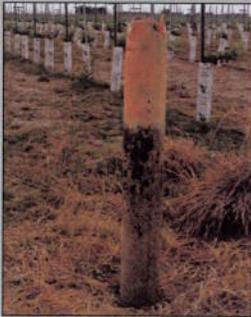
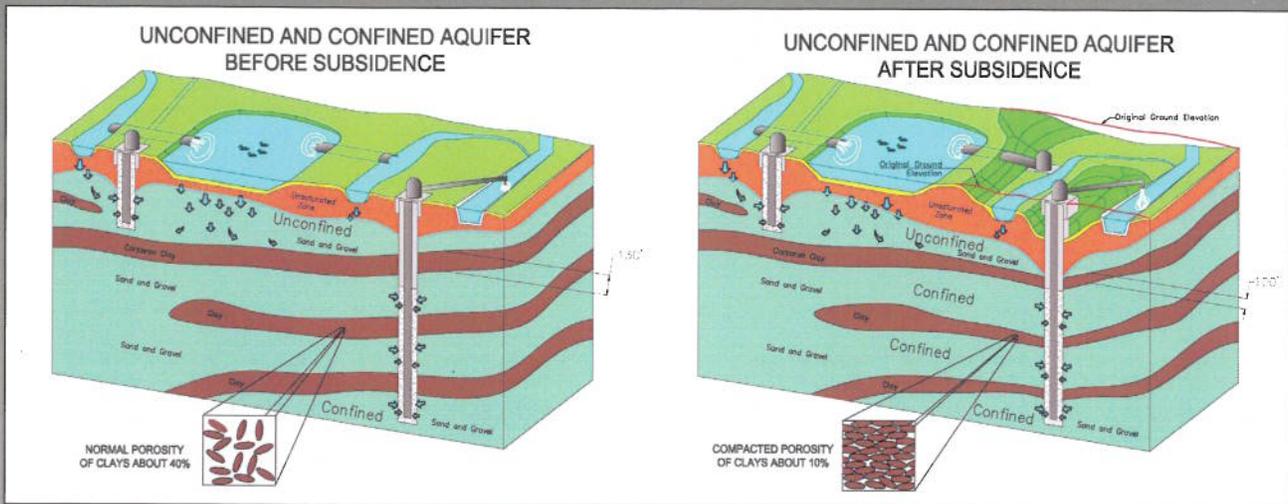


# WESTERN MADERA AND MERCED COUNTIES SUBSIDENCE

## What is Subsidence?

Shrinkage of clays resulting from depleted deep aquifers translates into reductions in ground levels.



Redtop Gas Well



Redtop Water Well

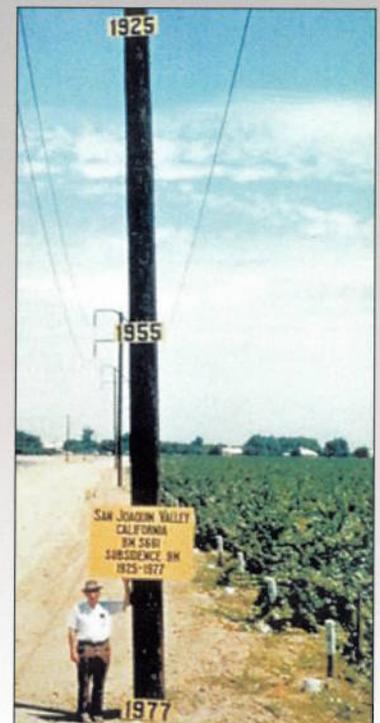


## How much subsidence is possible? (28 feet)

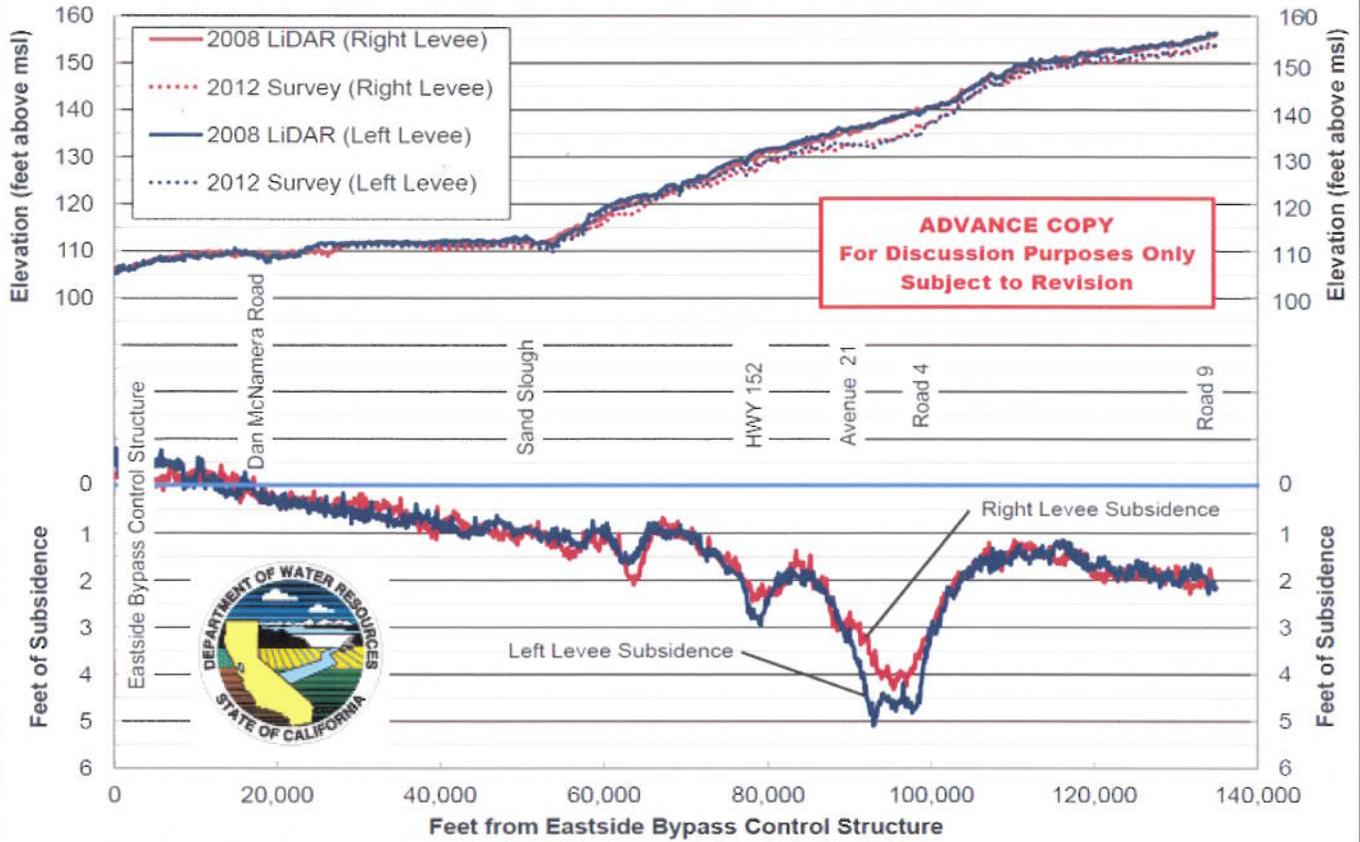
In order to understand how much subsidence is possible we need to look at a nearby area where deep well pumping from areas with similar geology caused significant subsidence. The maximum subsidence in the United States identified by research efforts of Dr. Joseph F. Poland (pictured) occurred in the San Joaquin Valley southwest of Mendota, California. Signs on the pole show approximate altitude of land surface in 1925, 1955, and 1977 (28 feet in 50 years, 0.56 feet/year).

## Subsidence, if not stopped, will:

1. Cause flooding in Western Madera & Merced Counties
  - a. Hwy 152
  - b. Elementary School
  - c. City of Dos Palos
  - d. Valuable Farmland and Dairies
2. Jeopardize water supply of neighboring districts – Up to 20% reduction in water district conveyance capacity.
  - a. CCID
  - b. SLCC
3. Jeopardize the San Joaquin River Restoration Program

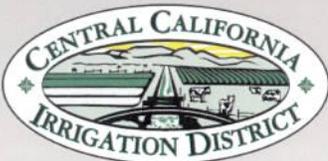
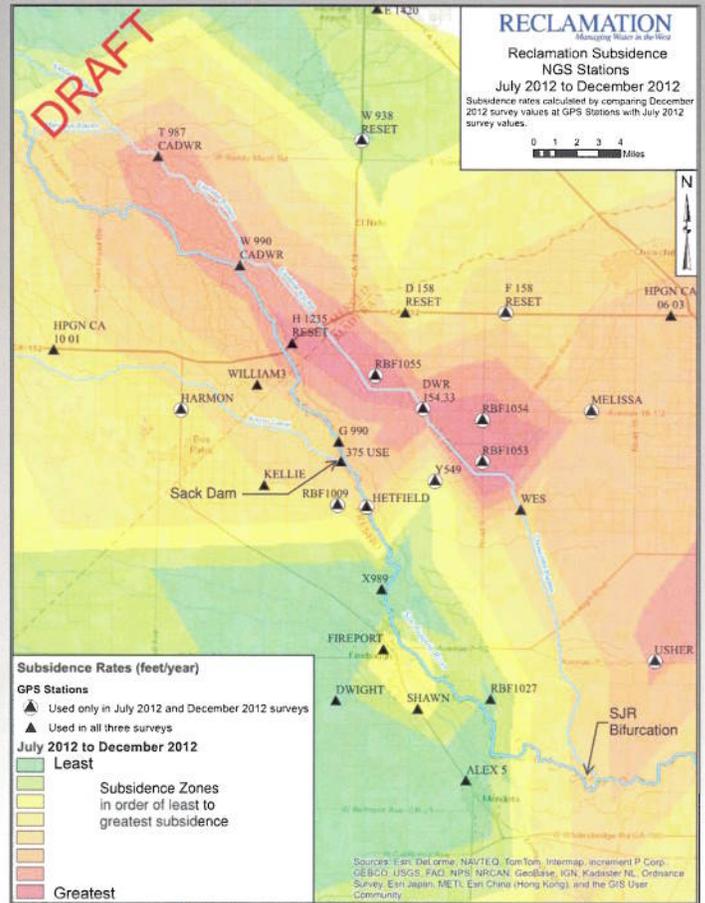


### 2008 to 2012 Subsidence Along the Eastside Bypass



## Western Madera and Merced Counties Subsidence

There has been 5 feet of subsidence in 4 years, resulting in 4,000 cubic feet per second of reduced flood flow capacity.



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