



**Land Subsidence Rate in the Harquahala Valley, Maricopa County**  
 Based on Radarsat-2 Satellite Interferometric Synthetic Aperture Radar (InSAR) Data  
 Time Period of Analysis: 1.0 Years 03/12/2015 To 03/30/2016

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**Explanation**

03/12/2015 To 03/30/2016

**Land Subsidence Rate**

- Decorrelation/No Data
- Greater 7 cm/yr (2.8 in/yr)
- 5 - 7 cm/yr (2.0 - 2.8 in/yr)
- 3 - 5 cm/yr (1.2 - 2.0 in/yr)
- 2 - 3 cm/yr (0.8 - 1.2 in/yr)
- 1 - 2 cm/yr (0.4 - 0.8 in/yr)
- 0.5 - 1 cm/yr (0.2 - 0.4 in/yr)
- 0 - 0.5 cm/yr (0 - 0.2 in/yr)

- Subsidence Feature
  - Earth Fissures
  - Hardrock
  - CAP Canal
- Highways and Interstates**
- Interstate
  - US
  - State
  - Roads
  - Railway



1:200,000

Decorrelation (white areas) are areas where the phase of the received satellite signal changed between satellite passes, causing the data to be unusable. This occurs in areas where the land surface has been disturbed (i.e. bodies of water, snow, agriculture areas, areas of development, etc).

Earth fissures were mapped by the Arizona Geological Survey. For information on earth fissures visit: [www.azgs.gov/EFC](http://www.azgs.gov/EFC)

Coordinate System: NAD 1983 UTM Zone 12N  
 Projection: Transverse Mercator  
 Datum: North American 1983  
 Units: Meter  
 Created: 5/13/2016

