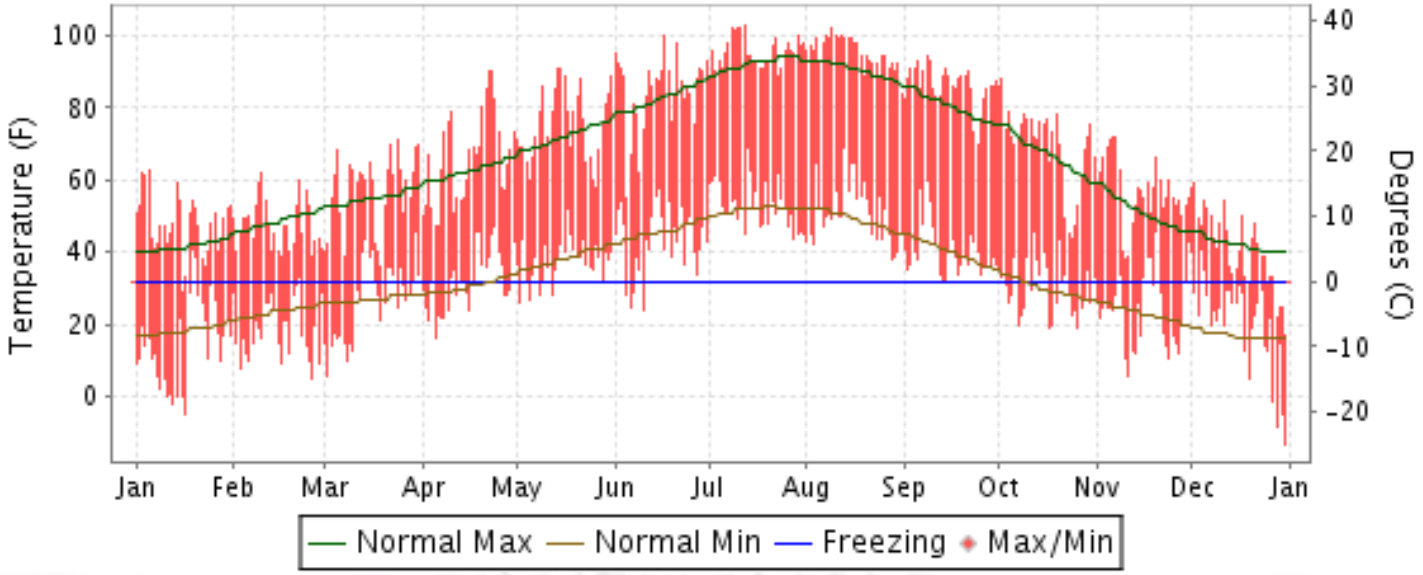
2012
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

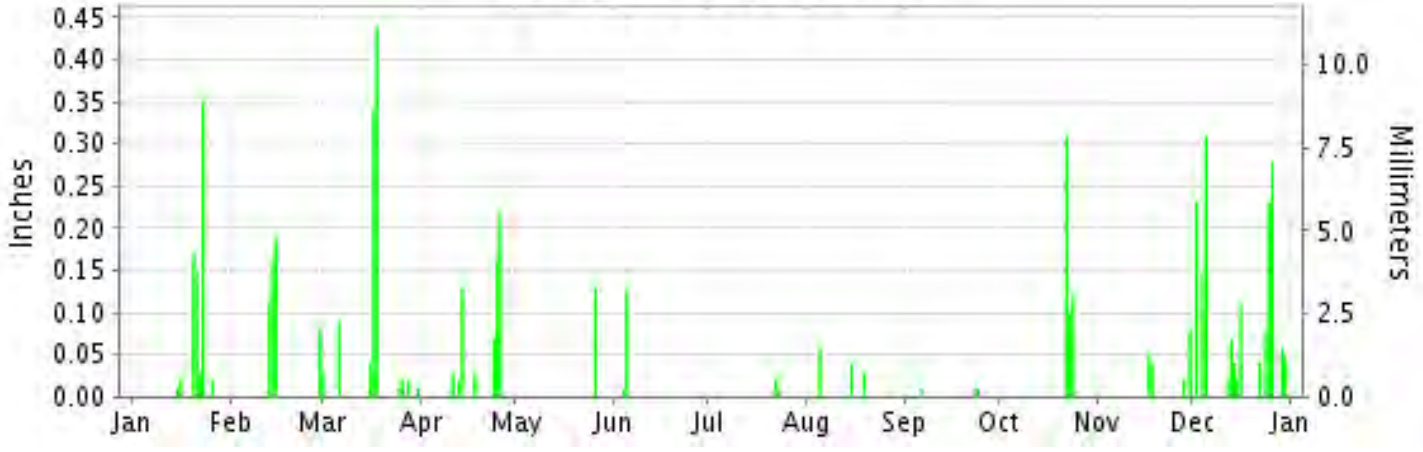
ISSN 0198-3342

WINNEMUCCA,
NEVADA (KWMC)

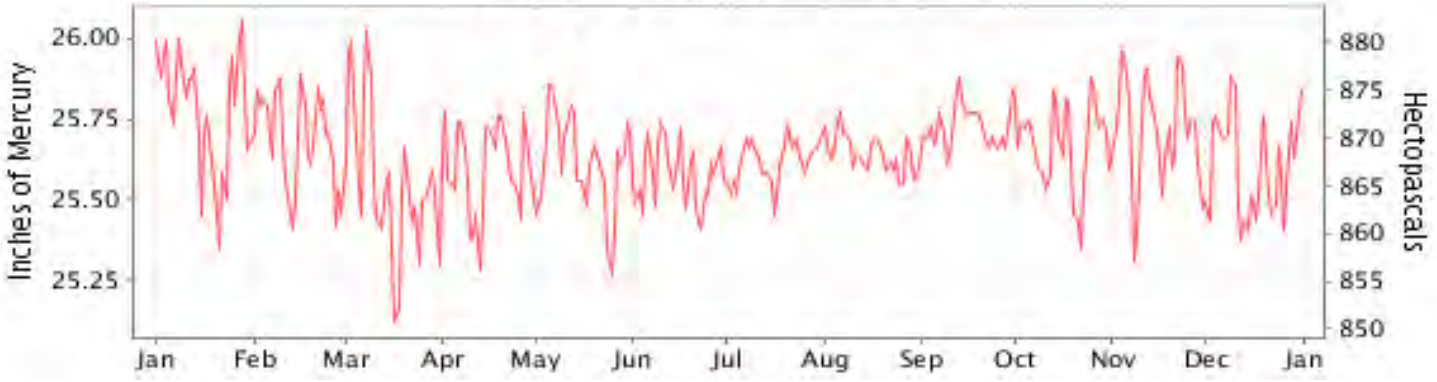
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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Thomas R. Karl

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 2012
WINNEMUCCA (KWMC)

LATITUDE: 40° 54'N **LONGITUDE:** 117° 48'W **ELEVATION (FT):** GRND: 4296 BARO: 4300 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 24128

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	47.6	47.5	57.1	65.8	75.3	84.4	95.4	95.2	86.2	69.3	56.8	40.6	68.4
	HIGHEST DAILY MAXIMUM	63	62	71	90	91	100	103	102	94	88	72	59	103
	DATE OF OCCURRENCE	05	10	24	23+	15+	17	12	09	08	02	07+	02	JUL 12
	MEAN DAILY MINIMUM	14.8	18.6	26.8	32.0	37.4	43.2	53.1	51.0	40.5	30.3	24.0	20.4	32.7
	LOWEST DAILY MINIMUM	-5	5	6	16	26	24	44	38	32	19	6	-13	-13
	DATE OF OCCURRENCE	17	26	02	05	02	10	28	28	14+	26+	11	31	DEC 31
	AVERAGE DRY BULB	31.2	33.1	42.0	48.9	56.4	63.8	74.3	73.1	63.4	49.8	40.4	30.5	50.6
	MEAN WET BULB	25.8	28.4	34.4	39.1		46.5	52.6	52.4	45.9	38.3	34.0	27.8	
	MEAN DEW POINT	15.7	20.0	23.2	25.1		24.2	28.8	30.8	24.6	22.0	25.5	22.3	
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	2	2	11	29	28	8	0	0	0	80
	MAXIMUM <= 32°	1	0	0	0	0	0	0	0	0	0	0	6	7
	MINIMUM <= 32°	29	28	21	18	7	4	0	0	2	18	24	28	179
	MINIMUM <= 0°	5	0	0	0	0	0	0	0	0	0	0	4	9
H/C	HEATING DEGREE DAYS	1041	920	706	477	262	114	0	0	78	461	733	1064	5856
	COOLING DEGREE DAYS	0	0	0	3	3	85	296	259	35	0	0	0	681
RH	MEAN (PERCENT)	59	62	53	45	32	25	21	25	27	41	60	73	44
	HOUR 04 LST	70	77	69	68	57	45	41	44	48	59	74	76	61
	HOUR 10 LST	49	51	40	30	20	17	14	15	16	28	45	67	33
	HOUR 16 LST	47	43	34	25	16	13	10	13	13	28	51	71	30
	HOUR 22 LST	66	72	61	55	36	30	25	29	30	46	69	78	50
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	1	2	2	0	0	0	0	0	0	0	0	6	11
	THUNDERSTORMS	0	0	0	3	1	0	1	4	1	0	0	0	10
PR	MEAN STATION PRESS. (IN.)	25.78	25.68	25.55	25.60	25.62	25.58	25.62	25.64	25.72	25.67	25.70	25.60	25.65
	MEAN SEA-LEVEL PRESS. (IN.)	30.25	30.12	29.92	29.95	29.94	29.85	29.85	29.89	30.02	30.03	30.11	30.03	30.00
WINDS	RESULTANT SPEED (MPH)	2.3	1.5	5.1	2.6		3.6	3.1	1.0	0.5	0.9	2.3	3.5	
	RES. DIR. (TENS OF DEGS.)	19	24	21	24		28	24	24	02	21	17	19	
	MEAN SPEED (MPH)	6.0	7.2	9.4	7.3		8.9	6.9	6.6	5.9	5.8	6.1	7.4	
	PREVAIL.DIR.(TENS OF DEGS.)	18	17	17	26	03	27	26	25	05	15	17	17	17
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	33	41	41	38	32	46	37	39	29	29	36	43	46
	DIR. (TENS OF DEGS.)	22	26	27	26	24	27	23	18	24	24	22	23	27
	DATE OF OCCURRENCE	19	25	31	26	03	04	22	15	23	16	08	02	JUN 04
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	46	54	54	48	46	60	48	51	39	38	52	55	60
	DIR. (TENS OF DEGS.)	22	22	27	25	05	26	23	18	25	21	24	23	26
	DATE OF OCCURRENCE	19	25	31	26	15	04	22	15	23	21	08	02	JUN 04
PRECIPITATION	WATER EQUIVALENT:	0.75	0.54	1.00	0.66	0.13	0.14	0.03	0.13	0.03	0.53	0.19	1.69	5.82
	TOTAL (IN.)	0.38	0.32	0.47	0.38	0.13	0.14	0.03	0.06	0.02	0.38	0.09	0.51	0.51
	GREATEST 24-HOUR (IN.)	22-23	14-15	17-18	25-26	26	04-05	22-23	05	23-24	22-23	17-18	25-26	DEC 25-26
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	7	4	9	7	1	2	2	3	3	3	4	14	59
	PRECIPITATION 0.01	3	3	2	3	1	1	0	0	0	3	0	6	22
	PRECIPITATION 0.10	0	0	0	0	0	0	0	0	0	0	0	0	0
	PRECIPITATION 1.00													
SNOWFALL	SNOW,ICE PELLETS,HAIL	5.2	5.1	6.6	T	0.0	T	0.0	0.0	0.0	1.3	T	13.5	31.7
	TOTAL (IN.)	4.0	2.8	4.7	T	0.0	T	0.0	0.0	0.0	0.9	T	4.8	4.8
	GREATEST 24-HOUR (IN.)	23	15	18	14+		05				23	10+	26	DEC 26
	DATE OF OCCURRENCE	2	4	2	T	0	0	0	0	0	T	T	7	7
	MAXIMUM SNOW DEPTH (IN.)	24+	15	19+	06						23	10	30+	DEC 30+
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	1	2	2	0	0	0	0	0	0	0	0	2	7
	SNOWFALL >= 1.0													

NORMALS, MEANS, AND EXTREMES
WINNEMUCCA (KWMC)

LATITUDE: 40° 54'N **LONGITUDE:** 117° 48'W **ELEVATION (FT):** GRND: 4296 BARO: 4300 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 24128

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.6	47.5	55.7	62.5	72.2	82.9	93.2	91.3	80.9	66.9	51.4	41.3	65.6
	MEAN DAILY MAXIMUM	63	42.0	48.0	54.6	62.1	72.0	82.2	93.0	90.5	81.0	67.7	52.5	42.7	65.7
	HIGHEST DAILY MAXIMUM	63	68	74	81	90	98	106	109	108	103	94	77	67	109
	YEAR OF OCCURRENCE		1971	1986	1972	2012	2003	1988	2002	1983	1950	2010	1980	2007	JUL 2002
	MEAN OF EXTREME MAXS.	63	56.8	62.7	70.7	79.4	89.3	97.3	101.9	100.5	94.0	84.3	69.0	58.1	80.3
	NORMAL DAILY MINIMUM	30	18.7	22.8	26.6	30.7	37.9	45.4	51.8	48.8	39.6	29.5	22.4	17.4	32.6
	MEAN DAILY MINIMUM	63	17.8	22.6	25.3	29.7	37.5	45.0	51.6	48.3	39.0	29.3	22.4	17.3	32.2
	LOWEST DAILY MINIMUM	63	-24	-28	-3	6	10	23	29	28	12	-2	-10	-37	-37
	YEAR OF OCCURRENCE		1963	1985	1971	1972	2002	2001	1983	1992	1958	2002	2010	1990	DEC 1990
	MEAN OF EXTREME MINS.	63	-1.7	4.5	10.2	15.9	23.2	31.1	39.0	35.8	25.2	14.8	5.3	-2.1	16.8
	NORMAL DRY BULB	30	30.1	35.2	41.1	46.6	55.1	64.2	72.5	70.0	60.3	48.2	36.9	29.4	49.1
	MEAN DRY BULB	63	29.9	35.3	39.9	45.9	54.8	63.7	72.3	69.4	60.0	48.5	37.5	30.0	48.9
	MEAN WET BULB	29	25.5	28.7	32.3	35.6	41.7	45.5	48.7	46.6	41.2	35.6	29.9	24.4	36.3
	MEAN DEW POINT	29	23.0	25.1	27.5	29.4	34.5	37.9	40.4	37.8	33.5	28.2	25.4	21.8	30.4
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	1.4	8.6	22.5	19.8	5.5	0.2	0.0	0.0	58.0
	MAXIMUM <= 32	30	4.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.3	10.9
	MINIMUM <= 32	30	28.0	24.2	23.8	16.8	7.0	0.9	0.0	0.1	4.9	19.5	25.4	28.1	178.7
	MINIMUM <= 0	30	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	4.8
H/C	NORMAL HEATING DEG. DAYS	30	1080	836	739	552	320	105	10	20	174	521	843	1105	6305
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	11	79	243	177	31	0	0	0	541
RH	NORMAL (PERCENT)	30	72	65	58	48	45	38	29	29	37	48	63	71	50
	HOUR 04 LST	30	80	76	73	68	65	58	47	47	55	65	75	79	66
	HOUR 10 LST	30	69	60	50	40	35	29	23	23	30	40	57	66	44
	HOUR 16 LST	30	58	47	38	30	28	22	16	17	21	28	45	56	34
	HOUR 22 LST	30	77	70	64	54	50	42	32	33	43	54	69	75	55
S	PERCENT POSSIBLE SUNSHINE	42	51	56	60	66	72	77	86	85	82	74	54	52	68
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	49	2.1	0.9	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.5	6.3
	THUNDERSTORMS	56	0.0	0.2	0.4	0.9	2.7	2.9	3.1	3.2	1.6	0.5	0.1	0.1	15.7
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)			3.2	6.4		4.8	2.4							
	MIDNIGHT-MIDNIGHT (OKTAS)				7.2		4.8	2.4				0.8			
	MEAN NO. DAYS WITH:														
	CLEAR			10.5	8.0	2.0	12.0	14.0	4.0	14.0	14.0	11.0		4.0	
	PARTLY CLOUDY	2	1.5	3.5	2.0		5.0	1.0			3.0	3.0		2.0	
	CLOUDY	1	8.0	8.0	18.5	7.0	5.5	4.0			1.0			4.0	
PR	MEAN STATION PRESSURE(IN)	29	25.74	25.67	25.63	25.61	25.60	25.61	25.65	25.65	25.66	25.69	25.72	25.73	25.66
	MEAN SEA-LEVEL PRES. (IN)	29	30.20	30.09	30.01	29.97	29.92	29.89	29.89	29.91	29.96	30.06	30.14	30.19	30.02
WINDS	MEAN SPEED (MPH)	29	7.1	7.9	8.4	8.5	8.5	8.5	7.9	7.6	7.2	6.9	7.1	7.1	7.7
	PREVAIL.DIR(TENS OF DEGS)	18	19	19	19	28	28	28	28	28	05	17	19	19	19
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	18	44	48	46	49	40	46	46	51	52	48	48	48	52
	DIR. (TENS OF DEGS)		19	25	26	24	15	27	15	24	15	29	22	20	15
	YEAR OF OCCURRENCE		2008	1999	2010	2010	2006	2012	2001	1996	2011	1996	1998	1995	SEP 2011
	MAXIMUM 3-SECOND														
	SPEED (MPH)	18	59	55	58	68	66	60	59	58	63	54	60	63	68
	DIR. (TENS OF DEGS)		19	22	26	23	16	26	22	24	15	28	21	20	23
	YEAR OF OCCURRENCE		2008	2000	2010	2010	2006	2012	2007	1996	2011	1996	1998	1995	APR 2010
PRECIPITATION	NORMAL (IN)	30	0.87	0.66	0.83	0.89	1.12	0.56	0.25	0.18	0.44	0.67	0.88	0.93	8.28
	MAXIMUM MONTHLY (IN)	63	2.70	2.17	2.06	2.92	3.57	2.86	1.74	1.74	2.80	2.72	2.66	3.66	3.66
	YEAR OF OCCURRENCE		1956	1962	2011	1978	1998	1958	1984	1979	1998	2010	1950	1983	DEC 1983
	MINIMUM MONTHLY (IN)	63	0.04	0.08	0.03	0.06	T	0.00	0.00	0.00	0.00	T	T	0.01	0.00
	YEAR OF OCCURRENCE		1966	1967	2004	1959	1985	1994	1963	1969	1974	1995	1959	2011	JUN 1994
	MAXIMUM IN 24 HOURS (IN)	63	0.91	0.74	.88	1.70	1.70	1.79	0.86	0.79	1.30	1.64	1.58	0.95	1.79
	YEAR OF OCCURRENCE		2006	2002	2005	2006	1987	1958	1984	1990	1998	1951	1950	1996	JUN 1958
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	8.2	7.8	8.2	7.7	6.8	4.1	2.3	2.0	3.2	4.7	7.8	8.0	70.8
	PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
SNOWFALL	NORMAL (IN)	30	3.8	3.4	3.2	1.6	0.1	0.0	0.0	0.0	0.0	0.5	3.0	5.3	20.9
	MAXIMUM MONTHLY (IN)	57	19.2	14.3	23.4	12.0	5.4	0.2	0.0	T	1.0	7.4	19.6	20.4	23.4
	YEAR OF OCCURRENCE		1993	2011	1952	1964	1965	1995		1990	1986	1984	1985	2008	MAR 1952
	MAXIMUM IN 24 HOURS (IN)	56	8.8	9.9	9.0	7.2	4.3	0.2	0.0	T	1.0	4.9	5.7	8.4	9.9
	YEAR OF OCCURRENCE'		1993	1959	1982	1971	1971	1995		1990	1986	1984	1985	1955	FEB 1959
	MAXIMUM SNOW DEPTH (IN)	54	9	9	7	4	3	0	0	T	0	3	7	30	30
	YEAR OF OCCURRENCE		2005	2011	1982	1971	1965			1990		1984	1955	2006	DEC 2006
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	1.6	1.2	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.2	1.1	1.8	7.5

PRECIPITATION (inches) 2012 WINNEMUCCA (KWMC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	1.18	0.97	1.46	0.82	0.78	0.85	0.73	1.53	0.59	0.65	1.25	3.66	14.47
1984	0.11	0.91	1.56	1.24	1.41	1.38	1.74	0.19	0.78	1.62	1.57	0.36	12.87
1985	0.83	0.68	0.73	0.20	T	0.04	0.45	0.02	0.52	0.19	2.51	0.84	7.01
1986	0.32	0.86	0.39	0.75	1.07	0.12	0.02	0.27	0.81	0.73	0.10	0.07	5.51
1987	0.53	0.51	1.32	0.54	3.38	0.46	0.19	T	T	0.57	0.86	0.68	9.04
1988	1.19	0.22	0.10	1.55	0.46	0.52	0.07	0.17	0.28	0.04	1.62	0.51	6.73
1989	0.19	0.71	0.89	0.21	0.40	0.33	T	0.44	0.93	0.59	0.77	0.10	5.56
1990	0.47	0.45	0.59	1.33	1.22	0.21	0.09	0.97	0.21	0.06	0.17	0.60	6.37
1991	0.35	0.31	1.15	0.47	1.71	0.54	0.10	0.29	0.81	0.63	0.81	0.63	7.80
1992	0.09	0.21	1.02	0.08	0.02	0.43	0.07	0.05	0.07	0.49	0.60	1.01	4.14
1993	2.02	0.50	1.30	0.45	0.68	1.03	0.18	0.04	0.03	0.54	0.16	0.34	7.27
1994	0.43	0.79	0.38	1.44	1.29	0.00	0.38	0.02	0.21	0.44	1.68	0.52	7.58
1995	1.32	0.26	1.61	1.10	2.23	1.21	0.28	0.00	0.06	T	0.11	1.63	9.81
1996	1.65	1.10	0.91	0.57	1.25	0.44	0.14	0.07	0.57	0.45	0.57	2.98	10.70
1997	1.60	0.08	0.08	1.60	0.48	2.06	0.43	0.01	0.28	0.23	0.78	0.25	7.88
1998	1.60	1.60	1.23	1.44	3.57	0.90	0.06	T	2.80	1.10	0.89	0.42	15.61
1999	1.28	0.77	0.10	0.84	0.36	1.16	0.01	0.16	0.12	0.24	0.21	0.08	5.33
2000	1.31	1.59	0.88	1.08	1.35	0.01	0.05	0.69	0.85	1.71	0.28	0.31	10.11
2001	0.58	0.69	0.26	0.77	0.09	0.03	0.20	0.01	0.22	0.11	0.94	0.94	4.84
2002	0.84	0.89	0.97	0.64	0.43	0.26	T	T	0.24	0.13	1.28	0.39	6.07
2003	1.28	0.39	0.63	1.03	1.72	0.01	0.19	0.09	0.38	0.09	0.83	1.78	8.42
2004	0.52	1.05	0.03	0.28	0.74	0.23	0.10	0.12	0.20	1.58	1.28	0.56	6.69
2005	1.04	0.50	1.54	0.37	2.09	0.50	T	T	0.31	0.87	0.62	2.26	10.10
2006	1.73	0.25	1.22	2.82	0.69	0.54	0.07	T	0.05	0.35	0.94	0.59	9.25
2007	0.26	1.49	0.13	1.06	0.55	0.27	0.06	0.03	0.23	0.81	0.58	0.67	6.14
2008	0.67	0.73	0.29	0.31	1.09	0.37	0.34	0.01	0.02	0.22	0.43	1.09	5.57
2009	1.11	0.26	0.69	0.97	0.62	1.34	0.35	0.17	0.02	0.48	0.41	0.85	7.27
2010	0.87	0.41	1.13	1.84	1.72	T	0.18	0.21	0.22	2.72	1.37	1.59	12.26
2011	0.28	1.35	2.06	1.95	1.45	0.66	0.11	0.01	0.15	0.66	0.50	0.01	9.19
2012	0.75	0.54	1.00	0.66	0.13	0.14	0.03	0.13	0.03	0.53	0.19	1.69	5.82
POR= 63 YRS	0.87	0.67	0.78	0.85	0.94	0.75	0.22	0.29	0.40	0.63	0.82	0.89	8.11

WBAN : 24128

AVERAGE TEMPERATURE (°F) 2012 WINNEMUCCA (KWMC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	34.3	39.0	41.7	42.7	53.3	62.0	67.2	70.6	59.8	50.2	38.6	31.5	49.2
1984	24.2	34.3	40.3	42.6	55.1	59.0	71.7	71.5	60.0	43.9	38.3	26.4	47.3
1985	19.1	27.2	36.9	48.9	54.7	68.0	74.7	66.9	55.1	44.9	28.0	26.7	45.9
1986	38.7	41.1	45.8	46.7	53.7	68.4	69.8	72.9	54.4	49.0	38.3	29.0	50.7
1987	26.7	34.5	40.2	51.3	58.4	66.7	67.9	70.3	62.4	53.1	39.1	28.8	50.0
1988	27.5	37.1	40.0	48.9	53.8	66.7	75.7	70.7	58.9	55.0	38.4	27.8	50.0
1989	22.0	27.3	43.8	50.7	54.4	65.7	73.1	67.1	60.2	48.0	37.4	30.2	48.3
1990	31.7	29.6	42.6	52.7	53.0	64.2	73.9	70.2	65.4	49.7	35.3	16.6	48.7
1991	26.2	40.3	39.1	43.2	50.1	61.2	74.8	71.1	63.3	50.8	38.9	29.2	49.0
1992	31.6	40.0	44.4	52.2	62.6	65.7	70.5	71.9	61.3	50.6	34.8	26.1	51.0
1993	20.8	29.4	46.5	46.8	59.3	60.0	65.3	67.2	61.0	50.2	30.7	30.6	47.3
1994	31.6	33.6	44.3	49.1	58.4	66.5	76.3	71.2	62.0	46.5	30.9	29.5	50.0
1995	37.1	41.9	40.4	43.9	51.4	59.3	69.9	68.3	61.2	48.0	42.8	33.7	49.8
1996	33.5	36.0	41.2	46.7	54.1	64.3	75.0	70.4	57.4	47.5	39.1	33.9	49.9
1997	31.5	34.4	42.9	44.7	59.4	62.2	69.4	69.5	61.8	47.1	39.4	28.2	49.2
1998	36.5	35.6	39.2	43.9	49.0	59.1	73.6	70.8	62.7	45.3	38.9	24.8	48.3
1999	33.0	36.5	39.3	42.8	52.5	62.5	70.0	67.9	60.6	49.0	41.6	28.8	48.7
2000	33.2	39.1	40.4	50.4	55.9	66.7	70.3	70.4	58.9	47.2	32.0	30.5	49.6
2001	27.1	32.2	43.2	43.7	61.5	65.6	71.8	72.5	62.6	50.8	39.2	31.8	50.2
2002	30.4	36.0	37.4	47.6	53.6	66.5	75.9	67.8	60.3	44.5	37.0	34.7	49.3
2003	40.2	32.6	42.1	44.4	55.4	67.4	75.6	71.5	61.3	52.4	34.1	33.8	50.9
2004	28.6	33.3	46.5	49.5	55.2	65.9	74.2	70.0	58.8	47.3	36.0	31.1	49.7
2005	23.7	32.5	41.8	45.7	55.0	59.7	74.9	70.5	56.1	48.0	38.5	32.0	48.2
2006	34.0	33.5	36.0	47.2	56.1	67.2	75.9	68.0	59.0	45.3	36.8	25.9	48.7
2007	22.7	36.6	44.9	47.0	56.4	66.0	76.9	70.9	58.7	46.4	36.8	28.2	49.3
2008	27.4	36.2	38.2	43.4	54.5	63.8	73.1	72.3	61.0	48.6	40.9	25.6	48.8
2009	32.6	36.6	39.4	44.5	60.7	63.1	73.4	69.5	64.3	45.5	36.3	22.7	49.1
2010	34.8	36.7	39.4	43.6	47.5	63.3	73.1	67.4	59.7	51.9	34.2	35.4	48.9
2011	31.8	31.0	40.2	42.7	49.1	59.6	71.3	70.6	64.1	49.5	34.3	25.2	47.5
2012	31.2	33.1	42.0	48.9	56.4	63.8	74.3	73.1	63.4	49.8	40.4	30.5	50.6
POR= 63 YRS	29.9	35.3	39.9	45.9	54.8	63.7	72.3	69.4	60.0	48.5	37.5	30.0	48.9

HEATING DEGREE DAYS (base 65°F) 2012 WINNEMUCCA (KWMC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	35	6	156	451	785	1032	1257	881	757	662	307	210	6539
1984-85	0	11	185	645	794	1188	1415	1049	863	479	314	49	6992
1985-86	3	39	293	617	1101	1179	809	665	590	542	381	40	6259
1986-87	12	4	345	490	792	1108	1181	849	763	407	221	64	6236
1987-88	47	14	111	364	772	1116	1155	804	769	474	343	94	6063
1988-89	0	4	223	305	792	1146	1328	1051	648	419	336	37	6289
1989-90	3	47	139	523	822	1071	1026	986	690	360	363	92	6122
1990-91	4	38	45	468	887	1498	1195	685	796	647	452	135	6850
1991-92	0	4	93	431	777	1104	1029	717	633	379	106	95	5368
1992-93	13	40	124	438	899	1198	1365	992	567	536	192	183	6547
1993-94	45	40	166	448	1024	1061	1027	875	636	472	209	59	6062
1994-95	0	2	101	565	1016	1094	854	640	756	625	413	195	6261
1995-96	18	22	137	518	656	960	968	837	728	538	331	84	5797
1996-97	2	12	235	536	769	959	1032	850	675	602	183	106	5961
1997-98	16	7	132	550	761	1136	875	816	793	623	490	176	6375
1998-99	0	5	134	606	775	1240	985	794	790	660	391	147	6527
1999-00	4	35	137	490	696	1115	978	744	755	430	285	38	5707
2000-01	14	4	198	543	982	1062	1168	913	667	633	136	78	6398
2001-02	4	0	104	432	767	1021	1064	806	850	517	367	74	6006
2002-03	0	27	161	627	832	936	763	902	700	611	324	38	5921
2003-04	0	2	137	384	923	959	1121	914	568	459	301	60	5828
2004-05	0	27	199	542	863	1041	1275	905	713	571	308	176	6620
2005-06	0	12	262	521	787	1014	957	879	890	530	285	38	6175
2006-07	0	19	217	604	839	1206	1306	797	600	534	263	73	6458
2007-08	0	2	216	569	840	1135	1161	832	825	643	333	122	6678
2008-09	0	4	133	505	716	1215	1001	788	787	608	161	101	6019
2009-10	8	37	73	599	854	1304	932	786	786	633	538	113	6663
2010-11	12	54	168	405	918	910	1018	944	766	662	483	183	6523
2011-12	0	2	60	474	914	1227	1041	920	706	477	262	114	6197
2012-	0	0	78	461	733	1064							

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COOLING DEGREE DAYS (base 65°F) 2012 WINNEMUCCA (KWMC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1983	0	0	0	0	21	21	108	189	10	0	0	0	349
1984	0	0	0	0	8	37	217	218	40	0	0	0	520
1985	0	0	0	0	3	148	311	105	3	0	0	0	570
1986	0	0	0	0	37	147	166	254	32	0	0	0	636
1987	0	0	0	3	26	123	144	185	41	0	0	0	522
1988	0	0	0	0	5	152	337	187	48	0	0	0	729
1989	0	0	0	0	13	66	264	118	1	0	0	0	462
1990	0	0	0	0	0	74	290	205	62	0	0	0	631
1991	0	0	0	0	0	26	310	200	49	0	0	0	585
1992	0	0	0	1	39	121	194	258	20	2	0	0	635
1993	0	0	0	0	24	39	60	116	50	0	0	0	289
1994	0	0	0	0	13	111	359	203	19	0	0	0	705
1995	0	0	0	0	0	32	181	133	31	0	0	0	377
1996	0	0	0	0	2	68	320	189	12	1	0	0	592
1997	0	0	0	0	16	27	160	154	39	1	0	0	397
1998	0	0	0	0	0	7	274	195	72	0	0	0	548
1999	0	0	0	0	11	79	167	129	11	0	0	0	397
2000	0	0	0	0	11	94	187	181	21	0	0	0	494
2001	0	0	0	0	35	101	224	240	39	0	0	0	639
2002	0	0	0	0	22	126	345	118	28	0	0	0	639
2003	0	0	0	0	33	119	334	210	33	2	0	0	731
2004	0	0	0	0	4	93	293	188	18	0	0	0	596
2005	0	0	0	0	2	26	314	190	2	0	0	0	534
2006	0	0	0	0	14	111	346	120	42	0	0	0	633
2007	0	0	0	0	4	109	374	195	33	0	0	0	715
2008	0	0	0	0	16	94	259	237	21	0	0	0	627
2009	0	0	0	0	35	52	277	183	62	0	0	0	609
2010	0	0	0	0	0	70	272	138	16	9	0	0	505
2011	0	0	0	0	0	25	201	182	39	2	0	0	449
2012	0	0	0	3	3	85	296	259	35	0	0	0	681

SNOWFALL (inches) 2012 WINNEMUCCA (KWMC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0.0	0.0	0.0	0.0	2.2	14.6	1.4	2.4	5.5	2.1	T	0.0	28.2
1984-85	0.0	0.0	0.0	7.4	2.6	3.9	8.8	7.2	5.8	0.4	T	0.0	36.1
1985-86	0.0	0.0	T	T	19.6	0.8	0.3	2.0	1.8	0.4	1.3	0.0	26.2
1986-87	0.0	0.0	1.0	0.0	0.8	T	2.7	5.1	6.0	0.1	0.0	0.0	15.7
1987-88	0.0	0.0	0.0	0.0	0.8	3.4		T					
1988-89						7.1	2.8	8.4	0.5	1.9	0.0	T	
1989-90	0.0	0.0	0.0	0.1	1.6	T	3.3	11.7	0.3	T	T	0.0	17.0
1990-91	0.0	T	0.0	0.0	2.0	8.0	3.7	T	8.6	0.7	T	T	23.0
1991-92	0.0	0.0	0.0	2.3	1.7	1.5	0.9	0.3	0.3	0.0	0.0	0.0	7.0
1992-93	0.0	0.0	0.0	0.0	0.4	6.8	19.2	7.8	T	0.7	T	0.0	34.9
1993-94	0.0	0.0	0.0	0.0	1.0	4.1	4.1	5.9	T	2.1	T	0.0	17.2
1994-95	0.0	0.0	0.0	T	3.0	7.5	2.5	1.0	4.4	0.0	0.0	0.2	18.6
1995-96	0.0	0.0	0.0		0.0								
1996-97													
1997-98													
1998-99											T	0.0	
1999-00	0.0	0.0	0.0	0.0	T	T	5.3	1.8	3.4	T	T	0.0	10.5
2000-01	0.0	0.0	0.0	T	1.0	1.0	2.5	6.2	0.5	4.7	0.0	0.0	15.9
2001-02	0.0	0.0	0.0	0.0	8.0	4.4	1.6	0.1	3.5	0.7	T	0.0	18.3
2002-03	0.0	0.0	0.0	0.0	T	1.3	0.0	0.3	0.2	2.4	0.7	0.0	4.9
2003-04	0.0	0.0	0.0	0.1	2.7	10.7	4.8	9.5	T	T	0.0	0.0	27.8
2004-05	0.0	0.0	0.0	2.6	3.3	5.9	10.2	1.1	2.5	T	0.0	0.0	25.6
2005-06	0.0	0.0	0.0	T	3.8	7.3	4.8	0.4	3.2	3.3	0.0	0.0	22.8
2006-07	0.0	0.0	0.0	0.0	2.7	2.7	2.0	5.2	T	6.5	T	0.0	19.1
2007-08	0.0	0.0	0.0	T	0.3	4.7	8.1		1.5	1.9	0.0	0.0	
2008-09	0.0	0.0	0.0	0.2	T	20.4	1.8	3.0	6.9	3.6	0.0	0.0	35.9
2009-10	0.0	0.0	0.0	T	0.5	9.3	2.5	0.8	7.0	5.6	0.5	0.0	26.2
2010-11	0.0	0.0	0.0	T	10.2	3.2	1.1	14.3	2.7	5.8	T	0.0	37.3
2011-12	0.0	0.0	0.0	0.0	6.5	0.1	5.2	5.1	6.6	T	0.0	T	23.5
2012-	0.0	0.0	0.0	1.3	T	13.5							
POR= 61 YRS	0.0	T	T	0.4	2.3	4.9	4.6	3.6	3.7	2.2	0.4	T	22.1

WBAN : 24128

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.
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
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.
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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.
STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED SATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:
http://www.ncdc.noaa.gov/homr/
SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

The 2012 Annual Publications were reproduced on 6/05/13 to correct two problems that occurred when the Publications were first produced on 02/28/13.

1) A small number of stations did not correctly show number of days with thunderstorms and heavy fog.
2) Climate Normals in the Annual Publications were based on a first edition of the 1981-2010 Normals release. With the release of Service Pack 1 (SP1) new normals for 83 stations are available and now included. Additional information on SP1 is available at: http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt.

2012
WINNEMUCCA
NEVADA (KWMC)

Winnemucca 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, Winnemucca is situated in the valley of the Humboldt River, one of the longest rivers in the Great Basin. Two other prominent valleys, Grass Valley and Paradise Valley, branch off from the Humboldt River Valley immediately southwest and northeast of downtown, respectively. The elevation at Winnemucca Municipal Airport, which serves as the official weather station in Winnemucca and is located about 6 miles southwest of downtown where Grass Valley joins the Humboldt River Valley, is 4,314 feet. To the immediate northwest of Winnemucca are the Krum Hills, a range of large hills and small mountains. This range reaches a local maximum elevation of 6,736 feet atop Winnemucca Mountain, which is located 3 miles northwest of downtown Winnemucca. The more prominent Sonoma Range is located just southeast of Winnemucca. This range includes a much higher maximum elevation of 9,396 feet atop Sonoma Peak, which is located approximately 10 miles southeast of downtown Winnemucca. A third mountain range, the East Range, is located southwest of downtown Winnemucca on the far side of Grass Valley.

The climate of Winnemucca is most simply described as being a high desert type. High temperatures are hot in the summer, with values usually 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 often 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 Winnemuccas high elevation, location in a valley, and generally low humidity. It is also one reason why the growing season is usually quite short, with an average length of about 95 days each year. The last freezing temperature in the spring typically occurs in early June, with the first freezing temperature of fall usually happening in 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 Winnemucca 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 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 usually the cause of the several wildfires which occur across northwestern Nevada each summer. Snowfall is generally light and does not usually persist on the ground for very long; however, its presence can aid in the formation of fog during the winter months. Heavy snowfalls of 6 inches or greater usually occur once every other year. Freezing rain and ice pellets are extremely rare, though graupel sometimes occurs especially in the spring.

Winds are typically diurnally influenced, with a southwesterly up-valley wind common during the afternoon. At the airport, either south-southeasterly or northeasterly down-valley winds can occur during the early morning, due to its location at the junction of the Humboldt River and Grass valleys. Strong damaging winds usually occur either ahead of or during the passage of a strong cold front, or during thunderstorms. However, Winnemuccas 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 Winnemucca, with only one or two occurrences in a given year on average. Dust storms often occur when strong southwesterly winds ahead of a cold front affect the 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 early summer it is not uncommon for days to start out clear and then become cloudy by days end due to convection.

The economy of Winnemucca is based primarily upon mining, ranching, hay farming, gambling and tourism. The citys location along the historic California Trail and later the First Transcontinental Railroad ensured that travel services were also a significant economic engine. Today, Interstate 80 and US Highway 95 help maintain the need for said services. Weather rarely affects any of these activities for more than a few days.

Station History

WINNEMUCCA, NV

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
WINNEMUCCA MUNICIPAL AIRPORT	1985-05-08	1993-09-21	40° 54'	-117° 48'	4301	.3 MI NW	COOP,USHCN
WINNEMUCCA MUNICIPAL AIRPORT	1993-09-21	1994-10-01	40° 54'	-117° 48'	4301		COOP,USHCN
WINNEMUCCA MUNICIPAL AIRPORT	1949-09-15	1969-01-01	40° 54'	-117° 48'	4301		AIRWAYS,COOP,USHCN
WINNEMUCCA MUNICIPAL AIRPORT	1994-10-01	1996-07-01	40° 54'	-117° 48'	4297	.4 MI W	ASOS,COOP,USHCN
WINNEMUCCA MUNICIPAL AIRPORT	2002-01-22	2008-02-11	40° 54'	-117° 48'	4296		ASOS,COOP,USHCN
WINNEMUCCA MUNICIPAL AIRPORT	1996-07-01	2002-01-22	40° 54'	-117° 48'	4297		ASOS,COOP,USHCN
WINNEMUCCA MUNICIPAL AIRPORT	2008-02-11	2010-09-18	40° 54'	-117° 48'	4296		ASOS,COOP,USHCN
WINNEMUCCA MUNICIPAL AIRPORT	1969-01-01	1981-12-31	40° 54'	-117° 48'	4301		COOP,USHCN,WXSVC
WINNEMUCCA MUNICIPAL AIRPORT	1981-12-31	1985-05-08	40° 54'	-117° 48'	4301		COOP,USHCN
WINNEMUCCA MUNICIPAL AIRPORT	2010-09-18	Present	40° 54'	-117° 48'	4296		AIRWAYS,ASOS,COOP,USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1949-09-15	1993-09-21	DAILY	2400			
TEMP	1993-09-21	1994-10-01	DAILY	2400	HYGR		
PRECIP	1993-09-21	1994-10-01	DAILY	2400	UNIV	RCRD	
PRECIP	1949-09-15	1993-09-21	HOURLY	2400	UNIV	RCRD	
PRECIP	1994-10-01	2008-02-11	HOURLY	2400	TB	RCRD	
PRECIP	1993-09-21	1994-10-01	HOURLY	2400	UNIV	RCRD	
TEMP	2008-02-11	2010-09-18	DAILY	VAR	ATEMP		
PRECIP	2010-09-18	2011-01-19	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2010-09-18	2011-01-19	DAILY	VAR	PCPN1		
TEMP	2011-01-19	Present	DAILY	VAR	ATEMP		
PRECIP	1949-09-15	1993-09-21	DAILY	2400	UNIV	RCRD	
PRECIP	1994-10-01	2008-02-11	DAILY	2400	TB	RCRD	
TEMP	2010-09-18	2011-01-19	DAILY	2400	ATEMP		
PRECIP	2011-01-19	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2011-01-19	Present	DAILY	2400	PCPNX		
TEMP	1994-10-01	2008-02-11	DAILY	2400	HYGR		
PRECIP	2008-02-11	2010-09-18	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2008-02-11	2010-09-18	DAILY	2400	ATEMP		
PRECIP	2008-02-11	2010-09-18	DAILY	2400	PCPN1		
PRECIP	2010-09-18	2011-01-19	DAILY	2400	PCPN1		
TEMP	2010-09-18	2011-01-19	DAILY	VAR	ATEMP		
TEMP	2011-01-19	Present	DAILY	2400	ATEMP		
PRECIP	2011-01-19	2011-12-30	DAILY	VAR	PCPNX		

* For explanation of codes and abbrevitions 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

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2
Fax Number : (828) 271-4876
TDD : (828) 271-4010
Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001