

1999

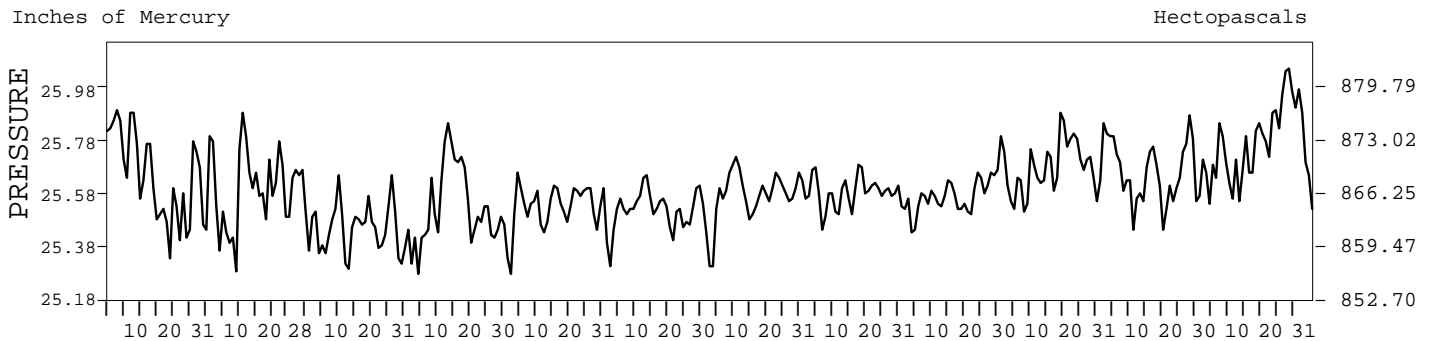
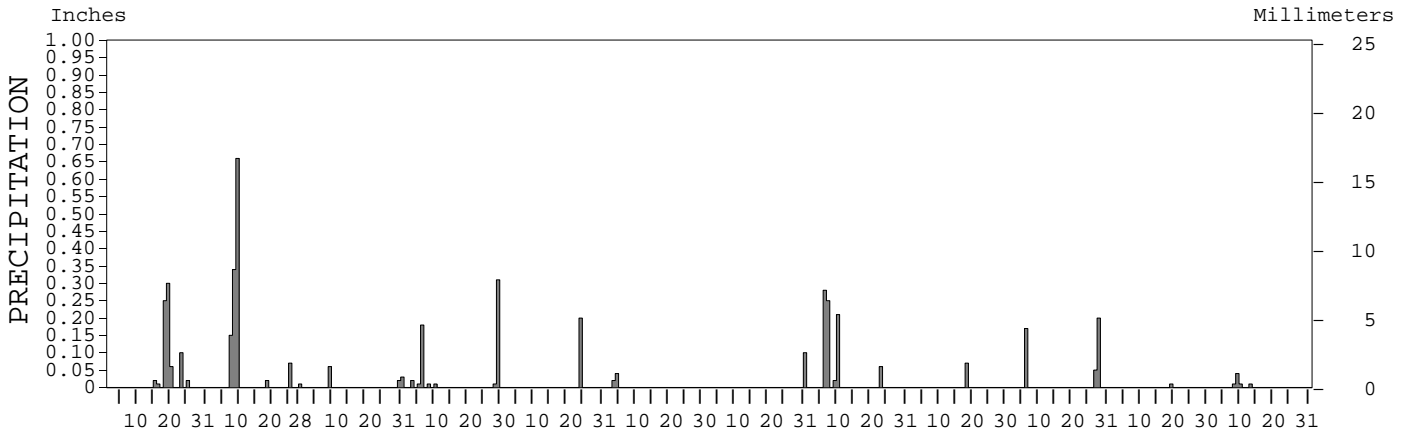
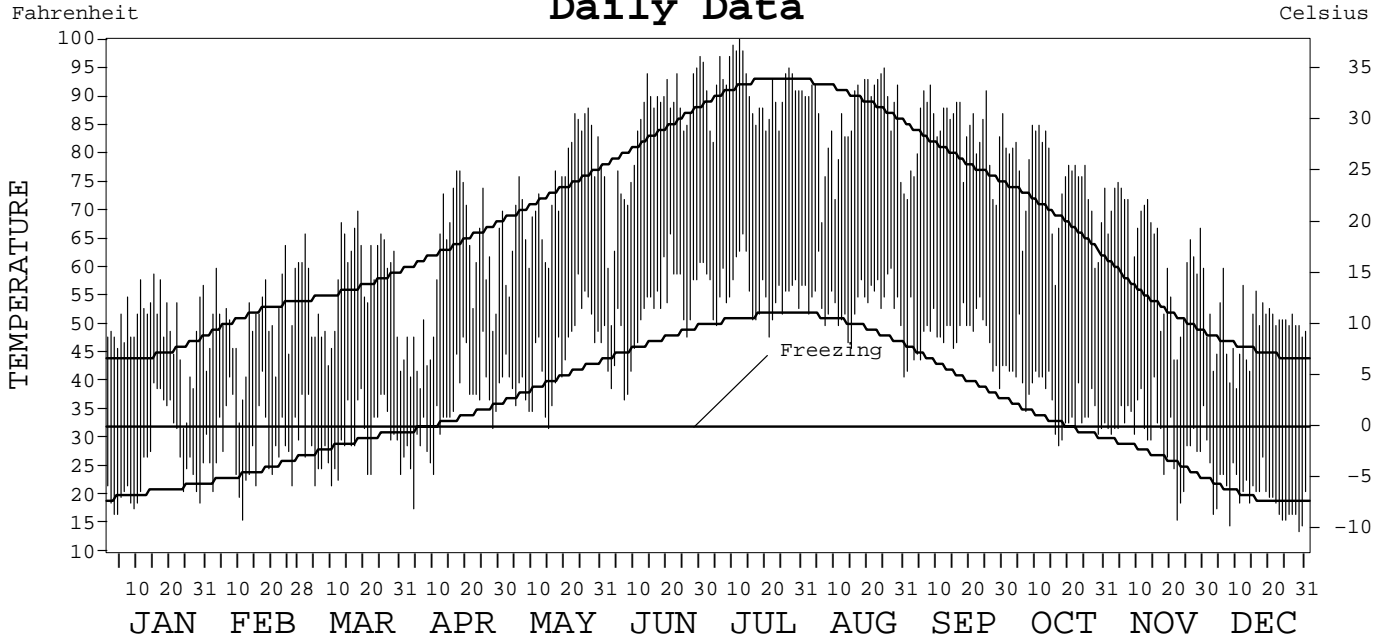
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3326

RENO,  
NEVADA (RNO)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 1999

## RENO, NV (RNO)

LATITUDE: 39° 29' 02" N      LONGITUDE: 119° 46' 16" W      ELEVATION (FT): GRND: 4405      BARO: 4405      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	49.1	50.7	57.6	58.6	73.4	83.0	91.4	86.3	83.5	74.9	62.7	49.4	68.4	
	HIGHEST DAILY MAXIMUM	59	64	70	77	88	97	100	95	92	85	75	60	100	
	DATE OF OCCURRENCE	15	24	18	18+	27	30	12	25	08	11+	04	06	JUL 12	
	MEAN DAILY MINIMUM	26.2	28.6	30.1	34.7	44.1	51.6	56.0	53.7	48.1	37.1	30.7	20.3	38.4	
	LOWEST DAILY MINIMUM	17	16	22	18	32	37	48	41	39	29	16	14	14	
	DATE OF OCCURRENCE	04+	11	10+	04	15	07	21	31	29	17	22	29	DEC 29	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	32.3		34.7	37.3	45.1	50.5	54.4	54.1	49.3	42.4	37.3	28.2		
	MEAN DEW POINT	26.5		20.8	24.3	29.4	34.3	36.8	40.7	32.7	27.3	26.1	18.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	9	20	16	3	0	0	0	0	48
	MAXIMUM ≤ 32°	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	MINIMUM ≤ 32°	24	19	21	11	1	0	0	0	0	6	20	31	133	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	841	705	648	541	220	80	0	18	37	271	543	926	4830	
	COOLING DEGREE DAYS	0	0	0	0	36	157	276	180	69	0	0	0	718	
RH	MEAN (PERCENT)	71	55	44	46	36	33	28	39	33	39	50	57	44	
	HOUR 04 LST	85	69	62	61	54	52	47	60	52	60	67	72	62	
	HOUR 10 LST	71	53	38	44	28	24	20	33	27	32	48	58	40	
	HOUR 16 LST	48	41	25	31	22	20	15	21	18	21	29	33	27	
	HOUR 22 LST	74	54	47	47	37	34	29	39	33	41	52	61	46	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	1	0	0	0	0	0	0	0	1	2	
	THUNDERSTORMS	0	0	0	0	1	0	2	5	3	0	0	0	11	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
PR	NUMBER OF DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESS. (IN.)	25.65	25.61	25.47	25.53	25.54	25.53	25.58	25.59	25.59	25.70	25.65	25.79	25.60	
	MEAN SEA-LEVEL PRESS. (IN.)	30.16	30.09	29.90	29.97	29.91	29.86	29.90	29.93	29.95	30.12	30.11	30.34	30.02	
WINDS	RESULTANT SPEED (MPH)	1.2	2.9	3.0	3.4	4.0	3.2	3.4	3.2	0.8	0.5	1.6	0.5	2.1	
	RES. DIR. (TENS OF DEGS.)	24	22	26	30	29	27	27	27	28	25	22	29	27	
	MEAN SPEED (MPH)	4.9	7.9	8.0	8.6	7.6	7.9	7.7	6.5	4.4	3.9	4.8	3.6	6.3	
	PREVAIL. DIR. (TENS OF DEGS.)	19	18	27	27	26	27	27	27	26	27	28	17	27	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	34	44	49	37	32	31	36	40	43	33	52	34	52	
	DIR. (TENS OF DEGS.)	20	15	21	01	24	27	18	19	23	23	20	23	20	
	DATE OF OCCURRENCE	17	06	03	22	03	02	03	22	09	28	29	02	NOV 29	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	45	57	61	44	45	37	48	49	53	43	62	43	62	
DIR. (TENS OF DEGS.)	25	14	20	15	25	24	19	19	25	22	20	25	20		
DATE OF OCCURRENCE	22	06	03	05	14	24+	03	22	09	28	29	02	NOV 29		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.32	1.00	0.06	0.31	0.20	0.06	0.10	0.28	0.07	0.25	0.01	0.05	1.00	
	DATE OF OCCURRENCE	19-20	08-09	09	29	24	03-04	31	06	18	27-28	19	09-10	FEB 08-09	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	6	3	7	1	2	1	5	1	3	1	4	41	
PRECIPITATION ≥ 0.10	3	3	0	2	1	0	1	3	0	2	0	0	15		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
SNOWFALL	NUMBER OF DAYS WITH:														
	SNOWFALL ≥ 1.0														

# NORMALS, MEANS, AND EXTREMES

## RENO, NV (RNO)

LATITUDE: 39° 29' 02" N      LONGITUDE: 119° 46' 16" W      ELEVATION (FT): GRND: 4405      BARO: 4405      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	45.1	51.7	56.3	63.7	72.9	83.1	91.9	89.6	79.5	68.6	53.8	45.5	66.8
	MEAN DAILY MAXIMUM	54	45.2	51.3	56.2	63.8	72.4	81.7	90.9	89.2	81.4	69.6	55.3	46.1	66.9
	HIGHEST DAILY MAXIMUM	58	70	75	83	89	96	103	104	105	101	91	77	70	105
	YEAR OF OCCURRENCE		1967	1986	1966	1981	1986	1988	1998	1983	1950	1980	1980	1969	AUG 1983
	MEAN OF EXTREME MAXS.	54	61.0	65.6	71.3	79.3	88.1	95.5	99.6	98.8	93.4	84.4	71.2	61.4	80.8
	NORMAL DAILY MINIMUM	30	20.7	24.2	29.2	33.3	40.1	46.9	51.3	49.6	41.3	32.9	26.7	19.9	34.7
	MEAN DAILY MINIMUM	54	19.9	24.0	27.1	31.4	38.6	44.5	49.5	47.4	40.9	32.3	25.2	20.1	33.4
	LOWEST DAILY MINIMUM	58	-16	-16	-2	13	18	25	33	24	20	8	1	-16	-16
	YEAR OF OCCURRENCE		1949	1989	1945	1956	1964	1954	1976	1962	1965	1971	1958	1972	DEC 1972
	MEAN OF EXTREME MINS.	54	4.3	9.6	14.8	20.2	27.3	33.8	39.6	38.0	30.7	20.9	12.6	5.9	21.5
	NORMAL DRY BULB	30	32.9	38.0	42.8	48.6	56.5	65.1	71.6	69.6	60.4	50.8	40.3	32.7	50.8
	MEAN DRY BULB	54	32.5	37.5	41.6	47.7	55.5	63.2	70.3	68.2	61.1	51.0	40.2	33.0	50.1
	MEAN WET BULB	16	29.3	32.0	36.3	39.8	45.4	50.7	55.1	53.7	49.0	41.9	34.3	26.1	41.1
	MEAN DEW POINT	16	23.1	23.5	25.1	26.3	31.9	35.7	39.9	38.1	35.2	29.7	25.4	20.1	29.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	1.2	7.2	20.7	16.5	4.9	0.1	0.0	0.0	50.6	
MAXIMUM ≤ 32°	30	3.0	0.8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.5	7.7	
MINIMUM ≤ 32°	30	28.2	24.3	24.1	18.0	6.0	0.7	0.0	0.3	4.1	17.4	24.3	28.3	175.7	
MINIMUM ≤ 0°	30	0.9	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	
H/C	NORMAL HEATING DEG. DAYS	30	995	756	688	492	274	76	13	20	178	440	741	1001	5674
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	10	79	217	162	40	0	0	0	508
RH	NORMAL (PERCENT)	30	68	60	53	46	43	40	36	39	44	51	61	68	51
	HOUR 04 LST	30	79	74	70	67	67	66	64	66	69	72	75	78	71
	HOUR 10 LST	30	69	59	48	38	34	31	27	30	34	42	57	67	45
	HOUR 16 LST	30	50	40	33	28	26	22	18	20	22	27	42	51	32
	HOUR 22 LST	30	73	64	55	49	46	41	36	39	46	56	66	73	54
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)	57	2.1	0.8	0.3	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.6	2.5	6.9
	THUNDERSTORMS	57	0.0	0.0	0.1	0.5	2.0	2.8	3.5	2.8	1.3	0.6	0.0	0.0	13.6
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1					4.0	2.4							
	MIDNIGHT-MIDNIGHT (OKTAS)	1					4.0	2.4							
	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)	27	25.63	25.58	25.52	25.54	25.53	25.55	25.59	25.59	25.59	25.63	25.64	25.66	25.59
	MEAN SEA-LEVEL PRES. (IN)	15	30.16	30.06	29.99	29.97	29.90	30.00	29.91	29.91	29.95	30.05	30.10	30.18	30.01
WINDS	MEAN SPEED (MPH)	35	5.5	6.3	7.7	8.1	8.0	7.6	7.1	6.6	5.8	5.3	5.3	5.3	6.5
	PREVAIL. DIR (TENS OF DEGS)	20	18	18	18	29	30	29	29	29	29	18	18	18	29
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	45	44	49	39	43	32	36	40	43	41	52	44	52
	DIR. (TENS OF DEGS)		16	15	21	14	14	17	18	19	23	15	20	18	20
	YEAR OF OCCURRENCE		1997	1999	1999	1998	1996	1998	1999	1999	1999	1997	1999	1996	NOV 1999
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	54	57	61	52	48	46	48	49	53	52	62	57	62	
DIR. (TENS OF DEGS)		16	14	20	18	15	12	19	19	25	16	20	15	20	
YEAR OF OCCURRENCE		1997	1999	1999	1996	1996	1997	1999	1999	1999	1997	1999	1996	NOV 1999	
PRECIPITATION	NORMAL (IN)	30	1.07	0.99	0.71	0.38	0.69	0.46	0.28	0.32	0.39	0.38	0.87	0.99	7.53
	MAXIMUM MONTHLY (IN)	58	4.13	4.84	2.87	2.04	2.89	1.53	1.06	1.65	2.31	2.14	3.08	5.25	5.25
	YEAR OF OCCURRENCE		1969	1986	1995	1958	1963	1989	1971	1965	1982	1945	1983	1955	DEC 1955
	MINIMUM MONTHLY (IN)	58	T	T	T	T	T	0.00	0.00	0.00	0.00	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1966	1967	1988	1985	1985	1959	1951	1957	1974	1995	1959	1989	OCT 1995
	MAXIMUM IN 24 HOURS (IN)	58	2.37	1.80	1.21	1.64	1.76	0.79	0.80	0.97	0.91	1.55	1.65	2.16	2.37
	YEAR OF OCCURRENCE		1943	1990	1943	1958	1987	1969	1949	1965	1982	1962	1988	1955	JAN 1943
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	6.1	5.8	6.7	4.2	4.3	3.5	2.3	2.7	3.0	3.0	5.2	6.0	52.8	
PRECIPITATION ≥ 1.00	30	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	*	0.1	0.1	0.5	
SNOWFALL	NORMAL (IN)	30	5.1	5.2	4.3	1.5	1.4	0.0	0.0	0.0	0.1	0.4	2.5	4.8	25.3
	MAXIMUM MONTHLY (IN)	55	22.9	23.5	29.0	7.5	14.1	0.2	0.0	0.0	1.5	5.1	16.5	25.6	29.0
	YEAR OF OCCURRENCE		1993	1969	1952	1958	1964	1995			1982	1971	1985	1971	MAR 1952
	MAXIMUM IN 24 HOURS (IN)	55	12.0	18.0	16.9	7.3	9.0	0.2	0.0	0.0	1.5	3.7	15.4	14.9	18.0
	YEAR OF OCCURRENCE		1956	1990	1952	1958	1962	1995			1982	1971	1985	1971	FEB 1990
	MAXIMUM SNOW DEPTH (IN)	48	13	13	10	4	6	0	0	0	1	3	10	9	13
	YEAR OF OCCURRENCE		1993	1990	1952	1975	1971				1982	1984	1985	1992	FEB 1990
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.7	1.5	1.5	0.6	0.3	0.0	0.0	0.0	0.*	0.1	0.7	1.4	7.8	

PRECIPITATION (inches) 1999 RENO, NV (RNO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	1.73	0.32	0.19	0.60	T	0.88	0.05	0.02	0.01	0.03	1.47	1.65	6.95
1971	0.75	0.33	1.54	0.59	2.38	0.09	1.06	0.09	0.10	0.44	0.24	2.97	10.58
1972	0.37	0.14	0.03	0.14	1.02	0.18	0.01	0.14	0.30	1.30	1.00	0.89	5.52
1973	1.54	1.66	0.73	0.13	0.75	0.07	0.27	0.48	0.01	0.56	1.74	1.27	9.21
1974	1.60	0.34	1.16	0.23	0.01	T	0.33	0.19	0.00	0.69	0.27	0.56	5.38
1975	0.32	1.74	1.59	0.62	0.21	0.21	0.03	1.03	0.92	0.15	0.12	0.01	6.95
1976	0.16	1.20	0.36	0.20	0.10	T	0.96	0.62	1.10	0.28	0.07	0.01	5.06
1977	0.67	0.71	0.19	T	1.24	1.03	0.07	0.01	0.01	0.14	0.23	2.54	6.84
1978	1.66	0.98	1.49	0.20	0.31	0.07	0.19	0.15	0.68	0.08	1.30	0.82	7.93
1979	0.66	0.82	0.52	0.41	0.16	T	0.58	0.38	T	0.31	0.17	2.02	6.03
1980	2.77	1.90	0.76	0.51	0.78	0.12	0.54	0.32	0.48	0.14	0.28	0.60	9.20
1981	0.85	0.21	0.58	0.21	0.57	T	0.01	0.36	0.07	0.64	2.13	1.05	6.68
1982	1.20	0.41	1.14	0.34	0.10	1.07	0.04	0.09	2.31	1.65	1.71	1.04	11.10
1983	1.72	1.58	1.31	1.35	0.21	0.53	T	0.78	0.84	0.36	3.08	1.47	13.23
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	0.20	0.16	0.45	0.28	0.89	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
POR= 112 YRS	1.31	1.07	0.78	0.45	0.65	0.41	0.20	0.21	0.32	0.40	0.59	1.00	7.39

WBAN : 23185

AVERAGE TEMPERATURE (°F) 1999 RENO, NV (RNO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	37.3	42.0	41.4	44.1	58.0	65.1	73.0	71.5	57.2	48.0	45.4	29.2	51.0
1971	33.0	36.9	40.9	45.9	50.9	59.7	71.5	70.7	56.5	45.8	37.5	26.6	48.0
1972	25.5	40.2	47.1	46.2	56.9	65.1	70.7	67.6	56.6	48.5	38.0	25.1	49.0
1973	28.4	37.7	37.9	43.8	58.8	64.3	70.1	67.4	58.5	49.2	42.8	38.3	49.8
1974	31.6	36.2	42.8	46.5	54.9	63.9	67.0	65.7	61.4	49.3	40.4	31.1	49.2
1975	32.3	34.1	38.4	39.9	54.2	62.4	70.4	64.8	64.2	49.5	35.9	33.8	48.3
1976	32.1	35.0	38.3	44.5	57.5	61.1	69.0	62.1	62.0	51.3	42.4	30.5	48.8
1977	32.3	40.0	38.1	51.3	48.5	68.6	69.5	69.8	60.7	52.2	41.9	38.3	50.9
1978	37.1	38.4	47.2	45.3	52.3	61.6	69.5	67.2	57.6	53.5	37.2	24.9	49.3
1979	28.9	36.9	41.9	46.9	57.1	63.9	69.9	67.7	64.2	54.0	38.0	35.5	50.4
1980	36.9	40.6	38.5	49.8	54.4	60.8	71.3	67.5	63.0	50.9	41.8	36.2	51.0
1981	36.1	38.8	41.7	50.7	57.5	68.3	67.9	69.4	64.7	46.9	42.5	39.0	52.0
1982	28.5	40.3	40.2	44.0	55.0	61.8	70.4	68.8	57.0	46.9	36.2	32.3	48.5
1983	34.2	38.6	40.5	43.8	53.3	62.5	67.2	69.9	62.9	54.1	41.2	38.8	50.6
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
POR= 112 YRS	32.3	36.9	41.7	47.8	55.2	62.9	70.4	68.8	61.0	51.1	41.0	33.4	50.2

HEATING DEGREE DAYS (base 65°F) 1999 RENO, NV (RNO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	234	519	585	1102	985	780	739	567	429	164	6104
1971-72	9	13	264	588	819	1184	1216	709	548	558	259	54	6221
1972-73	8	26	249	503	803	1229	1127	760	834	630	199	87	6455
1973-74	7	36	193	483	659	819	1027	800	680	545	310	73	5632
1974-75	52	42	120	478	733	1046	1006	858	818	746	332	113	6344
1975-76	26	65	51	477	868	961	1012	863	821	610	224	138	6116
1976-77	15	116	116	419	670	1062	1002	695	828	405	509	30	5867
1977-78	10	12	154	392	687	821	858	739	544	582	387	113	5299
1978-79	21	62	234	347	826	1236	1113	781	709	536	247	91	6203
1979-80	9	28	56	339	805	908	865	701	813	451	319	152	5446
1980-81	13	35	79	430	688	885	890	727	715	424	228	48	5162
1981-82	12	7	83	554	669	800	1123	687	760	623	307	133	5758
1982-83	15	11	278	556	855	1006	947	732	752	630	371	77	6230
1983-84	40	8	104	332	708	805	1019	801	637	570	183	133	5340
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-	0	18	37	271	543	926							

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COOLING DEGREE DAYS (base 65°F) 1999 RENO, NV (RNO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	0	6	100	256	210	7	0	0	0	579
1971	0	0	0	0	0	11	217	197	15	0	0	0	440
1972	0	0	0	0	12	65	191	113	4	0	0	0	385
1973	0	0	0	0	13	75	173	117	3	0	0	0	381
1974	0	0	0	0	2	47	118	71	20	0	0	0	258
1975	0	0	0	0	4	43	199	66	33	3	0	0	348
1976	0	0	0	0	0	25	144	34	33	0	0	0	236
1977	0	0	0	0	6	141	154	167	32	0	0	0	500
1978	0	0	0	0	0	16	166	139	19	0	0	0	340
1979	0	0	0	0	9	63	169	122	38	3	0	0	404
1980	0	0	0	0	2	32	218	119	25	1	0	0	397
1981	0	0	0	2	4	153	112	151	80	0	0	0	502
1982	0	0	0	0	2	45	188	135	47	0	0	0	417
1983	0	0	0	0	16	9	115	170	49	0	0	0	359
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

SNOWFALL (inches) 1999 RENO, NV (RNO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.2	T	15.4	11.4	4.9	7.0	3.3	6.3	0.0	48.5
1971-72	0.0	0.0	T	5.1	0.2	25.6	5.7	0.7	0.2	1.0	0.0	0.0	38.5
1972-73	0.0	0.0	0.0	T	T	8.8	11.9	8.2	6.5	0.7	T	0.0	36.1
1973-74	0.0	0.0	0.0	0.0	2.5	6.8	8.7	1.0	6.5	2.6	T	0.0	28.1
1974-75	0.0	0.0	0.0	0.0	0.0	4.0	2.7	19.0	12.1	4.8	2.2	T	44.8
1975-76	0.0	0.0	0.0	T	1.7	T	0.3	15.8	7.8	2.7	T	0.0	28.3
1976-77	0.0	0.0	0.0	0.0	0.0	0.5	0.7	1.4	1.2	T	2.9	0.0	6.7
1977-78	0.0	0.0	0.0	0.0	0.5	5.6	0.3	5.1	0.2	0.1	0.4	0.0	12.2
1978-79	0.0	0.0	T	0.8	9.7	9.1	6.4	3.9	0.2	1.1	0.3	0.0	31.5
1979-80	0.0	0.0	0.0	0.3	T	2.1	4.7	6.1	7.6	1.2	T	0.0	22.0
1980-81	0.0	0.0	0.0	T	T	T	3.9	T	2.2	T	0.0	0.0	6.1
1981-82	0.0	0.0	0.0	1.1	2.0	0.1	12.5	2.3	6.7	0.8	0.5	0.0	26.0
1982-83	0.0	0.0	1.5	0.0	8.6	1.8	1.5	1.0	3.0	2.9	3.5	0.0	23.8
1983-84	0.0	0.0	0.0	0.0	5.7	0.5	6.7	1.5	0.1	T	0.0	0.0	14.5
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-													
POR= 53 YRS	0.0	0.0	0.0	0.3	2.4	4.3	5.7	5.1	4.2	1.2	0.8	0.0	24.0

WBAN : 23185

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 (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.</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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999  
RENO,  
NEVADA (RNO)

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 11,000 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 LOCATION

RENO, NEVADA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUC	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS	
						SEA LEVEL	GROUND												
							WIND	EMER	EMER	EMER	EMER	EMER	EMER	EMER	EMER				EMER
<u>COOPERATIVE</u>																			
Southern Pacific Depot Commercial & Lake Sts.	12/01/70	12/31/87		39°32'	119°48'	4493											4	Daily rainfall records by Southern Pacific Co. Agent.	
Univ. of Nevada Campus Administration Bldg. (Morrill Hall)	1/01/88	11/01/05	0.7 mi. NNW	39°33'	119°49'	4558											4	Max., min, and rainfall records of Univ. of Nevada.	
<u>CITY</u>																			
Thoma-Biglow Building 1st & Virginia Streets	11/11/05	2/28/10	0.7 mi. SSE	39°32'	119°49'	4496	63	56	56			47					47		
I O F Building 2nd & N Center Streets	3/01/10	2/28/34	0.1 mi. NE	39°32'	119°49'	4495	81	74	74			67					67		
Post Office Building S Virginia & Mill Sts.	3/01/34	8/31/42	0.2 mi. S	39°32'	119°49'	4493	76	61	61			53					53		
<u>AIRPORT</u>																			
Hubbard Field (Later changed to United Airlines AP)	1/08/31	5/31/49	3.5 mi. SSE	39°30'	119°47'	4397	52	20	20			5	5				4		
CAA Building Reno Municipal Airport	6/01/49	10/23/59	60 ft. S	39°30'	119°47'	4397	53	6	6			4	a5				a3	Name changed from United Airlines Airport 12/1/53. a - Shielded 10/25/57.	
Federal Facilities Bldg Municipal Airport + * + International AP effective 2/3/70	10/23/59	8/13/80	0.8 mi. NNW	39°30'	119°47'	4404	20	c6	c6	%17	NA	c5		c4	b4	NA	b - Commissioned 11/3/59 about 3/4 mile SE of office and moved 2350 ft. N by W 11/16/63. c - Minor move 5/12/78. % - Commissioned 11/3/59.		
* Cannon International Airport eff. 8/79.																			
General Aviation Bldg. Cannon International AP	8/13/80	09/01/95	0.25mi. ESE	39°30'	119°47'	4404	e30	5	5	17	NA	4		4	d4 f4	NA	d - Not moved 8/13/80. e - Not moved but raised at prior site 8/13/80. f - Type change 11/22/84.		
Cannon International AP	09/01/95	Present	NA	39°29'	119°46'	4405											S	ASOS Commissioned 09/01/95	

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801. INQUIRIES/COMMENTS CALL: (828) 271-4800

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