



JULY 2013

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

LAS VEGAS, NV
MCCARRAN INTERNATIONAL AIRPORT (KLAS)
Lat:36° 4'N Long: 115° 9'W Elev (Ground) 2180 Feet
Time Zone : PACIFIC WBAN: 23169 ISSN#: 0198-3318



Date	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		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																																												
																			3-SEC		2-MIN																																										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																								
01	114	95	105*	15	44	67	0	40		0		0.0	0.00	27.50	29.67	5.0	20	8.6	29	21	22	24	01																																								
02	115*	90	103	13	42	67	0	38		0		0.0	0.00	27.51	29.68	9.6	22	11.0	26	26	21	25	02																																								
03	113	92	103	13	42	67	0	38		0		0.0	0.00	27.44	29.61	4.4	22	7.8	26	28	22	28	03																																								
04	113	91	102	11	42	67	0	37		0		0.0	0.00	27.39	29.55	4.9	22	9.2	30	34	24	33	04																																								
05	111	89	100	9	48	67	0	35		0		0.0	0.00	27.39	29.56	10.7	19	12.0	35	18	28	18	05																																								
06	105	88	97	6	46	66	0	32	RA	0		0.0	0.01	27.44	29.61	11.6	18	12.0	28	20	22	19	06																																								
07	105	84	95	4	46	65	0	30	TS TSRA RA	0		0.0	T	27.47	29.64	4.5	18	6.3	30	18	20	19	07																																								
08	108	83	96	5	30	61	0	31		0		0.0	0.00	27.57	29.75	9.7	22	10.2	39	25	30	24	08																																								
09	109	86	98	7	26	61	0	33		0		0.0	0.00	27.62	29.81	13.2	21	13.9	33	19	23	21	09																																								
10	109	88	99	8	45	66	0	34		0		0.0	0.00	27.55	29.73	6.0	19	7.8	28	16	22	16	10																																								
11	93	81	87	-4	58	69	0	22	TS TSRA RA	0		0.0	0.04	27.58	29.76	5.5	18	7.5	31	18	23	18	11																																								
12	94	81	88	-3	59	69	0	23		0		0.0	0.00	27.58	29.79	4.4	16	5.9	21	18	16	17	12																																								
13	103	80	92	0	51	67	0	27		0		0.0	0.00	27.58	29.77	6.9	18	7.6	23	16	16	17	13																																								
14	105	84	95	3	47	66	0	30		0		0.0	0.00	27.55	29.74	5.9	18	6.8	24	14	17	14	14																																								
15	108	89	99	7	46	66	0	34		0		0.0	0.00	27.47	29.64	9.2	20	10.2	28	18	22	18	15																																								
16	107	85	96	4	38	63	0	31		0		0.0	0.00	27.53	29.71	11.5	20	12.7	28	23	23	23	16																																								
17	105	83	94	2	33	62	0	29		0		0.0	0.00	27.63	29.82	7.2	19	8.8	24	23	20	23	17																																								
18	109	84	97	5	32	62	0	32		0		0.0	0.00	27.57	29.76	6.8	19	7.5	23	18	18	18	18																																								
19	109	75*	92	0	54	69	0	27	TS TSRA RA	0		0.0	0.22	27.53	29.71	2.8	19	7.9	54*	04	43*	03	19																																								
20	105	77	91	-1	60	71	0	26	TS TSRA RA	0		0.0	0.03	27.52	29.69	5.2	18	9.6	45	34	35	34	20																																								
21	91	79	85*	-6	64	71	0	20	RA	0		0.0	T	27.57	29.76	7.3	18	8.2	26	20	21	20	21																																								
22	98	79	89	-2	61	70	0	24		0		0.0	0.00	27.62	29.81	2.7	16	6.5	23	35	17	32	22																																								
23	98	80	89	-2	58	69	0	24	RA	0		0.0	T	27.62	29.81	4.4	20	5.6	26	19	22	19	23																																								
24	106	83	95	4	55	69	0	30		0		0.0	0.00	27.55	29.73	7.0	20	7.5	21	19	15	19	24																																								
25	110	88	99	8	51	68	0	34		0		0.0	0.00	27.58	29.75	8.1	19	8.8	28	16	22	18	25																																								
26	106	81	94	3	55	69	0	29		0		0.0	0.00	27.66	29.86	5.9	19	10.3	38	04	30	05	26																																								
27	93	79	86	-5	60	69	0	21		0		0.0	0.00	27.64	29.84	2.2	33	7.1	25	04	20	33	27																																								
28	95	79	87	-4	58	68	0	22	TS TSRA RA	0		0.0	T	27.52	29.73	3.8	23	9.0	51	34	40	34	28																																								
29	102	76	89	-2	47	64	0	24		0		0.0	0.00	27.60	29.79	8.9	20	9.2	33	21	22	19	29																																								
30	104	82	93	2	40	63	0	28		0		0.0	0.00	27.70	29.89	8.2	19	8.9	30	19	21	19	30																																								
31	107	82	95	4	45	65	0	30		0		0.0	0.00	27.64	29.83	10.0	20	10.5	35	20	25	20	31																																								
										104.8				83.6		94.2		α		47.8		66.5		0.0		29.5		< MONTHLY AVERAGES TOTALS >				0.0		0.30		27.55		29.74		6.5		20		8.9		< MONTHLY AVERAGES																	
										0.6				2.7		1.7		α		<-----DEPARTURE FROM NORMAL----->																				-0.10				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 0.22 DATE : 19										SEA LEVEL PRESSURE										DATE TIME																																	
MONTHLY										GREATEST 24-HR SNOWFALL : 0.0 DATE :										MAXIMUM :										29.96 30 0952																																	
TOTAL DEPARTURE										GREATEST SNOW DEPTH : 0 DATE :										MINIMUM :										29.46 04 1656																																	
SEASON TO DATE										NUMBER OF -> DAYS WITH										MAXIMUM TEMP >= 90 : 31										MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH: 4																													
TOTAL DEPARTURE										THUNDERSTORMS : 5										MAXIMUM TEMP <= 32 : 0										MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 1																													
HEATING : 0 0																														SNOWFALL >= 1.0 INCH : 0																																	
COOLING : 915 61																																																															

JULY 2013
LAS VEGAS, NV

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

LAS VEGAS, NV (KLAS)
JULY 2013

WBAN # 23169

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06							0.01						06												06	0.01	0.01	
07							T		T				07												07	T	T	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11						0.04		T		T			11	T		T									11	0.04	0.04	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.22	0.22	
20													20						T	0.22		T			20	0.03	0.03	
21													21	T		T									21	T	T	
22													22												22	0.00	0.00	
23													23	T		T									23	T	T	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28			T		T							28	T	T	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31												31	0.00	0.00	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.10	0.17	0.20	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Ending Date	19	19	19	19	19	19	19	19	19	19	19	19
Ending Time (Hr/Min)	1914	1917	1919	1922	1927	1927	1927	1927	1927	1927	1927	1927

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

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.

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).

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	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	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

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

LAS VEGAS, NV JULY 2013

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

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.

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

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Station Augmentation-CONTRACTOR
Lat/Lon:36.08333/-115.14639 Elevation:2127FT
Distance:.5 MI Dir:SW
Augmented Elements:Temp, Precip
Equipment:PSY, SRG

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	10.00	10.00
03	10.00	10.00
04	9.00	10.00
05	9.00	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	9.00	10.00
17	7.00	10.00
18	10.00	10.00
19	4.00	10.00
20	10.00	10.00
21	10.00	10.00
22	10.00	10.00
23	10.00	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
AVGS	9.61	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	0	30

OBSERVATIONS AT 3-HOURLY INTERVALS

LAS VEGAS, NV JULY 2013 KLAS

WBAN # 23169

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)																																																																																																																																																																																							
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL																																																																																																																																																																																						
SUNRISE: 0427					JUL 01					SUNSET: 1901					SUNRISE: 0430					JUL 07					SUNSET: 1901																																																																																																																																																																																						
01	BKN	220	10.00		99	43	65	15	6	12	27.49	29.64	01	SCT	150	10.00		95	43	64	17	14	19	27.44	29.61	04	BKN	150	10.00		89	43	62	20	7	19	27.46	29.63	07	BKN	200	10.00		98	49	67	19	16	18	27.53	29.70	10	SCT	250	10.00		105	46	68	14	7	17	27.55	29.72	13	SCT	250	10.00		111	43	69	10	6	09	27.51	29.67	16	SCT	250	10.00		112	44	70	10	0	00	27.45	29.61	19	BKN	250	10.00		108	43	68	11	17	19	27.49	29.65	22	BKN	250	10.00		104	42	67	12	9	31	27.52	29.68																																																																																											
SUNRISE: 0428					JUL 02					SUNSET: 1901					SUNRISE: 0431					JUL 08					SUNSET: 1900																																																																																																																																																																																						
01	BKN	250	10.00		97	43	65	16	0	00	27.53	29.70	01	FEW	140	10.00		91	46	64	21	0	00	27.52	29.69	04	BKN	220	10.00		92	44	64	19	9	19	27.54	29.71	07	SCT	250	10.00		98	46	66	17	0	00	27.58	29.75	10	SCT	250	10.00		106	41	67	11	3	21	27.58	29.75	13	SCT	250	10.00		113	39	68	8	13	24	27.52	29.69	16	SCT	250	10.00		112	39	68	8	18	23	27.45	29.61	19	SCT	250	10.00		108	41	68	10	14	24	27.45	29.61	22	SCT	200	10.00		104	42	67	12	10	23	27.48	29.63																																																																																											
SUNRISE: 0428					JUL 03					SUNSET: 1901					SUNRISE: 0431					JUL 09					SUNSET: 1900																																																																																																																																																																																						
01	BKN	210	10.00		98	43	65	15	16	19	27.48	29.63	01	FEW	090	10.00		90	20	56	8	14	20	27.62	29.80	04	BKN	180	10.00		93	44	64	18	8	19	27.48	29.65	07	SCT	200	10.00		95	50	67	22	3	27	27.53	29.70	10	SCT	250	10.00		103	47	68	15	3	VR	27.52	29.69	13	SCT	250	10.00		110	40	68	9	3	VR	27.47	29.63	16	SCT	250	10.00		111	36	67	8	5	15	27.37	29.53	19	BKN	250	10.00		108	40	67	10	6	17	27.37	29.52	22	BKN	220	10.00		105	41	67	11	17	33	27.40	29.56																																																																																											
SUNRISE: 0429					JUL 04					SUNSET: 1901					SUNRISE: 0432					JUL 10					SUNSET: 1860																																																																																																																																																																																						
01	SCT	220	10.00		100	42	65	14	7	28	27.41	29.57	01	BKN	220	10.00		94	31	60	11	13	20	27.58	29.75	04	BKN	200	10.00		93	41	63	16	14	20	27.40	29.56	07	BKN	250	10.00		99	43	65	15	5	32	27.44	29.60	10	SCT	250	10.00		105	42	67	12	6	15	27.45	29.61	13	SCT	250	10.00		109	41	68	10	8	21	27.41	29.56	16	BKN	200	10.00		112	45	70	11	10	17	27.32	29.47	19	SCT	200	10.00		109	41	68	10	14	22	27.33	29.47	22	FEW	140	10.00		101	45	67	15	11	30	27.39	29.55																																																																																											
SUNRISE: 0429					JUL 05					SUNSET: 1901					SUNRISE: 0433					JUL 11					SUNSET: 1860																																																																																																																																																																																						
01	SCT	150	9.00		96	48	66	19	9	25	27.40	29.56	01	BKN	200	10.00		93	45	64	19	9	20	27.52	29.69	04	OVC	220	10.00		91	53	67	27	0	00	27.41	29.57	07	BKN	150	10.00		93	51	67	24	8	19	27.46	29.62	10	BKN	150	10.00		101	51	69	19	9	17	27.45	29.61	13	BKN	150	10.00		105	51	70	16	18	17	27.39	29.55	16	BKN	150	10.00		106	48	69	14	16	19	27.35	29.50	19	BKN	250	10.00		102	42	66	13	15	17	27.36	29.51	22	SCT	180	10.00		98	44	65	16	16	20	27.39	29.56																																																																																											
SUNRISE: 0430					JUL 06					SUNSET: 1901					SUNRISE: 0433					JUL 12					SUNSET: 1859																																																																																																																																																																																						
01	SCT	180	10.00		94	47	65	20	15	19	27.40	29.57	01	OVC	100	10.00		82	59	67	46	5	21	27.60	29.80	04	SCT	180	10.00		90	48	65	24	16	20	27.43	29.59	04	OVC	100	10.00		82	60	68	47	5	19	27.60	29.80	07	BKN	150	10.00		90	52	66	27	11	19	27.48	29.65	07	BKN	110	10.00		82	61	68	49	6	21	27.64	29.84	10	BKN	150	10.00		94	50	67	22	6	15	27.51	29.68	10	BKN	110	10.00		87	61	70	42	5	VR	27.64	29.84	13	BKN	200	10.00		99	46	67	16	7	15	27.47	29.64	13	BKN	200	10.00		92	61	71	36	10	16	27.60	29.80	16	BKN	200	10.00		104	42	67	12	14	19	27.39	29.56	16	BKN	200	10.00		92	58	70	32	8	15	27.55	29.74	19	SCT	180	10.00		102	43	66	13	13	18	27.39	29.55	19	BKN	200	10.00		90	57	69	33	6	15	27.54	29.74	22	BKN	180	10.00		98	42	65	15	11	20	27.43	29.59	22	FEW	160	10.00		86	59	68	40	6	16	27.58	29.77

OBSERVATIONS AT 3-HOURLY INTERVALS

LAS VEGAS, NV JULY 2013

KLAS

WBAN # 23169

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0434					JUL 13				SUNSET: 1859				SUNRISE: 0438					JUL 19				SUNSET: 1856			
01	SCT	160	10.00		84	59	68	43	0	00	27.59	29.78	01	BKN	200	10.00		93	53	68	26	9	24	27.53	29.71
04	FEW	160	10.00		81	59	67	47	6	23	27.60	29.80	04	BKN	200	10.00		89	54	67	30	0	00	27.55	29.72
07	SCT	250	10.00		85	59	68	42	6	17	27.65	29.85	07	SCT	220	10.00		92	52	67	26	5	15	27.59	29.77
10	SCT	200	10.00		93	57	70	30	0	00	27.65	29.84	10	SCT	220	10.00		99	53	69	21	3	VR	27.59	29.77
13	SCT	200	10.00		99	53	69	21	6	14	27.59	29.78	13	SCT	220	10.00		107	45	69	12	3	VR	27.52	29.70
16	SCT	200	10.00		102	45	67	14	10	19	27.52	29.70	16	SCT	220	10.00		109	49	70	13	8	07	27.46	29.62
19	SCT	180	10.00		101	35	64	10	10	21	27.52	29.70	19	BKN	150	4.00	TSRA	82	64	70	55	38	01	27.56	29.76
22	FEW	180	10.00		95	39	63	14	9	20	27.56	29.74	22	BKN	200	10.00		83	62	69	49	13	20	27.55	29.74
SUNRISE: 0435					JUL 14				SUNSET: 1858				SUNRISE: 0439					JUL 20				SUNSET: 1855			
01	SCT	250	10.00		90	39	61	17	8	21	27.56	29.74	01	OVC	200	10.00		83	60	68	46	13	18	27.52	29.70
04	SCT	140	10.00		85	41	60	21	3	24	27.58	29.76	04	SCT	250	10.00		83	62	69	49	0	00	27.52	29.70
07	BKN	180	10.00		88	45	63	22	6	21	27.62	29.80	07	BKN	250	10.00		88	62	71	42	0	00	27.57	29.76
10	BKN	180	10.00		96	43	65	16	7	17	27.63	29.81	10	SCT	250	10.00		94	58	70	30	0	00	27.56	29.72
13	BKN	180	10.00		100	49	68	18	10	17	27.58	29.76	13	SCT	250	10.00		103	59	73	24	0	00	27.49	29.67
16	SCT	180	10.00		103	48	68	16	5	VR	27.51	29.68	16	SCT	250	10.00		104	58	73	22	15	17	27.42	29.59
19	SCT	250	10.00		97	54	69	24	9	14	27.50	29.67	19	BKN	250	10.00		100	57	71	24	11	19	27.43	29.60
22	SCT	250	10.00		95	53	68	24	10	18	27.52	29.70	22	OVC	120	10.00	-TSRA	80	63	69	56	7	33	27.59	29.79
SUNRISE: 0435					JUL 15				SUNSET: 1858				SUNRISE: 0439					JUL 21				SUNSET: 1855			
01	BKN	170	10.00		91	53	67	27	8	19	27.52	29.69	01	OVC	150	10.00		80	64	69	58	20	20	27.50	29.68
04	OVC	180	10.00		89	52	66	28	6	20	27.51	29.68	04	BKN	250	10.00		80	65	70	60	6	28	27.53	29.71
07	BKN	180	10.00		90	55	68	31	7	20	27.53	29.71	07	BKN	250	10.00		83	63	70	51	6	26	27.55	29.74
10	BKN	180	10.00		99	44	66	15	8	15	27.53	29.70	10	BKN	110	10.00		86	61	70	43	16	19	27.60	29.81
13	BKN	180	10.00		104	45	68	13	10	17	27.46	29.62	13	OVC	110	10.00	-RA	84	64	71	51	10	17	27.59	29.80
16	BKN	180	10.00		107	44	68	12	16	23	27.38	29.55	16	BKN	140	10.00		90	63	72	41	0	00	27.53	29.73
19	SCT	180	10.00		102	41	66	12	11	22	27.39	29.56	19	BKN	110	10.00		87	66	73	50	5	16	27.58	29.78
22	SCT	180	10.00		96	39	63	14	14	23	27.45	29.62	22	BKN	180	10.00		84	65	71	53	10	18	27.60	29.80
SUNRISE: 0436					JUL 16				SUNSET: 1858				SUNRISE: 0440					JUL 22				SUNSET: 1854			
01	SCT	180	10.00		90	39	61	17	14	19	27.49	29.65	01	BKN	220	10.00		82	64	70	55	11	18	27.60	29.80
04	BKN	220	10.00		86	36	59	17	14	18	27.50	29.67	04	SCT	200	10.00		81	63	69	54	0	00	27.62	29.81
07	BKN	250	10.00		89	35	60	15	11	19	27.57	29.75	07	SCT	200	10.00		80	65	70	60	5	16	27.66	29.88
10	BKN	250	10.00		97	38	63	13	5	VR	27.58	29.76	10	BKN	200	10.00		87	64	72	46	5	15	27.68	29.88
13	BKN	250	10.00		103	45	67	14	17	21	27.52	29.70	13	BKN	200	10.00		93	62	72	36	6	16	27.63	29.83
16	BKN	250	10.00		105	39	66	10	15	21	27.49	29.66	16	BKN	200	10.00		96	58	71	28	7	VR	27.57	29.73
19	SCT	250	10.00		98	34	62	11	15	22	27.52	29.70	19	BKN	200	10.00		95	57	70	28	8	09	27.57	29.77
22	SCT	250	10.00		94	41	63	16	13	18	27.59	29.77	22	OVC	180	10.00		90	55	68	31	14	04	27.62	29.79
SUNRISE: 0436					JUL 17				SUNSET: 1857				SUNRISE: 0441					JUL 23				SUNSET: 1854			
01	SCT	250	7.00		90	33	59	13	6	18	27.62	29.80	01	FEW	180	10.00		81	59	67	47	3	29	27.62	29.82
04	SCT	250	10.00		85	27	56	12	11	19	27.64	29.83	04	BKN	170	10.00		81	59	67	47	5	12	27.64	29.81
07	SCT	250	10.00		88	33	59	14	11	18	27.70	29.89	07	SCT	150	10.00		84	57	67	40	0	00	27.68	29.87
10	SCT	250	10.00		96	42	64	15	6	14	27.71	29.90	10	BKN	150	10.00		91	57	69	32	0	00	27.68	29.88
13	SCT	250	10.00		102	46	68	15	5	05	27.65	29.84	13	BKN	170	10.00		91	62	72	38	21	18	27.63	29.83
16	SCT	250	10.00		104	45	68	13	3	VR	27.58	29.77	16	BKN	170	10.00		94	60	71	32	10	25	27.57	29.77
19	FEW	250	10.00		101	28	62	8	13	23	27.58	29.76	19	BKN	200	10.00		94	58	70	30	8	18	27.56	29.72
22	FEW	250	10.00		95	12	57	5	11	20	27.62	29.80	22	FEW	160	10.00		90	58	69	34	8	21	27.59	29.78
SUNRISE: 0437					JUL 18				SUNSET: 1857				SUNRISE: 0442					JUL 24				SUNSET: 1853			
01	SCT	250	10.00		90	11	55	5	10	22	27.62	29.80	01	FEW	180	10.00		86	61	70	43	5	19	27.59	29.75
04	SCT	250	10.00		85	18	54	8	9	20	27.62	29.80	04	FEW	180	10.00		83	62	69	49	10	19	27.59	29.75
07	SCT	250	10.00		90	23	57	9	6	19	27.66	29.85	07	SCT	150	10.00		88	59	69	38	6	19	27.62	29.80
10	SCT	250	10.00		100	27	61	7	0	00	27.65	29.83	10	SCT	150	10.00		96	57	70	27	5	17	27.62	29.81
13	SCT	250	10.00		106	35	65	9	7	17	27.58	29.76	13	SCT	150	10.00		103	55	71	20	7	14	27.56	29.74
16	SCT	250	10.00		107	39	67	10	5	VR	27.50	29.67	16	SCT	140	10.00		103	50	69	17	5	22	27.49	29.67
19	BKN	250	10.00		105	41	67	11	6	17	27.50	29.67	19	SCT	250	10.00		103	49	69	16	14	24	27.48	29.65
22	BKN	200	10.00		98	51	68	20	13	18	27.53	29.71	22	SCT	120	10.00		97	49	67	20	9	20	27.52	29.69

OBSERVATIONS AT 3-HOURLY INTERVALS

LAS VEGAS, NV
JULY 2013

KLAS

WBAN # 23169

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0442 JUL 25					SUNSET: 1852							
01	BKN	110	10.00		93	49	66	22	9	20	27.52	29.70
04	FEW	120	10.00		89	49	65	25	5	21	27.55	29.73
07	FEW	120	10.00		92	53	67	27	0	00	27.61	29.78
10	SCT	250	10.00		102	51	69	18	0	00	27.62	29.80
13	SCT	250	10.00		107	48	70	14	10	14	27.57	29.75
16	BKN	200	10.00		108	47	70	13	9	14	27.52	29.69
19	BKN	170	10.00		103	50	69	17	15	17	27.54	29.72
22	SCT	200	10.00		96	54	69	24	8	21	27.63	29.81
SUNRISE: 0443 JUL 26					SUNSET: 1851							
01	BKN	220	10.00		94	47	65	20	9	20	27.64	29.82
04	BKN	220	10.00		89	51	66	27	6	21	27.65	29.84
07	BKN	250	10.00		90	58	69	34	7	22	27.70	29.89
10	SCT	250	10.00		99	54	70	22	5	VR	27.71	29.90
13	BKN	200	10.00		104	55	72	20	9	13	27.65	29.83
16	BKN	200	10.00		97	56	70	25	15	22	27.65	29.83
19	BKN	200	10.00		94	55	69	27	15	20	27.63	29.82
22	BKN	200	10.00		91	55	68	30	14	18	27.68	29.86
SUNRISE: 0444 JUL 27					SUNSET: 1851							
01	BKN	095	10.00		80	61	68	52	13	07	27.76	29.96
04	BKN	120	10.00		79	61	67	54	6	16	27.73	29.93
07	BKN	180	10.00		81	61	68	51	6	15	27.72	29.93
10	BKN	150	10.00		88	61	70	40	3	VR	27.69	29.89
13	BKN	150	10.00		89	62	71	41	14	29	27.63	29.83
16	BKN	150	10.00		89	60	70	38	14	32	27.57	29.78
19	SCT	250	10.00		89	58	69	35	8	33	27.56	29.76
22	SCT	150	10.00		86	59	68	40	3	05	27.57	29.76
SUNRISE: 0445 JUL 28					SUNSET: 1850							
01	CLR	NC	10.00		83	61	69	48	8	21	27.54	29.73
04	FEW	140	10.00		81	61	68	51	8	21	27.53	29.73
07	FEW	140	10.00		83	60	68	46	6	17	27.57	29.77
10	SCT	200	10.00		93	58	70	31	3	20	27.55	29.74
13	BKN	200	10.00	TS	86	60	69	42	22	23	27.54	29.74
16	BKN	220	10.00		92	57	69	31	7	18	27.48	29.66
19	BKN	220	10.00		83	53	65	36	18	33	27.53	29.73
22	BKN	180	10.00		81	56	65	42	6	26	27.54	29.74
SUNRISE: 0445 JUL 29					SUNSET: 1849							
01	FEW	180	10.00		79	57	65	47	7	19	27.56	29.77
04	FEW	150	10.00		76	57	64	52	9	21	27.57	29.77
07	CLR	NC	10.00		80	57	66	45	3	17	27.62	29.82
10	SCT	150	10.00		90	53	67	28	3	15	27.64	29.84
13	SCT	150	10.00		99	45	66	16	15	21	27.60	29.76
16	SCT	150	10.00		101	46	67	15	14	19	27.56	29.72
19	FEW	140	10.00		97	32	61	10	15	22	27.57	29.74
22	CLR	NC	10.00		91	37	61	15	10	20	27.62	29.81
SUNRISE: 0446 JUL 30					SUNSET: 1848							
01	CLR	NC	10.00		86	37	59	18	8	20	27.65	29.85
04	CLR	NC	10.00		84	34	57	17	13	18	27.68	29.88
07	CLR	NC	10.00		86	41	61	20	3	23	27.74	29.94
10	CLR	NC	10.00		96	42	64	15	5	14	27.76	29.95
13	SCT	250	10.00		103	41	66	12	13	22	27.70	29.89
16	FEW	130	10.00		102	40	65	12	7	18	27.65	29.84
19	CLR	NC	10.00		99	42	65	14	15	18	27.65	29.84
22	CLR	NC	10.00		93	43	64	18	13	20	27.69	29.89

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0447 JUL 31					SUNSET: 1847							
01	CLR	NC	10.00		88	46	63	23	7	21	27.69	29.88
04	CLR	NC	10.00		84	48	63	29	8	22	27.70	29.89
07	FEW	250	10.00		88	50	65	27	3	18	27.74	29.93
10	SCT	250	10.00		97	47	66	18	7	18	27.72	29.92
13	SCT	250	10.00		105	40	66	11	14	22	27.64	29.83
16	SCT	250	10.00		105	39	66	10	17	19	27.57	29.75
19	SCT	250	10.00		101	41	65	13	15	20	27.56	29.74
22	FEW	250	10.00		96	47	66	19	10	19	27.59	29.77

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8

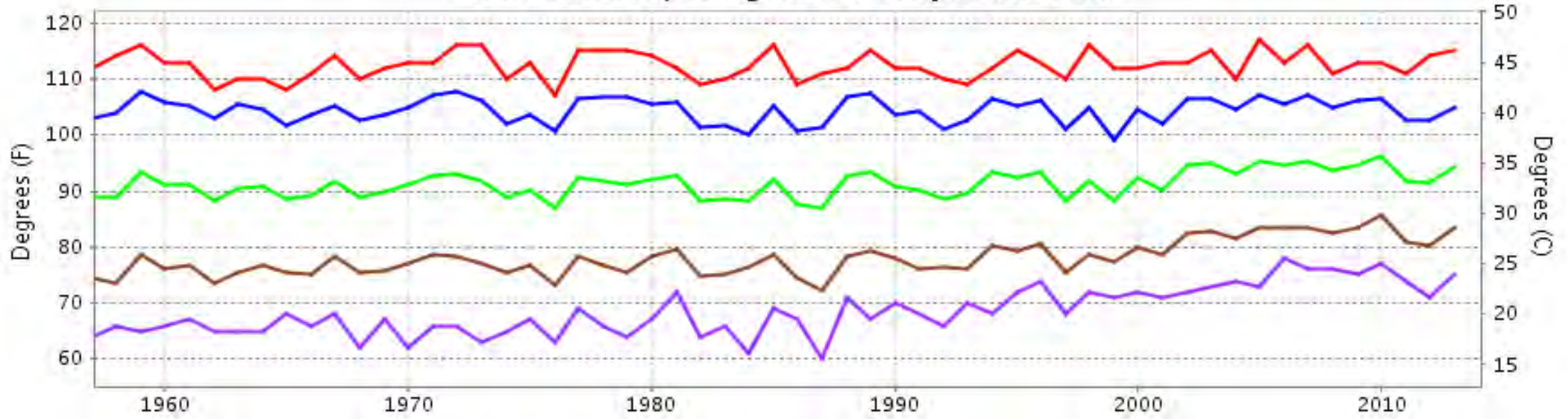
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation contained additional weather elements. See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)	
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	89	47	65	27	27.55	29.73	9.87	9	7	20
02	88	48	64	28	27.55	29.73	9.90	10	6	20
03	87	48	64	29	27.55	29.74	9.94	7	7	20
04	86	48	64	30	27.56	29.74	10.00	7	7	20
05	86	48	64	31	27.58	29.76	10.00	7	7	20
06	86	49	65	32	27.59	29.78	10.00	7	7	20
07	88	50	66	30	27.61	29.79	10.00	6	7	19
08	91	50	67	28	27.61	29.80	10.00	5	9	18
09	94	50	67	25	27.61	29.80	10.00	6	8	17
10	96	49	67	22	27.61	29.79	10.00	5	10	17
11	99	49	68	21	27.60	29.78	10.00	7	8	17
12	100	49	68	20	27.58	29.76	10.00	9	7	17
13	101	49	69	20	27.56	29.74	10.00	10	6	19
14	102	47	68	19	27.54	29.72	10.00	11	7	20
15	102	47	69	18	27.52	29.69	10.00	11	7	20
16	102	47	68	18	27.50	29.67	10.00	10	8	20
17	102	46	68	17	27.49	29.66	10.00	11	7	21
18	101	45	67	17	27.49	29.67	10.00	12	7	22
19	98	45	67	20	27.51	29.69	9.81	12	7	21
20	97	46	67	21	27.53	29.70	9.97	11	7	21
21	95	47	66	23	27.54	29.72	9.97	11	6	20
22	93	47	66	24	27.55	29.73	10.00	10	7	21
23	91	48	66	27	27.55	29.73	10.00	10	7	20
24	90	48	65	27	27.55	29.73	9.97	9	7	20

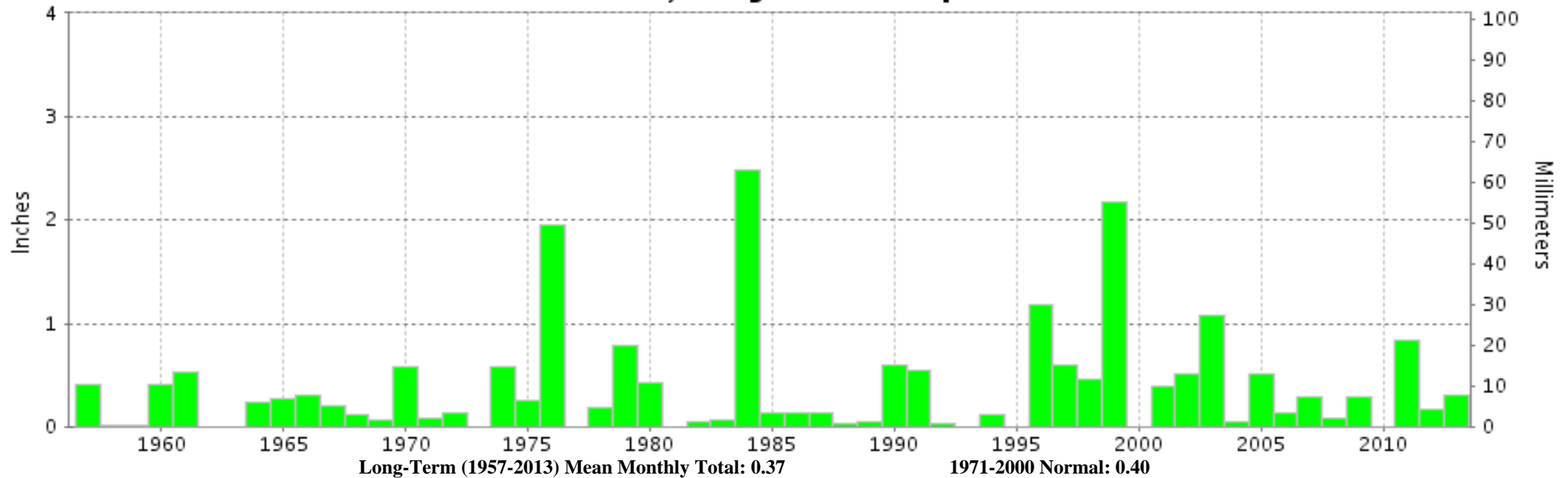
LAS VEGAS, NV JULY Temperatures



— Extreme Max
 — Mean Max
 — Mean
 — Mean Min
 — Extreme Min

Long-Term (1957-2013) Mean: 91.3
1971-2000 Normal: 92.5

LAS VEGAS, NV JULY Precipitation



Long-Term (1957-2013) Mean Monthly Total: 0.37
 1971-2000 Normal: 0.40



**JULY 2013
LAS VEGAS, NV**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

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