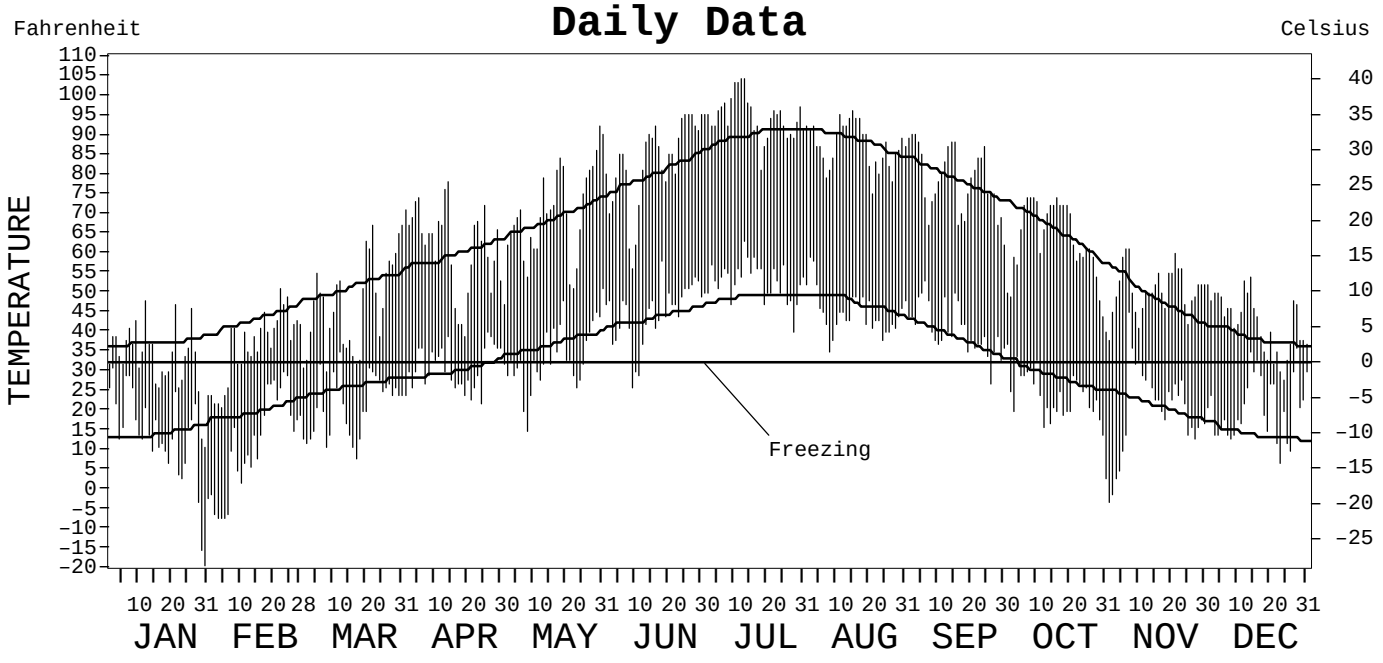
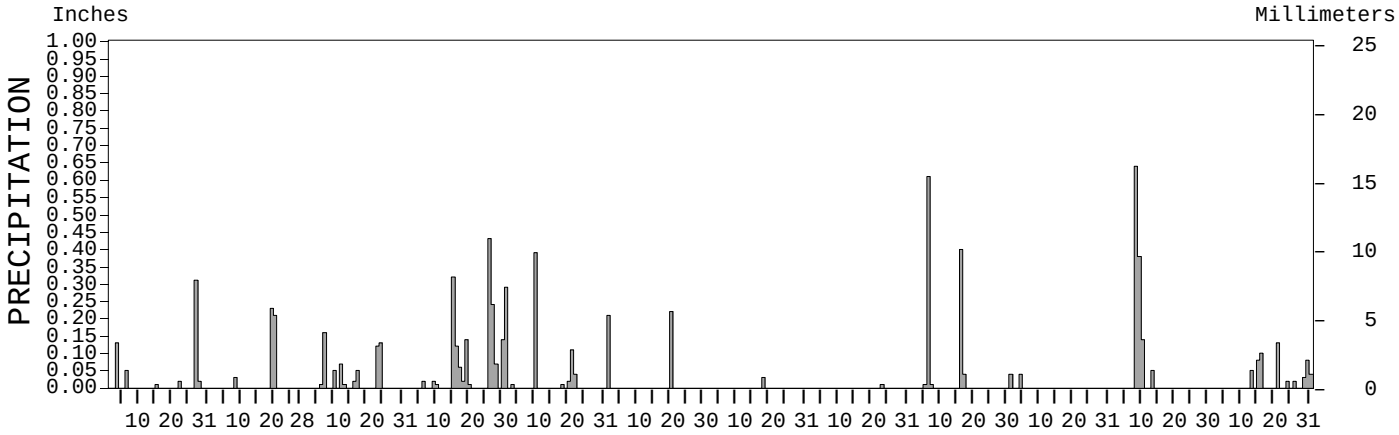
2002 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

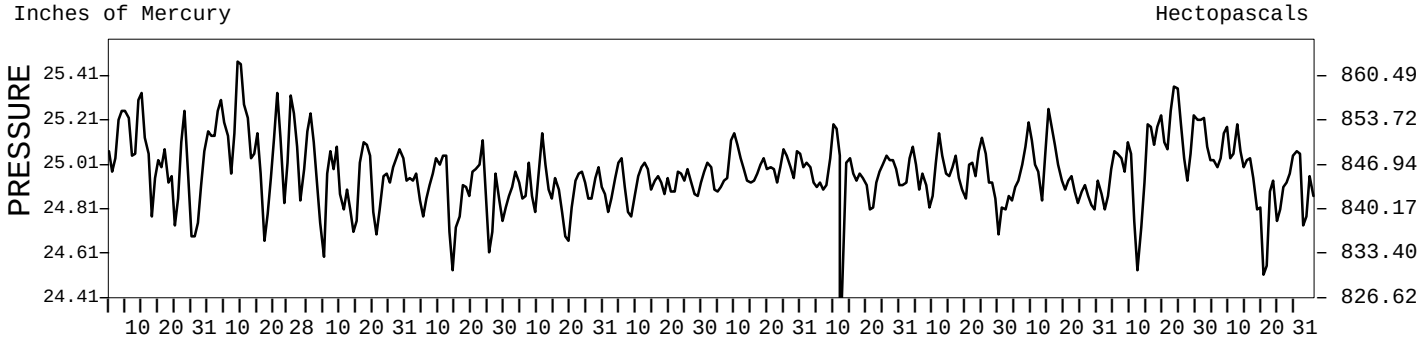
ISSN 0198-3261

ELKO,
NEVADA (EKO)

Daily Data







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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2002

ELKO, NV (EKO)

LATITUDE: 40° 49′ 30″ N LONGITUDE: 115° 47′ 30″ W ELEVATION (FT): GRND: 5076 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	33.1	36.6	47.6	61.6	69.9	82.9	94.4	87.2	78.4	63.0	50.8	42.3	62.3
	HIGHEST DAILY MAXIMUM	48	51	67	78	92	95	104	96	90	74	61	54	104
	DATE OF OCCURRENCE	12	22	31+	14	30	30+	13+	15	03+	16+	07+	14	JUL 13+
	MEAN DAILY MINIMUM	13.2	12.0	21.3	31.0	33.8	44.6	52.7	45.0	40.6	23.6	20.6	20.9	29.9
	LOWEST DAILY MINIMUM	−19	−7	8	22	15	26	40	35	27	3	−3	7	−19
	DATE OF OCCURRENCE	30	05+	17	24	08	09	28	08	26	31	01	23	JAN 30
	AVERAGE DRY BULB	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
	MEAN WET BULB	21.1	20.9	29.2	38.2	42.1	49.1	54.8	48.0	46.1	33.1		27.4	
	MEAN DEW POINT	17.0	15.7	21.2	28.5	30.0	33.8	37.4	27.8	32.0	18.6		21.8	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	2	9	26	13	2	0	0	0	52
	MAXIMUM ≤ 32°	14	8	3	0	0	0	0	0	0	0	0	3	28
	MINIMUM ≤ 32°	31	28	30	17	15	3	0	0	1	28	26	28	207
	MINIMUM ≤ 0°	4	6	0	0	0	0	0	0	0	0	2	0	12
H/C	HEATING DEGREE DAYS	1290	1129	936	552	409	108	0	43	173	663	874	1028	7205
	COOLING DEGREE DAYS	0	0	0	0	10	76	274	84	17	0	0	0	461
RH	MEAN (PERCENT)	79	74	63	58	48	35	28	26	41	43	63	71	52
	HOUR 04 LST	86	85	81	79	78	58	45	45	62	63	78	79	70
	HOUR 10 LST	75	68	52	46	35	26	22	19	32	35	55	68	44
	HOUR 16 LST	66	57	41	36	27	22	18	13	23	24	42	60	36
	HOUR 22 LST	84	81	72	65	55	37	27	27	44	48	70	77	57
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	6	1	1	3	1	0	0	0	0	0	0	1	13
	THUNDERSTORMS	0	0	1	2	1	2	3	1	0	0	0	0	10
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.)	25.02	25.11	24.94	24.88	24.89	24.92	24.99		24.95	24.95	25.07	24.93	
	MEAN SEA-LEVEL PRESS. (IN.)	30.26	30.37	30.09	29.95	29.93	29.89	29.93		29.95	30.05		30.10	
WINDS	RESULTANT SPEED (MPH)	0.2	1.5	2.5	2.7	1.4	1.8	1.3	2.3	0.9	0.7	1.0	3.4	1.3
	RES. DIR. (TENS OF DEGS.)	17	05	25	24	24	27	23	25	24	30	21	21	24
	MEAN SPEED (MPH)	4.2	5.2	5.7	6.1	5.9	6.3	6.1	5.7	5.3	4.2	4.4	6.1	5.4
	PREVAIL.DIR.(TENS OF DEGS.)	07	08	22	21	22	25	20	20	06	03	07	22	22
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	28	36	33	37	38	31	45	31	40	22	35	38	45
	DIR. (TENS OF DEGS.)	24	28	27	22	15	25	23	15	23	31	18	16	23
	DATE OF OCCURRENCE	21	08	07	14	18	20	05	01	04	28+	08	14	JUL 05
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	37	43	41	46	47	40	60	40	51	31	43	48	60
	DIR. (TENS OF DEGS.)	21	28	27	22	15	25	22	20	22	22	18	17	22
	DATE OF OCCURRENCE	21	08	07	14	19	20	05	05	04	31	08	14	JUL 05
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	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
	GREATEST 24-HOUR (IN.)	0.32	0.44	0.16	0.61	0.43	0.22	0.03	0.01	0.62	0.04	0.64	0.13	0.64
	DATE OF OCCURRENCE	27-28	19-20	07	26-27	30-01	20	18	23	06-07	04+	08	21	NOV 08
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	6	3	9	13	7	2	1	1	5	2	4	9	62
	PRECIPITATION ≥ 0.10	2	2	3	6	3	2	0	0	2	0	3	2	25
	PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)	9.1	1.2	2.5	3.8	1.5	0.0	0.0	0.0	0.0	T	0.5	5.3	23.9
	GREATEST 24-HOUR (IN.)	5.1	1.1	1.1	1.5	1.5	0.0	0.0	0.0	0.0	T	0.5	1.5	5.1
	DATE OF OCCURRENCE	27	19	07	15	01					24	09	21	JAN 27
	MAXIMUM SNOW DEPTH (IN.)	6	6	1	T	0	0	0	0	0	0	T	1	6
	DATE OF OCCURRENCE	31+	01	08	19+							10	31+	FEB 01
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	3	1	1	2	1	0	0	0	0	0	0	3	11

NORMALS, MEANS, AND EXTREMES

ELKO, NV (EKO)

LATITUDE: 40° 49′ 30″ N LONGITUDE: 115° 47′ 30″ W ELEVATION (FT): GRND: 5076 BARO: 5079 TIME ZONE: PACIFIC (UTC + 8) WBAN: 24121

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	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	55	36.6	42.2	49.9	59.0	68.7	79.5	90.2	88.3	78.6	65.7	49.0	38.1	62.1
	HIGHEST DAILY MAXIMUM	72	64	70	77	86	92	104	107	107	99	88	78	65	107
	YEAR OF OCCURRENCE		1990	1986	1966	1992	2002	1981	1981	1978	1950	1980	1980	1995	JUL 1981
	MEAN OF EXTREME MAXS.	55	51.0	56.8	66.5	76.2	85.2	93.5	98.9	97.3	91.4	81.4	66.0	52.2	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	30.5
	MEAN DAILY MINIMUM	55	12.7	18.1	24.0	29.0	36.3	43.0	49.1	46.9	37.9	28.0	20.8	13.6	29.9
	LOWEST DAILY MINIMUM	72	-43	-37	-9	-2	10	23	30	20	9	1	-12	-38	-43
	YEAR OF OCCURRENCE		1937	1933	1952	1936	1965	1976	1995	1992	1934	1996	1931	1932	JAN 1937
	MEAN OF EXTREME MINS.	55	-9.5	-2.0	9.9	16.9	22.9	31.3	37.7	34.9	24.2	13.9	3.7	-5.7	14.8
	NORMAL DRY BULB	30	25.1	31.5	37.6	44.3	53.1	62.4	70.7	68.7	58.7	47.7	35.8	25.7	46.8
	MEAN DRY BULB	55	24.7	30.2	36.9	44.1	52.4	61.3	69.5	67.5	58.2	46.7	34.9	26.0	46.0
	MEAN WET BULB	14	20.4	25.3	32.7	37.7	43.3	48.6	49.2	46.9	41.6	33.7	25.9	19.6	35.4
	MEAN DEW POINT	14	15.5	19.7	24.7	26.8	31.8	34.5	33.9	31.0	27.3	21.3	19.6	14.8	25.1
	NORMAL NO. DAYS WITH:														
	MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	0.4	6.1	20.0	15.0	3.4	0.0	0.0	0.0	44.9
	MAXIMUM ≤ 32°	30	9.4	4.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.6	8.4	24.5
	MINIMUM ≤ 32°	30	29.0	25.6	26.1	20.4	8.0	0.9	*	0.2	6.5	20.5	25.2	29.1	191.5
	MINIMUM ≤ 0°	30	6.0	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.1	12.5
H/C	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
RH	NORMAL (PERCENT)	30	72	69	62	53	48	44	33	35	41	50	65	71	54
	HOUR 04 LST	30	78	79	76	72	70	68	55	55	60	67	76	78	70
	HOUR 10 LST	30	72	67	55	43	38	33	25	26	32	42	61	70	47
	HOUR 16 LST	30	59	52	42	34	30	26	19	20	22	28	48	59	37
	HOUR 22 LST	30	76	76	68	58	54	48	36	38	45	56	71	75	58
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	45	1.8	0.8	0.6	0.4	0.4	0.1	0.0	0.1	0.1	0.3	0.5	1.4	6.5
	THUNDERSTORMS	45	0.2	0.4	0.3	1.0	3.1	3.4	4.6	4.2	2.1	0.5	0.2	0.1	20.1
CLOUDINESS	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	57	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	57	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	57	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
PR	MEAN STATION PRESSURE(IN)	23	25.00	25.00	24.90	24.90	24.90	24.90	23.95	23.95	23.95	23.95	23.99	23.99	24.45
	MEAN SEA-LEVEL PRES. (IN)	13	30.27	30.18	30.02	29.96	29.91	29.90	27.78	27.63	27.84	27.76	27.40	28.08	28.89
WINDS	MEAN SPEED (MPH)	32	5.2	5.8	6.7	7.3	7.0	6.8	6.3	6.0	5.5	5.3	5.0	5.0	6.0
	PREVAIL.DIR(TENS OF DEGS)	16	24	24	24	24	24	24	24	24	06	24	24	22	24
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	1	28	36	33	37	38	31	45	31	40	22	35	38	45
	DIR. (TENS OF DEGS)		24	28	27	22	15	25	23	15	23	31	18	16	23
	YEAR OF OCCURRENCE		2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	JUL 2002
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	1	37	43	41	46	47	40	60	40	51	31	43	48	60
	DIR. (TENS OF DEGS)		21	28	27	22	15	25	22	20	22	22	18	17	22
	YEAR OF OCCURRENCE		2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	JUL 2002
PRECIPITATION	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)	72	3.35	2.93	2.39	2.17	4.09	2.61	2.35	4.61	3.22	2.76	2.77	4.21	4.61
	YEAR OF OCCURRENCE		1956	1932	1989	1963	1971	1963	1950	1970	1978	1938	1942	1983	AUG 1970
	MINIMUM MONTHLY (IN)	72	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	1969	1951	1995	1959	1976	JUL 1963
	MAXIMUM IN 24 HOURS (IN)	72	1.27	0.89	1.02	1.10	1.73	1.85	1.28	4.13	2.32	1.31	1.31	1.62	4.13
	YEAR OF OCCURRENCE		1951	1936	1975	1943	1971	1968	2001	1970	1978	1939	1950	1950	AUG 1970
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	8.7	8.2	9.4	7.8	8.3	6.2	3.8	4.3	4.5	4.3	8.3	9.0	82.8
	PRECIPITATION ≥ 1.00	30	*	0.0	0.0	0.0	*	*	0.0	*	*	0.0	0.0	0.0	0.0
SNOWFALL	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)	71	45.7	26.1	23.2	16.6	11.3	T	T	T	2.0	5.6	16.8	33.2	45.7
	YEAR OF OCCURRENCE		1996	1932	1967	1999	1971	1995	1995	1993	1982	1984	1985	1983	JAN 1996
	MAXIMUM IN 24 HOURS (IN)	54	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	1995	1995	1993	1982	1963	1965	1992	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	48	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) 2002 ELKO, NV (EKO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	1.17	0.96	0.56	0.88	0.70	0.56	0.46	0.29	0.18	0.64	1.40	1.30	9.10
1974	0.61	0.38	0.86	0.58	T	T	0.19	0.12	0.00	1.16	0.34	0.53	4.77
1975	1.79	1.06	2.37	1.70	0.98	0.40	0.15	0.10	0.18	1.42	0.94	0.25	11.34
1976	0.35	0.68	0.25	0.65	0.50	0.64	0.44	0.91	1.84	0.58	0.26	T	7.10
1977	0.30	0.26	0.13	0.18	1.44	1.03	0.22	0.77	0.26	0.01	0.96	0.90	6.46
1978	0.68	0.97	1.88	1.98	0.25	0.18	0.58	0.02	3.22	0.25	0.61	0.52	11.14
1979	1.91	1.20	0.59	0.43	0.42	0.38	0.32	0.36	0.25	0.43	1.10	0.35	7.74
1980	3.11	1.89	0.77	1.22	3.15	0.80	0.33	0.10	0.42	0.19	0.62	0.21	12.81
1981	0.64	0.33	1.20	0.75	0.80	0.24	0.02	0.19	0.13	0.69	0.60	3.19	8.78
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	0.73	T	0.20	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
POR= 133 YRS	1.21	0.92	0.94	0.75	0.90	0.72	0.32	0.31	0.42	0.61	0.82	1.01	8.93

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AVERAGE TEMPERATURE (˚F) 2002 ELKO, NV (EKO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	20.0	31.4	36.8	43.0	56.1	62.8	70.8	69.0	57.0	47.9	36.8	30.3	46.8
1974	27.9	32.2	41.1	43.5	52.6	65.2	69.8	65.2	58.7	47.9	37.6	26.7	47.4
1975	18.9	29.2	35.8	37.6	51.0	59.7	71.3	64.1	58.8	46.4	32.4	29.4	44.6
1976	25.8	32.8	33.5	41.4	55.6	59.2	69.4	63.0	61.1	46.6	37.7	27.6	46.1
1977	24.1	35.6	34.8	49.3	50.6	69.3	71.7	70.9	60.9	51.0	38.9	34.7	49.3
1978	32.2	34.7	44.9	45.3	52.1	60.6	69.8	69.2	56.6	50.6	35.3	23.6	47.9
1979	22.7	33.0	39.8	46.4	56.5	65.8	73.9	71.2	66.1	54.6	33.6	31.5	49.6
1980	32.2	39.0	37.0	47.3	51.5	60.5	71.6	67.2	61.6	49.6	40.0	34.2	49.3
1981	34.6	35.5	40.8	48.2	54.2	67.3	73.9	72.8	61.6	44.8	40.5	34.1	50.7
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		66.8	66.6	59.6	50.2	35.7	25.7	
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
POR= 93 YRS	24.1	29.9	37.0	44.5	52.9	61.2	69.8	67.5	57.9	47.0	35.0	25.9	46.1

HEATING DEGREE DAYS (base 65˚F) 2002 ELKO, NV (EKO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973–74	5	19	236	522	844	1064	1145	910	734	637	382	87	6585
1974–75	28	55	187	523	815	1184	1422	994	899	815	427	168	7517
1975–76	8	77	180	570	970	1094	1209	927	967	701	286	177	7166
1976–77	12	80	145	563	810	1154	1262	816	927	464	441	16	6690
1977–78	0	27	164	430	773	933	1009	845	617	583	398	135	5914
1978–79	23	47	267	439	888	1277	1306	889	775	553	265	86	6815
1979–80	0	4	32	320	933	1032	1013	747	862	523	410	165	6041
1980–81	0	34	119	467	743	947	933	819	744	497	336	67	5706
1981–82	0	4	131	618	726	952	1289	987	836	676	381	130	6730
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–	0	43	173	663	874	1028							

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COOLING DEGREE DAYS (base 65˚F) 2002 ELKO, NV (EKO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	0	3	74	192	152	2	0	0	0	423
1974	0	0	0	0	4	97	185	68	6	0	0	0	360
1975	0	0	0	0	0	15	212	56	0	0	0	0	283
1976	0	0	0	0	0	11	157	24	36	0	0	0	228
1977	0	0	0	0	3	152	217	216	48	0	0	0	636
1978	0	0	0	0	0	9	179	186	21	0	0	0	395
1979	0	0	0	0	9	120	284	207	70	4	0	0	694
1980	0	0	0	0	0	36	211	109	25	0	0	0	381
1981	0	0	0	2	9	145	282	254	36	0	0	0	728
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

SNOWFALL (inches) 2002 ELKO, NV (EKO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973–74	0.0	0.0	0.0	0.0	6.8	11.8	5.1	1.0	2.2	2.1	T	0.0	29.0
1974–75	0.0	0.0	0.0	0.0	T	6.7	14.5	5.9	6.3	15.6	8.0	0.0	57.0
1975–76	0.0	0.0	0.0	0.6	7.3	2.5	4.4	5.2	3.5	0.8	0.0	0.0	24.3
1976–77	0.0	0.0	0.0	0.0	0.5	T	4.3	1.8	1.5	2.0	2.2	0.0	12.3
1977–78	0.0	0.0	0.0	0.0	3.0	5.3	5.5	5.5	T	T	T	0.0	19.3
1978–79	0.0	0.0	T	T	1.0	2.0	8.3	13.0	2.4	2.1	0.6	T	29.4
1979–80	0.0	0.0	0.0	1.5	9.2	2.3	12.5	3.4	3.9	0.5	2.0	0.0	35.3
1980–81	0.0	0.0	0.0	1.2	0.5	0.5	4.4	1.4	2.6	2.9	0.2	T	13.7
1981–82	0.0	0.0	0.0	T	0.3	9.8	11.2	0.3	13.8	3.5	T	T	38.9
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						
2001–02						20.9	9.1	1.2	2.5	3.8	1.5	0.0	
2002–	0.0	0.0	0.0	T	0.5	5.3							
POR= 69 YRS	T	T	0.1	0.7	4.4	7.7	9.8	6.2	5.2	2.6	0.9	T	37.6

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REFERENCE NOTES:

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).

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).

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 (1961 – 1990).
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.

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.

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.

2002
ELKO,
NEVADA (EKO)

Elko is located in the Humbolt River Valley of northeastern Nevada. Weather observations are taken at the Flight Service Station which is located at the Municipal Airport on the west side of town. The elevation at the airport is just above 5,000 feet.

The Ruby mountain range, with many peaks near or exceeding l0,000 feet in height, dominates the landscape from about 40 miles northeast through 40 miles southeast of Elko. The immediate terrain consists of sagebrush–covered valleys and hills. The highest hills are approximately 2,500 feet above the valley floors. A few areas, mostly in the higher mountains, are covered with sparse stands of juniper, aspen, pinion pine, and spruce. The only heavily forested area in northeastern Nevada is in the Jarbidge Wilderness Area north of Elko near the Idaho border.

Because of the high elevation and proximity of the mountains, there is a wide range between the normal high and low temperatures. High radiative cooling at night makes cool nights the rule, even in mid summer.

Normal precipitation is light, especially during the summer months when the precipitation falls mostly as light showers which do not contribute much toward crop growth. The precipitation that falls between November and June (rain and snow) is critical to agriculture in the area. Not only is the precipitation that falls directly on the fields a benefit to farmers and ranchers, but the runoff from snowfall that accumulates in the mountains is used for irrigation.

The principal crop in northeast Nevada is hay. Cattle ranching is a major industry within the area. The ranges ordinarily furnish excellent summer pasture for cattle. Hay crops are needed for winter feeding.

Mining is another major industry. Many of the mines are located in the mountains at rather high elevations and are affected by daily weather. This is especially true during the winter when snow and rain may cause poor or impassable road conditions, thereby halting mining operations.

Transportation by air, rail, or road is seldom affected by the weather for more than short periods.

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 5.

STATION LOCATION

ELKO, NEVADA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUN-SHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
*NOTE:																
AIRPORT																
NW Corner, U. A. L. Hangar, Muncipal Airport	11/16/30	02/05/43	1.2 mi. W	40°50′	115°47′	5075	36	5	4				3			WBAS–CAA 11/16/30 to 7/1/35; CAA to 11/1/41; WBAS to 2/5/43.
Administration Building Municipal Airport	02/05/43	02/14/01	130 ft. N	40°50′	115°47′	5075 f5050 b35 d20	41 a33	5 h5	4 g3 h5			3 c5 g4 h4	3 g4 h4	e4 i4		a. Effective 10/26/49. b. Effective 8/27/54. WB–FAA operation effective 10/15/57. FAA obtains dew points from Dewcel 26′ above ground and temperatures from telethermo-meter with sensor 4′ above ground. c. Shielded 11/10/63 creating obstruction to 8 inch gauge. d. Effective 9/26/64. FAA operation effective 10/5/64. e. Commissioned 2840′ WSW of thermometer site 10/5/64. f. Effective 10/5/64. g. Minor move 5/29/67. h. Minor move 4/4/69. i. Type change 8/1/85.
Elko Regional Airport	02/14/01	Present	N/A	40°50′	115°47′	j5076									S	ASOS Commissioned 02/14/01 j. Ground elevation.

* TYPE

M = AMOS
T = AUTOB
S = ASOS
W = AWOS

*** NOTES: For earlier station history see previous editions.**