

SYNOPSIS...**Monsoonal moisture that has spread up from northern Mexico will fuel thunderstorms across the Mojave Desert region...especially during the afternoon and evening hours through Saturday.** Temperatures will trend downward due to the increase in cloud cover. Drier air is expected to work into the region early next week pushing monsoonal moisture east of the area. This will also allow for a warming trend with temperatures about 3 to 5 degrees above normal by Monday.

SHORT TERM...through Sunday night.

Fairly active night across Inyo, southern Nye, Clark and eastern San Bernardino Counties as an extensive area of showers and thunderstorms continues to move southeast across the area. As of 230 AM the strongest storms are pushing through eastern San Bernardino and southern Clark Counties with mainly light to moderate showers extending northwest into southern Nye County. With plenty of instability still to work with these storms are expected to continue track southeast over the next few hours affecting areas along the Colorado River Valley. **Most of the rainfall is expected to end in the Las Vegas Valley by morning commute, however some light showers are still possible.**

Plenty of moisture still available today as PW values still remain between 1.25" and 1.75" across Mohave, **Clark**, San Bernardino, southern Nye counties with around an inch through Lincoln and eastern Inyo Counties. **Dewpoints have generally been in the 60s this morning** with Needles sitting at 71 degrees. Models continue to indicate plenty of instability with LI's ranging from -2/-5 and forecasted CAPE values ranging from 1000-1500 J/KG by this afternoon. Areas that start out with plenty of sunshine should see storms developing by late morning, but extensive cloud cover over Clark, Lincoln, and northern Mohave Counties could delay the onset of storm development until late afternoon. Flash flooding will certainly be a concern with any storm, but gusty winds and hail are also a possibility. Storms are likely to continue into this evening and could go much of the night over the far eastern areas.

Little change in moisture and instability parameters on **Saturday**, although we start to see a bit more stable and drier air working into the far western portions of the cwa. Still, scattered showers and thunderstorms will be a possibility for much of the area. By Saturday night, we start to see even more stable air pushing into the western cwa and by Sunday most of the thunderstorm activity should be limited to the far eastern areas of the cwa including Lincoln and northern Mohave Counties.

AVIATION...For McCarran...Skies are expected to start out broken around 10k feet with **northwest winds around 10 kts**. We are looking for showers and thunderstorms to develop again this afternoon which could affect the terminal. Gusty outflow winds will certainly be possible into the evening. Potential air traffic impacts are substantial, with chances of convection at the terminal and in the flight corridors.

UPDATE...Showers finally dissipated over southeast San Bernardino and southern Mohave counties by about 9 AM PDT this morning. **Debris clouds over southern Nevada and northwest Arizona could be seen eroding on recent satellite loops. Considerable moisture and instability remain** for convection to develop but the onset of thunderstorms **over Clark** and Mohave counties will be a little delayed as cloud cover decreases this morning.

AVIATION...For McCarran...Confidence has decreased in thunderstorms impacting the terminal area during the mid to late afternoon and should remain near the mountains. However, it is looking likely that **thunderstorms pushing down from south central Nevada will impact the Las Vegas Valley with strong northwest-north winds between 8 PM and 11 PM PDT this evening.** Potential air traffic impacts are substantial, with chances of convection at the terminal and in the flight corridors.

SYNOPSIS...**Monsoonal moisture will linger over the region through Saturday** and fuel thunderstorms across the Mojave Desert region...especially during the afternoon and evening. Drier air is expected to work into the region Sunday bringing an end to thunderstorms and a warming trend for the rest of the holiday weekend and much of next week.

SHORT TERM...through Sunday night.

The circulation over central California, which was enhancing the convection over central Nevada, is forecast to dig toward Point Conception Saturday afternoon which will increase a dry southwest mid level flow across the region. However...the moist layer below 700 mb will be a little slow to exit and should provide fuel for isolated to scattered thunderstorms across southern Nevada and northwest Arizona Saturday before the dry air invading from the southwest finally dominates and brings thunderstorm chances to an end by Sunday.

FXUS65 KVEF 021034
AFDVEF

Area Forecast Discussion National Weather Service Las Vegas NV 330 AM PDT SAT JUL 2 2016

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SHORT TERM...through Sunday night.

Another active night across the southeastern portions of the cwa as thunderstorms which generated across central Nevada have moved through the region. These storms produced very heavy rain along with several reports of 50-60 mph wind gusts. The complex is currently moving into Mohave County and will continue to weaken and move east over the next few hours. **PW values have been relatively unchanged over much of the area with the 1 inch PW line across San Bernardino, Clark, southern Nye, and Mohave Counties.** The models also continue to indicate good instability across the southern half of the area. This will again lead to another afternoon and evening of scattered thunderstorms. Most of the activity this afternoon should be limited to southern Nevada and Arizona as the models are indicating drier air working into southern California as a trough digs off the west coast. Depending on how fast the drier air works into the area we could still see some isolated storms over southern Inyo and San Bernardino Counties this afternoon.

AVIATION...For McCarran...Thunderstorms will be affecting the eastern corridors this morning, but little chance near McCarran early this morning. Thunderstorm chances will increase again this afternoon and early evening, with the possibility of seeing storms once again in the Las Vegas Valley, although confidence is low. Outflow winds will again be a possibility this afternoon and evening.

For the rest of southern Nevada...northwest Arizona...and southeast California...Isolated to scattered thunderstorms will again be possible this afternoon and evening. **Overall winds will be less than 10kts**, but gusty outflow winds will be possible near any storm this afternoon and evening.

FXUS65 KVEF 021555
AFDVEF

Area Forecast Discussion National Weather Service Las Vegas NV 855 AM PDT SAT JUL 2 2016

UPDATE...Impressive Mesoscale Convective System developed over south-central Nevada yesterday evening and tracked south and east through much of the night. As of this writing, the remains of this system are now pushing into the White Mountains of eastern Arizona, meaning this feature tracked between 300-400 miles from start to finish. Very impressive and unusual for this part of the country. The fast forward progression limited flooding overnight, though numerous sites reported gusts over 60 mph as the storms blew through.

As for today, **mostly sunny skies this morning** will lead to destabilization once again. However, drier air is beginning to push in from the west and large scale subsidence behind the wave forcing last night's activity will also work to suppress activity to a degree. Think some terrain driven action will develop by late morning across southern Nevada and northwest Arizona, but may struggle to get organized. Better coverage will develop over the afternoon across the Southern Great Basin. Current guidance suggests activity diminishing after sunset. Primary threats today will be isolated instances of small hail and gusty winds, as well as localized flash flooding. -Outler-