

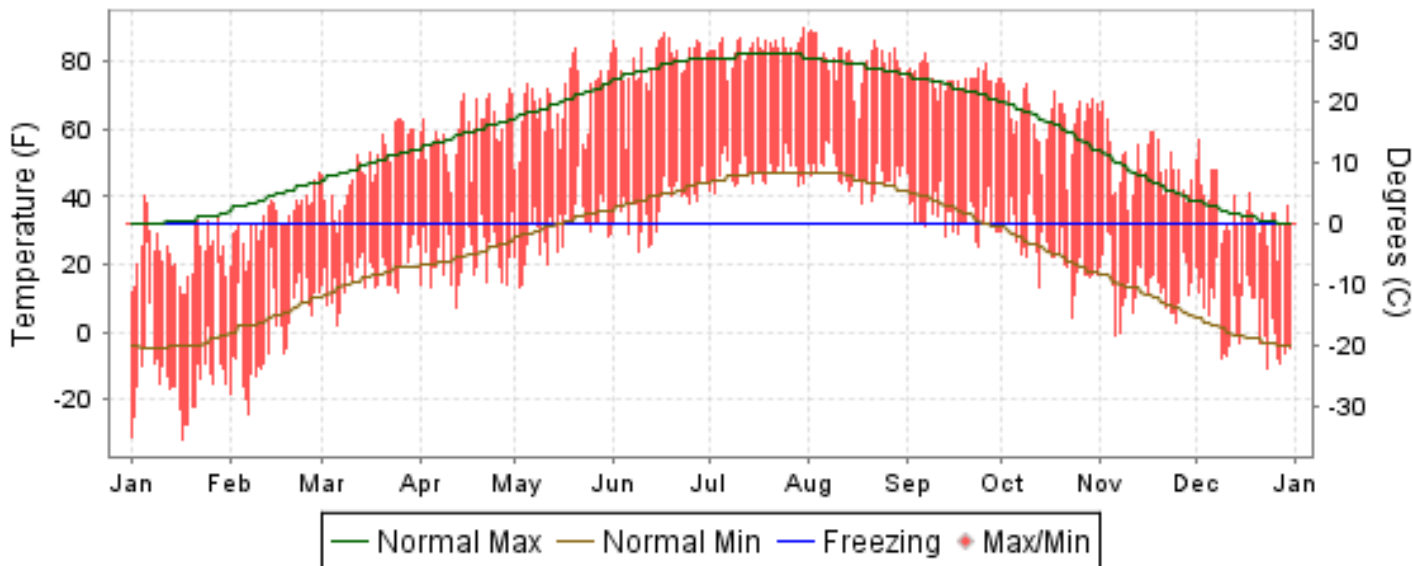


2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

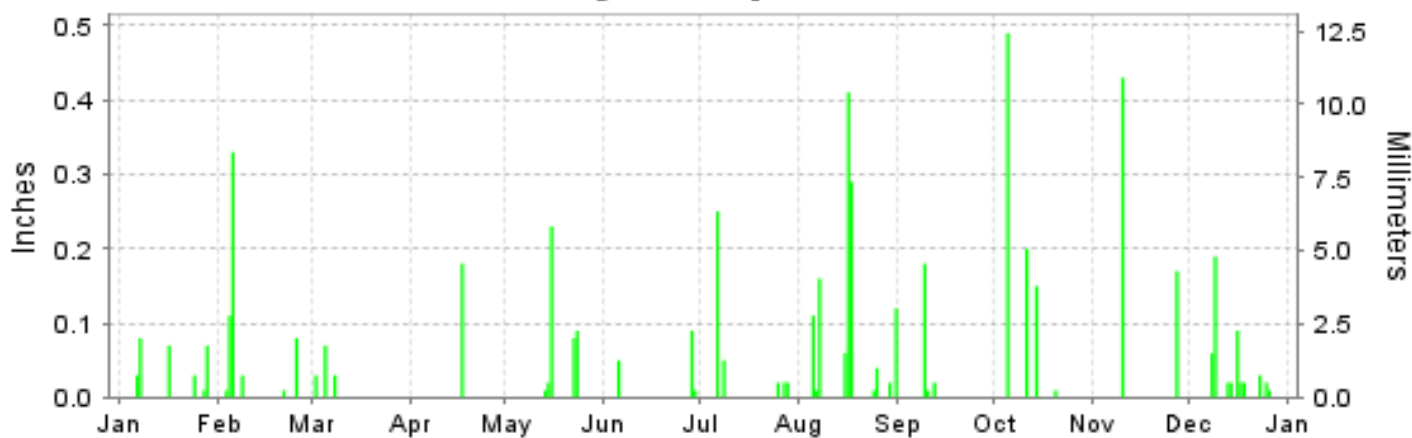
ISSN 0198-7720

ALAMOSA, COLORADO (KALS)

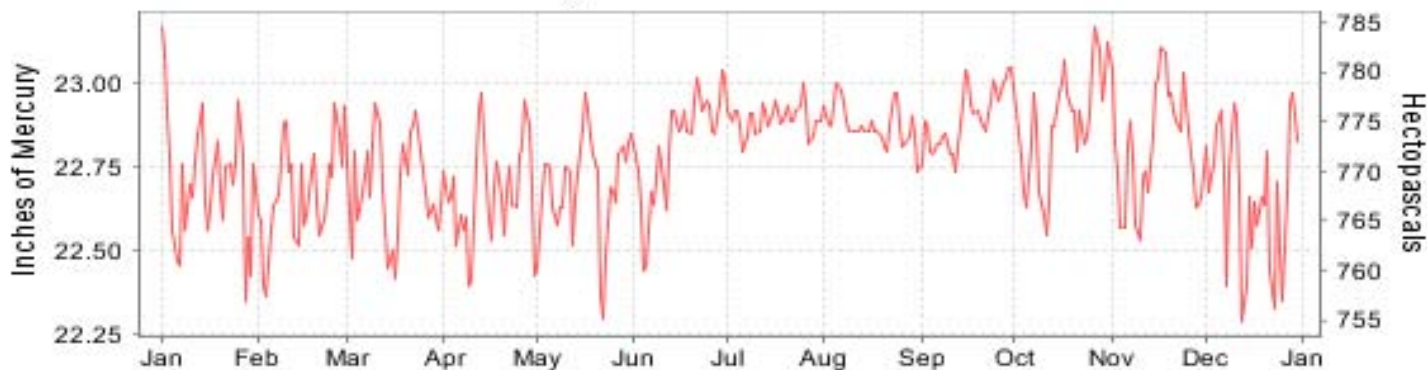
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2008

ALAMOSA (KALS)

LATITUDE: 37 ° 26'N LONGITUDE: -105 ° 51'W ELEVATION (FT): GRND: 7533 BARO: 7536 TIME ZONE: MOUNTAIN (UTC -7) WBAN: 23061

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	23.5	33.2	48.5	59.8	68.0	79.9	83.9	80.5	75.2	63.7	49.1	35.4	58.4	
	HIGHEST DAILY MAXIMUM	40	47	63	72	84	88	90	89	82	75	68	57	90	
	DATE OF OCCURRENCE	05	29	26+	29	20	17	31	02	07	01	02	02	JUL 31	
	MEAN DAILY MINIMUM	-12.2	0.0	17.2	22.0	30.2	37.7	47.5	46.6	34.5	23.7	13.4	3.7	22.0	
	LOWEST DAILY MINIMUM	-32	-24	2	7	13	24	41	38	25	4	-1	-11	-32	
	DATE OF OCCURRENCE	17	07	06	12	02	09	03	18	24	23	06	24	JAN 17	
	AVERAGE DRY BULB	5.7	16.6	32.9	40.9	49.1	58.8	65.7	63.6	54.9	43.7	31.3	19.6	40.2	
	MEAN WET BULB	4.3	14.9	26.1	30.2	38.4	45.7	54.0	52.8	44.4	34.7	25.3	16.9		
	MEAN DEW POINT	-1.3	9.2	14.5	9.9	22.3									
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	1	0	0	0	0	0	1
MAXIMUM <= 32°	26	14	2	0	0	0	0	0	0	1	0	0	13	56	
MINIMUM <= 32°	31	29	31	28	19	6	0	0	0	14	27	30	31	246	
MINIMUM <= 0°	27	14	0	0	0	0	0	0	0	0	0	2	15	58	
H/C	HEATING DEGREE DAYS	1831	1396	988	715	488	184	16	63	299	654	1004	1399	9037	
	COOLING DEGREE DAYS	0	0	0	0	0	2	45	26	0	0	0	0	73	
RH	MEAN (PERCENT)	71	71	53	34	40	38	56	60	52	53	63	71	55	
	HOUR 05 LST	78	81	75	62	64	59	84	86	84	78	84	83	77	
	HOUR 11 LST	59	58	33	17	21	17	31	36	28	30	42	56	36	
	HOUR 17 LST	71	68	39	20	23	18	39	47	35	39	53	68	43	
	HOUR 23 LST	77	80	66	46	55	54	73	78	66	66	76	81	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	5	1	1	0	0	0	1	0	1	3	3	18	
	THUNDERSTORMS	0	0	0	0	4	1	7	6	3	1	0	0	22	
CLOUDNESS	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.)	22.71	22.68	22.69	22.68	22.69	22.82	22.89	22.87	22.90	22.88	22.82	22.68	22.78	
	MEAN SEA-LEVEL PRESS. (IN.)	30.32	30.15	30.00	29.90	29.84	29.93	29.99	29.98	30.07	30.15	30.19	30.12	30.05	
WINDS	RESULTANT SPEED (MPH)	2.4	2.6	3.0	5.9	5.6	4.6	0.8	1.4	1.9	2.3	1.5	3.3	2.7	
	RES. DIR. (TENS OF DEGS.)	25	24	25	24	22	23	19	17	19	22	28	23	24	
	MEAN SPEED (MPH)	5.3	5.9	8.0	11.5	11.1	9.1	6.3	6.1	6.0	6.6	4.8	6.9	7.3	
	PREVAIL.DIR.(TENS OF DEGS.)	24	23	24	24	20	26	12	11	12	18	22	25	23	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	40	30	44	44	45	44	41	36	32	43	39	43	45	
	DIR. (TENS OF DEGS.)	24	23	22	25	27	24	29	27	23	23	22	11	27	
	DATE OF OCCURRENCE	28	14	16	15	08	11	17	23	21	20	04	09	MAY 08	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	48	38	52	59	55	60	52	47	45	52	48	55	60	
DIR. (TENS OF DEGS.)	24	23	27	26	27	23	29	28	22	23	22	12	23		
DATE OF OCCURRENCE	28	14	30	15	08	11	17	23	22	20	04	09	JUN 11		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.29	0.57	0.13	0.18	0.43	0.15	0.36	1.23	0.21	0.85	0.60	0.48	5.48	
	GREATEST 24-HOUR (IN.)	0.08	0.42	0.07	0.18	0.25	0.09	0.25	0.68	0.19	0.49	0.43	0.25	0.68	
	DATE OF OCCURRENCE	07	04-05	05	17	14-15	28	06	16-17	09-10	05	10	08-09	AUG 16-17	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	6	6	3	1	5	3	5	10	3	4	2	10	58	
PRECIPITATION 0.10	0	2	0	1	1	0	1	5	0	3	2	1	16		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	5.0	10.0	2.3	3.3	T	0.0	0.0	0.0	0.0	1.4	4.0	6.4	32.4	
	GREATEST 24-HOUR (IN.)	2.0	6.7	1.4	3.3	T	0.0	0.0	0.0	0.0	1.4	2.8	3.0	6.7	
	DATE OF OCCURRENCE	16	05	05	17	23					14	10	08-09	FEB 05	
	MAXIMUM SNOW DEPTH (IN.)	6	8	1	T	0	0	0	0	0	0	3	3	8	
	DATE OF OCCURRENCE	02+	08+	06+	17							11	17+	FEB 08+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	3	3	1	1	0	0	0	0	0	0	1	2	2	13	

NORMALS, MEANS, AND EXTREMES ALAMOSA (KALS)

LATITUDE: 37 ° 26'N **LONGITUDE:** -105 ° 51'W **ELEVATION (FT):** GRND: 7533 BARO: 7536 **TIME ZONE:** MOUNTAIN (UTC -7) **WBAN: 23061**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	33.1	40.2	49.6	58.7	68.3	78.4	81.7	78.9	72.5	61.7	45.7	34.8	58.6
	MEAN DAILY MAXIMUM	61	34.4	40.2	49.1	58.8	68.5	78.2	82.2	79.5	73.5	62.7	47.3	36.0	59.2
	HIGHEST DAILY MAXIMUM	62	62	66	73	80	90	95	96	91	87	81	71	61	96
	YEAR OF OCCURRENCE		1971	1986	1989	1989	2002	1994	1989	2002	1990	1979	1980	1958	JUL 1989
	MEAN OF EXTREME MAXS.	61	48.8	53.9	64.1	72.3	80.3	87.4	89.0	86.5	82.5	74.8	61.8	50.9	71.0
	NORMAL DAILY MINIMUM	30	-3.7	4.7	15.8	22.8	32.4	40.4	46.4	45.2	36.5	23.9	11.1	-7	22.9
	MEAN DAILY MINIMUM	61	-1.6	5.3	16.0	23.8	33.1	41.0	47.4	45.6	36.5	24.5	11.7	0.6	23.7
	LOWEST DAILY MINIMUM	62	-50	-35	-20	-6	11	24	30	29	15	-10	-30	-42	-50
	YEAR OF OCCURRENCE		1948	1948	1964	1973	1967	2008	1997	1964	1999	1945	1952	1978	JAN 1948
	MEAN OF EXTREME MINS.	61	-20.3	-13.7	-1.0	9.0	20.0	30.2	39.3	36.5	24.1	9.8	-5.8	-17.5	9.2
	NORMAL DRY BULB	30	14.7	22.5	32.7	40.8	50.4	59.4	64.1	62.1	54.5	42.8	28.4	17.1	40.8
	MEAN DRY BULB	61	16.4	22.9	32.6	41.4	50.8	59.7	64.8	62.6	55.0	43.6	29.5	18.3	41.5
	MEAN WET BULB	25	12.9	19.0	27.0	32.3	39.9	47.1	52.6	52.5	44.3	34.4	23.6	14.3	33.3
	MEAN DEW POINT	25	7.2	12.9	17.9	21.7	28.6	35.8	44.5	45.5	36.4	25.9	16.6	8.0	25.1
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.0	0.5	0.8	*	0.0	0.0	0.0	0.0	1.3
	MAXIMUM <= 32	30	13.7	5.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.3	3.9	11.5	36.2
	MINIMUM <= 32	30	31.0	28.2	30.6	27.0	13.7	1.8	*	0.1	7.2	27.0	29.5	31.0	227.1
MINIMUM <= 0	30	18.5	9.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	4.3	15.6	48.7	
H/C	NORMAL HEATING DEG. DAYS	30	1551	1189	985	719	451	169	47	91	302	675	1082	1475	8736
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	7	27	10	0	0	0	0	44
RH	NORMAL (PERCENT)	30	67	62	53	46	44	42	51	58	54	52	61	66	55
	HOURLY 05 LST	30	81	81	77	72	74	75	84	86	82	78	81	80	79
	HOURLY 11 LST	30	60	53	42	32	29	29	37	42	39	38	49	57	42
	HOURLY 17 LST	30	55	45	35	29	28	24	34	38	33	33	47	55	38
	HOURLY 23 LST	30	80	77	68	61	58	56	66	73	68	65	76	79	69
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISIB <= 1/4 MI) THUNDERSTORMS	26 29	5.2 0.0	3.3 0.2	2.9 0.5	2.0 2.0	1.1 5.6	0.5 7.6	0.8 12.2	1.6 10.9	1.3 6.1	1.4 1.9	2.5 0.1	4.5 0.0	27.1 47.1
CLOUDNESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1	3.2	4.8	4.5	4.8	4.3	2.7	2.4	5.1	2.4	3.6	4.0	3.2	3.8
	MIDNIGHT-MIDNIGHT (OKTAS)	1	4.0	4.8	4.8	4.8	4.3	3.6	2.8	5.3	2.4	4.0	5.2	3.2	4.1
	MEAN NO. DAYS WITH:														
	CLEAR	2	15.5	8.0	8.3	7.5	11.0	14.3	16.0	5.0	9.5	10.5	6.0	12.0	123.6
PARTLY CLOUDY	3	6.0	6.3	4.3	7.5	7.3	6.0	6.5	10.0	1.5	6.5	5.5	7.5	74.9	
CLOUDY	3	5.7	7.0	3.0	7.5	5.7	5.0	1.0	9.0	1.5	3.0	3.5	2.5	54.4	
PR	MEAN STATION PRESSURE (IN)	25	22.76	22.72	22.70	22.71	22.77	22.85	22.94	22.95	22.90	22.84	22.79	22.77	22.81
	MEAN SEA-LEVEL PRES. (IN)	25	30.28	30.15	30.00	29.92	29.91	29.95	30.03	30.07	30.06	30.08	30.16	30.26	30.07
WINDS	MEAN SPEED (MPH)	25	5.4	6.7	8.7	10.2	10.1	9.0	7.0	6.4	6.9	6.7	6.4	5.3	7.4
	PREVAIL. DIR. (TENS OF DEGS)	45	25	19	19	19	24	25	19	19	19	19	19	21	19
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	15	41	46	49	51	47	52	45	39	54	45	48	43	54
	DIR. (TENS OF DEGS)		23	23	22	24	24	22	13	19	26	30	21	11	26
	YEAR OF OCCURRENCE		1996	1993	1999	1999	2004	2007	2006	2007	2000	1997	1994	2008	SEP 2000
	MAXIMUM 3-SECOND														
	SPEED (MPH)	15	54	62	60	75	57	67	64	56	67	54	55	55	75
DIR. (TENS OF DEGS)		22	19	22	21	18	24	22	01	25	31	21	12	21	
YEAR OF OCCURRENCE		1999	1998	1999	1999	1996	2007	2007	2002	2000	1997	1994	2008	APR 1999	
PRECIPITATION	NORMAL (IN)	30	0.25	0.21	0.46	0.54	0.70	0.59	0.94	1.19	0.89	0.67	0.48	0.33	7.25
	MAXIMUM MONTHLY (IN)	62	1.09	1.42	1.62	1.72	1.85	2.58	3.50	5.40	1.94	2.37	1.23	1.52	5.40
	YEAR OF OCCURRENCE		2005	1963	1992	1990	1973	1969	1968	1993	1959	1969	1991	1964	AUG 1993
	MINIMUM MONTHLY (IN)	61	T	T	T	T	0.01	T	0.02	0.21	T	T	T	T	T
	YEAR OF OCCURRENCE		1981	1954	1955	1972	1975	1980	1994	1980	1956	1983	1989	1980	NOV 1989
	MAXIMUM IN 24 HOURS (IN)	61	0.54	1.15	1.15	1.33	1.04	1.04	3.73	1.34	1.82	1.27	0.78	0.93	3.73
	YEAR OF OCCURRENCE		2005	1963	1992	1952	1990	1969	2007	1993	1959	1969	1985	1964	JUL 2007
	NORMAL NO. DAYS WITH:														
PRECIPITATION >= 0.01	30	3.8	3.8	5.4	5.1	6.1	5.4	8.5	10.1	6.4	4.8	4.4	4.0	67.8	
PRECIPITATION >= 1.00	30	0.0	0.0	*	*	0.0	0.0	*	0.1	0.0	0.0	0.0	0.0	0.1	
SNOWFALL	NORMAL (IN)	30	4.6	2.7	5.9	3.6	1.9	0.*	0.0	0.0	0.*	3.1	4.4	4.8	31.0
	MAXIMUM MONTHLY (IN)	61	13.9	16.0	29.2	16.4	13.5	0.2	T	0.0	4.2	20.3	19.8	27.7	29.2
	YEAR OF OCCURRENCE		1979	1963	1973	1947	1978	1983	1981		1961	1969	1972	1967	MAR 1973
	MAXIMUM IN 24 HOURS (IN)	61	9.4	11.5	14.0	10.0	12.0	0.2	T	0.0	4.2	15.5	9.2	15.8	15.8
	YEAR OF OCCURRENCE'		1987	1963	1962	1957	1990	1983	1981	1994	1961	1969	1985	1967	DEC 1967
	MAXIMUM SNOW DEPTH (IN)	64	10	10	11	11	4	T	T	0	1	12	12	18	18
	YEAR OF OCCURRENCE		1992	1963	1992	1957	1978	1990	1990	1990	1959	1991	1972	1964	DEC 1964
	NORMAL NO. DAYS WITH:														
SNOWFALL >= 1.0	30	1.4	1.1	2.0	1.0	0.7	0.0	0.0	0.0	0.1	0.7	1.4	1.6	10.0	

PRECIPITATION (inches) 2008 ALAMOSA (KALS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	0.75	0.09	0.29	0.42	0.94	0.72	0.19	1.61	0.22	0.19	0.50	0.55	6.47
1980	0.32	0.31	0.65	1.48	1.21	T	0.54	0.21	0.46	0.52	0.01	T	5.71
1981	T	0.13	0.62	0.01	0.99	0.95	1.43	1.94	1.40	0.34	0.78	0.33	8.92
1982	0.07	0.49	0.40	0.37	0.57	0.22	0.51	0.58	1.85	0.19	0.25	0.49	5.99
1983	0.21	0.25	0.85	0.32	0.87	1.23	0.50	0.87	0.38	T	0.78	0.99	7.25
1984	0.14	0.28	1.12	0.49	0.18	0.55	0.74	1.07	0.36	1.48	0.10	0.59	7.10
1985	0.28	0.28	0.44	0.97	0.37	0.47	1.68	0.91	1.33	2.02	0.68	0.37	9.80
1986	0.05	0.10	0.37	1.08	0.74	0.67	0.54	0.66	1.20	1.18	1.02	0.12	7.73
1987	0.65	0.48	0.29	0.85	1.00	0.14	0.03	1.06	0.22	0.31	0.95	0.51	6.49
1988	0.26	0.25	0.18	0.35	0.51	0.83	0.66	1.08	0.64	0.20	0.35	0.11	5.42
1989	0.31	0.28	0.10	0.09	0.12	0.14	1.46	0.35	1.28	0.09	T	0.15	4.37
1990	0.62	0.20	0.43	1.72	0.78	0.45	1.86	1.28	1.48	0.72	0.90	0.75	11.19
1991	0.14	0.36	0.32	0.16	0.66	0.30	0.59	0.88	0.70	0.95	1.23	0.98	7.27
1992	0.08	0.08	1.62	0.04	1.13	1.23	1.21	1.97	0.50	0.01	0.48	0.79	9.14
1993	0.25	0.39	0.68	0.42	0.93	0.14	0.33	5.40	0.58	0.32	0.35	0.10	9.89
1994	0.22	0.04	0.45	0.39	1.78	0.15	0.02	1.22	1.01	0.88	0.84	0.07	7.07
1995	0.10	0.09	0.36	0.87	0.63	1.26	0.95	0.85	1.60	0.00	0.20	0.13	7.04
1996	0.06	0.01	0.36	0.66	0.03	1.16	0.57	0.94	0.57	0.86	0.22	T	5.44
1997	0.33	0.77	0.04	0.17	0.51	0.79	0.92	0.92	1.69	0.43	0.54	0.19	7.30
1998	T	0.03	0.53	0.67	0.01	0.27	1.45	1.03	0.86	1.66	0.35	0.01	6.87
1999	0.07	T	0.22	1.15	1.07	0.32	0.31	3.08	1.09	0.24	T	0.03	7.58
2000	0.23	0.02	0.52	0.60	0.10	0.54	0.37	1.01	0.23	1.24	0.05	0.11	5.02
2001	0.36	0.56	1.02	0.27	1.09	0.07	2.75	3.22	0.11	0.03	0.26	0.13	9.87
2002	0.50	0.23	0.07	0.15	0.04	0.02	0.84	0.32	1.38	0.57	0.06	0.24	4.42
2003	0.01	0.28	0.51	0.24	0.11	0.60	0.94	1.26	1.29	0.38	0.58	0.30	6.50
2004	0.14	1.02	0.19	1.05	0.01	0.42	0.72	0.60	0.74	0.60	0.28	0.26	6.03
2005	1.09	0.38	0.79	0.78	0.38	0.36	0.17	1.59	1.12	1.18	0.08	0.04	7.96
2006	0.17	0.02	0.57	0.36	0.18	0.15	2.94	1.08	0.60	1.59	0.15	0.62	8.43
2007	0.48	0.07	1.05	1.49	0.53	0.25	2.62	0.49	1.06	0.07	0.42	1.21	9.74
2008	0.29	0.57	0.13	0.18	0.43	0.15	0.36	1.23	0.21	0.85	0.60	0.48	5.48
POR= 61 YRS	0.28	0.27	0.42	0.52	0.63	0.54	1.09	1.21	0.81	0.66	0.38	0.35	7.16

WBAN : 23061

AVERAGE TEMPERATURE (°F) 2008 ALAMOSA (KALS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	6.0	10.6	30.4	41.4	50.7	58.0	63.6	61.1	55.9	45.7	21.0	18.5	38.6
1980	20.8	29.4	30.2	38.2	48.5	61.9	67.0	61.9	56.0	40.4	30.4	28.1	42.7
1981	23.7	25.6	33.2	45.5	50.1	62.6	65.9	61.9	56.2	43.6	34.6	20.7	43.6
1982	17.8	22.2	33.2	40.2	48.5	57.2	64.1	64.2	55.6	41.4	30.8	20.9	41.3
1983	20.3	26.2	34.2	36.3	46.8	56.5	65.3	64.7	57.7	43.2	27.7	13.8	41.1
1984	1.6	10.8	27.1	38.1	55.2	58.6	65.9	63.2	56.3	40.7	29.9	20.1	39.0
1985	17.7	21.6	34.5	43.9	51.4	60.3	65.3	63.0	52.2	44.3	30.0	17.4	41.8
1986	25.0	29.7	36.8	43.4	50.5	60.3	63.1	62.8	52.6	41.3	31.3	20.4	43.1
1987	13.4	23.4	31.0	42.7	50.7	61.0	63.9	62.3	52.7	45.4	27.1	14.7	40.7
1988	4.5	17.2	31.5	42.8	50.1	61.8	64.5	63.9	53.5	46.1	29.8	17.8	40.3
1989	15.0	21.5	37.2	44.7	53.3	58.9	65.9	62.3	55.8	42.2	31.4	19.6	42.3
1990	14.8	25.9	36.4	43.3	49.3	62.5	63.6	61.1	58.3	44.4	31.7	13.3	42.1
1991	10.9	26.1	34.0	40.0	51.6	59.4	64.8	63.4	55.4	44.5	22.7	5.2	39.8
1992	1.4	14.5	29.6	47.0	53.5	58.8	62.1	60.8	55.0	45.2	22.1	6.7	38.1
1993	11.9	19.1	33.9	41.7	50.8	58.7	63.3	61.1	53.4	41.1	25.8	18.5	39.9
1994	19.3	22.7	34.8	41.8	52.3	62.4	63.1	63.5	54.2	42.3	25.5	22.6	42.0
1995	23.3	33.2	34.6	38.9	47.4	56.8	62.0	64.7	53.7	42.2	32.4	23.6	42.7
1996	20.8	28.6	32.0	41.7	55.2	60.0	65.1	62.7	52.6	40.2	31.6	21.5	42.7
1997	16.0	22.3	34.9	37.8	50.6	59.1	62.6	62.7	57.9	42.5	27.5	8.7	40.2
1998	15.4	24.2	32.5	38.3	51.0	58.2	65.7	63.2	57.9	42.9	34.1	23.6	42.3
1999	25.6	28.4	37.3	38.7	49.3	58.0	64.7	62.7	53.4	43.2	32.7	20.1	42.8
2000	24.2	29.3	33.6	44.5	53.9	60.6	64.8	64.6	56.5	43.5	24.6	21.8	43.5
2001	14.8	24.0	34.2	44.1	54.1	60.9	65.8	62.6	56.1	44.3	30.5	19.0	42.5
2002	16.8	19.7	31.3	46.7	51.2	62.5	66.0	62.4	55.3	42.0	29.7	18.8	41.9
2003	26.5	25.3	33.9	41.6	52.4	58.2	68.3	64.3	54.6	47.3	31.7	19.0	43.6
2004	19.2	13.7	39.4	42.8	52.5	59.3	62.9	61.4	54.1	42.9	29.9	20.0	41.5
2005	24.0	27.3	32.1	42.6	52.8	59.2	66.3	62.3	57.0	45.9	32.4	21.2	43.6
2006	21.5	25.2	33.6	44.6	53.9	61.8	65.7	63.4	51.2	43.5	32.3	19.3	43.0
2007	8.5	22.7	37.3	42.6	51.8	60.7	66.3	65.4	57.0	44.3	30.7	12.3	41.6
2008	5.7	16.6	32.9	40.9	49.1	58.8	65.7	63.6	54.9	43.7	31.3	19.6	40.2
POR= 61 YRS	16.4	22.9	32.6	41.4	50.8	59.7	64.8	62.6	55.0	43.6	29.5	18.3	41.5

HEATING DEGREE DAYS (base 65°F) 2008 ALAMOSA (KALS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	57	127	267	590	1312	1438	1363	1029	1071	798	504	107	8663
1980-81	5	102	263	757	1031	1136	1274	1097	979	576	458	102	7780
1981-82	14	108	256	656	904	1366	1457	1192	977	736	508	230	8404
1982-83	59	47	275	724	1016	1361	1380	1080	946	856	556	249	8549
1983-84	28	35	213	674	1112	1582	1964	1567	1166	799	297	188	9625
1984-85	11	56	252	748	1051	1384	1462	1209	937	625	415	146	8296
1985-86	30	66	378	636	1045	1473	1231	983	866	639	446	138	7931
1986-87	63	75	366	728	1004	1377	1594	1160	1049	661	436	115	8628
1987-88	66	96	364	601	1130	1557	1872	1381	1031	658	454	102	9312
1988-89	28	50	337	577	1049	1453	1544	1211	854	600	357	180	8240
1989-90	17	82	270	698	1001	1400	1550	1089	880	640	480	105	8212
1990-91	59	118	201	633	990	1599	1671	1081	954	742	410	172	8630
1991-92	33	51	280	630	1263	1852	1973	1459	1093	535	350	179	9698
1992-93	97	131	295	607	1281	1803	1638	1280	958	692	435	185	9402
1993-94	51	118	342	735	1167	1435	1412	1179	930	693	387	89	8538
1994-95	62	53	319	700	1174	1307	1287	882	934	777	538	238	8271
1995-96	102	25	334	701	969	1276	1364	1047	1018	692	299	147	7974
1996-97	26	78	366	762	992	1343	1512	1186	924	811	441	169	8610
1997-98	74	80	209	691	1119	1738	1527	1137	999	795	430	212	9011
1998-99	7	58	208	682	920	1276	1217	1018	851	784	482	206	7709
1999-00	30	69	339	667	962	1388	1257	1026	968	607	337	124	7774
2000-01	25	33	249	660	1206	1333	1550	1138	946	622	333	126	8221
2001-02	17	80	259	634	1025	1420	1488	1261	1039	545	424	83	8275
2002-03	12	90	283	704	1050	1425	1188	1105	958	697	385	197	8094
2003-04	3	52	306	540	990	1418	1414	1478	785	659	380	164	8189
2004-05	97	113	320	677	1045	1388	1269	1048	1012	665	371	172	8177
2005-06	21	94	233	586	970	1350	1343	1107	969	603	336	89	7701
2006-07	29	56	406	658	975	1408	1741	1176	850	665	403	129	8496
2007-08	7	18	232	635	1021	1625	1831	1396	988	715	488	184	9140
2008-	16	63	299	654	1004	1399							

WBAN : 23061

COOLING DEGREE DAYS (base 65°F) 2008 ALAMOSA (KALS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1979	0	0	0	0	0	0	21	13	0	0	0	0	34
1980	0	0	0	0	0	22	76	12	0	0	0	0	110
1981	0	0	0	0	0	35	47	19	0	0	0	0	101
1982	0	0	0	0	0	0	38	27	0	0	0	0	65
1983	0	0	0	0	0	4	43	30	1	0	0	0	78
1984	0	0	0	0	2	1	45	8	0	0	0	0	56
1985	0	0	0	0	0	9	47	9	0	0	0	0	65
1986	0	0	0	0	0	3	11	14	0	0	0	0	28
1987	0	0	0	0	0	0	39	22	0	0	0	0	61
1988	0	0	0	0	0	13	17	22	0	0	0	0	52
1989	0	0	0	0	0	6	52	6	0	0	0	0	64
1990	0	0	0	0	0	35	22	3	7	0	0	0	67
1991	0	0	0	0	0	12	33	8	0	0	0	0	53
1992	0	0	0	0	0	1	12	6	0	0	0	0	19
1993	0	0	0	0	0	6	6	4	0	0	0	0	16
1994	0	0	0	0	0	16	12	14	0	0	0	0	42
1995	0	0	0	0	0	0	19	23	4	0	0	0	46
1996	0	0	0	0	0	0	35	15	0	0	0	0	50
1997	0	0	0	0	0	0	5	17	0	0	0	0	22
1998	0	0	0	0	0	14	37	9	0	0	0	0	60
1999	0	0	0	0	0	2	28	3	0	0	0	0	33
2000	0	0	0	0	0	0	27	27	0	0	0	0	54
2001	0	0	0	0	0	10	53	14	0	0	0	0	77
2002	0	0	0	0	2	17	47	17	0	0	0	0	83
2003	0	0	0	0	0	1	112	37	0	0	0	0	150
2004	0	0	0	0	0	0	40	9	0	0	0	0	49
2005	0	0	0	0	0	6	69	20	0	0	0	0	95
2006	0	0	0	0	0	2	58	13	0	0	0	0	73
2007	0	0	0	0	0	8	55	37	0	0	0	0	100
2008	0	0	0	0	0	2	45	26	0	0	0	0	73

SNOWFALL (inches) 2008 ALAMOSA (KALS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0.0	0.0	0.0	1.1	5.3	6.8	5.0	2.1	6.3	8.3	2.3	0.0	37.2
1980-81	0.0	0.0	0.0	2.2	0.1	T	T	1.8	6.0	0.0	T	0.0	10.1
1981-82	T	0.0	0.0	T	5.4	4.9	1.2	6.9	2.9	1.4	2.1	0.0	24.8
1982-83	0.0	0.0	0.0	2.1	2.2	6.0	3.4	5.1	10.2	3.5	0.5	0.2	33.2
1983-84	0.0	0.0	0.0	0.0	8.1	11.2	1.4	2.8	10.6	2.8	T	0.0	36.9
1984-85	0.0	0.0	0.0	6.7	0.9	5.6	2.8	2.8	6.1	0.8	1.2	0.0	26.9
1985-86	0.0	0.0	0.0	6.0	9.7	6.7	0.5	1.0	3.5	4.5	2.1	0.0	34.0
1986-87	0.0	0.0	T	2.7	6.9	1.9	12.8	7.0	3.9	8.4	0.0	0.0	43.6
1987-88	0.0	0.0	0.0	0.0	6.8	7.5	6.0	2.9	3.4	0.7	0.0	0.0	27.3
1988-89	0.0	0.0	0.0	0.0	3.0	1.4	5.2	3.0	1.0	0.9	0.0	0.0	14.5
1989-90	0.0	0.0		T	T	2.2	13.0	2.5	3.3	9.2	4.8	0.0	
1990-91	0.0	0.0	0.0	0.2	6.4	9.9	1.4	4.6	3.2	1.4	0.2	T	27.3
1991-92	0.0	0.0	0.0	15.1	10.2	8.9	0.9	1.7	16.2	0.3	1.0	T	54.3
1992-93	0.0	0.0											
1993-94													
1994-95										0.0	0.0		
1995-96			0.0	0.0	1.3	1.7	0.9	0.3	3.3	5.1	0.0	0.0	
1996-97	0.0	0.0	0.0	11.5	2.1								
1997-98				1.3	5.6	4.1	T	0.7	5.1	8.6	0.0	0.0	
1998-99	0.0	0.0	0.0	1.8	2.3	0.3	1.7	T	2.8	7.2	5.9	0.0	22.0
1999-00	0.0	0.0	0.0	T	T	0.3	3.5	0.2	6.3	0.2	0.0	0.0	10.5
2000-01	0.0	0.0	0.0	0.0	0.0	1.8	5.5	6.6	1.4	1.4	6.4	0.0	23.1
2001-02	0.0	0.0	0.0	T	2.8	2.6	7.4	4.3	0.9	0.0	T	0.0	18.0
2002-03	0.0	0.0	0.0	T	0.6	3.4	0.1	5.7	3.9	0.4	0.0	0.0	14.1
2003-04	0.0	0.0	0.0	0.0	3.4	4.3	1.5	14.0	1.0	3.2	0.1	0.0	27.5
2004-05	0.0	0.0	0.0	0.0	3.6	0.7	13.9	3.6	7.4	3.7	T	0.0	32.9
2005-06	0.0	0.0	0.0	1.0	0.5	0.6	4.2	0.3	6.1	2.2	0.0	0.0	14.9
2006-07	0.0	0.0	0.0	0.4	1.6	11.7	6.7	1.9	4.7	8.9	T	0.0	35.9
2007-08	0.0	0.0	0.0	T	3.9	13.2	5.0	10.0	2.3	3.3	T	0.0	37.7
2008-	0.0	0.0	0.0	1.4	4.0	6.4							
POR= 58 YRS	T	0.0	0.2	2.8	3.9	5.3	4.4	4.2	5.5	4.0	1.5	0.1	31.9

WBAN : 23061

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> <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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2008 ALAMOSA COLORADO (KALS)

Alamosa is located in the south-central part of Colorado, near the center of the San Luis Valley which lies in a broad depression between mountain ranges converging to the north. The valley is the first of a series of basins along the Rio Grande River. The mountain ranges to the east reach altitudes over 14,000 feet and those to the west are between 13,000 and 14,000 feet. The length of the valley from north to south is over 80 miles, and its greatest width is about 50 miles. The valley floor ranges in altitude from 7,500 to near 8,000 feet and has a remarkably flat surface, except for a range of low hills across the southern portion. From the lowest areas which lie along an axis near the eastern border, the valley floor rises to the foothills, steeply to the east and more gently to the west.

The climate of the San Luis Valley is marked by cold winters and moderate summers, light precipitation, and much sunshine. At Alamosa about 80 percent of the annual precipitation occurs from April to October, most of it in the form of scattered light showers and thunderstorms that develop over the mountains and move into the valley during the afternoon. More than half of these thunderstorms occur during July and August. Hail frequently falls in some parts of the valley during their movement. Winter snows occur mainly in frequent light falls, with occasional falls as early as September or as late as May. A good snow cover will remain on the ground for several weeks during the coldest months.

All agriculture in the valley is dependent on irrigation, using water supplied by the more abundant precipitation in the surrounding mountains. Summer grazing of cattle and sheep on nearby mountain ranges and smaller valleys is extensive. A wide variety of vegetables, grains and feed crops are grown locally, with potatoes being the main commercial crop.

Summer is characterized by frequent days with maximum temperatures in the middle 80s and minimum temperatures in the low 40s. Relative humidity ranges from about 76 percent in the early mornings to around 40 percent during the afternoons. Winds are light during the coldest weather, but are strong with occasional blowing dust during the spring and early summer months.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 8 and the average last occurrence in the spring is June 8.

Station Location

ALAMOSA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		ELEVATION ABOVE										REMARKS
				NORTH	WEST	SEA LEVEL	GROUND								AUTOMATIC OBSERVING EQUIPMENT *	
						GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE	HYGROTHERMOMETER		
* NOTE:																
AIRPORT																
Alamosa Airport	1/14/45	10/20/54	2.5mi..SE	37° 26'	105° 51'	7534	33	5	5			4	3			
Alamosa Airport	10/20/54	11/17/77	0.5 mi.W	37° 27'	105° 52'	7538 a7536	25 b33	5 c5	5 c5			4 c4	4 c4		a. Effective 7/1/56. b. Effective 10/20/59. c. Minor relocation 5/14/76.	
Alamosa Airport	11/17/77	5/1/80	450 ft..S	37° 27'	105° 52'	7536	30	5	5			4	4			
+ Bergman Field (Name Change 5/80)	5/1/80	09/01/92		37° 27'	105° 52'											
San Luis Valley Regional Airport	09/01/92	Present	NA	37° 26'	105° 52'	d7533								s	ASOS Commissioned 09/01/92 d. Ground elevation.	

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* NOTES: For earlier station history see previous edition.