

Land Subsidence Rate in the Maricopa-Stanfield Sub-Basin, Pinal County  
Based on Radarsat-2 Satellite Interferometric Synthetic Aperture Radar (InSAR) Data  
Time Period of Analysis: 2.0 Years 03/30/2022 To 04/12/2024

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**Explanation**

03/30/2022 To 04/12/2024

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

Earth Fissures

**Highways and Interstates**

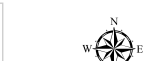
Interstate

US

State

Roads

Railway



1:300,000

0 1.75 3.5 7 10.5 14 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).

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: 5/3/2024

