



Groundwater Subsidence in California

[Source: Nature](#)

Recently, a study reveals that **California's San Joaquin Valley** has been **sinking at a record pace** due to overpumping groundwater, with some areas experiencing declines of over one foot per year since 2006.

- The **Valley** has a history of subsidence, with significant land sinking occurring from 1925 to 1970 due to aggressive [groundwater pumping](#).
- Researchers employed **interferometric synthetic aperture radar (InSAR)** to accurately measure land elevation changes.
 - This technology allows for frequent monitoring of subsidence across large areas, providing valuable data for addressing the issue.
- **Land Subsidence:**
 - According to the [NOAA](#), [land subsidence](#) is sinking off the ground because of underground material movement.
 - **Overexploitation of underground resources**, such as water, petroleum and minerals, decreases pore pressure and increases effective stress, causing ground subsidence.
 - [Flood-managed aquifer recharge](#) strategies can mitigate subsidence by recharging aquifers.
- **Land Subsidence in India:** [Joshimath sinking](#)



Read more: [Land Subsidence in Chenab Valley](#)

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