

2004

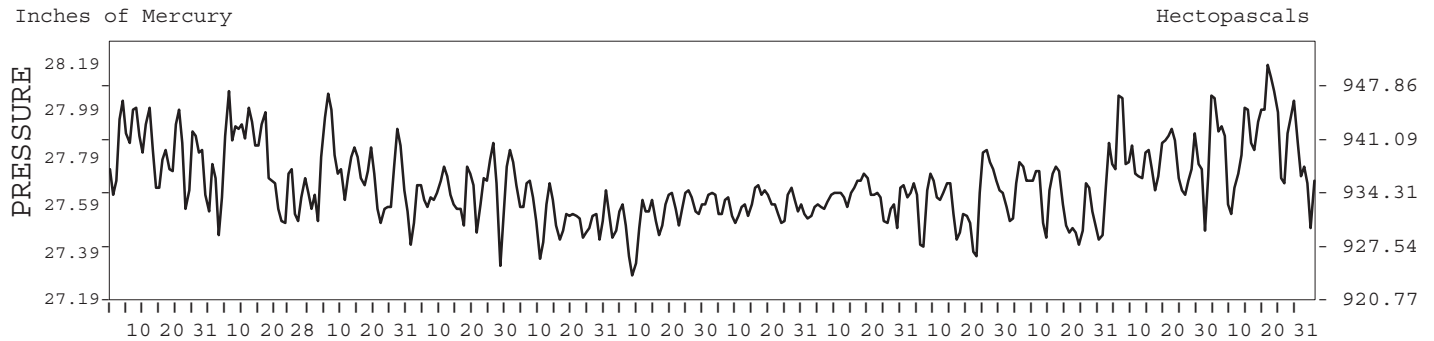
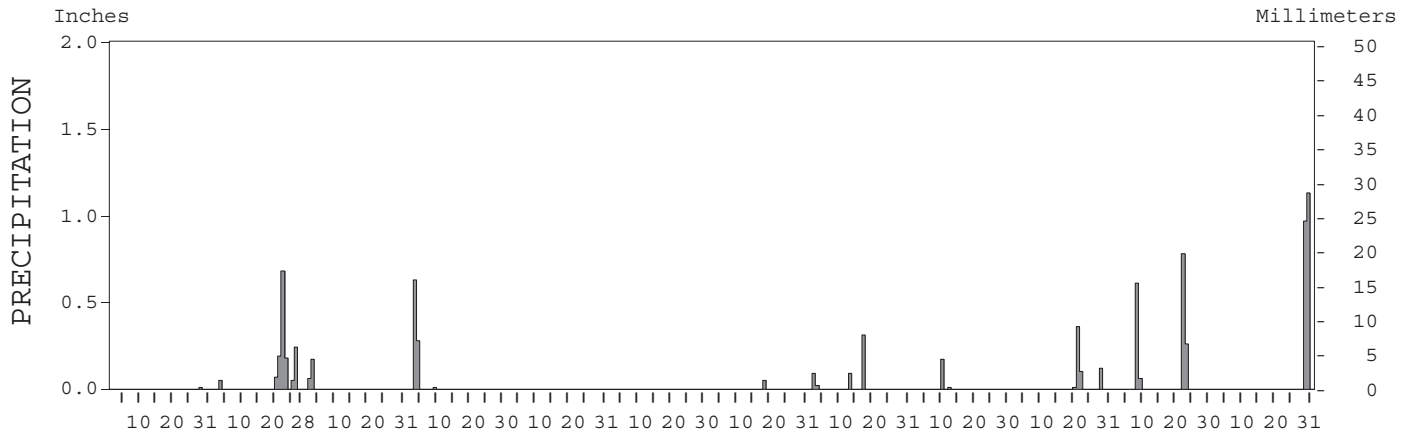
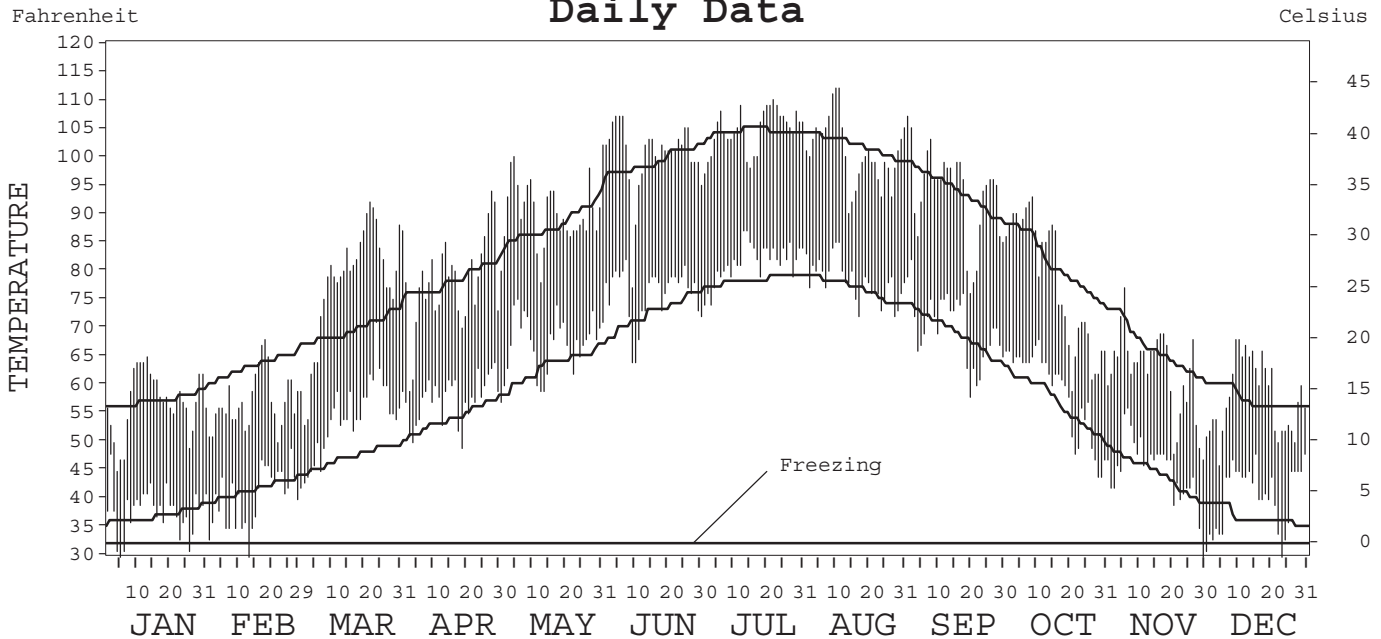
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-330X

LAS VEGAS,  
NEVADA (LAS)

## Daily Data



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 NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE  
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 ASHEVILLE, NORTH CAROLINA

# METEOROLOGICAL DATA FOR 2004

## LAS VEGAS, NV (LAS)

LATITUDE: 36° 04' 44" N      LONGITUDE: 115° 09' 19" W      ELEVATION (FT): GRND: 2127      BARO: 2091      TIME ZONE: PACIFIC (UTC + 8)      WBAN: 23169

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	57.0	57.3	78.4	78.1	90.6	100.2	104.6	100.8	93.4	77.9	62.2	57.8	79.9	
	HIGHEST DAILY MAXIMUM	65	68	92	94	102	107	110	112	107	93	77	68	112	
	DATE OF OCCURRENCE	13	18	21	27	31	06+	22	11+	01	09	06	11+	AUG 11+	
	MEAN DAILY MINIMUM	37.9	40.3	54.6	57.5	67.5	76.0	81.5	78.2	69.8	58.6	45.2	40.5	59.0	
	LOWEST DAILY MINIMUM	30	30	43	49	59	64	74	72	58	44	30	30	30	
	DATE OF OCCURRENCE	05	13	01	18	13+	10+	03+	28+	20	30+	30	24	DEC 24	
	AVERAGE DRY BULB	47.5	48.8	66.5	67.8	79.1	88.1	93.1	89.5	81.6	68.3	53.7	49.2	69.4	
	MEAN WET BULB	39.0	40.1	50.2	52.1	56.5	63.0	65.2	65.4	58.8	51.8	44.4	40.4	52.2	
	MEAN DEW POINT	26.9	27.4	32.9	36.1	35.4	44.4	45.5	49.1	38.9	34.6	33.0	28.6	36.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	3	3	16	28	31	31	22	5	0	0	0	139
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	4	1	0	0	0	0	0	0	0	0	1	2	8	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	536	462	71	29	0	0	0	0	0	80	332	483	1993	
	COOLING DEGREE DAYS	0	0	124	122	445	702	874	767	506	189	1	0	3730	
RH	MEAN (PERCENT)	48	48	32	35	22	22	21	27	25	35	50	49	34	
	HOUR 04 LST	60	57	43	44	29	25	23	33	32	43	60	60	42	
	HOUR 10 LST	44	44	26	33	20	22	20	24	23	34	43	44	31	
	HOUR 16 LST	31	37	21	26	17	19	19	21	18	26	38	37	26	
	HOUR 22 LST	54	51	35	40	21	20	21	29	26	36	54	52	37	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	THUNDERSTORMS	0	0	0	1	0	1	4	5	2	1	1	0	15	
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.)	27.81	27.76	27.72	27.63	27.56	27.54	27.59	27.62	27.60	27.62	27.79	27.84	27.67	
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	30.05		29.87	29.77	29.73	29.76	29.81	29.81	29.86	30.07	30.13		
WINDS	RESULTANT SPEED (MPH)	0.7	2.0	0.5	1.7	4.1	1.0	1.9	1.8	1.4	1.6	2.0	0.2	1.0	
	RES. DIR. (TENS OF DEGS.)	29	35	25	26	28	23	34	23	24	20	35	25	28	
	MEAN SPEED (MPH)	5.6	7.5	7.1	9.2	10.0	7.7	7.5	7.5	7.3	6.8	6.4	5.6	7.4	
	PREVAIL. DIR. (TENS OF DEGS.)	20	34	20	20	20	19	19	19	20	20	21	20	20	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	35	31	26	36	37	31	31	31	33	29	32	28	37	
	DIR. (TENS OF DEGS.)	32	26	20	34	34	34	07	34	20	35	34	03	34	
	DATE OF OCCURRENCE	03	18	26+	29+	11	16	25	15	19+	31	28	23	MAY 11	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	41	37	37	44	49	40	37	41	43	36	39	35	49	
DIR. (TENS OF DEGS.)	32	34	19	36	34	32	07	26	19	34	34	04	34		
DATE OF OCCURRENCE	03	07	26	28+	11	16	25	04	09	31	28	23	MAY 11		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.01	1.46	0.23	0.92	0.00	T	0.05	0.51	0.18	0.59	1.71	2.10	7.76	
	GREATEST 24-HOUR (IN.)	0.01	0.76	0.23	0.63	0.00	T	0.05	0.31	0.17	0.37	1.02	2.10	2.10	
	DATE OF OCCURRENCE	28	22-23	01-02	02		17+	17	16	09	19-20	21-22	28-29	DEC 28-29	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	1	7	2	3	0	0	1	4	2	4	4	2	30	
PRECIPITATION ≥ 0.10	0	4	1	2	0	0	0	1	1	3	3	2	17		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	1	1		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

# NORMALS, MEANS, AND EXTREMES

## LAS VEGAS, NV (LAS)

LATITUDE: 36° 04' 44" N      LONGITUDE: 115° 09' 19" W      ELEVATION (FT): GRND: 2127      BARO: 2091      TIME ZONE: PACIFIC (UTC + 8)      WBAN: 23169

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	57.1	63.0	69.5	78.1	87.8	98.9	104.1	101.8	93.8	80.8	66.0	57.3	79.8
	MEAN DAILY MAXIMUM	56	56.6	62.3	69.4	78.1	87.8	98.5	104.0	102.0	94.3	81.2	66.0	57.1	79.8
	HIGHEST DAILY MAXIMUM	56	77	87	92	99	109	115	116	116	113	103	87	77	116
	YEAR OF OCCURRENCE		1975	1986	2004	2000	2003	1994	1998	1979	1950	1978	1988	1980	JUL 1998
	MEAN OF EXTREME MAXS.	56	67.9	74.6	82.9	92.1	101.1	109.9	112.3	110.0	104.8	94.4	79.0	68.0	91.4
	NORMAL DAILY MINIMUM	30	36.8	41.4	47.0	53.9	62.9	72.3	78.2	76.7	68.8	56.5	44.0	36.6	56.3
	MEAN DAILY MINIMUM	56	34.6	39.0	44.4	51.7	60.9	70.2	76.7	75.2	66.9	54.6	42.2	34.8	54.3
	LOWEST DAILY MINIMUM	56	8	16	23	31	40	48	60	56	46	26	21	11	8
	YEAR OF OCCURRENCE		1963	1989	1971	1975	1964	1993	1987	1968	1965	1971	1952	1990	JAN 1963
	MEAN OF EXTREME MINS.	56	23.6	27.5	32.8	40.0	47.8	57.1	67.0	66.2	55.7	42.4	30.2	24.5	42.9
	NORMAL DRY BULB	30	47.0	52.2	58.3	66.0	75.4	85.6	91.2	89.3	81.3	68.7	55.0	47.0	68.1
	MEAN DRY BULB	56	45.6	50.7	56.9	64.8	74.4	84.4	90.5	88.5	80.5	68.0	54.1	45.8	67.0
	MEAN WET BULB	21	38.4	41.2	45.5	49.1	54.4	59.3	64.2	61.3	58.9	48.8	42.6	35.4	49.9
	MEAN DEW POINT	21	25.3	26.7	28.1	28.2	32.5	35.8	44.4	44.0	39.7	30.8	26.9	22.1	32.0
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	3.5	15.0	26.3	30.3	29.8	22.2	6.0	0.0	0.0	133.1	
MAXIMUM ≤ 32°	30	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.2	
MINIMUM ≤ 32°	30	9.1	3.2	0.6	*	0.0	0.0	0.0	0.0	0.0	0.1	2.0	9.0	24.0	
MINIMUM ≤ 0°	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	574	375	244	83	16	0	0	0	1	57	318	571	2239
	NORMAL COOLING DEG. DAYS	30	0	1	20	98	323	602	796	739	474	157	4	0	3214
RH	NORMAL (PERCENT)	30	48	43	36	26	23	17	21	25	26	29	36	44	31
	HOUR 04 LST	30	57	52	47	35	33	24	28	33	34	38	45	52	40
	HOUR 10 LST	30	43	38	32	23	20	15	20	23	23	26	32	38	28
	HOUR 16 LST	30	33	28	24	17	15	11	15	17	18	20	26	31	21
	HOUR 22 LST	30	51	45	39	27	24	17	21	25	26	30	39	46	32
S	PERCENT POSSIBLE SUNSHINE	47	77	81	83	87	88	93	88	88	91	87	81	78	85
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	57	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7
	THUNDERSTORMS	57	0.0	0.2	0.4	0.5	1.0	1.0	3.8	3.7	1.5	0.5	0.2	12.8	
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1		1.6		0.8	0.0								
	MIDNIGHT-MIDNIGHT (OKTAS)	1				0.8									
	MEAN NO. DAYS WITH:														
CLEAR	1	4.0	1.0	9.0		27.0	16.0								
PARTLY CLOUDY	1	2.0	3.0	6.0		1.0									
CLOUDY	1	1.0	3.0			1.0	1.0								
PR	MEAN STATION PRESSURE (IN)	32	27.80	27.79	27.70	27.60	27.60	27.60	27.60	27.60	27.60	27.70	27.80	27.81	27.68
	MEAN SEA-LEVEL PRES. (IN)	21	30.13	30.05	29.94	29.87	29.79	29.94	29.80	29.83	29.85	29.94	30.06	30.15	29.95
WINDS	MEAN SPEED (MPH)	40	7.3	8.5	10.0	11.0	11.2	11.1	10.1	9.6	8.9	8.0	7.6	7.0	9.2
	PREVAIL. DIR (TENS OF DEGS)	25	25	25	24	22	20	20	18	18	20	24	24	25	24
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	45	46	46	44	56	47	45	43	41	46	40	48	56
	DIR. (TENS OF DEGS)		23	22	33	24	22	33	03	32	16	33	24	34	22
	YEAR OF OCCURRENCE		1996	2001	2001	2002	2000	1998	1998	1998	1998	1996	2001	2000	MAY 2000
	MAXIMUM 5-SECOND:														
SPEED (MPH)	9	52	54	56	59	64	54	54	61	49	52	49	56	64	
DIR. (TENS OF DEGS)		24	20	34	24	26	33	04	16	23	33	24	33	26	
YEAR OF OCCURRENCE		1999	2001	2000	2002	2000	1998	1998	1998	1998	1996	2001	1999	MAY 2000	
PRECIPITATION	NORMAL (IN)	30	0.59	0.69	0.59	0.15	0.24	0.08	0.44	0.45	0.31	0.24	0.31	0.40	4.49
	MAXIMUM MONTHLY (IN)	56	3.00	2.89	4.80	2.44	0.96	0.97	2.48	2.59	2.06	1.22	2.22	2.10	4.80
	YEAR OF OCCURRENCE		1995	1998	1992	1965	1969	1990	1984	1957	1997	1992	1965	2004	MAR 1992
	MINIMUM MONTHLY (IN)	56	T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	YEAR OF OCCURRENCE		1984	1977	1972	1962	1970	1982	1981	1980	1971	1979	1980	1981	JUN 1982
	MAXIMUM IN 24 HOURS (IN)	56	1.09	1.30	1.27	0.97	0.83	0.97	1.36	2.59	1.07	1.09	1.78	2.10	2.59
	YEAR OF OCCURRENCE		1990	1993	1992	1965	1987	1990	1984	1957	1963	1992	1960	2004	AUG 1957
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	3.4	3.5	3.6	1.8	1.6	0.7	2.6	3.0	1.9	1.8	1.8	2.9	28.6	
PRECIPITATION ≥ 1.00	30	0.0	0.1	*	0.0	0.0	0.0	0.1	0.1	0.0	*	*	0.0	0.3	
SNOWFALL	NORMAL (IN)	30	0.9	0.1	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.*	1.0
	MAXIMUM MONTHLY (IN)	48	16.7	1.4	0.1	T	0.0	0.0	0.0	T	0.0	T	4.0	2.0	16.7
	YEAR OF OCCURRENCE		1949	1990	1976	1970				1989		1956	1964	1967	JAN 1949
	MAXIMUM IN 24 HOURS (IN)	48	9.0	6.9	0.1	T	0.0	0.0	0.0	T	0.0	T	4.0	2.0	9.0
	YEAR OF OCCURRENCE		1974	1979	1976	1970				1989		1956	1964	1967	JAN 1974
	MAXIMUM SNOW DEPTH (IN)	47	8	6	0	0	0	0	0	0	0	0	3	2	8
	YEAR OF OCCURRENCE		1974	1979									1964	1967	JAN 1974
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	

PRECIPITATION (inches) 2004 LAS VEGAS, NV (LAS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0.01	0.05	1.07	0.42	0.35	T	0.26	0.06	1.17	0.03	T	0.05	3.47
1976	0.00	2.49	0.02	0.13	0.34	0.00	1.95	0.00	1.09	0.70	0.02	0.03	6.77
1977	0.21	0.00	0.28	0.01	0.72	0.05	T	1.38	0.19	0.06	0.01	1.06	3.97
1978	1.00	1.51	1.13	0.36	0.54	0.00	0.19	0.53	0.03	0.62	0.59	1.15	7.65
1979	2.18	0.07	0.96	0.06	0.35	0.00	0.78	2.12	T	0.00	0.03	0.24	6.79
1980	1.45	2.25	0.94	0.18	0.15	T	0.43	0.00	0.18	0.04	0.00	0.01	5.63
1981	0.09	0.20	1.44	0.02	0.50	T	0.00	0.20	0.25	0.15	0.29	0.00	3.14
1982	0.09	1.10	0.29	0.01	0.31	0.00	0.05	0.71	0.07	0.04	0.60	0.72	3.99
1983	0.43	0.32	0.90	0.45	0.16	T	0.06	1.25	0.50	0.26	0.10	0.43	4.86
1984	T	0.03	T	0.04	0.00	0.22	2.48	0.99	0.47	T	0.94	1.68	6.85
1985	0.19	0.02	0.06	0.31	T	0.02	0.13	0.00	0.08	0.07	0.37	0.02	1.27
1986	0.23	0.15	0.32	0.10	0.28	T	0.13	0.04	0.05	0.07	0.81	0.47	2.65
1987	1.13	0.45	0.49	0.17	0.90	0.13	0.13	0.01	T	0.49	1.80	0.89	6.59
1988	0.65	0.26	0.00	0.76	T	0.04	0.04	0.46	T	0.00	T	0.08	2.29
1989	0.51	0.06	0.05	T	0.64	T	0.05	0.80	T	T	0.00	T	2.11
1990	1.18	0.37	T	0.18	T	0.97	0.59	T	0.19	0.17	0.10	T	3.75
1991	0.21	0.54	1.01	T	0.05	0.19	0.54	0.78	0.06	0.06	0.38	0.24	4.06
1992	0.45	1.30	4.80	0.02	0.05	0.09	0.03	0.21	0.00	1.22	0.00	1.71	9.88
1993	1.63	2.52	0.14	0.01	0.01	0.08	0.00	0.26	0.00	0.02	0.17	0.21	5.05
1994	0.04	0.48	0.13	T	0.01	0.00	0.11	0.08	0.35	T	0.28	1.08	2.56
1995	3.00	0.03	0.39	0.03	0.16	0.02	T	0.05	T	T	0.00	0.01	3.69
1996	0.13	0.14	0.10	0.00	0.13	T	1.18	T	0.00	0.11	0.79	0.18	2.76
1997	0.30	T	0.00	0.04	T	T	0.60	0.33	2.06	T	0.23	0.07	3.63
1998	0.17	2.89	1.03	0.14	0.13	0.03	0.46	0.23	1.29	0.22	0.33	0.43	7.35
1999	T	0.08	T	0.73	T	0.14	2.18	0.25	0.35	T	0.00	T	3.73
2000	T	1.59	0.21	T	T	T	T	0.71	0.00	0.92	T	0.04	3.47
2001	0.87	2.21	0.16	0.04	0.02	T	0.39	0.05	T	0.00	0.09	0.11	3.94
2002	T	T	0.10	0.00	0.00	0.00	0.52	0.00	0.31	0.32	0.12	0.07	1.44
2003	0.02	2.13	0.32	0.38	0.01	0.00	1.08	0.83	0.52	0.00	0.61	0.96	6.86
2004	0.01	1.46	0.23	0.92	0.00	T	0.05	0.51	0.18	0.59	1.71	2.10	7.76
POR= 68 YRS	0.54	0.59	0.49	0.25	0.18	0.08	0.46	0.42	0.36	0.24	0.35	0.42	4.38

WBAN : 23169

AVERAGE TEMPERATURE (°F) 2004 LAS VEGAS, NV (LAS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	45.3	48.8	53.9	56.6	72.5	83.8	90.3	87.5	81.7	66.1	53.0	48.2	65.6
1976	46.9	53.2	53.4	62.6	77.8	81.5	86.9	85.5	78.7	66.5	58.0	46.4	66.5
1977	45.7	54.2	52.6	68.6	67.7	88.0	92.4	90.1	80.6	71.4	57.2	51.9	68.4
1978	47.9	52.1	59.9	63.1	73.1	87.1	91.9	89.0	79.0	73.5	54.2	42.9	67.8
1979	41.1	48.4	56.0	66.1	75.4	85.5	91.1	85.9	85.3	70.7	51.6	47.2	67.0
1980	49.5	53.2	54.2	63.5	69.0	83.9	92.0	90.2	81.4	68.9	56.8	52.7	67.9
1981	51.1	52.5	56.4	70.6	74.3	88.8	92.7	90.0	82.5	64.4	58.0	48.8	69.2
1982	45.6	50.5	55.1	63.8	73.6	81.5	88.1	87.3	77.9	63.0	50.5	44.5	65.1
1983	46.6	51.7	56.4	58.5	72.8	82.8	88.5	83.8	82.5	67.8	55.3	47.9	66.2
1984	47.1	50.1	57.9	63.1	80.7	83.5	88.2	85.4	81.7	63.0	52.7	44.0	66.5
1985	44.4	47.4	54.9	68.2	76.9	87.4	92.0	89.9	75.4	67.3	51.7	48.3	67.0
1986	51.7	55.8	63.0	66.2	76.6	87.8	87.6	91.2	75.4	65.0	55.8	46.0	68.5
1987	44.7	51.4	54.6	68.4	74.5	86.3	86.9	88.2	81.2	71.0	53.4	42.5	66.9
1988	45.1	52.4	58.1	64.2	73.4	85.3	92.6	86.9	79.1	74.9	56.0	46.0	67.8
1989	43.9	50.0	63.4	72.7	75.7	85.3	93.4	86.9	80.0	67.2	57.3	48.0	68.7
1990	45.2	48.8	60.5	68.8	74.5	85.9	90.8	87.8	82.0	69.2	55.1	40.2	67.4
1991	45.5	55.9	52.7	64.2	69.9	82.1	90.2	87.8	81.9	72.2	55.2	47.0	67.1
1992	45.9	54.1	56.8	70.5	77.7	83.2	88.7	90.5	83.7	70.9	52.7	43.6	68.2
1993	45.7	50.1	60.9	67.5	77.0	82.5	89.4	88.5	81.3	69.1	51.5	46.3	67.5
1994	49.3	48.5	62.7	67.6	76.6	90.3	93.3	92.9	83.1	67.2	49.4	47.5	69.0
1995	47.5	58.7	57.9	64.8	71.0	80.9	92.4	93.1	83.7	69.4	59.8	48.9	69.0
1996	48.5	54.8	59.8	68.3	77.3	87.0	93.2	91.9	80.4	66.8	56.5	47.9	69.4
1997	48.3	51.7	62.7	65.4	81.6	84.3	88.2	90.7	81.3	67.3	56.2	45.9	68.6
1998	48.7	49.4	56.6	61.1	70.0	80.0	91.7	92.0	80.0	66.6	54.8	47.8	66.6
1999	50.5	52.7	60.6	60.9	75.3	85.2	88.2	88.0	81.6	71.6	58.8	48.7	68.5
2000	51.4	53.6	58.6	71.2	80.8	88.7	92.3	90.5	81.7	67.3	50.2	49.5	69.7
2001	46.4	49.8	60.6	65.0	82.2	87.9	90.3	91.9	85.1	72.1	58.6	45.4	69.6
2002	46.1	51.9	55.5	69.7	75.8	88.1	94.6	90.6	82.8	67.4	56.8	47.5	68.9
2003	54.2	51.6	59.6	62.9	77.9	87.9	94.8	90.3	84.4	75.4	52.6	47.9	70.0
2004	47.5	48.8	66.5	67.8	79.1	88.1	93.1	89.5	81.6	68.3	53.7	49.2	69.4
POR= 68 YRS	45.3	50.1	56.6	64.7	74.3	83.9	90.1	88.2	80.2	67.7	53.8	46.0	66.7

HEATING DEGREE DAYS (base 65°F) 2004 LAS VEGAS, NV (LAS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0	0	0	73	354	516	553	339	357	124	1	0	2317
1976-77	0	0	0	39	212	569	593	297	374	45	56	0	2185
1977-78	0	0	0	3	226	399	522	356	168	91	16	0	1781
1978-79	0	0	1	2	324	676	737	458	270	66	18	0	2552
1979-80	0	0	0	44	395	546	474	335	328	108	32	0	2262
1980-81	0	0	0	82	255	374	426	344	263	29	2	0	1775
1981-82	0	0	0	74	214	497	594	398	301	98	9	0	2185
1982-83	0	0	10	84	429	631	564	364	263	198	21	0	2564
1983-84	0	0	0	3	297	524	548	424	216	111	0	0	2123
1984-85	0	0	0	127	363	641	629	487	308	41	0	0	2596
1985-86	0	0	1	31	393	512	404	270	125	57	11	0	1804
1986-87	0	0	14	53	268	586	622	375	316	40	1	0	2275
1987-88	0	0	0	18	342	689	612	357	225	83	33	0	2359
1988-89	0	0	0	0	291	581	647	425	118	23	16	0	2101
1989-90	0	0	0	70	224	519	606	449	172	12	0	0	2052
1990-91	0	0	0	23	290	761	597	247	376	57	25	2	2378
1991-92	0	0	0	77	297	552	584	308	248	7	0	0	2073
1992-93	0	0	0	16	364	655	591	410	143	32	3	8	2222
1993-94	0	0	0	33	398	573	480	455	93	60	1	0	2093
1994-95	0	0	0	35	465	537	537	170	230	90	18	6	2088
1995-96	0	0	0	22	151	490	504	287	169	22	11	0	1656
1996-97	0	0	0	138	249	524	512	368	115	117	0	0	2023
1997-98	0	0	0	57	259	583	500	426	270	166	23	0	2284
1998-99	0	0	0	39	296	525	444	337	143	188	5	6	1983
1999-00	0	0	0	11	184	499	412	325	195	16	3	0	1645
2000-01	0	0	0	80	436	474	570	421	175	114	2	0	2272
2001-02	0	0	0	0	204	602	578	363	304	34	7	0	2092
2002-03	0	0	0	39	244	536	331	368	187	109	10	0	1824
2003-04	0	0	0	9	365	524	536	462	71	29	0	0	1996
2004-	0	0	0	80	332	483							

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COOLING DEGREE DAYS (base 65°F) 2004 LAS VEGAS, NV (LAS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	2	2	276	570	792	704	508	117	2	0	2973
1976	0	0	2	57	404	500	687	641	419	93	6	0	2809
1977	0	0	0	161	149	694	858	781	476	210	3	0	3332
1978	0	0	17	40	277	672	841	752	425	268	8	0	3300
1979	0	0	0	104	346	625	813	656	614	229	0	0	3387
1980	0	0	0	68	160	575	842	788	498	211	15	0	3157
1981	0	0	5	205	296	721	866	781	531	64	12	0	3481
1982	0	0	2	70	281	501	721	699	404	30	0	0	2708
1983	0	0	2	9	269	541	735	589	534	94	10	0	2783
1984	0	0	3	61	496	563	724	641	508	74	1	0	3071
1985	0	0	0	143	377	678	844	778	319	110	2	0	3251
1986	0	20	69	98	379	693	707	821	332	59	0	0	3178
1987	0	0	0	148	302	645	685	729	495	211	0	0	3215
1988	0	0	16	64	300	615	864	685	434	312	31	0	3321
1989	0	11	74	259	351	614	887	687	456	143	0	0	3482
1990	0	0	42	134	302	634	810	713	516	163	0	0	3314
1991	0	0	0	42	187	524	788	714	515	307	12	0	3089
1992	0	0	0	180	402	552	742	798	571	206	3	0	3454
1993	0	0	21	114	381	537	765	737	494	166	0	0	3215
1994	0	0	31	145	369	768	883	870	551	108	0	0	3725
1995	0	0	13	91	211	490	856	880	570	168	2	0	3281
1996	0	3	16	129	402	665	883	841	471	201	0	0	3611
1997	0	0	48	136	522	584	727	805	494	137	4	0	3457
1998	0	0	18	55	186	457	834	842	456	95	0	0	2943
1999	0	0	13	74	333	620	726	719	508	221	3	0	3217
2000	0	0	3	208	498	719	851	799	509	158	0	0	3745
2001	0	0	47	122	541	692	792	843	609	231	17	0	3894
2002	0	0	13	182	349	700	923	802	539	123	5	0	3636
2003	0	1	26	52	416	695	930	792	591	335	0	0	3838
2004	0	0	124	122	445	702	874	767	506	189	1	0	3730

SNOWFALL (inches) 2004 LAS VEGAS, NV (LAS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
1976-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978-79	0.0	0.0	0.0	0.0	0.0	T	9.9	0.3	0.0	0.0	0.0	0.0	10.2
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T
1985-86	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	T	0.6	0.0	0.0	0.0	0.0	0.6
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1988-89	0.0	0.0	0.0	0.0	0.0	T	0.0	0.3	0.0	0.0	0.0	0.0	0.3
1989-90	0.0	T	0.0	0.0	0.0	0.0	T	1.4	0.0	0.0	0.0	0.0	1.4
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1994-95	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-													
POR= 47 YRS	0.0	T	0.0	T	0.1	0.1	0.9	0.1	0.0	T	0.0	0.0	1.2

WBAN : 23169

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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2004  
LAS VEGAS,  
NEVADA (LAS)

Las Vegas is situated near the center of a broad desert valley, which is almost surrounded by mountains ranging from 2,000 to 10,000 feet higher than the floor of the valley. This Vegas Valley, comprising about 600 square miles, runs from northwest to southeast, and slopes gradually upward on each side toward the surrounding mountains. Weather observations are taken at McCarran Airport, 7 miles south of downtown Las Vegas, and about 5 miles southwest and 300 feet higher than the lower portions of the valley. Since mountains encircle the valley, drainage winds are usually downslope toward the center, or lowest portion of the valley. This condition also affects minimum temperatures, which in lower portions of the valley can be from 15 to 25 degrees colder than recorded at the airport on clear, calm nights.

The four seasons are well defined. Summers display desert conditions, with maximum temperatures usually in the 100 degree range. The proximity of the mountains contributes to the relatively cool summer nights, with the majority of minimum temperatures in the mid 70s. During about 2 weeks almost every summer warm, moist air predominates in this area, and causes scattered thunderstorms, occasionally quite severe, together with higher than average humidity. Soil erosion, especially near the mountains and foothills surrounding the valley, is evidence of the intensity of some of the thunderstorm activity. Winters, on the whole, are mild and pleasant. Daytime temperatures average near 60 degrees with mostly clear skies. The spring and fall seasons are generally considered most ideal, although rather sharp temperature changes can occur during these months. There are very few days during the spring and fall months when outdoor activities are affected in any degree by the weather.

The Sierra Nevada Mountains of California and the Spring Mountains immediately west of the Vegas Valley, the latter rising to elevations over 10,000 feet above the valley floor, act as effective barriers to moisture moving eastward from the Pacific Ocean. It is mainly these barriers that result in a minimum of dark overcast and rainy days. Rainy days average less than one in June to three per month in the winter months. Snow rarely falls in this valley and it usually melts as it falls, or shortly thereafter. Notable exceptions have occurred.

Strong winds, associated with major storms, usually reach this valley from the southwest or through the pass from the northwest. Winds over 50 mph are infrequent but, when they do occur, are probably the most provoking of the elements experienced in the Vegas Valley, because of the blowing dust and sand associated with them.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is November 21 and the average last occurrence in the spring is March 7.

# STATION LOCATION

LAS VEGAS, 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										HYGRO THERMOMETER
						GROUND TEMPERATURE	SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	WINDHRAIN GAUGE	8 INCH RAIN GAUGE				
*NOTE: <u>AIRPORT</u> Weather Service Trailer McCarran International Airport	2/27/76	09/01/95	1000' S	36°05'	115°10'	2162	e20	5 d34	5 d34	%36	3 d32		4 d32	e4 f6	d. Moved to new site 9/22/76. %. commissioned 9/22/76. e. Not moved 2/27/76. f. Minor adjustment & type change 01/01/86.			
McCarran Int'l Airport	09/01/95	Present		36°05'	115°09'	g2127								S	ASOS Commissioned 09/01/95 g. Ground elevation.			

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