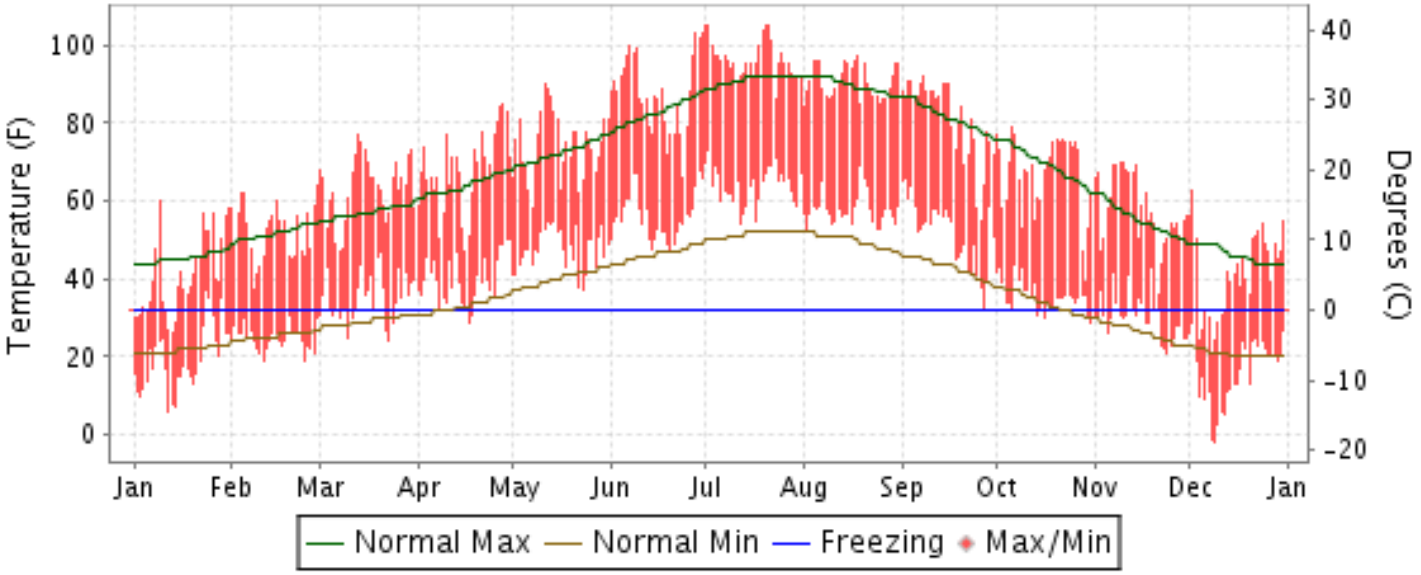
2013
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

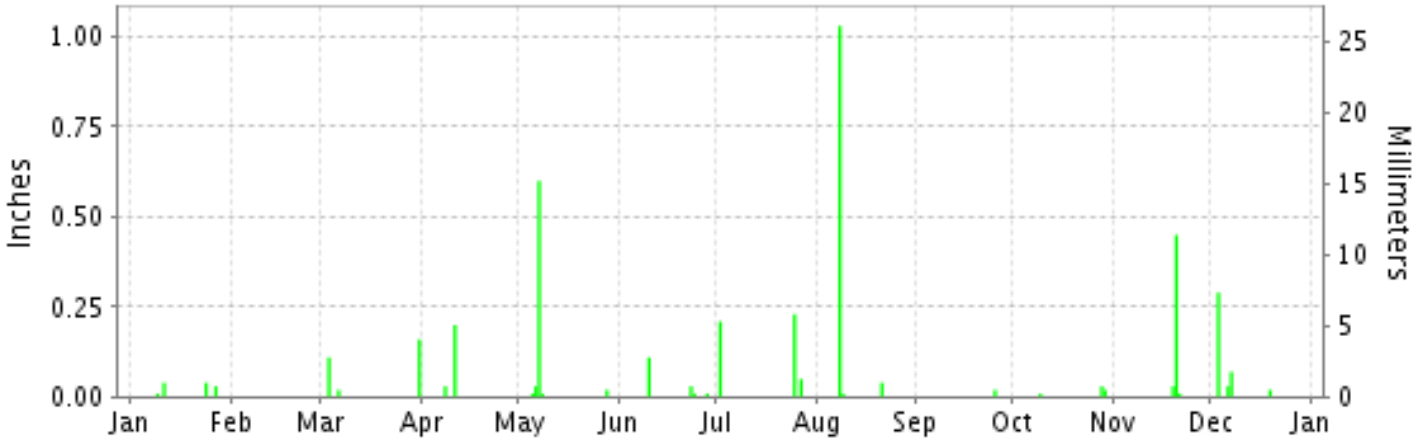
ISSN 0198-3326

RENO,
NEVADA (KRNO)

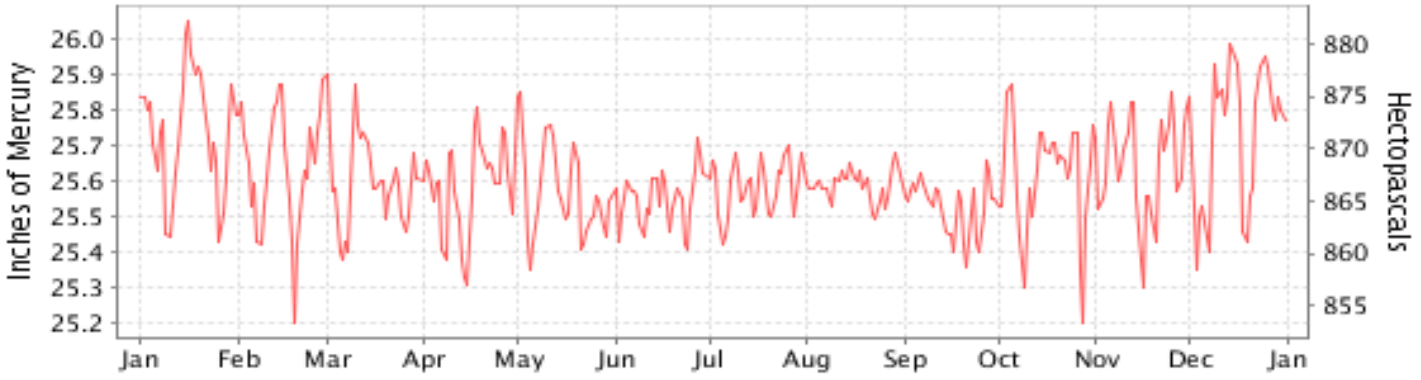
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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Thomas R. Karl

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NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

DIRECTOR NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013
RENO (KRNO)

LATITUDE: 39° 29'N **LONGITUDE:** 119° 46'W **ELEVATION (FT):** GRND: 4410 BARO: 4407 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 23185

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	40.9	52.0	63.4	67.9	74.4	87.6	96.4	90.7	81.2	67.0	57.9	41.3	68.4
	HIGHEST DAILY MAXIMUM	60	64	77	85	90	103	105	97	92	79	70	63	105
	DATE OF OCCURRENCE	09	28	13	28	11	30+	21+	18	08	06	10+	02	JUL 21+
	MEAN DAILY MINIMUM	19.4	24.7	35.4	40.1	47.7	56.0	64.0	57.8	52.1	35.7	30.4	16.1	40.0
	LOWEST DAILY MINIMUM	6	19	24	29	37	47	54	53	33	29	21	-2	-2
	DATE OF OCCURRENCE	12	24+	23	17	23	20	12	25+	27	31	24	09	DEC 09
	AVERAGE DRY BULB	30.2	38.4	49.4	54.0	61.1	71.8	80.2	74.3	66.6	51.3	44.2	28.7	54.2
	MEAN WET BULB	25.1	30.4	38.4	40.8	46.1	52.3	57.3	53.7	50.5	39.4	35.1	24.8	41.2
	MEAN DEW POINT	18.8	18.4	23.9	24.3	29.0	34.2	38.7	35.6	36.0	24.7	23.9	19.0	27.2
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	0	1	11	30	16	7	0	0	0	65
	MAXIMUM <= 32°	8	0	0	0	0	0	0	0	0	0	0	9	17
	MINIMUM <= 32°	28	28	12	2	0	0	0	0	0	5	21	31	127
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	2	2
H/C	HEATING DEGREE DAYS	1071	737	477	328	145	16	0	0	85	416	617	1116	5008
	COOLING DEGREE DAYS	0	0	0	6	30	227	476	294	141	0	0	0	1174
RH	MEAN (PERCENT)	68	49	42	36	35	29	25	28	36	42	51	71	43
	HOUR 04 LST	80	68	60	53	55	47	42	47	53	63	68	84	60
	HOUR 10 LST	66	40	36	27	25	19	16	19	25	32	43	66	35
	HOUR 16 LST	52	31	25	23	22	19	16	15	24	25	34	57	29
	HOUR 22 LST	73	52	43	40	40	32	28	32	41	46	57	79	47
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	6	0	0	0	0	0	0	0	0	0	1	1	8
	THUNDERSTORMS	0	0	1	0	2	3	3	2	3	1	0	0	15
PR	MEAN STATION PRESS. (IN.)	25.74	25.64	25.61	25.59	25.57	25.55	25.58	25.59	25.53	25.61	25.65	25.74	25.62
	MEAN SEA-LEVEL PRESS. (IN.)	30.30	30.14	30.03	30.00	29.94	29.87	29.87	29.90	29.87	30.04	30.12	30.31	30.03
WINDS	RESULTANT SPEED (MPH)	1.1	1.4	2.0	3.8	3.3	2.9	3.8	3.3	2.5	1.4	0.9	0.5	2.0
	RES. DIR. (TENS OF DEGS.)	34	34	28	32	29	28	29	28	27	36	33	33	30
	MEAN SPEED (MPH)	3.0	4.1	5.4	7.8	7.2	6.6	6.5	6.1	6.3	3.9	2.5	2.5	5.2
	PREVAIL.DIR.(TENS OF DEGS.)	35	34	30	29	29	29	29	29	29	04	30	01	29
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	30	37	45	35	45	35	47	38	36	30	26	29	47
	DIR. (TENS OF DEGS.)	30	19	19	27	19	18	18	15	18	02	30	26	18
	DATE OF OCCURRENCE	10	07	06	07	05	28	01	08	17	27	16	02	JUL 01
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	38	46	55	46	52	48	60	51	43	41	33	40	60
	DIR. (TENS OF DEGS.)	19	19	19	28	18	20	33	14	21	22	31	28	33
	DATE OF OCCURRENCE	09	07	06	07	05	18	20	08	21	27	16	02	JUL 20
PRECIPITATION	WATER EQUIVALENT:	0.12	T	0.29	0.23	0.67	0.16	0.49	1.08	0.02	0.06	0.49	0.41	4.02
	TOTAL (IN.)	0.04	T	0.16	0.20	0.61	0.11	0.23	1.03	0.02	0.04	0.45	0.29	1.03
	GREATEST 24-HOUR (IN.)	24+	23+	31	11	07-08	10	25	08	25	28-29	20	03	AUG 08
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	4	0	3	2	5	4	3	3	1	3	3	4	35
	PRECIPITATION 0.01	0	0	2	1	1	1	2	1	0	0	1	1	10
	PRECIPITATION 0.10	0	0	0	0	0	0	0	1	0	0	0	0	1
	PRECIPITATION 1.00													
SNOWFALL	SNOW,ICE PELLETS,HAIL	1.3	T	0.1	T	0.0	0.0	0.0	T	0.0	0.0	0.4	4.3	6.1
	TOTAL (IN.)	0.7	T	0.1	T	0.0	0.0	0.0	T	0.0	0.0	0.4	2.6	2.6
	GREATEST 24-HOUR (IN.)	27	23+	06	16+				08			20	03	DEC 03
	DATE OF OCCURRENCE	2	0	0	0	0	0	0	0	0	0	T	2	2
	MAXIMUM SNOW DEPTH (IN.)	03+										21+	14+	DEC 14+
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	0	0	0	0	0	0	0	0	0	0	0	2	2
	SNOWFALL >= 1.0													

NORMALS, MEANS, AND EXTREMES
RENO (KRNO)

LATITUDE: 39° 29'N **LONGITUDE:** 119° 46'W **ELEVATION (FT):** GRND: 4410 BARO: 4407 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 23185

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	45.7	51.0	57.9	63.9	73.5	83.3	92.2	90.6	82.0	69.2	55.0	45.6	67.5
	MEAN DAILY MAXIMUM	89	45.1	48.7	55.9	62.8	71.9	80.6	90.1	89.1	80.4	68.9	54.7	46.1	66.2
	HIGHEST DAILY MAXIMUM	72	71	75	83	90	97	103	108	105	101	93	77	70	108
	YEAR OF OCCURRENCE		2003	1986	1966	2012	2003	2013	2007	1983	1950	2010	2005	1969	JUL 2007
	MEAN OF EXTREME MAXS.	101	60.9	65.4	71.9	79.8	88.7	96.0	100.3	99.0	93.6	84.5	71.1	61.6	81.1
	NORMAL DAILY MINIMUM	30	25.4	28.9	33.5	37.8	45.5	52.0	57.7	55.8	48.5	38.8	30.5	25.0	40.0
	MEAN DAILY MINIMUM	89	20.8	23.7	28.0	32.0	39.7	45.7	51.5	49.2	42.3	33.7	26.1	21.1	34.5
	LOWEST DAILY MINIMUM	72	-16	-16	-2	13	18	21	33	24	20	8	1	-16	-16
	YEAR OF OCCURRENCE		1949	1989	1945	1956	1964	2005	1976	1962	1965	1971	1958	1972	FEB 1989
	MEAN OF EXTREME MINS.	101	5.9	11.2	16.1	21.5	28.5	35.3	42.3	40.3	32.5	22.3	13.6	6.8	23.0
	NORMAL DRY BULB	30	35.6	39.9	45.7	50.9	59.5	67.7	74.9	73.2	65.2	54.0	42.7	35.3	53.7
	MEAN DRY BULB	89	33.0	36.2	42.0	47.4	55.9	63.3	70.8	69.2	61.4	51.3	40.4	33.6	50.4
	MEAN WET BULB	30	27.6	29.5	32.8	35.7	41.1	46.1	50.4	48.8	44.5	38.7	31.9	27.1	37.9
	MEAN DEW POINT	30	25.1	25.9	27.9	29.8	35.5	39.8	44.3	42.8	38.8	33.2	28.2	24.4	33.0
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	1.2	7.8	21.0	18.0	5.8	0.1	0.0	0.0	53.9
	MAXIMUM <= 32	30	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	4.5
	MINIMUM <= 32	30	25.1	18.5	13.1	5.7	0.7	0.0	0.0	0.0	0.1	5.0	18.2	25.2	111.6
	MINIMUM <= 0	30	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5
H/C	NORMAL HEATING DEG. DAYS	30	913	701	598	426	206	56	5	5	80	346	667	921	4924
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	36	136	314	259	88	5	0	0	839
RH	NORMAL (PERCENT)	30	70	61	53	45	42	38	34	35	42	50	61	68	50
	HOUR 04 LST	30	81	76	71	66	66	62	60	61	66	71	75	79	70
	HOUR 10 LST	30	71	59	48	37	33	29	26	27	33	42	56	67	44
	HOUR 16 LST	30	52	42	34	28	26	22	18	19	22	27	40	48	32
	HOUR 22 LST	30	75	64	56	48	45	39	35	36	44	54	64	72	53
S	PERCENT POSSIBLE SUNSHINE	45	65	68	75	80	81	85	92	92	91	83	70	64	79
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	50	1.8	0.9	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.7	5.3
	THUNDERSTORMS	68	0.0	0.0	0.1	0.4	1.8	2.5	3.3	2.9	1.2	0.5	0.0	0.0	12.7
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR	1	2.0	3.0	4.0		13.0	17.0							
	PARTLY CLOUDY	1	3.0	3.0	3.0		8.0								
	CLOUDY	1	3.0	5.0	5.0		7.0	3.0							
PR	MEAN STATION PRESSURE(IN)	30	25.63	25.51	25.56	25.54	25.53	25.54	25.59	25.59	25.58	25.62	25.64	25.64	25.58
	MEAN SEA-LEVEL PRES. (IN)	30	30.17	30.09	30.00	29.96	29.91	29.88	29.90	29.91	29.94	30.03	30.11	30.16	30.01
WINDS	MEAN SPEED (MPH)	30	4.6	5.7	7.5	8.3	8.2	7.8	7.3	6.6	5.6	5.0	5.2	4.9	6.4
	PREVAIL.DIR(TENS OF DEGS)	34	19	19	28	29	29	29	29	29	29	29	19	19	29
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	18	52	51	51	52	47	45	47	40	45	49	55	67	67
	DIR. (TENS OF DEGS)		17	19	17	24	16	19	18	19	16	19	20	19	19
	YEAR OF OCCURRENCE		2012	2004	2012	2008	2009	2005	2013	1999	2009	2007	2009	2002	DEC 2002
	MAXIMUM 3-SECOND														
	SPEED (MPH)	18	74	66	64	63	58	54	62	51	54	61	71	82	82
	DIR. (TENS OF DEGS)		16	17	18	24	21	18	16	14	17	19	18	16	16
	YEAR OF OCCURRENCE		2012	2011	2012	2008	2011	2005	2007	2013	2009	2007	2009	2002	DEC 2002
PRECIPITATION	NORMAL (IN)	30	1.03	1.02	0.76	0.47	0.49	0.51	0.18	0.23	0.35	0.51	0.82	1.03	7.40
	MAXIMUM MONTHLY (IN)	72	4.13	4.84	2.87	2.04	2.89	1.53	1.06	1.65	2.31	2.65	3.08	5.25	5.25
	YEAR OF OCCURRENCE		1969	1986	1995	1958	1963	1989	1971	1965	1982	2010	1983	1955	DEC 1955
	MINIMUM MONTHLY (IN)	72	T	T	T	T	T	0.00	0.00	0.00	0.00	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1966	2013	1988	2008	1985	1959	1951	1957	1974	1995	1959	1989	OCT 1995
	MAXIMUM IN 24 HOURS (IN)	72	2.37	1.80	1.25	1.64	1.76	1.03	0.80	1.03	0.91	1.55	1.65	2.16	2.37
	YEAR OF OCCURRENCE		1943	1990	2004	1958	1987	2011	1949	2013	1982	1962	1988	1955	JAN 1943
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	6.9	7.0	5.8	4.2	3.7	3.7	1.6	1.8	2.9	3.3	5.0	6.4	52.3
	PRECIPITATION >= 1.00	30	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.7
SNOWFALL	NORMAL (IN)	30	5.6	5.0	2.0	0.5	0.3	0.0	0.0	0.0	0.1	0.3	3.1	4.9	21.8
	MAXIMUM MONTHLY (IN)	64	22.9	23.5	29.0	7.5	14.1	0.2	0.0	T	1.5	5.1	16.5	25.6	29.0
	YEAR OF OCCURRENCE		1993	1969	1952	1958	1964	1995	2011	2013	1982	1971	1985	1971	MAR 1952
	MAXIMUM IN 24 HOURS (IN)	64	12.0	18.0	16.9	7.3	9.0	0.2	0.0	T	1.5	3.7	15.4	16.4	18.0
	YEAR OF OCCURRENCE'		1956	1990	1952	1958	1962	1995		2013	1982	1971	1985	2004	FEB 1990
	MAXIMUM SNOW DEPTH (IN)	57	20	13	10	4	6	0	0	0	1	3	10	16	20
	YEAR OF OCCURRENCE		2005	1990	1952	1975	1971				1982	1984	1985	2004	JAN 2005
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	1.9	1.2	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.1	6.2

PRECIPITATION (inches) 2013 RENO (KRNO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.36	0.22	0.20	0.24	0.06	0.34	0.45	0.02	0.04	0.60	1.68	0.07	4.28
1985	0.24	0.68	1.07	T	T	0.12	T	0.01	0.63	0.46	1.23	0.55	4.99
1986	0.40	4.84	0.88	0.77	0.26	0.31	0.86	0.07	0.28	0.06	0.02	0.19	8.94
1987	0.49	0.78	0.80	0.49	2.29	1.12	0.01	0.01	0.01	0.54	0.37	0.59	7.50
1988	0.50	0.02	T	0.95	0.12	0.59	0.22	0.01	0.04	0.02	1.99	0.84	5.30
1989	0.20	0.80	0.46	0.03	1.33	1.53	0.00	0.82	1.19	0.43	0.55	T	7.34
1990	0.62	1.98	0.07	0.33	0.19	0.03	0.86	0.21	0.31	0.06	0.15	0.45	5.26
1991	0.01	0.21	1.42	0.47	0.50	0.39	0.04	0.24	0.60	0.23	0.89	0.15	5.15
1992	0.13	0.45	0.69	0.06	0.10	1.12	0.15	0.28	T	0.45	0.06	1.87	5.36
1993	2.42	1.27	0.55	0.01	0.27	0.35	T	T	T	1.42	0.13	0.16	6.58
1994	0.06	0.62	1.00	0.03	1.39	0.00	0.09	0.00	0.15	0.23	1.47	0.16	5.20
1995	3.31	0.20	2.87	0.40	1.81	1.29	0.22	T	T	0.00	0.19	2.27	12.56
1996	1.33	2.30	1.63	0.16	1.07	0.71	.20	.16	.45	.28	.89	3.03	12.21
1997	3.32	0.71	0.01	0.22	0.13	1.17	0.04	T	0.55	0.16	0.86	0.58	7.75
1998	1.10	2.59	2.21	0.60	0.82	1.39	T	T	2.17	0.34	0.77	0.04	12.03
1999	0.76	1.25	0.11	0.55	0.20	0.06	0.10	0.82	0.07	0.42	0.01	0.07	4.42
2000	2.14	0.98	0.38	0.34	0.23	0.23	0.00	0.79	0.04	0.04	0.40	0.14	5.71
2001	0.31	0.18	0.15	0.66	T	0.09	0.07	T	0.09	0.14	0.83	1.83	4.35
2002	0.59	0.24	0.42	1.21	0.20	0.10	0.12	0.82	T	0.12	1.08	2.18	7.08
2003	0.17	0.23	0.31	0.83	0.04	0.38	0.23	1.01	0.01	0.03	0.12	1.22	4.58
2004	0.96	1.56	1.26	T	0.32	0.20	T	0.28	0.01	1.58	1.53	1.71	9.41
2005	1.78	0.84	0.42	0.61	0.59	0.37	0.59	0.10	T	0.03	0.18	3.88	9.39
2006	1.60	1.04	0.92	1.88	0.31	T	0.34	T	0.00	0.42	0.25	0.41	7.17
2007	0.13	1.01	0.03	0.18	0.16	0.12	T	0.16	0.44	0.19	0.25	1.06	3.73
2008	2.80	0.78	0.07	T	0.56	T	0.34	T	0.01	0.11	0.92	0.50	6.09
2009	0.51	0.21	1.61	0.35	0.50	1.52	0.01	0.01	T	1.50	0.24	1.79	8.25
2010	0.95	2.18	0.18	0.68	0.30	T	0.34	0.13	0.00	2.65	0.45	1.39	9.25
2011	0.10	1.35	1.28	0.11	0.40	1.35	T	T	0.03	0.24	0.06	0.00	4.92
2012	1.54	0.60	0.11	0.07	0.30	T	0.02	0.01	0.08	0.08	0.85	2.11	5.77
2013	0.12	T	0.29	0.23	0.67	0.16	0.49	1.08	0.02	0.06	0.49	0.41	4.02
POR= 101 YRS	1.23	1.03	0.76	0.44	0.59	0.40	0.27	0.27	0.30	0.42	0.64	1.00	7.35

WBAN : 23185

AVERAGE TEMPERATURE (°F) 2013 RENO (KRNO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	31.9	37.2	44.3	45.8	59.4	61.7	73.4	69.8	63.1	46.2	39.6	30.7	50.3
1985	30.6	37.0	38.7	52.7	56.3	68.6	73.4	68.5	57.4	50.4	34.8	31.2	50.0
1986	40.3	42.8	47.7	49.2	57.4	67.5	69.4	73.0	56.3	50.9	43.0	35.3	52.7
1987	31.6	38.4	43.4	54.8	59.7	67.9	68.2	71.3	65.0	56.3	41.8	31.9	52.5
1988	33.0	40.2	44.1	51.2	56.6	67.0	75.2	73.2	63.4	58.4	42.7	31.2	53.0
1989	30.9	31.1	46.4	54.0	57.0	66.3	72.6	67.7	61.9	51.4	41.8	35.9	51.4
1990	34.3	30.8	45.7	54.5	56.4	65.7	73.7	71.1	65.4	54.7	40.9	25.8	51.6
1991	31.8	43.7	39.9	46.9	51.8	62.5	74.3	71.5	65.8	56.6	43.4	33.7	51.8
1992	34.4	41.8	46.9	55.8	64.9	66.5	70.8	72.7	64.8	55.3	39.9	30.6	53.7
1993	25.7	34.3	48.5	48.7	58.4	61.9	69.0	70.0	65.3	54.9	40.4	36.5	51.1
1994	37.7	38.5	48.7	52.9	59.8	68.5	77.2	73.7	65.0	52.3	35.1	35.7	53.8
1995	38.2	46.0	43.3	47.5	55.0	62.1	72.1	72.7	63.0	52.4	46.4	38.1	53.1
1996	37.6	39.5	42.2	48.5	55.1	64.0	72.9	70.0	60.0	49.9	41.3	38.4	51.6
1997	34.2	37.8	46.8	47.4	60.7	62.6	69.4	69.8	62.6	49.5	42.0	31.0	51.2
1998	38.2	36.2	42.2	45.4	50.9	63.3	75.8	74.9	65.7	49.8	42.8	31.7	51.4
1999	37.7	39.7	43.9	46.7	58.8	67.3	73.7	70.0	65.8	56.0	46.7	34.9	53.4
2000	38.7	41.3	45.7	54.1	60.5	70.9	72.9	73.4	63.4	52.0	37.8	36.9	54.0
2001	33.0	35.8	48.7	47.8	66.5	69.9	74.2	76.1	68.0	58.2	44.6	36.5	54.9
2002	34.4	40.9	42.7	52.0	58.3	70.0	78.4	72.5	66.4	52.6	43.1	37.5	54.1
2003	43.1	37.6	46.5	45.5	60.4	71.6	79.2	74.1	68.1	59.4	40.0	38.1	55.3
2004	36.2	38.7	51.5	53.7	61.0	70.3	78.0	74.3	65.9	52.6	40.3	35.0	54.8
2005	28.9	38.6	46.3	49.2	60.0	64.3	80.0	75.7	62.8	55.4	45.4	39.0	53.8
2006	37.9	39.2	39.1	50.7	62.4	72.7	79.7	73.6	65.6	52.8	44.3	34.9	54.4
2007	31.2	40.8	49.4	53.1	63.4	72.4	80.0	76.3	63.6	52.5	44.4	34.1	55.1
2008	32.1	39.0	45.0	49.9	59.3	69.7	77.6	77.0	68.1	54.6	46.3	34.3	54.4
2009	37.6	40.2	43.8	50.3	65.0	66.2	77.7	73.9	69.6	52.0	43.8	26.9	53.9
2010	36.9	40.8	45.2	48.3	52.9	68.4	77.9	72.6	67.4	55.9	40.9	39.3	53.9
2011	37.3	35.0	44.5	49.0	54.4	65.6	75.4	75.6	70.6	56.4	42.1	33.6	53.3
2012	39.0	39.3	45.8	53.5	61.6	68.9	77.8	79.0	70.7	58.1	45.8	36.5	56.3
2013	30.2	38.4	49.4	54.0	61.1	71.8	80.2	74.3	66.6	51.3	44.2	28.7	54.2
POR= 89 YRS	33.0	36.2	42.0	47.4	55.9	63.3	70.8	69.2	61.4	51.3	40.4	33.6	50.4

HEATING DEGREE DAYS (base 65°F) 2013 RENO (KRNO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0	8	111	575	753	1056	1060	781	810	359	266	45	5824
1985-86	5	12	230	446	896	1039	757	618	528	469	285	32	5317
1986-87	5	0	291	430	654	913	1028	737	661	299	182	34	5234
1987-88	38	5	45	265	690	1017	982	714	643	408	267	88	5162
1988-89	0	0	132	202	663	1042	1049	944	568	321	256	21	5198
1989-90	0	21	99	417	688	895	943	954	590	312	260	64	5243
1990-91	0	20	55	313	715	1209	1021	588	772	540	404	106	5743
1991-92	0	6	41	265	642	965	945	666	555	273	61	83	4502
1992-93	10	9	41	293	748	1056	1212	853	503	480	200	139	5544
1993-94	16	8	77	316	730	874	838	735	498	360	186	34	4672
1994-95	0	0	58	387	888	901	824	529	665	520	308	147	5227
1995-96	4	0	87	383	553	829	843	733	700	488	301	71	4992
1996-97	2	7	155	463	705	820	946	756	559	520	139	102	5174
1997-98	10	3	94	470	683	1047	824	801	697	582	429	87	5727
1998-99	0	0	81	464	658	1027	841	705	648	541	220	80	5265
1999-00	0	18	37	271	543	926	810	683	593	324	184	16	4405
2000-01	7	0	103	401	812	864	984	812	497	512	54	15	5061
2001-02	0	0	10	218	605	875	942	672	686	383	233	34	4658
2002-03	0	0	48	379	651	848	673	763	568	578	224	17	4749
2003-04	0	0	20	181	744	825	885	756	411	334	143	25	4324
2004-05	0	2	63	381	732	924	1113	734	576	468	179	91	5263
2005-06	0	1	103	288	580	797	833	717	794	423	123	11	4670
2006-07	0	0	88	371	614	926	1039	669	476	355	114	30	4682
2007-08	0	0	130	378	612	953	1012	751	613	445	220	35	5149
2008-09	0	0	21	324	557	945	841	690	653	435	87	67	4620
2009-10	0	9	24	395	630	1173	863	671	605	495	373	27	5265
2010-11	0	18	21	290	713	792	852	832	631	475	322	86	5032
2011-12	0	0	3	264	682	965	800	739	589	358	143	47	4590
2012-13	0	0	1	228	570	877	1071	737	477	328	145	16	4450
2013-	0	0	85	416	617	1116							

WBAN : 23185

COOLING DEGREE DAYS (base 65°F) 2013 RENO (KRNO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	16	42	264	162	61	0	0	0	545
1985	0	0	0	0	3	157	273	126	6	0	0	0	565
1986	0	0	0	0	53	112	148	253	39	0	0	0	605
1987	0	0	0	1	27	126	142	210	53	2	0	0	561
1988	0	0	0	0	11	152	323	264	92	2	0	0	844
1989	0	0	0	0	19	66	240	112	13	0	0	0	450
1990	0	0	0	1	0	95	278	216	76	0	0	0	666
1991	0	0	0	0	0	39	296	214	71	13	0	0	633
1992	0	0	0	5	61	135	197	257	45	1	0	0	701
1993	0	0	0	0	4	52	145	171	92	10	0	0	474
1994	0	0	0	3	31	148	381	274	65	0	0	0	902
1995	0	0	0	0	6	66	231	247	35	0	0	0	585
1996	0	0	0	0	0	50	254	169	14	2	0	0	489
1997	0	0	0	0	14	35	154	160	26	0	0	0	389
1998	0	0	0	0	0	43	344	316	108	0	0	0	811
1999	0	0	0	0	36	157	276	180	69	0	0	0	718
2000	0	0	0	0	54	199	256	271	62	6	0	0	848
2001	0	0	0	0	107	174	292	348	106	14	0	0	1041
2002	0	0	0	0	33	191	423	240	97	0	0	0	984
2003	0	0	0	0	90	223	449	292	119	13	0	0	1186
2004	0	0	0	1	24	195	409	297	97	1	0	0	1024
2005	0	0	0	0	31	77	470	341	44	0	0	0	963
2006	0	0	0	1	52	249	463	274	114	0	0	0	1153
2007	0	0	0	4	76	260	474	355	94	0	0	0	1263
2008	0	0	0	0	51	181	395	379	119	7	0	0	1132
2009	0	0	0	1	94	110	403	292	169	0	0	0	1069
2010	0	0	0	0	0	137	406	260	101	18	0	0	922
2011	0	0	0	0	1	111	331	338	179	4	0	0	964
2012	0	0	0	18	46	171	403	438	179	17	0	0	1272
2013	0	0	0	6	30	227	476	294	141	0	0	0	1174

SNOWFALL (inches) 2013 RENO (KRNO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	3.4	3.0	1.3	4.3	0.8	7.0	T	T	0.0	19.8
1985-86	0.0	0.0	T	1.2	16.5	1.4	0.0	T	1.4	0.4	T	0.0	20.9
1986-87	0.0	0.0	T	0.0	0.2	0.6	1.8	8.0	2.5	T	0.0	0.0	13.1
1987-88	0.0	0.0	0.0	0.0	0.8	6.3	8.2	0.0	T	T	T	0.0	15.3
1988-89	0.0	0.0	0.0	0.0	4.1	11.7	3.3	13.3	2.2	0.8	T	0.0	35.4
1989-90	0.0	0.0	0.0	T	T	T	5.6	21.6	2.0	0.0	0.0	0.0	29.2
1990-91	0.0	0.0	0.0	0.0	0.4	2.7	0.1	0.0	4.5	T	1.6	0.0	9.3
1991-92	0.0	0.0	0.0	T	5.0	1.4	0.4	1.3	T	0.0	0.0	0.0	8.1
1992-93	0.0	0.0	0.0	0.0	T	14.3	22.9	13.0	0.0	0.0	T	0.0	50.2
1993-94	0.0	0.0	T	T	T	0.3	0.5	5.2	T	T	T	0.0	6.0
1994-95	0.0	0.0	0.0	0.0	15.3	0.5	8.2	1.9	1.7	1.1	T	0.2	28.9
1995-96	0.0	0.0	0.0	0.0	0.0		1.2						
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05					7.0	21.6	21.1	T	T	T	0.0	0.0	
2005-06	0.0	0.0	0.0	0.0	T	3.6	4.3	6.4	6.1	1.0	T	0.0	21.4
2006-07	0.0	0.0	0.0	0.0	T	2.4	1.7	4.1	T	0.2	T	0.0	8.4
2007-08	0.0	0.0	0.2	0.0	T	2.8	12.4	7.0	0.6	T	0.0	0.0	23.0
2008-09	0.0	0.0	0.0	1.0	T	5.9	0.5	0.9	2.2	3.0	0.0	0.0	13.5
2009-10	0.0	0.0	0.0	0.1	0.2	15.6	1.8	16.1	T	1.0	T	0.0	34.8
2010-11	0.0	0.0	0.0	0.0	2.8	6.8	1.0	18.0	5.3	0.1	T	0.0	34.0
2011-12	0.0	0.0	0.0	0.0	T	0.0	0.6	6.7	0.7	T	0.2	0.0	8.2
2012-13	0.0	0.0	0.0	0.0	0.8	7.2	1.3	T	0.1	T	0.0	0.0	9.4
2013-	0.0	T	0.0	0.0	0.4	4.3							
POR= 71 YRS	0.0	T	T	0.4	1.8	4.5	5.4	5.3	3.5	1.0	0.7	0.0	22.6

WBAN : 23185

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.

2013
RENO
NEVADA (KRNO)

At an elevation of 4,400 feet above mean sea level, Reno is located at the west edge of Truckee Meadows in a semi-arid plateau lying in the lee of the Sierra Nevada Mountain Range. To the west, the Sierras rise to elevations of 9,000 to ll,000 feet. Hills to the east reach 6,000 to 7,000 feet. The Truckee River, flowing from the Sierras eastward through Reno, drains into Pyramid Lake to the northeast of the city.

The daily temperatures on the whole are mild, but the difference between the high and low often exceeds 45 degrees. While the afternoon high may exceed 90 degrees, a light wrap is often needed shortly after sunset. Nights with low temperatures over 60 degrees are rare. Afternoon temperatures in winter are moderate.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 16 and the average last occurrence in the spring is June 1.

More than half of the precipitation in Reno occurs mainly as mixed rain and snow, and falls from December to March. Although there is an average of about 25 inches of snow a year, it seldom remains on the ground for more than three or four days at a time. Summer rain comes mainly as brief thunderstorms in the middle and late afternoons. While precipitation is scarce, considerable water is available from the high altitude reservoirs in the Sierra Nevada, where precipitation is heavy.

Humidity is very low during the summer months, and moderately low during the winter. Fogs are rare, and are usually confined to the early morning hours of midwinter. Sunshine is abundant throughout the year.

Station History

RENO, NV

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
RENO UNITED AIRLINES AP	1949-02-01	1953-12-01	39° 30'	-119° 46'	4397		AIRWAYS,COOP,USHCN
RENO MUNICIPAL AP	1959-11-03	1970-02-03	39° 30'	-119° 46'	4404		AIRWAYS,COOP,USHCN
RENO CANNON INTL AP	1979-08-01	1995-09-01	39° 30'	-119° 46'	4404		COOP,USHCN,WXSVC
RENO HUBBARD FIELD	1931-01-08	1948-01-01	39° 30'	-119° 46'	4397		AIRWAYS
RENO MUNICIPAL AP	1953-12-01	1959-11-03	39° 30'	-119° 46'	4397		AIRWAYS,COOP,USHCN
RENO INTL AP	1970-02-03	1973-01-01	39° 30'	-119° 46'	4404		AIRWAYS,COOP,USHCN
RENO INTL AP	1973-01-01	1979-08-01	39° 30'	-119° 46'	4404		COOP,USHCN,WXSVC
RENO TAHOE INTL AP	1995-09-01	1995-10-01	39° 29'	-119° 46'	4404	.6 MI SSW	ASOS,COOP,USHCN
RENO TAHOE INTL AP	1995-10-01	2010-12-24	39° 29'	-119° 46'	4410		ASOS,COOP,USHCN
RENO TAHOE INTL AP	2010-12-24	Present	39° 29'	-119° 46'	4410		ASOS,COOP,USHCN
RENO HUBBARD FIELD	1948-01-01	1949-02-01	39° 30'	-119° 46'	4397		AIRWAYS,COOP,USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	2011-01-21	Present	DAILY	2400	ATEMP		
PRECIP	1931-01-08	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-09-01	2001-06-16	HOURLY	2400	TB	RCRD	
PRECIP	1995-09-01	2001-06-16	DAILY	2400	TB	RCRD	
TEMP	2001-06-16	2010-12-24	DAILY	2400	HYGR		
PRECIP	1995-07-01	1995-09-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1982-01-01	1993-09-21	DAILY	2400	UNIV	RCRD	
PRECIP	1993-09-21	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1993-09-21	1995-07-01	DAILY	2400	HYGR		
TEMP	1995-09-01	2001-06-16	DAILY	2400	HYGR		
PRECIP	2010-12-24	2011-01-21	DAILY	2400	PCPNX		
PRECIP	1982-01-01	1993-09-21	HOURLY	2400			
TEMP	1982-01-01	1993-09-21	DAILY	2400			
PRECIP	2001-06-16	2010-12-24	DAILY	2400	TB	SHLD;RCRD	
PRECIP	2001-06-16	2010-12-24	HOURLY	2400	TB	SHLD;RCRD	
PRECIP	2010-12-24	2011-01-21	HOURLY	2400	TB	SHLD;RCRD	
TEMP	2010-12-24	2011-01-21	DAILY	2400	HYGR		
TEMP	1931-01-08	1982-01-01	DAILY	2400			
PRECIP	1995-07-01	1995-09-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-07-01	1995-09-01	DAILY	2400	HYGR		
PRECIP	2011-01-21	Present	HOURLY	2400	AHTB	SHLD;RCRD;HTD	
PRECIP	2011-01-21	Present	DAILY	2400	PCPNX		
PRECIP	1993-09-21	1995-07-01	HOURLY	2400			

* 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

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Asheville, NC 28801-5001