PUEBLO, CO (PUB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0	0	103	250	698	1118	1024	876	756	472	167	39	5503
1975-76	0	0	119	320	795	874	1049	714	814	401	175	25	5286
1976-77	0	2	106	507	861	986	1151	747	708	318	44	1	5431
1977-78	0	4	34	343	723	894	1228	1001	653	347	238	54	5519
1978-79	0	6	59	347	778	1264	1509	849	674	391	247	48	6172
1979-80	0	8	45	299	870	959	1135	797	751	492	214	6	5576
1980-81	0	0	46	383	717	731	871	697	584	175	119	3	4326
1981-82	0	0	22	272	554	938	1047	883	582	358	151	35	4842
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-	0	0	114	262	771	948							

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COOLING DEGREE DAYS (base 65°F) 2003 PUEBLO, CO (PUB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0	0	0	6	83	264	432	249	60	4	0	0	1098
1975	0	0	0	6	14	191	371	326	97	3	0	0	1008
1976	0	0	0	0	9	163	365	239	76	0	0	0	852
1977	0	0	0	1	57	283	396	293	115	0	0	0	1145
1978	0	0	3	0	27	217	411	255	116	2	0	0	1031
1979	0	0	0	1	25	169	363	221	124	1	0	0	904
1980	0	0	0	1	14	247	482	347	111	0	0	0	1202
1981	0	0	0	20	34	328	446	291	142	9	0	0	1270
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

SNOWFALL (inches) 2003 PUEBLO, CO (PUB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0.0	0.0	0.0	0.0	1.5	4.2	1.7	4.1	1.4	8.2	0.0	0.0	21.1
1975-76	0.0	0.0	0.0	0.0	5.4	0.9	2.8	2.2	11.1	T	0.0	0.0	22.4
1976-77	0.0	0.0	0.0	2.4	4.0	2.0	1.8	3.6	1.1	T	0.0	0.0	14.9
1977-78	0.0	0.0	0.0	T	0.1	0.3	3.6	5.3	1.5	0.2	3.5	0.0	14.5
1978-79	0.0	0.0	0.0	T	1.0	11.5	11.0	T	7.7	0.8	1.4	0.0	33.4
1979-80	0.0	0.0	0.0	T	2.9	9.9	4.1	3.0	13.0	9.7	0.0	0.0	42.6
1980-81	0.0	0.0	0.0	0.0	5.3	0.1	1.6	3.0	6.4	0.4	0.0	0.0	16.8
1981-82	0.0	0.0	0.0	0.0	0.4	4.9	9.1	4.3	2.4	0.3	2.2	0.0	23.6
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-	0.0	0.0	0.0	0.0	0.8	T							
POR= 48 YRS	T	T	0.7	1.7	3.9	4.9	6.1	4.1	6.4	3.8	0.5	T	32.1

WBAN : 93058

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.</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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2003  
PUEBLO,  
COLORADO (PUB)

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 LOCATION

PUEBLO, COLORADO

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE		ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE	REMARKS	
				NORTH	WEST	SEA LEVEL	GROUND												
							GROUND	WIND	EXTREME	PSYCHROMETER	SUNSHINE	TIPPING GAUGE	WEIGHING	8 INCH	HYGROMETER				
*NOTE:																			
<u>AIRPORT</u>																			
Pueblo Municipal AP Administration Bldg.	2/01/32	7/01/40	3.5 mi. SW of P.O.	38°14'	104°38'	4796	36		5							5			
Pueblo Municipal AP Administration Bldg.	7/01/40	6/01/54	No Change	38°14'	104°38'	4799	36	6	5	5	3	3						City office and airport office consolidated.	
Building T-134 Memorial Airport 6 miles east of P.O.	6/01/54	9/30/69	10 mi. ENE	38°17'	104°31'	4684	b22	5	5	a4	5	3	c4					Relocation to former Pueblo Army Air Base, redesignated as Pueblo Memorial Airport. a. Installed 5/9/55. b. 34 feet prior to move to field site 3/19/62. c. Commissioned 2600 feet NNW of thermometer site 2/10/64. d. 4639 feet to 2/10/64.	
Terminal Building Memorial Airport	9/30/69	1/1/82	350 ft. NNW	38°17'	104°31'	4684	e22	5	5	26	3	4	3	e4	NA			e. Same site as prior to 9/30/69. Data for period 1/1/82-8/31/ obtained from SAWRS at Memor Airport.	
Terminal Building Memorial Airport	9/1/82	10/1/92	NA	38°17'	104°30'	4684	33	5	5	26	3	4	3	4	NA			WSO reopened at same location.	
Memorial Airport	10/01/92	Present	NA	38°17'	104°30'	f4652									S			ASOS Commissioned 10/01/92 f. Ground elevation.	

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