

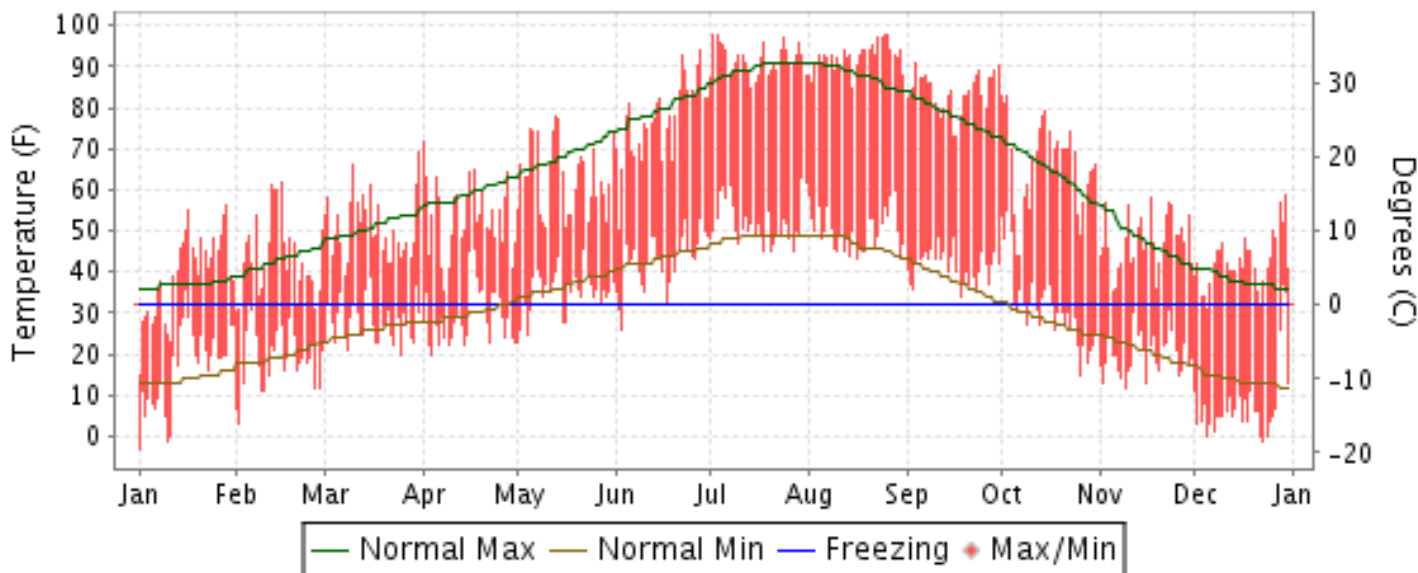


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

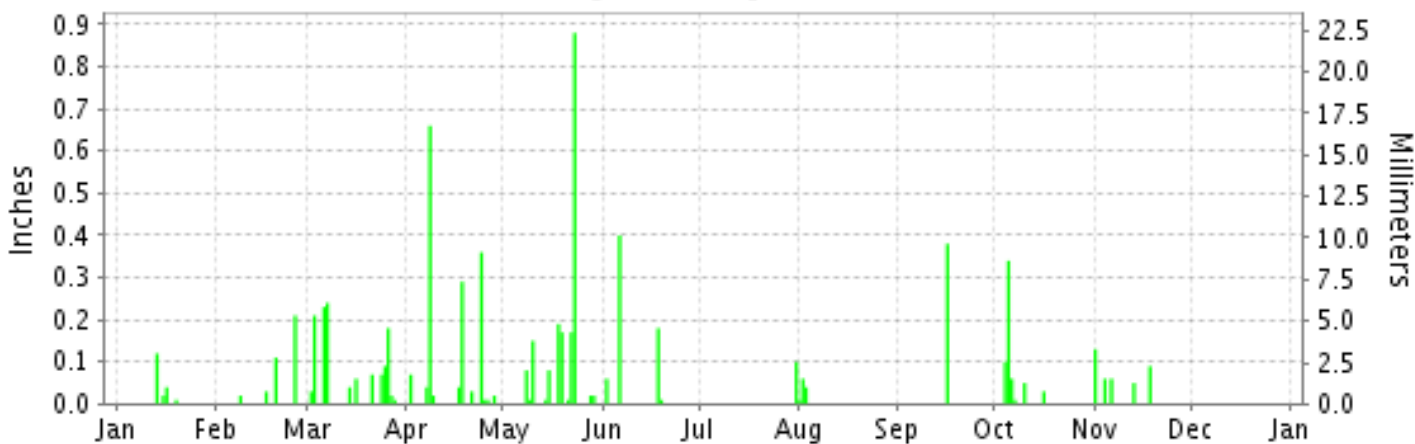
ISSN 0198-3261

## ELKO, NEVADA (KEKO)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## ELKO (KEKO)

LATITUDE: 40° 49'N      LONGITUDE: -115° 47'W      ELEVATION (FT): GRND: 5030 BARO: 5079      TIME ZONE: PACIFIC (UTC -8)      WBAN: 24121

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	39.3	43.6	50.8	53.5	63.0	77.2	91.6	92.4	83.7	66.2	47.4	42.5	62.6	
	HIGHEST DAILY MAXIMUM	56	62	69	72	78	94	98	98	91	83	58	59	98	
	DATE OF OCCURRENCE	29	15	31	01	13	28	03+	26+	04	03+	17	30	AUG 26+	
	MEAN DAILY MINIMUM	16.8	19.1	27.7	29.0	35.1	42.8	52.0	50.1	41.6	31.5	19.9	8.0	31.1	
	LOWEST DAILY MINIMUM	-3	3	20	20	23	26	45	43	34	15	12	-1	-3	
	DATE OF OCCURRENCE	01	02	25	04	01	03	27+	30+	18	26	09	23	JAN 01	
	AVERAGE DRY BULB	28.1	31.4	39.3	41.3	49.1	60.0	71.8	71.3	62.7	48.9	33.7	25.3	46.9	
	MEAN WET BULB	24.0	25.8	33.6	34.7	40.7	47.4	52.9	51.5	47.2	39.2	28.0	19.5	37.0	
	MEAN DEW POINT	18.5	16.9	25.9	26.2	31.2	34.4	34.5	31.5	31.8	29.0	19.5	9.3	25.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	3	20	26	2	0	0	0	0	51
	MAXIMUM <= 32°	9	4	0	0	0	0	0	0	0	0	0	2	15	
	MINIMUM <= 32°	30	27	26	21	8	2	0	0	0	19	30	29	192	
MINIMUM <= 0°	3	0	0	0	0	0	0	0	0	0	0	4	7		
H/C	HEATING DEGREE DAYS	1138	932	790	706	487	170	0	0	72	502	934	1223	6954	
	COOLING DEGREE DAYS	0	0	0	0	0	27	220	204	9	8	0	0	468	
RH	MEAN (PERCENT)	71	60	63	60	56	44	30	28	37	54	62	56	52	
	HOUR 04 LST	81	69	80	78	79	73	54	53	61	74	75	71	71	
	HOUR 10 LST	61	47	52	46	39	27	18	15	21	37	50	44	38	
	HOUR 16 LST	63	46	45	41	39	23	13	13	20	38	50	44	36	
	HOUR 22 LST	79	69	72	73	68	57	39	33	47	66	69	65	61	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	3	1	1	1	0	0	0	0	0	1	0	7	
	THUNDERSTORMS	0	0	1	1	1	2	2	0	0	0	0	0	7	
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.)	25.07	24.92	24.88	24.86	24.84	24.87	24.89	24.94	25.02	24.99	24.96	25.09	24.94	
	MEAN SEA-LEVEL PRESS. (IN.)	30.29	30.09	29.99	29.96	29.88	29.86	29.83	29.88	30.03	30.08	30.12	30.34	30.03	
WINDS	RESULTANT SPEED (MPH)	0.6	3.8	4.4	4.7	3.1	2.5	2.3	1.5	0.3	1.4	1.5	0.3	2.0	
	RES. DIR. (TENS OF DEGS.)	01	24	23	26	24	26	24	24	12	22	22	28	25	
	MEAN SPEED (MPH)	4.1	6.7	6.9	7.2	6.8	6.5	5.8	4.9	4.0	4.7	5.3	4.3	5.6	
	PREVAIL.DIR.(TENS OF DEGS.)	07	21	20	25	23	24	21	07	08	08	07	08	07	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	25	37	40	38	41	32	36	33	36	36	28	39	41	
	DIR. (TENS OF DEGS.)	28	34	26	27	27	28	27	22	06	17	17	24	27	
	DATE OF OCCURRENCE	17	07	10	25	15	01	31	28	08	04	03	30	MAY 15	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	30	47	48	48	59	41	43	52	52	48	38	49	59	
DIR. (TENS OF DEGS.)	28	34	24	27	20	20	16	25	04	16	18	24	20		
DATE OF OCCURRENCE	17	07	16	25	25	22	30	24	08	04	23	30	MAY 25		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.19	0.37	1.25	1.55	1.79	0.65	0.10	0.11	0.38	0.59	0.39	T		
	GREATEST 24-HOUR (IN.)	0.12	0.21	0.36	0.68	0.88	0.40	0.10	0.06	0.38	0.35	0.13	T		
	DATE OF OCCURRENCE	13	25	06-07	08-09	23	06	31	02	16	04-05	01	04		
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	4	12	11	12	4	1	3	1	6	5	0		
PRECIPITATION 0.10	1	2	4	3	5	2	1	0	1	2	1	0			
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0			
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.3	4.1	5.9	9.4	0.3	T	0.0	0.0	0.0	0.3	2.7	T	23.0	
	GREATEST 24-HOUR (IN.)	0.3	2.3	2.1	8.4	0.3	T	0.0	0.0	0.0	0.3	1.4	T	8.4	
	DATE OF OCCURRENCE	13	25	25	08	15	02	0	0	0	06	18	04	APR 08	
	MAXIMUM SNOW DEPTH (IN.)	3	2	2	5	T	0	0	0	0	0	1	0	5	
	DATE OF OCCURRENCE	01	26	25	09	16						19		APR 09	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	2	2	1	0	0	0	0	0	0	1	0	6		

# NORMALS, MEANS, AND EXTREMES ELKO (KEKO)

**LATITUDE:** 40° 49'N      **LONGITUDE:** -115° 47'W      **ELEVATION (FT):** GRND: 5030 BARO: 5079      **TIME ZONE:** PACIFIC (UTC -8)      **WBAN: 24121**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	37.1	42.9	51.2	59.3	68.6	79.9	89.6	88.1	78.2	65.0	48.1	38.2	62.2
	MEAN DAILY MAXIMUM	118	36.8	40.7	51.0	59.1	69.5	78.7	91.1	88.3	77.6	65.7	49.4	38.8	62.2
	HIGHEST DAILY MAXIMUM	81	65	70	78	86	97	104	107	107	99	92	78	65	107
	YEAR OF OCCURRENCE		2003	1986	2004	1992	2003	1981	1981	1978	1950	2010	1980	1995	JUL 1981
	MEAN OF EXTREME MAXS.	119	50.7	56.4	66.9	76.2	85.3	93.6	99.1	97.3	91.5	81.4	66.3	52.6	76.4
	NORMAL DAILY MINIMUM	30	14.1	19.7	25.9	29.9	36.8	43.5	48.6	47.0	38.1	28.3	20.9	13.8	30.6
	MEAN DAILY MINIMUM	118	11.0	16.7	23.6	28.7	35.6	41.7	48.2	45.4	36.1	27.8	20.0	13.0	29.0
	LOWEST DAILY MINIMUM	81	-43	-37	-9	-2	10	23	30	20	9	1	-14	-38	-43
	YEAR OF OCCURRENCE		1937	1933	1952	1936	1965	1976	1995	1992	1934	1996	2010	1932	JAN 1937
	MEAN OF EXTREME MINS.	119	-8.5	-1.4	10.5	17.3	23.2	31.3	38.6	35.4	24.6	14.4	3.6	-5.3	15.3
	NORMAL DRY BULB	30	25.6	31.3	38.6	44.6	52.7	61.7	69.1	67.6	58.2	46.7	34.5	26.0	46.4
	MEAN DRY BULB	118	23.9	28.7	37.3	43.9	52.6	60.3	69.6	66.9	56.9	46.8	34.7	25.9	45.6
	MEAN WET BULB	28	25.1	27.8	33.1	36.7	41.4	45.6	48.5	46.3	41.6	36.9	30.6	26.0	36.6
	MEAN DEW POINT	28	20.9	23.4	27.8	30.3	34.9	37.7	40.2	38.0	33.8	29.0	25.7	21.5	30.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.3	5.2	17.8	14.3	3.1	0.0	0.0	0.0	40.7
	MAXIMUM <= 32	30	8.8	4.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1	2.1	7.5	23.6
MINIMUM <= 32	30	29.3	26.4	25.4	19.5	7.6	1.3	0.1	0.4	7.5	21.7	26.3	29.0	194.5	
MINIMUM <= 0	30	4.8	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.5	11.0	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1222	943	820	612	383	161	53	57	237	569	916	1208	7181
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	2	62	181	135	31	1	0	0	412
<b>RH</b>	NORMAL (PERCENT)	30	74	71	63	53	50	42	34	35	41	51	67	73	55
	HOURLY 04 LST	30	79	79	78	73	72	66	56	55	61	68	77	79	70
	HOURLY 10 LST	30	72	66	55	42	38	31	25	25	32	42	61	70	47
	HOURLY 16 LST	30	59	52	43	33	30	24	19	19	22	29	48	57	36
	HOURLY 22 LST	30	78	76	70	60	56	47	36	37	46	57	72	77	59
<b>S</b>	PERCENT POSSIBLE SUNSHINE														
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	45	2.0	1.2	0.9	0.7	0.3	0.1	0.0	0.1	0.1	0.4	0.7	1.9	8.4
	THUNDERSTORMS	61	0.1	0.3	0.3	0.9	2.6	3.1	4.1	3.6	1.7	0.5	0.2	0.1	17.5
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	43	5.4	5.3	5.4	5.3	4.8	3.5	2.7	2.7	2.6	3.4	4.8	5.0	4.2
	MIDNIGHT-MIDNIGHT (OKTAS)	5	4.3	4.3	3.4	3.8	3.3	2.8	2.0	2.6	2.1	2.0	4.2	4.3	3.3
	MEAN NO. DAYS WITH: CLEAR	56	6.7	6.3	6.3	6.3	8.1	12.9	17.0	17.5	18.0	13.9	8.3	7.7	129.0
	PARTLY CLOUDY	56	7.6	7.4	8.1	9.1	10.2	9.6	9.4	8.7	6.6	7.9	6.8	6.8	98.2
	CLOUDY	56	16.7	14.6	16.6	14.6	12.6	7.5	3.9	4.2	4.9	8.7	14.3	16.0	134.6
<b>PR</b>	MEAN STATION PRESSURE(IN)	28	25.01	24.97	24.92	24.90	24.90	24.92	24.96	24.96	24.97	24.98	24.99	24.99	24.96
	MEAN SEA-LEVEL PRES. (IN)	28	30.20	30.11	30.02	29.95	29.92	29.91	29.91	29.92	29.97	30.05	30.12	30.16	30.02
<b>WINDS</b>	MEAN SPEED (MPH)	28	4.8	5.4	6.2	6.7	6.5	6.3	6.0	5.7	5.3	5.0	5.1	4.9	5.7
	PREVAIL.DIR(TENS OF DEGS)	25	07	25	25	25	24	24	23	25	07	25	25	25	25
	MAXIMUM 2-MINUTE: SPEED (MPH)	10	40	43	47	43	43	43	45	48	49	39	38	45	49
	DIR. (TENS OF DEGS)		17	28	25	23	26	20	23	23	26	23	29	27	26
	YEAR OF OCCURRENCE		2008	2006	2010	2010	2004	2005	2002	2010	2006	2010	2009	2008	SEP 2006
	MAXIMUM 3-SECOND SPEED (MPH)	10	54	48	67	61	59	63	60	70	55	49	51	59	70
	DIR. (TENS OF DEGS)		16	28	25	20	20	29	22	23	27	23	23	27	23
YEAR OF OCCURRENCE		2008	2006	2010	2008	2011	2008	2002	2010	2006	2010	2010	2008	AUG 2010	
<b>PRECIPITATION</b>	NORMAL (IN)	30	1.14	0.88	0.98	0.81	1.08	0.67	0.30	0.36	0.68	0.71	1.05	0.93	9.59
	MAXIMUM MONTHLY (IN)	81	3.35	2.93	2.39	2.17	4.09	2.94	2.35	4.61	3.22	2.76	2.77	4.21	4.61
	YEAR OF OCCURRENCE		1956	1932	1989	1963	1971	2009	1950	1970	1978	1938	1942	1983	AUG 1970
	MINIMUM MONTHLY (IN)	81	0.04	0.06	0.04	0.02	T	T	0.00	T	T	T	T	T	0.00
	YEAR OF OCCURRENCE		1961	1988	1988	1992	1974	1994	1963	2006	1951	1995	1959	2011	JUL 1963
	MAXIMUM IN 24 HOURS (IN)	81	1.27	0.89	1.22	1.10	1.73	1.85	1.28	4.13	2.32	1.64	1.31	1.62	4.13
	YEAR OF OCCURRENCE		1951	1936	2006	1943	1971	1968	2001	1970	1978	2010	1950	1950	AUG 1970
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.2	8.3	9.4	7.6	8.5	5.0	3.5	3.6	4.8	4.9	7.6	8.1	80.5
PRECIPITATION >= 1.00	30	*	0.0	0.0	0.0	*	0.0	0.0	*	*	0.0	0.0	0.0	0.0	
<b>SNOWFALL</b>	NORMAL (IN)	30	9.4	6.2	4.4	2.6	1.2	0.*	0.0	0.0	0.1	0.8	5.0	7.4	37.1
	MAXIMUM MONTHLY (IN)	80	45.7	26.1	23.2	16.6	11.3	T	T	0.0	2.0	5.6	16.8	33.2	45.7
	YEAR OF OCCURRENCE		1996	1932	1967	1999	1971	2011	1995	2006	1982	1984	1985	1983	JAN 1996
	MAXIMUM IN 24 HOURS (IN)	63	18.4	9.1	13.8	10.0	8.6	T	T	T	2.0	5.2	9.0	9.3	18.4
	YEAR OF OCCURRENCE		1996	1949	1967	1975	1971	2011	1995	1993	1982	1963	1965	1992	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	57	24	21	12	9	8	0	0	0	0	4	17	12	24
	YEAR OF OCCURRENCE		1948	1949	1967	1975	1975					1984	1963	1968	JAN 1948
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.2	2.0	1.8	0.9	0.3	0.0	0.0	0.0	0.0	0.3	2.2	2.7	13.4	

**PRECIPITATION (inches) 2011 ELKO (KEKO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	0.82	0.65	1.94	0.50	1.04	0.54	0.69	1.24	2.55	1.11	1.78	0.86	13.72
1983	1.73	1.34	1.91	1.28	0.60	0.47	0.01	1.25	1.57	1.21	2.76	4.21	18.34
1984	0.57	0.80	1.25	1.00	0.24	1.29	1.04	0.46	0.11	1.75	1.40	0.45	10.36
1985	0.54	0.15	1.09	0.23	0.60	0.17	0.25	0.02	1.17	0.16	2.14	0.78	7.30
1986	0.18	1.86	0.52	1.17	0.75	0.39	0.12	0.02	0.81	0.04	0.13	0.09	6.08
1987	0.54	0.68	1.13	0.26	1.80	0.69	0.14	0.01	0.09	0.55	1.97	0.76	8.62
1988	1.27	0.06	0.04	0.46	0.91	0.58	0.08	0.26	0.11	T	1.94	1.01	6.72
1989	0.46	0.93	2.39	0.28	0.36	0.50	0.18	0.52	0.69	0.27	0.79	0.51	7.88
1990	0.97	0.78	1.07	1.51	0.96	0.97	0.19	0.56	0.15	0.07	0.98	1.22	9.43
1991	0.49	0.46	0.62	0.86	1.71	0.06	0.20	0.25	0.58	1.29	1.29	0.04	7.85
1992	0.17	0.75	1.64	0.02	0.40	0.67	0.27	0.17	0.01	0.54	1.03	1.89	7.56
1993	1.98	0.93	0.68	0.24	0.44	1.43	0.36	0.09	0.41	0.76	0.07	0.22	7.61
1994	0.32	1.11	0.15	1.11	1.68	T	0.22	0.11	0.79	0.52	1.61	0.70	8.32
1995	1.56	0.33	2.04	1.15	2.35	1.66	0.24	0.02	0.31	T	0.39	1.41	11.46
1996	3.28	1.45	0.88	0.78	2.23	0.13	.73	T	.20	1.10	1.36	3.10	15.24
1997	2.44	0.21	0.21	0.93	0.22	1.69	1.08	1.37	0.63	0.77	1.23	0.21	10.99
1998	2.34	1.41	1.22	0.29	1.91	0.89	0.24	T	1.92	0.98	0.77	0.46	12.43
1999	1.56	0.74	0.28	1.75	0.83	1.18	T	0.19	0.02	0.52	0.41	0.07	7.55
2000	1.48	2.32	0.77	0.69	0.73	0.08	0.04	0.25	0.03	1.73	0.50	0.33	8.95
2001	0.53	0.80	1.00	1.10	0.03	0.03	1.46	0.02	0.26	0.03	1.62	1.61	8.49
2002	0.54	0.47	0.62	1.60	0.87	0.43	0.03	0.01	1.07	0.08	1.21	0.55	7.48
2003	0.95	0.55	0.48	1.66	1.68	0.01	0.92	1.69	0.20	0.05	0.71	1.96	10.86
2004	0.69	0.91	0.30	1.39	0.96	0.28	0.16	1.17	1.30	1.95	0.87	1.19	11.17
2005	2.12	0.84	1.37	1.56	1.87	0.74	0.66	0.07	0.46	1.61	1.27	2.81	15.38
2006	1.53	1.21	2.31	2.08	0.19	0.40	1.11	T	0.09	0.75	1.05	0.68	11.40
2007	0.27	1.05	0.48	0.61	0.17	0.37	0.08	0.14	0.17	1.05	0.32	1.02	5.73
2008	1.75	0.79	0.39	0.15	1.13	0.57	0.13	0.25	0.01	0.43	1.54	0.91	8.05
2009	1.28	0.59	0.78	1.83	0.47	2.94	0.20	0.68	0.27	0.49	0.01	1.68	11.22
2010	0.63	0.58	1.04	1.89	0.73	0.10	0.23	0.01	0.99	1.87	1.55	2.08	11.70
2011	0.19	0.37	1.25	1.55	1.79	0.65	0.10	0.11	0.38	0.59	0.39	T	7.37
POR= 117 YRS	1.21	0.93	0.92	0.85	1.09	0.76	0.40	0.40	0.46	0.74	1.01	1.10	9.87

WBAN : 24121

**AVERAGE TEMPERATURE (°F) 2011 ELKO (KEKO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	23.2	29.6	37.8	42.3	52.5	61.6	69.1	70.6	58.6	45.4	34.1	28.0	46.1
1983	30.4	31.8	41.8	42.7	52.6	62.1	68.7	72.1	62.7	50.8	36.5	28.7	48.4
1984	17.1	23.8	36.0	41.9	54.7	59.7	71.9	70.7	60.7	43.3	37.7	20.9	44.9
1985	21.8	26.8	35.1	48.0	54.0	64.7	75.9	65.9	53.7	46.2	30.1	23.1	45.4
1986	32.3	37.6	43.8	45.0	52.3	65.7	67.0	70.5	53.0	46.0	34.0	24.9	47.7
1987	21.5	31.1	37.5	49.5	55.6	63.9	66.8	66.6	59.6	50.2	35.7	25.7	47.0
1988	20.3	29.3	37.2	46.5	51.5	65.2	72.0	67.7	56.8	53.0	33.5	21.7	46.2
1989	11.6	22.3	41.5	49.0	52.3	61.5	70.8	65.5	57.8	46.1	33.4	27.8	45.0
1990	27.8	26.7	40.9	50.0	50.1	61.8	70.5	67.0	63.9	45.8	33.6	14.5	46.1
1991	22.5	37.4	36.7	41.2	48.1	59.0	70.4	68.7	59.7	46.5	35.5	27.2	46.1
1992	24.4	35.6	41.1	48.1	56.5	60.7	65.1	66.7	56.9	47.6	28.2	17.2	45.7
1993	15.5	20.5	36.4	42.9	55.7	56.0	59.7	62.0	55.6	45.6	26.4	25.4	41.8
1994	28.5	26.5	40.1	44.7	54.1	60.6	68.5	67.8	57.6	43.2	25.4	28.1	45.4
1995	32.0	37.6	37.5	42.5	49.6	56.3	64.5	65.7	56.8	43.2	38.1	30.2	46.2
1996	28.4	25.2	38.7	45.3	51.9	62.6	69.2	64.3	53.4	43.3	34.8	28.5	45.5
1997	27.7	29.1	40.3	42.1	56.0	60.6	65.0	66.3	59.0	43.5	36.3	23.8	45.8
1998	31.6	31.7	37.6	42.8	49.5	56.7	69.4	67.0	59.6	43.1	36.8	24.3	45.8
1999	29.4	31.9	37.8	40.3	49.7	59.2	66.0	64.9	55.8	45.6	39.4	25.5	45.5
2000	30.0	36.0	37.3	48.4	53.6	61.7	66.1	67.3	55.4	43.7	27.5	26.5	46.1
2001	20.5	27.3	41.1	44.8	58.4	64.3	71.1	72.1	62.4	49.2	36.8	23.7	47.6
2002	23.2	24.3	34.5	46.3	51.9	63.8	73.6	66.1	59.5	43.3	35.7	31.6	46.2
2003	36.3	30.5	39.5	43.2	53.6	64.1	74.3	71.0	59.8	52.1	32.5	30.2	48.9
2004	16.6	24.4	43.5	46.9	53.2	64.0	71.3	67.2	57.3	46.9	34.2	29.3	46.2
2005	20.5	23.7	37.3	44.6	54.1	59.0	73.1	69.1	56.3	47.6	37.3	29.1	46.0
2006	31.5	31.0	34.5	47.3	57.1	66.6	75.4	67.8	58.3	45.7	34.9	25.1	47.9
2007	16.2	33.0	42.8	46.5	56.1	65.1	75.8	70.5	58.8	46.2	35.8	25.5	47.7
2008	17.4	26.2	36.5	40.9	52.8	61.7	71.5	70.3	60.4	47.6	41.6	24.3	45.9
2009	28.1	32.1	37.9	44.2	57.3	61.8	71.6	67.5	63.7	43.6	34.6	16.0	46.5
2010	25.9	32.3	37.3	42.8	46.9	62.6	71.8	67.8	60.5	50.4	32.6	30.3	46.8
2011	28.1	31.4	39.3	41.3	49.1	60.0	71.8	71.3	62.7	48.9	33.7	25.3	46.9
POR= 118 YRS	23.9	28.7	37.3	43.9	52.6	60.3	69.6	66.9	56.9	46.8	34.7	25.9	45.6

**HEATING DEGREE DAYS (base 65°F) 2011 ELKO (KEKO)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	32	0	225	598	925	1143	1066	924	713	661	390	114	6791
1983-84	29	0	105	434	847	1119	1480	1187	894	686	318	201	7300
1984-85	0	10	163	664	811	1360	1331	1060	921	505	335	69	7229
1985-86	0	42	338	573	1042	1294	1002	759	650	596	399	49	6744
1986-87	18	5	370	583	924	1235	1341	943	844	459	286		
1987-88	50	32	175	451	872	1211	1381	1028	856	550	420	102	7128
1988-89	0	16	255	365	938	1338	1647	1194	723	475	387	111	7449
1989-90	4	59	214	578	940	1147	1147	1067	742	445	457	135	6935
1990-91	12	50	86	587	933	1559	1310	767	869	710	518	176	7577
1991-92	2	10	178	566	879	1164	1250	845	734	503	256	152	6539
1992-93	51	89	242	534	1100	1477	1528	1239	879	658	283	272	8352
1993-94	168	113	279	591	1153	1222	1125	1075	764	603	329	156	7578
1994-95	19	18	211	670	1180	1137	1017	760	845	668	471	257	7253
1995-96	55	47	257	666	803	1072	1125	1149	808	583	401	93	7059
1996-97	7	71	342	664	900	1125	1149	996	759	682	275	134	7104
1997-98	49	16	195	657	854	1268	1030	925	845	657	476	243	7215
1998-99	6	33	184	673	837	1253	1096	920	834	731	469	184	7220
1999-00	18	58	271	595	765	1217	1075	838	853	490	347	108	6635
2000-01	24	25	285	653	1116	1187	1372	1046	737	601	218	89	7353
2001-02	4	0	110	484	840	1272	1290	1129	936	552	409	108	7134
2002-03	0	43	173	663	874	1028	886	957	785	647	366	76	6498
2003-04	1	0	161	397	969	1074	1494	1171	659	537	362	72	6897
2004-05	0	37	231	553	919	1098	1373	1149	854	606	330	196	7346
2005-06	0	16	263	528	825	1106	1030	945	937	525	262	37	6474
2006-07	0	15	227	591	893	1230	1503	890	682	548	278	74	6931
2007-08	0	0	213	577	868	1218	1468	1115	877	717	380	148	7581
2008-09	0	0	141	534	694	1255	1136	915	831	615	239	130	6490
2009-10	7	47	82	655	905	1513	1205	912	853	657	554	116	7506
2010-11	11	44	142	450	966	1069	1138	932	790	706	487	170	6905
2011-	0	0	72	502	934	1223							

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**COOLING DEGREE DAYS (base 65°F) 2011 ELKO (KEKO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	0	0	36	165	181	39	0	0	0	421
1983	0	0	0	0	11	33	151	228	40	0	0	0	463
1984	0	0	0	0	3	48	223	197	42	0	0	0	513
1985	0	0	0	0	0	66	342	77	7	0	0	0	492
1986	0	0	0	0	12	75	89	186	16	0	0	0	378
1987	0	0	0	0	3		113	89	20	0	0	0	
1988	0	0	0	0	6	113	224	105	19	0	0	0	467
1989	0	0	0	0	0	13	188	78	4	0	0	0	283
1990	0	0	0	0	0	47	193	121	61	0	0	0	422
1991	0	0	0	0	0	2	176	131	26	0	0	0	335
1992	0	0	0	0	0	28	65	152	7	0	0	0	252
1993	0	0	0	0	1	9	10	26	5	0	0	0	51
1994	0	0	0	0	0	28	135	109	0	0	0	0	272
1995	0	0	0	0	0	3	45	77	17	0	0	0	142
1996	0	0	0	0	1	29	143	55	1	0	0	0	229
1997	0	0	0	0	3	7	57	65	22	0	0	0	154
1998	0	0	0	0	0	1	149	102	27	0	0	0	279
1999	0	0	0	0	0	17	57	61	1	0	0	0	136
2000	0	0	0	0	3	18	63	104	3	0	0	0	191
2001	0	0	0	0	21	76	201	227	38	1	0	0	564
2002	0	0	0	0	10	76	274	84	17	0	0	0	461
2003	0	0	0	0	23	54	295	197	13	3	0	0	585
2004	0	0	0	0	0	48	204	111	7	0	0	0	370
2005	0	0	0	0	0	23	259	149	10	0	0	0	441
2006	0	0	0	0	21	92	327	113	34	0	0	0	587
2007	0	0	0	0	5	86	341	178	34	0	0	0	644
2008	0	0	0	0	7	57	207	175	9	0	0	0	455
2009	0	0	0	0	6	39	217	134	51	0	0	0	447
2010	0	0	0	0	0	51	227	136	11	5	0	0	430
2011	0	0	0	0	0	27	220	204	9	8	0	0	468

**SNOWFALL (inches) 2011 ELKO (KEKO)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	2.0	T	8.1	6.6	16.5	10.6	9.6	1.9	0.2	0.0	55.5
1983-84	0.0	0.0	0.0	0.0	13.4	33.2	6.6	5.8	5.1	5.9	T	0.0	70.0
1984-85	0.0	0.0	0.0	5.6	5.4	4.9	5.6	2.0	7.7	0.4	0.0	0.0	31.6
1985-86	0.0	0.0	0.0	0.7	16.8	5.1	0.8	2.0	1.9	1.4	0.1	0.0	28.8
1986-87	0.0	0.0	T	0.0	1.1	1.0	6.9	5.7	3.1	T	0.0	0.0	17.8
1987-88	0.0	0.0	0.0	0.0	0.3	6.1	14.5	0.2	1.0	T	3.7	0.0	25.8
1988-89	0.0	0.0	0.0	0.0	11.3	16.1	11.0	9.6	4.6	T	0.0	0.0	52.6
1989-90	0.0	0.0	0.0	0.1	4.3	0.0	6.9	9.4	3.5	T	2.1	0.0	26.3
1990-91	T	T	0.0	0.0	3.2	12.7	2.1	0.7	5.0	1.5	2.0	0.0	27.2
1991-92	0.0	0.0	0.0	2.9	5.9	0.7	2.4	3.2	1.8	T	0.0	0.0	16.9
1992-93	0.0	0.0	0.0	0.0	4.5	19.9	23.5	15.9	1.2	0.6	T	0.0	65.6
1993-94	0.0	T	0.0	0.0	1.4	0.9	5.0	13.2	0.1	1.4	T	0.0	22.0
1994-95	0.0	0.0	0.0	T	15.4	4.2	9.9	3.3	7.5	5.7	0.2	T	46.2
1995-96	T	0.0	0.0	0.0	0.8	2.9	45.7	11.6	6.5	0.9	0.3	0.0	68.7
1996-97	0.0	0.0	0.0	2.1	6.0	27.7	15.6	2.3	3.3	2.1	0.3	0.0	59.4
1997-98	0.0	0.0	0.0	T	1.1	3.2	5.5	11.0	10.5	0.6	0.2	0.0	32.1
1998-99	0.0	0.0	0.0	0.0	2.3	6.9	8.8	4.2	5.4	16.6	1.1	0.0	45.3
1999-00	0.0	T	0.0	0.0	0.7	1.2	5.1	12.3	8.2	T	T	0.0	27.5
2000-01	0.0	0.0	0.0	0.9	5.0	4.8	8.2	9.0	0.9	4.6	0.0	T	33.4
2001-02	0.0	0.0	0.0	0.0	9.4	20.9	9.1	1.2	2.5	3.8	1.5	0.0	48.4
2002-03	0.0	0.0	0.0	T	0.5	5.3	0.2	2.9	0.2	6.3	0.0	0.0	15.4
2003-04	0.0	0.0	0.0	0.5	2.2	20.8	13.4	11.7	0.5	3.3	T	0.0	52.4
2004-05	0.0	0.0	T	1.1	6.0	15.1	25.6	9.1	3.5	2.5	0.0	0.0	62.9
2005-06	0.0	0.0	0.0	0.0	7.8	5.8	5.6	3.5	20.0	4.7	0.0	T	47.4
2006-07	0.0	0.0	0.0	T	2.8	7.3	4.5	7.5	3.4	0.1	T	0.0	25.6
2007-08	0.0	0.0	T	1.1	0.1	8.2	28.0	11.0	2.8	1.2	0.0	0.0	52.4
2008-09	0.0	0.0	0.0	T	0.1	12.3	5.0	7.8	6.5	8.5	0.0	T	40.2
2009-10	0.0	0.0	0.0	1.7	0.1	20.4	6.5	5.4	9.3	14.6	0.7	0.0	58.7
2010-11	0.0	0.0	0.0	0.1	13.3	12.7	0.3	4.1	5.9	9.4	0.3	T	46.1
2011-	0.0	0.0	0.0	0.3	2.7	T							
POR= 96 YRS	T	T	T	0.8	3.9	8.3	9.9	6.6	5.6	2.7	0.7	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. 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: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> 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 ELKO NEVADA (KEKO)

Elko is located along the main east-west transportation corridor through the Great Basin, a massive area which includes most of Nevada and parts of California, Oregon, Idaho and Utah. All streams and rivers in this region flow into salt lakes or dry lake beds, from which no water leaves except through seepage and evaporation. On a more local scale, Elko is situated in the valley of the Humboldt River, one of the longest rivers in the Great Basin. The elevation at Elko Regional Airport, which serves as the official weather station in Elko and is located just southwest of downtown, is 5,074 feet.

To the immediate southeast of Elko are the Elko Hills, a range of large hills and small mountains. This range reaches a peak elevation of 7,500 feet atop Elko Mountain, located 7 miles east-northeast of downtown Elko. To the immediate northwest of Elko is the Adobe Range, another range of large hills and small mountains with peaks of similar elevation. Approximately 20 miles southeast of Elko, the much more prominent Ruby Mountains rise high above the surrounding valleys and reach a maximum elevation of 11,437 feet atop Ruby Dome.

The climate of Elko is most simply described as being a high desert type. High temperatures are hot in the summer, with values frequently exceeding 90 degrees; however, they are much colder in the winter with readings often staying below 40 degrees. Lows in the summer are quite cool, with readings commonly in the 40s; in the winter they frequently fall into the single digits. Individual days often have large ranges in temperature, with 30 degree diurnal ranges common in the winter and 40 or more degree ranges common in summer. These large daily ranges are due to the combination Elkos high elevation, location in a sheltered valley, and generally low humidity. It is also one reason why the growing season is usually quite short, with an average length of about 90 days each year. The last freezing temperature in the spring typically occurs in early or mid June, with the first freezing temperature of fall usually happening in early or mid September.

The large Sierra Nevada mountain range located far to the west-southwest greatly diminishes the moisture available for precipitation from Pacific storm systems. Meanwhile, the many mountain ranges located between Elko and the primary source of summertime monsoon moisture, the tropical Pacific and Gulf of Mexico, cause a similar effect. The local mountain ranges can also cause small-scale rainshadows. These factors combine to result in an arid to semi-arid climate, with most precipitation being light and of a showery nature.

A distinct dry season occurs during mid to late summer, with a broad wet season stretching from the winter through the spring. Unusually heavy precipitation events with totals in excess of 1 inch are quite rare and generally happen only once every few years. Thunderstorms are most common during the summer months, and are usually caused by passing cold fronts, monsoon moisture from the Southwest, or a cold upper-level low pressure. While thunderstorms can occasionally produce heavy rain and flooding, they are more likely to produce only a trace to a few hundredths of an inch of rain. These dry thunderstorms are the most common cause of the many lightning-caused wildfires which occur across northeastern Nevada each summer. Snowfall is often light but rather frequent during the winter and snow may persist on the ground for an extended period of time; its presence can also aid in the formation of fog during the winter months. Heavy snowfalls of 6 inches or greater usually happen approximately once a year. Freezing rain and ice pellets are extremely rare, though graupel is somewhat common, especially during the spring.

Winds are typically diurnally influenced, with a southwesterly up-valley wind common during the afternoon and a northeasterly down-valley wind common during the early morning. Strong damaging winds usually occur either ahead of or during the passage of a strong cold front, or during thunderstorms. However, Elkos location at the bottom of a valley tends to prevent the strongest winds from reaching the city most of the time. This ensures that severe winds in excess of 58 mph are a relatively rare event in Elko, with only one or two occurrences in a given year on average. Dust storms can occur when strong winds ahead of a cold front affect a wide area. A strong thunderstorm may also produce a dust storm via strong outflow winds, though these haboobs are quite rare.

Skies are often mostly clear for many days in a row during the summer and autumn, with clouds more likely to dim the sun during the winter and spring. During the spring and summer it is not uncommon for days to start out clear and then become cloudy by days end due to convection.

The economy of Elko is based primarily upon gold mining, though ranching, hay farming, gambling and tourism are also prominent economic forces. The citys location along the historic First Transcontinental Railroad ensured that travel services were also a significant economic engine. Today, Interstate 80 helps maintain the need for said services. Weather rarely affects any of these activities for more than a few days.

# Station History

ELKO, NV

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
ELKO MUNICIPAL AP	1930-03-01	1965-01-01	40° 49'	-115° 46'	5074		AIRWAYS, COOP, USHCN
ELKO MUNICIPAL AP	1996-09-16	2001-02-14	40° 50'	-115° 47'	5080		AIRWAYS, COOP, USHCN
ELKO REGIONAL AP	2003-08-12	2006-06-01	40° 49'	-115° 47'	5030	.5 MI SSW	AIRWAYS, ASOS, COOP, USHCN
ELKO MUNICIPAL AP	1965-01-01	1996-09-16	40° 49'	-115° 46'	5050		AIRWAYS, COOP, USHCN
ELKO REGIONAL AP	2001-02-14	2003-08-12	40° 49'	-115° 47'	5050		AIRWAYS, ASOS, COOP, USHCN
ELKO REGIONAL AP	2006-06-01	Present	40° 49'	-115° 47'	5030		AIRWAYS, ASOS, COOP, USHCN

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1995-07-01	1996-09-16	DAILY	2400	F&P	RCRD	
PRECIP	2006-06-01	Present	DAILY	VAR	PCPNX		
TEMP	1995-07-01	1996-09-16	DAILY	2400	MXMN		
PRECIP	1996-09-16	2001-02-14	DAILY	2400	SRG		
TEMP	2006-06-01	Present	DAILY	2400	ATEMP		
PRECIP	2006-06-01	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1996-09-16	1999-11-01	HOURLY	2400	F&P	RCRD	
PRECIP	2006-06-01	Present	DAILY	2400	PCPNX		
TEMP	1930-03-01	1969-11-01	DAILY	2400			
PRECIP	1969-11-01	1992-04-06	HOURLY	2400			
PRECIP	1992-04-06	1995-07-01	HOURLY	2400			
PRECIP	1995-07-01	1996-09-16	HOURLY	2400	F&P	RCRD	
TEMP	1969-11-01	1992-04-06	DAILY	2400			
TEMP	1992-04-06	1995-07-01	DAILY	2400	MXMN		
TEMP	1996-09-16	2001-02-14	DAILY	2400	TEMPX		
PRECIP	2001-02-14	2006-06-01	HOURLY	2400	TB	RCRD	
PRECIP	1992-04-06	1995-07-01	DAILY				
TEMP	2006-06-01	Present	DAILY	VAR	ATEMP		
PRECIP	1930-03-01	1969-11-01	DAILY				
PRECIP	1969-11-01	1992-04-06	DAILY				
TEMP	2001-02-14	2006-06-01	DAILY	2400	HYGR		
PRECIP	2001-02-14	2006-06-01	DAILY	2400	TB	RCRD	

\* 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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