



Land Subsidence Rate in the Tucson Metropolitan Area  
 Based on Radarsat-2 Satellite Interferometric Synthetic Aperture Radar (InSAR) Data  
 Time Period of Analysis: 2.0 Years 05/28/2012 To 05/18/2014

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**Explanation**

05/28/2012 To 05/18/2014

**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

Hardrock

**Highways and Interstates**

- Interstate
- US
- State
- Roads
- Railway



0 0.5 1 2 3 4 Miles

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).

Coordinate System: NAD 1983 UTM Zone 12N  
 Projection: Transverse Mercator  
 Datum: North American 1983  
 Units: Meter  
 Created: 11/17/2014

