

FXUS65 KVEF 292324
AFDVEF

Area Forecast Discussion
National Weather Service Las Vegas NV
424 PM PDT ~~THU JUL 28 2016~~ **Actual Day is Jul 29 2016**

SYNOPSIS..... Expect **isolated to scattered thunderstorm activity across parts of the area through the next week.**

SHORT TERM...through Monday night.

Thunderstorm coverage on Saturday will be mainly over the eastern half of the area with the best instability and deeper moisture over the southeast portion of the CWA. Localized flash flooding will be the primary concern. However, there is greater potential for more widespread flash flooding over the southeastern CWA including southern Mohave and SE San Bernardino counties. Sunday and Monday should bring more more of the same over roughly the eastern half of the forecast area. With the monsoonal flow well entrenched in these areas, very efficient rain producing processes will be in play and flash flooding will continue to be a concern.

AVIATION.....For the rest of southern Nevada...northwest Arizona...and southeast California...**Isolated/scattered storms will affect the high terrain in much of the area through this evening, with outflows producing gusty/erratic winds potentially affecting the TAF sites.**

FXUS65 KVEF 300609
AFDVEF

Area Forecast Discussion
National Weather Service Las Vegas NV
1110 PM PDT ~~THU JUL 28 2016~~ **Actual Day is Jul 29 2016**

UPDATE...Large and intense thunderstorm complex which has impacted the Phoenix metro area earlier this evening is now progressing into southwest Arizona. Meanwhile, a very strong outflow boundary is pushing north from this complex and is rapidly approaching Lake Havasu and the Wikieup into Kingman Corridor. Upstream observations indicate widespread wind gusts 35-50 mph range so we will need to monitor the intensity of the winds as they enter into our southern forecast area in the next hour. It's possible we could see some severe winds from this feature along the Colorado River and I-40 corridor. -Outler-

FXUS65 KVEF 300918
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Area Forecast Discussion
National Weather Service Las Vegas NV
220 AM PDT SAT JUL 30 2016

SHORT TERM...through Monday night.

It's been an active night across our area as numerous outflow boundary interactions have sustained convection well into the night. The strongest of these boundaries was generated from a large thunderstorm complex in the Phoenix area that pushed northward into our area and is now beginning to approach the Las Vegas Valley. Wind gusts in the 30-40 mph range have been common with this feature, though earlier they produced 50 mph or greater gusts closer to Laughlin and Lake Havasu. Meanwhile, strong thunderstorms are ongoing at this hour near the Kingman area where widespread heavy rain has raised flash flooding concerns.

FXUS65 KVEF 301652
AFDVEF

Area Forecast Discussion
National Weather Service Las Vegas NV
952 AM PDT SAT JUL 30 2016

Update...A moist and unstable air mass is in place today over most of the forecast area and a few light showers were lingering from the overnight convection. There appears to be a lack of a forcing mechanism to get new convection going today and it may depend on orographics initially, then outflow boundaries should help generate more convection in the lower elevations. With the increased moisture in the air today combined with **dust which blew in from near Phoenix last night** partially blocking the sun, temperatures will likely not reach the previously forecasted highs in many areas. I updated the forecast for today to make some minor adjustments to cloud cover and to lower the high temperature forecast a bit in some locations.

AVIATION...For McCarran...**Dust blown in from AZ storms last night continues to cause lowered visibility at the terminal. With S winds 10-20 kts and gusts to 25 kts expected this afternoon, visibility may be slow to improve...** Chances of storms continue tonight and Sunday.

For the rest of southern Nevada...northwest Arizona...and southeast California...**Residual dust from AZ storms last night will continue to lower visibility in southern portions of the region this morning.** Storms expected to develop this afternoon in the high terrain and in Clark/Mohave Counties with gusty/erratic outflow winds, locally lowered CIGs, and lightning all threats. Outside of storms, S/SW winds 10-20 kts with gusts to 30 kts likely through tonight with strongest speeds this afternoon/evening. Chances of storms continue tonight/tomorrow.

FXUS65 KVEF 302216
AFDVEF

Area Forecast Discussion
National Weather Service Las Vegas NV
315 PM PDT SAT JUL 30 2016

SHORT TERM...

Near-term/mesoscale discussion..... The **residual dust from last night`s storms in Arizona** have impeded surface heating to some degree, but as mixing continues this afternoon, environment will become quite unstable ...

AVIATION...For McCarran...**Dust continues to plague the Las Vegas Valley this afternoon, as stronger SSW winds and associated mixing have not commenced sufficiently to scour it. Expecting improvement to occur only gradually through afternoon.** Storms have developed in the nearby higher terrain which may affect flight corridors this afternoon, with chances for storms increasing this evening/overnight as a more organized system moves north to south through the area. Mainly S/SW winds with gusts up to 20 kts expected through tomorrow.

FXUS65 KVEF 310347 AAA
AFDVEF

Area Forecast Discussion
National Weather Service Las Vegas NV
847 PM PDT SAT JUL 30 2016

AVIATION...For McCarran...**Visibility has improved slightly but haze will continue to plague the Las Vegas Valley overnight and possibly through Sunday.**