



**Land Subsidence Rate in the Rainbow Valley Area, Maricopa County**  
**Based on Radarsat-2 Satellite Interferometric Synthetic Aperture Radar (InSAR) Data**  
**Time Period of Analysis: 1.0 Years 04/07/2025 To 04/02/2026**

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**Explanation**

04/07/2025 To 04/02/2026

Land Subsidence Rate

- |                                 |                                 |                                 |
|---------------------------------|---------------------------------|---------------------------------|
| Decorrelation/No Data           | Decorrelation/No Data           | Subsidence Feature              |
| Greater 7 cm/yr (2.8 in/yr)     | Greater 7 cm/yr (2.8 in/yr)     | Hardrock                        |
| 5 - 7 cm/yr (2.0 - 2.8 in/yr)   | 5 - 7 cm/yr (2.0 - 2.8 in/yr)   | <b>Highways and Interstates</b> |
| 3 - 5 cm/yr (1.2 - 2.0 in/yr)   | 3 - 5 cm/yr (1.2 - 2.0 in/yr)   | Interstate                      |
| 2 - 3 cm/yr (0.8 - 1.2 in/yr)   | 2 - 3 cm/yr (0.8 - 1.2 in/yr)   | US                              |
| 1 - 2 cm/yr (0.4 - 0.8 in/yr)   | 1 - 2 cm/yr (0.4 - 0.8 in/yr)   | State                           |
| 0.5 - 1 cm/yr (0.2 - 0.4 in/yr) | 0.5 - 1 cm/yr (0.2 - 0.4 in/yr) | Roads                           |
| 0 - 0.5 cm/yr (0 - 0.2 in/yr)   | 0 - 0.5 cm/yr (0 - 0.2 in/yr)   |                                 |



1:200,000  
 0 1 2 4 6 8 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: 5/8/2026

