

2003

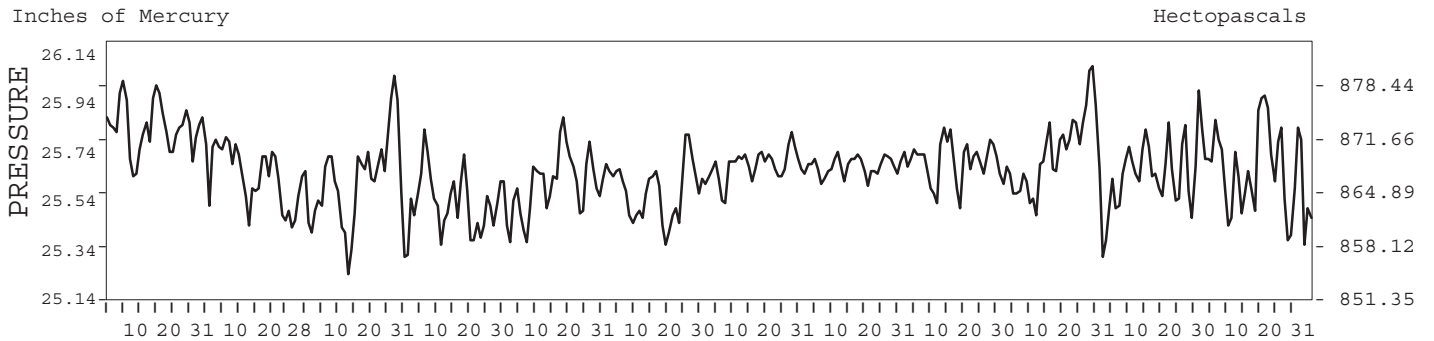
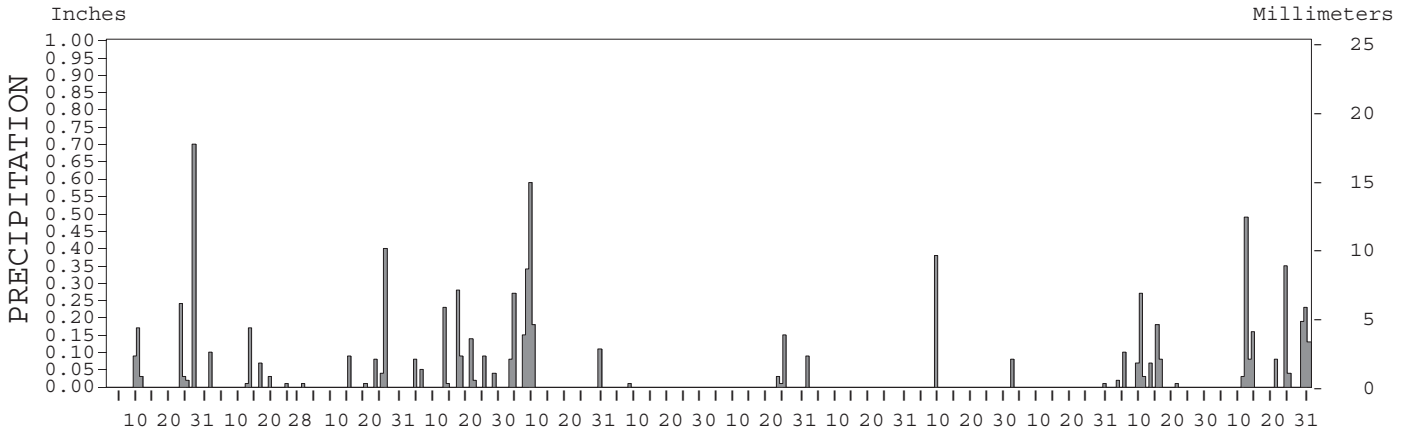
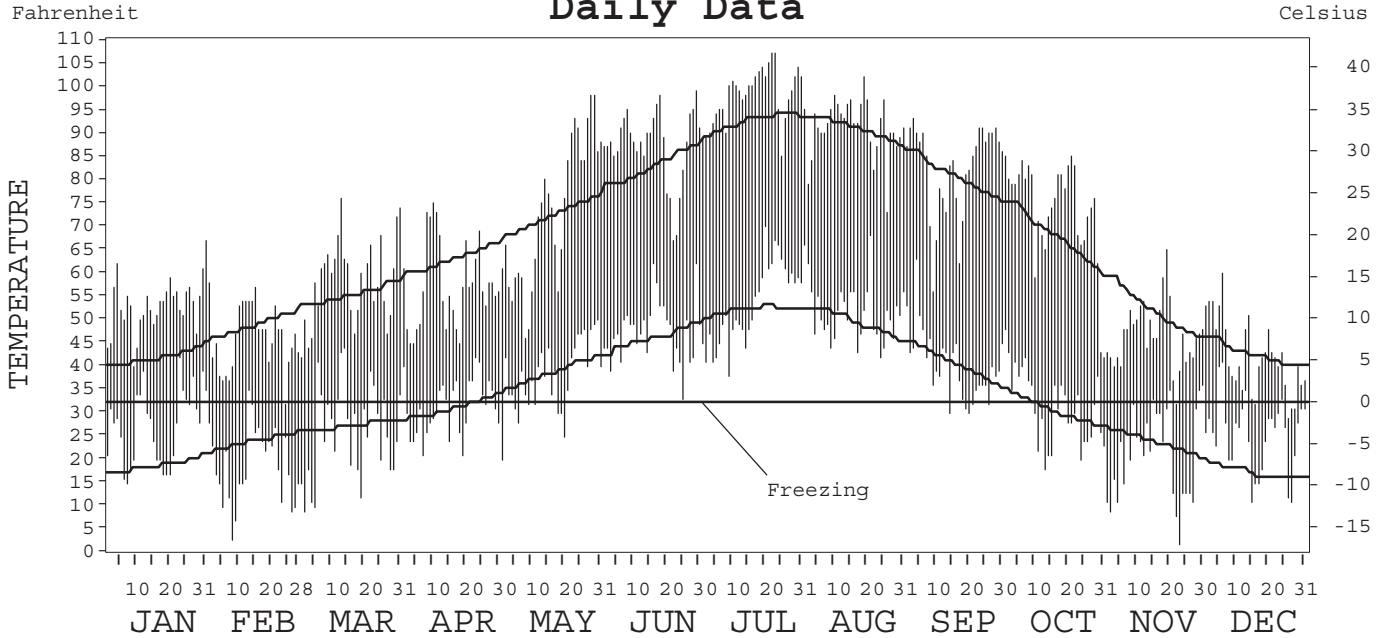
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3342

WINNEMUCCA,
NEVADA (WMC)

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
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METEOROLOGICAL DATA FOR 2003

WINNEMUCCA, NV (WMC)

LATITUDE: 40° 54' 07" N LONGITUDE: 117° 48' 26" W ELEVATION (FT): GRND: 4297 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	53.0	46.2	58.2	57.4	72.9	87.3	97.9	91.3	82.3	73.5	46.7	42.1	67.4	
	HIGHEST DAILY MAXIMUM	67	58	76	75	98	99	107	102	93	85	65	60	107	
	DATE OF OCCURRENCE	31	01	13	10	29+	29	23+	19	03	21+	19	06	JUL 23+	
	MEAN DAILY MINIMUM	27.3	18.9	26.0	31.3	37.9	47.4	53.2	51.7	40.3	31.3	21.4	25.5	34.3	
	LOWEST DAILY MINIMUM	15	3	9	21	20	33	38	42	30	18	2	11	2	
	DATE OF OCCURRENCE	07	08	02	19+	01	25	09	24	20+	13	23	27+	NOV 23	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	35.9	28.0	35.0		45.9	52.2	58.5		46.5			30.8		
	MEAN DEW POINT	31.4	20.2	23.6		35.1	36.6	43.4		30.0			26.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	6	13	28	23	9	0	0	0	0	79
	MAXIMUM ≤ 32°	0	1	0	0	0	0	0	0	0	0	1	4	6	
MINIMUM ≤ 32°	22	27	22	17	8	0	0	0	5	17	26	27	171		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	763	902	700	611	324	38	0	2	137	384	923	959	5743	
	COOLING DEGREE DAYS	0	0	0	0	33	119	334	210	33	2	0	0	731	
RH	MEAN (PERCENT)	76	64	50	59	50	31	30	35	34	36	69	77	51	
	HOUR 04 LST	87	78	71	74	74	49	45	51	54	50	80	80	66	
	HOUR 10 LST	72	56	45	52	39	25	25	30	26	29	65	74	45	
	HOUR 16 LST	57	42	31	40	35	23	24	26	20	20	52	70	37	
	HOUR 22 LST	82	70	52	67	57	31	30	36	36	38	74	83	55	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	1	0	1	0	0	0	0	0	0	2	1	6	
	THUNDERSTORMS	0	0	0	1	4	2	4	4	2	1	0	0	18	
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.)	25.84	25.64	25.63	25.53	25.60	25.58	25.68	25.68	25.70	25.71	25.68	25.66	25.66	
	MEAN SEA-LEVEL PRESS. (IN.)		30.07	30.00		29.92	29.84						30.09		
WINDS	RESULTANT SPEED (MPH)	1.6	0.7	4.2		1.3	2.4	1.4		0.3	0.6				
	RES. DIR. (TENS OF DEGS.)	14	02	24		28	32	17		36	01				
	MEAN SPEED (MPH)	5.6	7.6	8.9	8.0	7.5	8.1	7.4	7.2	6.5	6.4	7.3	7.9	7.4	
	PREVAIL. DIR. (TENS OF DEGS.)	19	05	18	27	28	28	27	28	16	14	18	18	18	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	22	35	37	33	36	33	37	33	32	29	26	39	39	
	DIR. (TENS OF DEGS.)	35	24	25	28	08	25	20	28	22	36	36	22	22	
	DATE OF OCCURRENCE	05	16	22	02	23	12	23	22	04	29	20+	14	DEC 14	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	25	43	45	59	45	46	44	39	38	35	32	52	59	
DIR. (TENS OF DEGS.)	36	24	25	24	10	25	20	22	24	24	24	22	24		
DATE OF OCCURRENCE	05	16	22	02	23	12	23	31+	04	09	16+	14	APR 02		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.70	0.18	0.44	0.28	0.59	0.01	0.16	0.09	0.38	0.08	0.27	0.57	0.70	
	DATE OF OCCURRENCE	27	12-13	25-26	17	09	08	24-25	01	09	02	10	12-13	JAN 27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	6	6	10	7	1	3	1	1	2	9	10	63	
PRECIPITATION ≥ 0.10	3	2	1	3	6	0	1	0	1	0	3	6	26		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	0.0	0.3	0.2	2.4	0.7	0.0	0.0	0.0	0.0	0.1	2.7	10.7	17.1	
	GREATEST 24-HOUR (IN.)	0.0	0.2	0.2	1.0	0.7	0.0	0.0	0.0	0.0	0.1	1.4	3.2	3.2	
	DATE OF OCCURRENCE		19	01	04	09					30	05	12	DEC 12	
	MAXIMUM SNOW DEPTH (IN.)	0	T	0	T	1	0	0	0	0	0	1	3	3	
	DATE OF OCCURRENCE		25		05+	09						05	29	DEC 29	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	0	0	0	1	0	0	0	0	0	0	1	5	7		

NORMALS, MEANS, AND EXTREMES

WINNEMUCCA, NV (WMC)

LATITUDE: 40° 54' 07" N LONGITUDE: 117° 48' 26" W ELEVATION (FT): GRND: 4297 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	48.5	55.1	62.6	72.0	82.7	92.2	90.6	80.4	67.3	51.4	42.2	65.6
	MEAN DAILY MAXIMUM	54	42.3	48.4	54.4	62.2	72.1	82.3	92.5	90.4	80.7	68.2	52.3	43.0	65.7
	HIGHEST DAILY MAXIMUM	54	68	74	81	90	98	106	109	108	103	91	77	67	109
	YEAR OF OCCURRENCE		1971	1986	1972	1981	2003	1988	2002	1983	1950	1996	1980	1980	JUL 2002
	MEAN OF EXTREME MAXS.	55	57.4	62.9	70.5	79.1	89.5	97.2	101.8	100.4	94.2	84.3	68.7	58.0	80.3
	NORMAL DAILY MINIMUM	30	18.5	23.6	27.0	30.7	38.4	45.8	51.8	49.2	40.2	30.2	23.3	17.0	33.0
	MEAN DAILY MINIMUM	54	17.8	22.5	25.0	29.7	37.6	45.1	51.3	48.2	39.2	29.1	22.4	17.5	32.1
	LOWEST DAILY MINIMUM	54	-24	-28	-3	6	10	23	29	28	12	-2	-8	-37	-37
	YEAR OF OCCURRENCE		1963	1985	1971	1972	2002	2001	1983	1992	1958	2002	1985	1990	DEC 1990
	MEAN OF EXTREME MINS.	55	-2.4	4.5	10.1	15.8	23.0	31.1	38.5	35.7	25.0	14.7	5.7	-2.4	16.6
	NORMAL DRY BULB	30	30.1	36.1	41.1	46.7	55.2	64.3	72.0	69.9	60.3	48.8	37.4	29.6	49.3
	MEAN DRY BULB	55	29.9	35.4	39.8	46.0	54.9	63.9	72.0	69.2	59.9	48.6	37.4	30.3	48.9
	MEAN WET BULB	51	27.2	31.0	33.0	36.9	44.0	49.9	53.8	51.8	45.7	38.0	31.9	26.6	39.1
	MEAN DEW POINT	51	21.6	23.7	23.5	24.3	30.3	35.2	36.1	34.3	30.3	25.7	23.9	20.1	27.4
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	*	1.4	9.8	22.3	20.1	6.2	0.2	0.0	0.0	60.0	
MAXIMUM ≤ 32°	30	5.6	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.4	12.4	
MINIMUM ≤ 32°	30	27.9	24.1	23.9	18.2	7.4	1.1	0.1	0.1	5.4	19.6	25.3	28.3	181.4	
MINIMUM ≤ 0°	30	2.7	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.7	6.7	
H/C	NORMAL HEATING DEG. DAYS	30	1088	820	742	554	315	105	12	23	173	509	829	1101	6271
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	11	81	232	174	28	0	0	0	526
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	22	23	30	40	57	66	43
	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	42	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)	53	1.8	0.5	0.5	0.2	0.0	0.1	0.0	0.0	0.0	0.2	0.5	1.2	5.0
	THUNDERSTORMS	53	0.0	0.2	0.5	0.8	2.5	2.7	3.1	3.2	1.9	0.5	0.1	0.1	15.6
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1		3.2	6.4		4.8	2.4							
	MIDNIGHT-MIDNIGHT (OKTAS)	1			7.2		4.8	2.4				0.8			
	MEAN NO. DAYS WITH:														
CLEAR	1		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	25.70	25.67	25.60	25.62	25.60	25.62	25.65	25.66	25.67	25.71	25.71	25.74	25.66
	MEAN SEA-LEVEL PRES. (IN)	49	30.17	30.09	30.00	29.97	29.91	29.89	29.90	29.91	29.97	30.08	30.12	30.17	30.01
WINDS	MEAN SPEED (MPH)	23	7.2	8.1	8.3	8.7	8.6	8.6	8.2	7.8	7.6	7.2	7.1	7.3	7.9
	PREVAIL. DIR (TENS OF DEGS)	9	18	18	18	27	27	27	27	27	05	16	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	43	48	40	41	37	45	46	51	40	48	48	48	51
	DIR. (TENS OF DEGS)		23	25	18	27	28	24	15	24	24	29	22	20	24
	YEAR OF OCCURRENCE		1996	1999	1995	1997	2000	1997	2001	1996	1995	1996	1998	1995	AUG 1996
	MAXIMUM 5-SECOND:														
SPEED (MPH)	9	53	55	48	59	47	52	55	58	53	54	60	63	63	
DIR. (TENS OF DEGS)		22	22	32	24	29	25	24	24	23	28	21	20	20	
YEAR OF OCCURRENCE		1996	2000	2002	2003	1997	1997	2001	1996	1995	1996	1998	1995	DEC 1995	
PRECIPITATION	NORMAL (IN)	30	0.83	0.62	0.86	0.85	1.06	0.69	0.27	0.35	0.53	0.66	0.80	0.81	8.33
	MAXIMUM MONTHLY (IN)	54	2.70	2.17	1.66	2.92	3.57	2.86	1.74	1.74	2.80	2.19	2.66	3.66	3.66
	YEAR OF OCCURRENCE		1956	1962	1952	1978	1998	1988	1984	1979	1998	1951	1950	1983	DEC 1983
	MINIMUM MONTHLY (IN)	54	0.04	0.08	0.06	0.06	T	0.00	0.00	0.00	0.00	T	T	0.03	0.00
	YEAR OF OCCURRENCE		1966	1967	1959	1959	1985	1994	1963	1969	1974	1995	1959	1976	JUN 1994
	MAXIMUM IN 24 HOURS (IN)	54	0.74	0.74	0.67	1.01	1.70	1.79	0.86	0.79	1.30	1.64	1.58	0.95	1.79
	YEAR OF OCCURRENCE		1980	2002	1979	1958	1987	1958	1984	1990	1998	1951	1950	1996	JUN 1958
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	8.3	7.5	8.3	7.4	6.9	4.3	2.3	2.7	3.6	4.7	7.6	7.6	71.2	
PRECIPITATION ≥ 1.00	30	0.0	0.0	0.0	0.0	*	0.1	0.0	0.0	*	0.0	0.0	0.0	0.1	
SNOWFALL	NORMAL (IN)	30	4.7	3.9	3.9	1.6	0.4	0.*	0.0	0.0	0.*	0.4	2.4	4.2	21.5
	MAXIMUM MONTHLY (IN)	49	19.2	13.8	23.4	12.0	5.4	0.2	0.0	T	1.0	7.4	19.6	17.5	23.4
	YEAR OF OCCURRENCE		1993	1969	1952	1964	1965	1995		1990	1986	1984	1985	1971	MAR 1952
	MAXIMUM IN 24 HOURS (IN)	48	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)	46	8	9	7	4	3	0	0	T	0	3	7	9	9
	YEAR OF OCCURRENCE		1955	1985	1982	1971	1965			1990		1984	1955	1955	DEC 1955
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.7	1.3	1.3	0.6	0.3	0.0	0.0	0.0	0.0	0.2	1.0	1.6	8.0	

PRECIPITATION (inches) 2003 WINNEMUCCA, NV (WMC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0.67	0.28	1.13	0.69	T	0.00	0.29	0.39	0.00	1.67	0.06	1.15	6.33
1975	1.02	0.85	1.29	0.53	0.68	0.70	0.06	0.79	0.19	1.74	0.47	0.27	8.59
1976	0.41	0.50	0.29	0.82	0.37	1.14	0.36	1.29	1.51	0.43	0.16	0.03	7.31
1977	0.34	0.14	0.37	0.25	1.56	2.36	0.26	0.64	0.22	T	0.75	1.19	8.08
1978	0.88	0.58	1.08	2.92	0.26	0.08	0.17	T	1.12	T	0.62	0.39	8.10
1979	0.86	1.22	0.96	1.04	0.25	0.39	0.74	1.74	T	0.61	0.61	0.31	8.73
1980	1.93	0.44	0.53	0.26	2.05	0.57	0.13	0.23	0.18	0.27	0.52	0.25	7.36
1981	0.44	0.51	0.97	0.19	1.94	T	0.01	0.03	0.23	1.08	1.40	1.64	8.44
1982	0.30	0.14	1.39	0.29	0.18	1.50	0.88	0.15	1.08	1.19	1.41	0.52	9.03
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
POR= 126 YRS	1.00	0.83	0.88	0.86	0.94	0.76	0.24	0.26	0.41	0.67	0.81	0.98	8.64

WBAN : 24128

AVERAGE TEMPERATURE (°F) 2003 WINNEMUCCA, NV (WMC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	30.3	36.0	43.9	45.4	56.9	69.1	71.3	67.1	60.6	48.0	37.9	28.5	49.6
1975	27.4	34.6	40.7	40.4	53.8	61.8	74.0	67.1	63.3	49.6	36.3	34.8	48.7
1976	33.1	39.9	37.7	45.9	60.5	64.7	73.8	65.6	64.0	49.9	41.8	29.1	50.5
1977	26.9	38.5	37.2	50.4	50.4	70.6	73.0	72.4	58.9	50.4	40.5	38.9	50.7
1978	36.0	37.6	46.6	47.4	54.1	62.6	71.7	69.4	57.3	50.5	34.6	26.0	49.5
1979	25.4	35.9	41.8	47.1	59.1	66.5	72.9	69.5	63.2	53.1	35.5	32.9	50.2
1980	32.7	41.8	38.1	49.1	55.7	60.9	73.2	68.0	60.5	49.6	39.2	33.9	50.2
1981	34.6	36.9	38.6	49.2	53.2	65.9	71.4	71.5	63.0	45.5	41.5	37.4	50.7
1982	28.3	35.8	38.5	44.4	54.3	63.0	70.1	70.3	57.0	44.9	33.3	30.7	47.6
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
POR= 123 YRS	28.6	34.4	39.8	46.8	55.0	63.4	71.8	69.5	59.7	48.8	37.8	30.1	48.8

HEATING DEGREE DAYS (base 65°F) 2003 WINNEMUCCA, NV (WMC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	32	41	153	521	806	1127	1156	844	749	730	339	140	6638
1975-76	13	41	69	474	855	925	982	718	841	568	139	71	5696
1976-77	8	45	81	461	691	1104	1176	734	855	430	450	15	6050
1977-78	2	28	203	444	729	798	894	762	566	523	335	96	5380
1978-79	21	53	241	442	907	1202	1221	809	710	532	205	63	6406
1979-80	1	18	75	363	875	988	995	667	827	471	290	162	5732
1980-81	0	23	146	472	766	958	935	779	809	474	365	89	5816
1981-82	2	0	115	600	697	848	1131	811	812	610	327	124	6077
1982-83	29	8	258	618	943	1054	947	721	714	658	377	103	6430
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-	0	2	137	384	923	959							

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COOLING DEGREE DAYS (base 65°F) 2003 WINNEMUCCA, NV (WMC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	0	50	297	113	25	3	0	0	488
1976	0	0	0	0	7	68	287	71	56	0	0	0	489
1977	0	0	0	0	4	188	257	265	27	0	0	0	741
1978	0	0	0	0	5	31	234	197	18	0	0	0	485
1979	0	0	0	0	29	114	256	165	26	3	0	0	593
1980	0	0	0	0	8	48	262	126	19	2	0	0	465
1981	0	0	0	6	5	124	208	208	61	0	0	0	612
1982	0	0	0	0	2	71	195	177	22	0	0	0	467
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
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

SNOWFALL (inches) 2003 WINNEMUCCA, NV (WMC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0.0	0.0	0.0	T	T	5.7	7.0	7.2	4.9	2.9	4.3	0.0	32.0
1975-76	0.0	0.0	0.0	T	3.3	4.1	3.0	1.5	3.7	4.8	0.0	0.0	20.4
1976-77	0.0	0.0	0.0	T	T	0.4	4.5	0.9	4.8	0.7	1.6	0.0	12.9
1977-78	0.0	0.0	T	0.0	3.0	3.6	4.4	3.8	0.0	5.8	1.9	0.0	22.5
1978-79	0.0	0.0	T	0.0	1.8	4.2	5.2	12.1	4.6	1.9	0.1	0.0	29.9
1979-80	0.0	0.0	0.0	0.0	1.6	0.8	2.7	T	0.5	0.4	T	0.0	6.0
1980-81	0.0	0.0	0.0	T	T	0.2	3.7	1.2	1.1	T	T	0.0	6.2
1981-82	0.0	0.0	0.0	T	0.5	3.8	4.6	0.8	15.9	0.9	T	0.0	26.5
1982-83	0.0	0.0	0.0	T	5.8	2.3	9.2	2.1	0.9	1.3	0.3	0.0	21.9
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	T	T	T	T	T	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													
1999-00													
2000-01													
2001-02						4.4	1.6	0.1	3.5	0.7	T	0.0	
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-	0.0	0.0	0.0	0.1	2.7	10.7							
POR= 48 YRS	0.0	T	T	0.4	2.2	4.7	5.0	3.5	4.1	2.2	0.5	T	22.6

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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.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2003
WINNEMUCCA,
NEVADA (WMC)

Winnemucca lies at an elevation about 4300 feet above sea level and is effectively cut off by the Sierra Nevada Mountains from the moisture source of the Pacific Ocean. Winnemucca has a climate marked by warm days, cool nights, and light precipitation. Sixty-six percent of the annual rainfall occurs as rain and snow between December and May. The winter snow pack in the surrounding mountains is generally sufficient for essential summertime irrigation. Reservoirs along the streams hold surplus water for less favorable years. As a result of the characteristic dryness of the climate, the neighboring valleys and hills are covered with sagebrush, and trees are found only along streams and in other places where water is sufficient the year round. Though it is heavier in the mountains, snowfall at Winnemucca itself has had measurable amounts fall in every month except July, August and September. During

the winter months, snow on the ground permits grazing in many desert regions where there is no other source of stock water. Grazing in the summer months is restricted to mountain range tracts where there is sufficient water. Streams in many areas have been stocked with fish and provide good fishing each year.

Temperatures in this plateau area tend to rise sharply right after sunrise and remain comparatively high during the daylight hours, then drop rapidly about sundown. Daily temperature variations of 50 degrees are not uncommon.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 10 and the average last occurrence in the spring is June 8.

STATION LOCATION

WINNEMUCCA, NEVADA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						SEA LEVEL		GROUND									
						GROUND	TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE	RAIN GAUGE		
*NOTE:																	
<u>AIRPORT</u>																	
Municipal Airport	9/15/49	5/01/70	5 mi. SW	40°54'	117°48'	c4301	a20	5	5		3	4	3	b4		a . 34 feet to 4/22/66. b . Commissioned 1200 feet SE of thermometer site 8/8/68. c . 4299 feet to 8/8/68.	
Municipal Airport	5/01/70	5/08/85	30 ft. W	40°54'	117°48'	4301	d20	s4	s4	19	5	5	s4	d4	NA	d . Same site as prior to 5/1/70. s . Standby equipment.	
5330 Jays Road Municipal Airport	5/08/85	10/01/94	Unknown	40°54'	117°48'	4298	33	e6	e6	g22	f5	f5	f5	5	NA	e . Relocated 5/10/85. f . Relocated 5/13/85. g . Relocated 5/15/85.	
Municipal Airport	10/01/94	Present	NA	40°54'	117°48'	h4297									S	ASOS commissioned 10/1/94. h. Ground Elevation	

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* NOTES: For earlier station history see previous edition.