The State of California Wetlands
Carbon Capture – Wetland and Rice Farming in the Delta

C-AGG - Updates to Carbon Offset Market Protocols for the Agricultural Sector
October 10, 2018
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California’s Water Supply System
Historical and Current Delta
San Francisco Bay and Delta Tidal Marshes – Historical and Current Conditions

(reprinted from http://sfbay.wr.usgs.gov/general_factsheets/change.html)
Subsidence: Past and Future

Land Subsidence in the Delta
Deltas Atlas reprinted 1995
- Above sea level
- Sea level to ~10 feet
- ~10 feet to ~15 feet
- ~15 feet and deeper

Pre-1880: Freshwater Tidal Marsh
- Anaerobic Decay
- Vertical Accretion of Marsh Platform
- Water Table

1900’s: Elevation Loss
- Microbial Oxidation
- Wind Erosion, Burning

2000’s: Increased Levee Maintenance
- Decreased Levee Stability
- Increased Seepage Rates

or Levee Failure
- Lateral Deformation
Wetland accretion