



JULY 1998

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

LAS VEGAS, NV

MCCARRAN INTERNATIONAL APT (LAS)
 Lat: 36°04' N Long: 115°09' W Elev (Ground): 2162 Feet
 Time Zone: PACIFIC WBAN: 23169 ISSN #: 0198-3318

JULY 1998
LAS VEGAS, NV

DATE	TEMPERATURE °F							DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE																	
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING	0400 LST		1000 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																							
																			5-SEC	2-MIN	SPEED	DIR	SPEED	DIR																		
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																				
01	106	73	90	1	37	61	0	25				0.00	27.50	29.68	4.7	22	6.9	23	24	17	24	01																				
02	106	76	91	1	38	62	0	26				0.00	27.45	29.63	8.2	22	9.9	32	20	26	21	02																				
03	104	80	92	2	43	63	0	27				0.00	27.48	29.66	9.4	19	11.3	33	20	25	20	03																				
04	103	77	90	0	43	63	0	25				0.00	27.55	29.73	8.7	18	10.3	29	22	23	22	04																				
05	98	82	90	0	57	68	0	25	TS RA			0.04	27.63	29.83	2.7	15	8.9	30	09	25	10	05																				
06	100	77	89	-1	58	70	0	24				0.00	27.70	29.90	3.7	10	7.6	29	11	25	10	06																				
07	104	79	92	2	49	66	0	27				0.00	27.66	29.85	4.0	21	6.8	18	22	16	24	07																				
08	105	80	93	2	49	66	0	28				0.00	27.60	29.79	5.6	21	7.4	21	20	16	25	08																				
09	101	83	92	1	58	69	0	27	TS TSRA FU			0.05	27.57	29.75	3.1	12	8.6	32	10	29	10	09																				
10	108	78	93	2	51	67	0	28				0.00	27.59	29.78	6.0	20	9.5	32	21	23	23	10																				
11	110	79	95	4	41	64	0	30				0.00	27.60	29.78	9.0	21	11.7	30	22	24	24	11																				
12	109	78	94	3	32	61	0	29				0.00	27.62	29.81	7.0	21	9.5	28	21	22	24	12																				
13	109	81	95	4	34	62	0	30				0.00	27.58	29.76	9.2	21	11.0	26	21	23	19	13																				
14	107	78	93	2	38	62	0	28				0.00	27.59	29.78	3.0	18	6.8	18	18	15	18	14																				
15	111	77	94	3	33	61	0	29				0.00	27.60	29.78	1.8	25	4.3	11	19	10	26	15																				
16	116*	79	98	7	40	65	0	33				0.00	27.60	29.78	2.1	20	6.5	17	11	15	24	16																				
17	114	84	99	7	49	69	0	34				0.00	27.58	29.75	3.7	14	7.4	36	16	28	16	17																				
18	113	86	100*	8	54	70	0	35				0.00	27.55	29.72	4.7	15	9.9	37	15	31	16	18																				
19	109	74	92	0	59	72	0	27	TSRA HZ SQ			0.10	27.59	29.77	7.0	16	11.1	54*	04	45*	03	19																				
20	100	72	86	-6	63	71	0	21	TSRA RA			0.26	27.66	29.86	5.4	18	8.9	30	18	26	18	20																				
21	102	78	90	-2	64	72	0	25	TS RA			T	27.63	29.83	3.5	17	8.7	32	10	30	08	21																				
22	95	76	86	-6	66	72	0	21	RA			T	27.64	29.85	4.4	18	7.3	29	16	24	16	22																				
23	89	77	83	-9	68	72	0	18	RA			0.01	27.66	29.87	5.8	06	8.4	24	02	20	02	23																				
24	92	72*	82*	-10	66	71	0	17	TS TSRA			T	27.70	29.91	5.0	09	7.3	26	15	23	15	24																				
25	103	77	90	-2	58	70	0	25				0.00	27.71	29.91	1.5	18	6.0	16	02	14	03	25																				
26	106	78	92	0	51	67	0	27				0.00	27.70	29.89	1.1	29	5.5	17	02	14	04	26																				
27	107	84	96	4	54	69	0	31				0.00	27.65	29.84	4.0	34	8.1	26	02	21	03	27																				
28	107	83	95	4	52	68	0	30				0.00	27.61	29.80	2.9	08	5.6	20	12	14	16	28																				
29	109	85	97	6	53	69	0	32	TS			0.00	27.57	29.74	5.4	17	10.4	31	18	26	18	29																				
30	106	76	91	0	40	63	0	26				0.00	27.53	29.72	11.2	22	13.1	34	24	28	23	30																				
31	100	78	89	-2	35	59	0	24				0.00	27.60	29.80	12.9	21	14.4	34	18	30	18	31																				
< MONTHLY AVERAGES											TOTALS-->				0.46	27.60	29.79	1.1	26	8.7	<-- MONTHLY AVERAGES																					
-1.1											2.4		0.6		<----- DEPARTURE FROM NORMAL ----->											0.11	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3															
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 0.36				DATE: 19-20		SEA LEVEL PRESSURE				DATE		TIME																			
MONTHLY TOTAL DEPARTURE											SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL:				DATE:		MAXIMUM				DATE		TIME															
HEATING: 0											0				0				0		MINIMUM				02 1658																	
COOLING: 834											25				1550				-287		NUMBER OF DAYS WITH				->		MAXIMUM TEMP ≥ 90: 30				MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 5									
																											MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 2									
																																	THUNDERSTORMS: 7				HEAVY FOG: 0		SNOWFALL ≥ 1.0 INCH: :			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

LAS VEGAS, NV

JULY 1998

LAS

WBAN # 23169

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05					T						0.04		05												05		0.04		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09												0.03	09	0.02											09		0.05		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19													19												19	0.00	0.10		
20	0.15	0.02	0.03	0.05	0.03								20											20	0.28	0.26			
21													21											21		T			
22													22											22		T			
23		T	0.01	T		T							23											23		0.01			
24													24											24		T			
25													25											25		0.00			
26													26											26		0.00			
27													27											27		0.00			
28													28											28		0.00			
29													29											29		0.00			
30													30											30		0.00			
31													31											31		0.00			

MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one)

T = Trace precipitation amount

+ = also occurs on earlier date

FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1961 – 1990

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PE Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy '' = Moderate '-' = Light

LAS VEGAS, NV JULY 1998

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

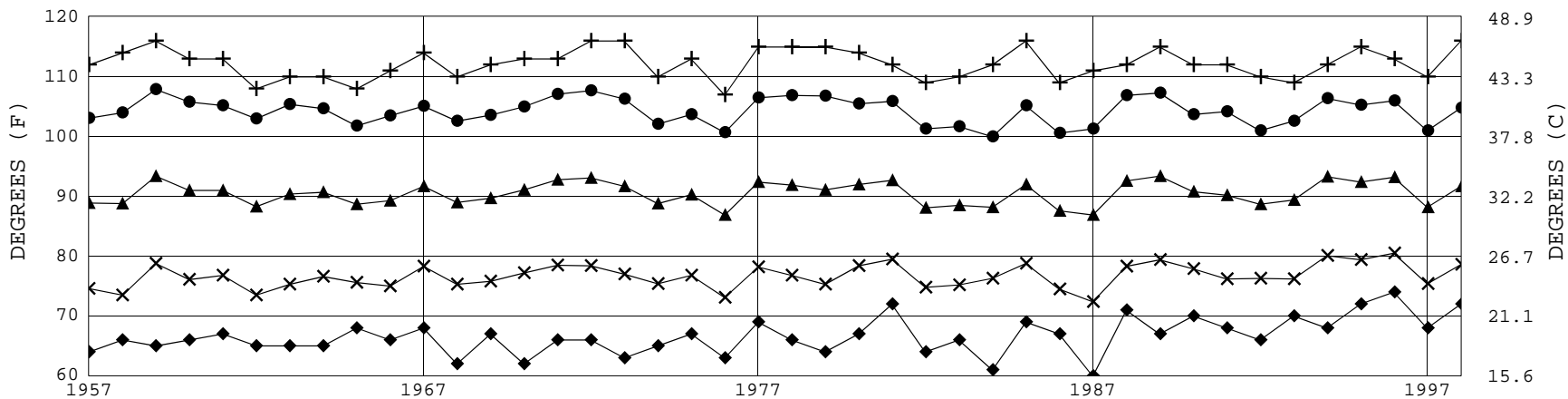
Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled at constant pressure by evaporation of moisture into it, to 100% relative humidity.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES AND CORRECTIONS:
Sunrise and sunset times listed in the March and April 1998 LCD were incorrect and should not be used.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							7.00	10.00	
19							7.00	10.00	
20							9.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							9.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							9.74	10.00	
SUNSHINE (MINUTES)									
Total:					Possible:				
					Percent Possible:				
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR			PTLY CLDY		CLOUDY		MISSING		
							31		
MINIMUM VISIBILITY (MILES)									
<=0.25			<=3.0			>=7.0			
0			0			31			

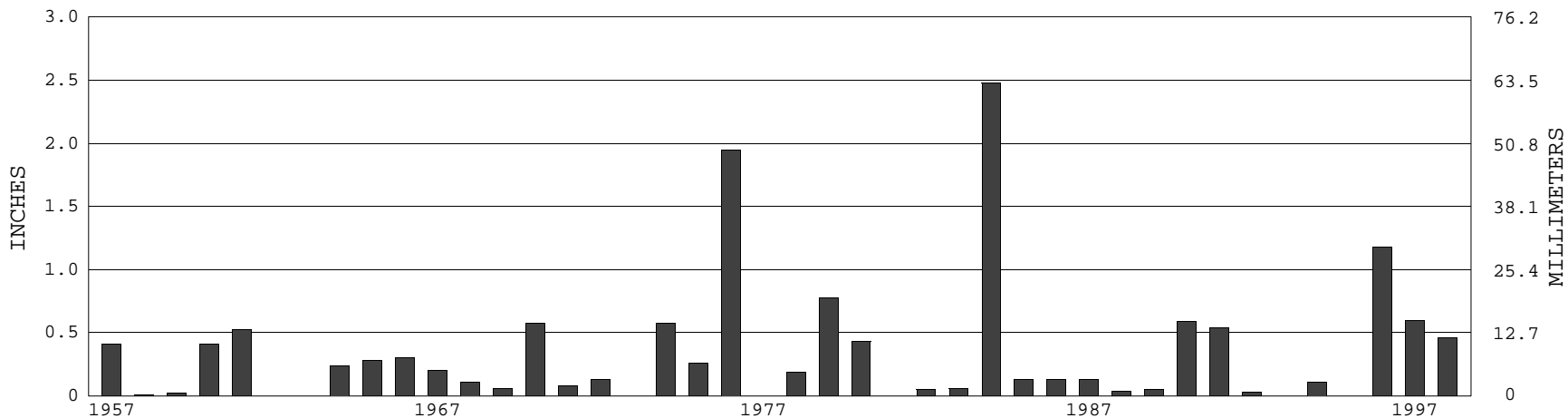
LAS VEGAS, NV JULY TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1957-1998) Mean: 90.5 1961-1990 Normal: 91.1

LAS VEGAS, NV JULY PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 0.34

1961-1990 Normal: 0.35



**JULY 1998
LAS VEGAS, NV**

LOCAL CLIMATOLOGICAL DATA

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

DIRECTOR

NOTICE

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

We welcome your questions or comments, please contact us at
704-271-4800 (voice), 704-271-4876 (fax),
704-271-4010(TDD)
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