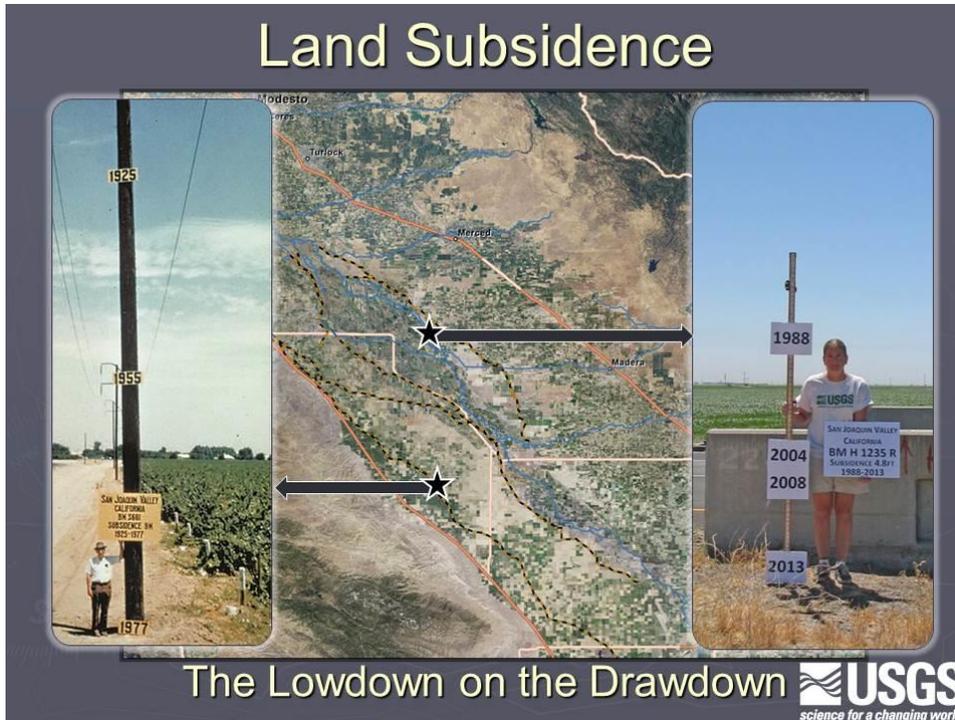


*The Delta Science Program, Ecosystem Restoration Program & Surface Water Ambient Monitoring Program Jointly Present a Brown Bag Seminar Series*

# Land Subsidence – The Lowdown on the Drawdown



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Monday, April 20, 2015  
12:00 – 1:00 p.m.

Location: Park Tower Building  
2<sup>nd</sup> Floor Conference Room  
980 Ninth St - Sacramento, CA  
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## How does subsidence happen? What are the consequences?

Land subsidence caused by the compaction of aquifer systems in California, particularly in the San Joaquin Valley, has recently received increased attention from water and science professionals and the media because of two recent droughts: 2007–09 and 2012–ongoing. The compaction of susceptible aquifer systems caused by excessive groundwater pumping is by far the single largest cause of subsidence in California. In fact, subsidence in the San Joaquin Valley has been identified as the single largest human alteration of the Earth's surface topography.

While more focus has been placed on the burden of infrastructure damage from subsidence, which can be repaired, compaction permanently decreases the capacity of the aquifer system to store water. Therefore subsidence occurring today can have a lasting effect on California's water supply reliability. This talk will include discussion of subsidence processes, measurements, analyses, and consequences by exploring selected case studies in the San Joaquin Valley, the Coachella Valley, and the Mojave Desert.