



Levee Vegetation Management Strategy

of the

Central Valley Flood Protection Plan

Cassandra Nguyen Musto, PLA
Division of Flood Management
October 17, 2012

PUBLIC SAFETY

ENVIRONMENTAL STEWARDSHIP

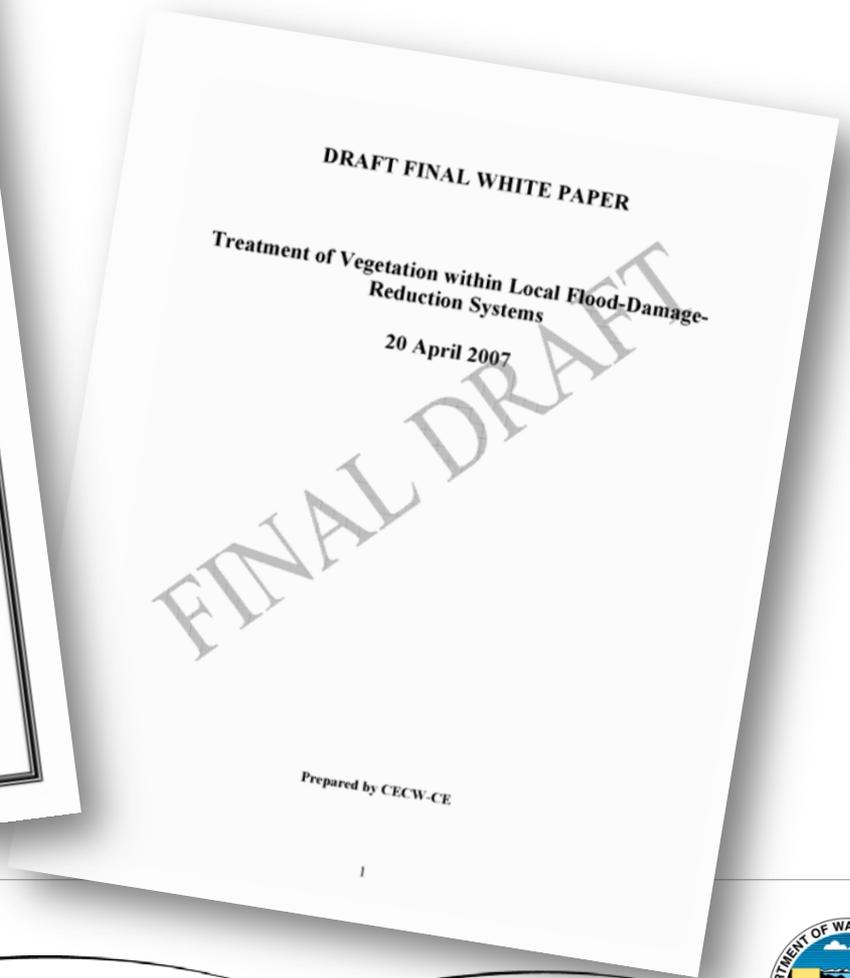
ECONOMIC STABILITY

Path Forward

August 22, 2012.
Corps announces
ineligibility of 17 levee
systems for PL 84-99,
levee rehabilitation
assistance

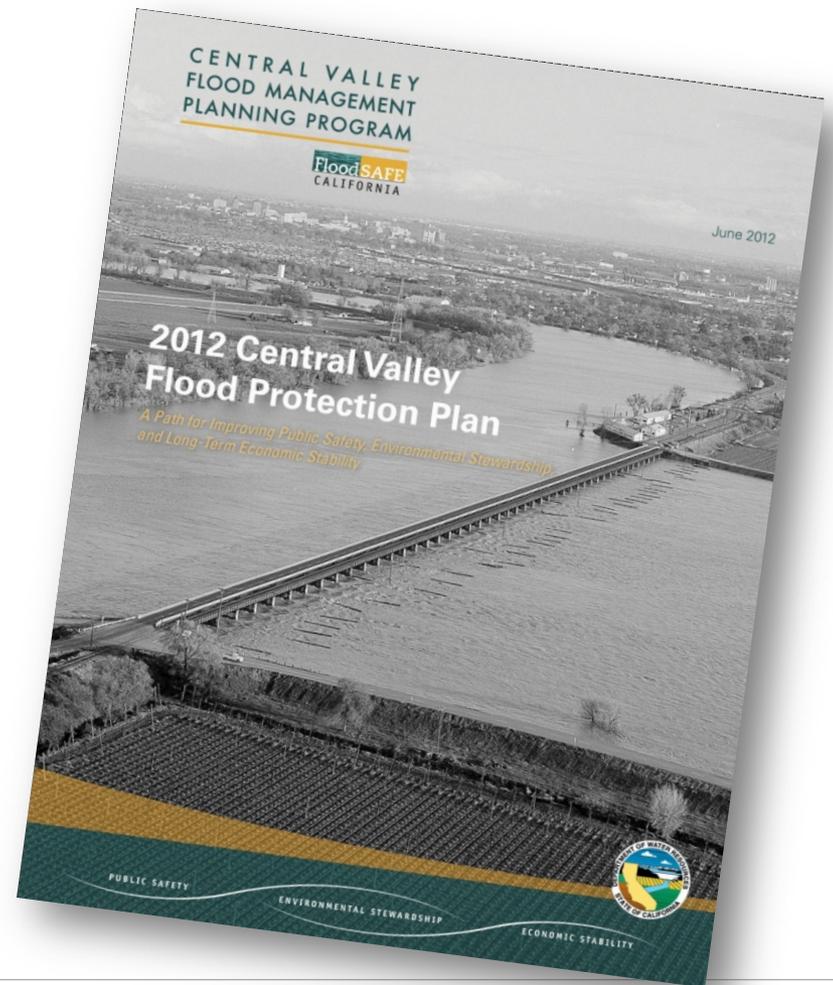


Timeline



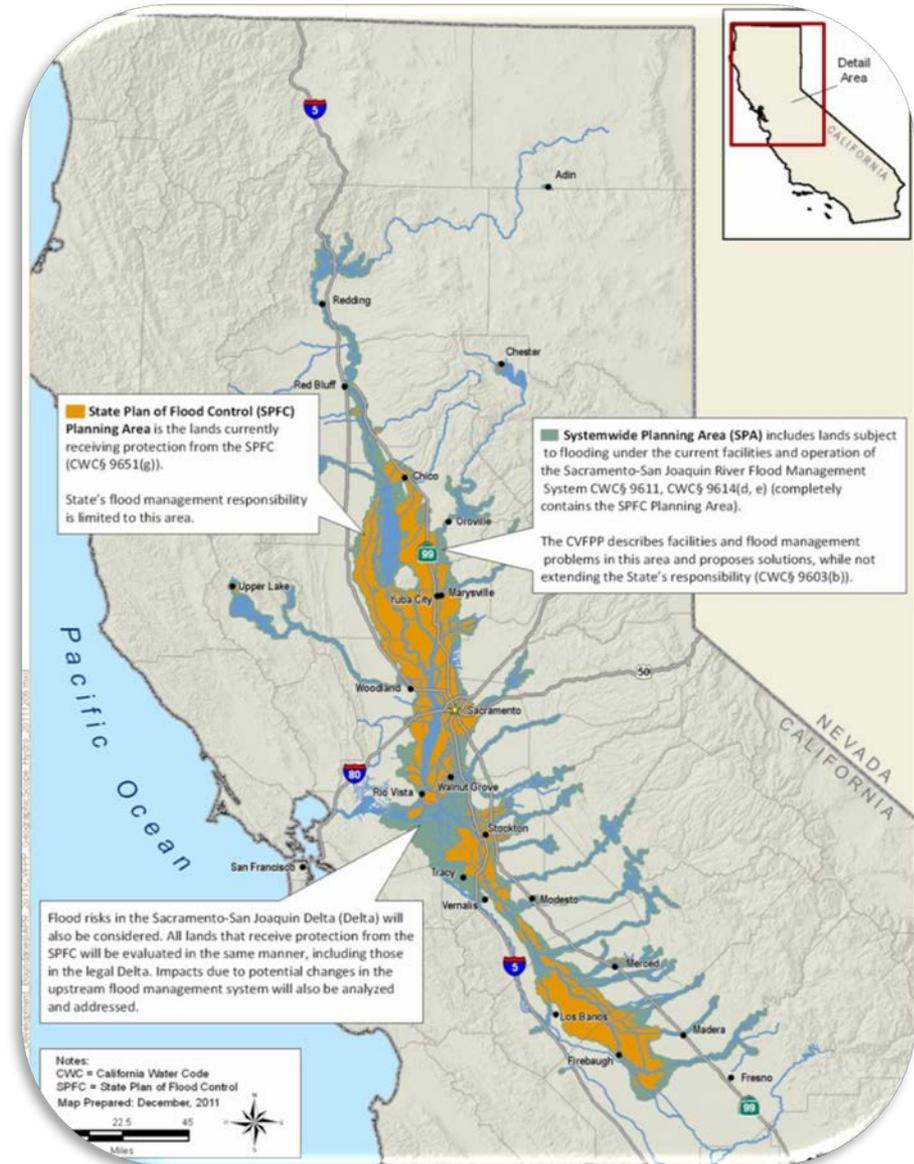
Central Valley Flood Protection Plan

The 2012 Central Valley Flood Protection Plan (CVFPP) reflects the State's systemwide investment approach for flood management improvements in the Central Valley

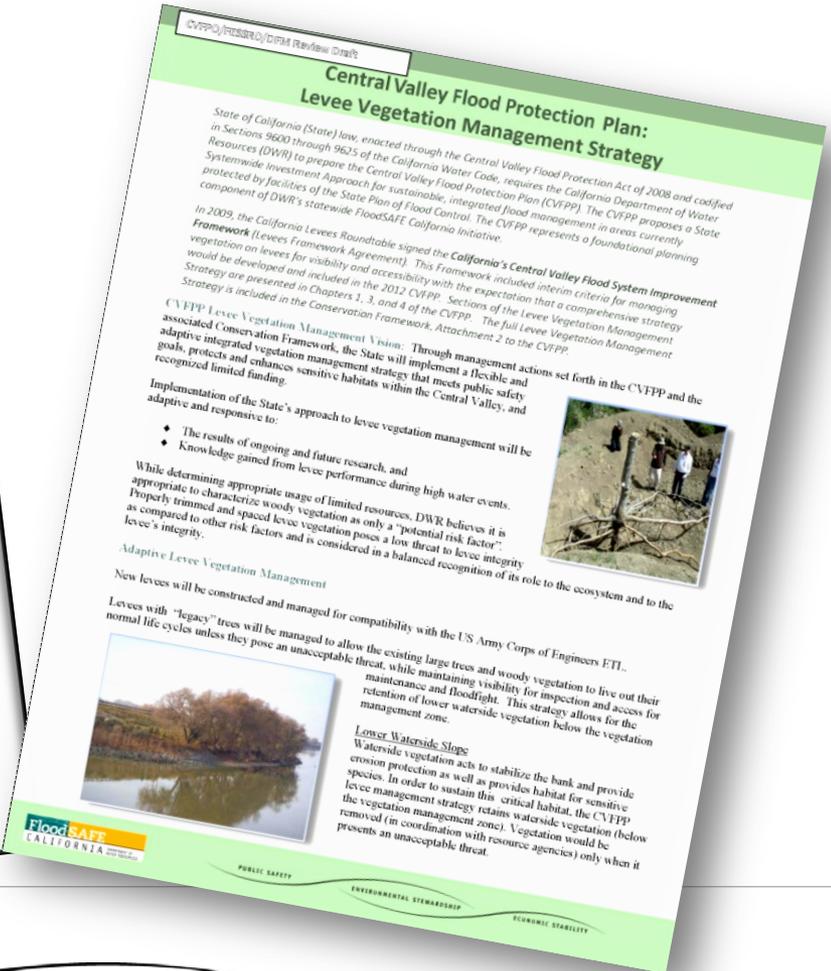
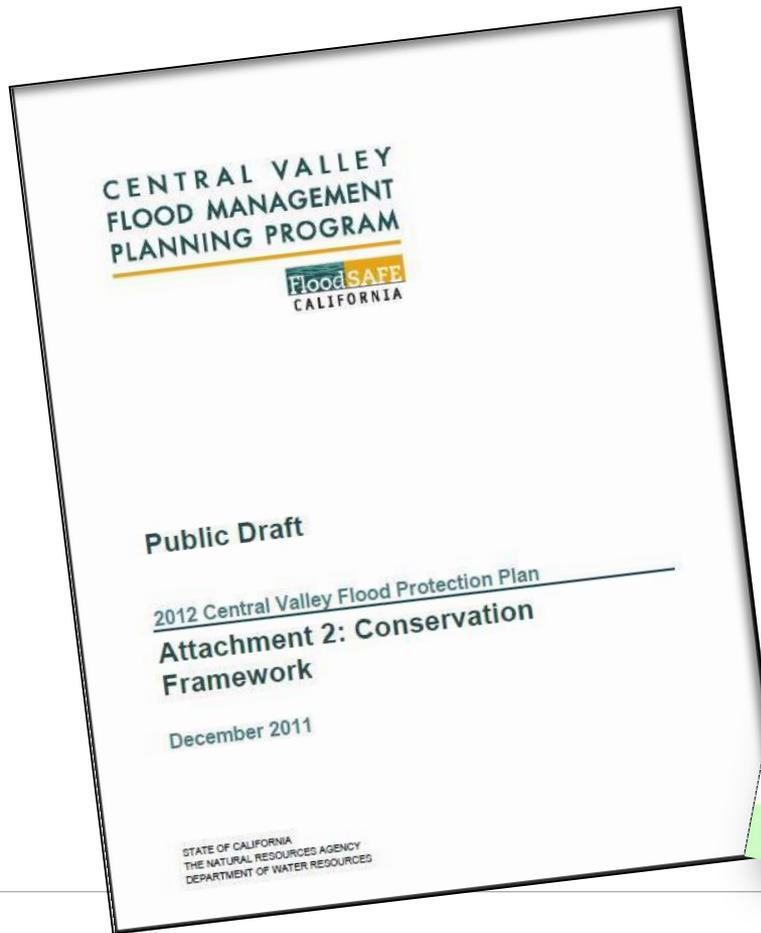


CVFPP Scope

- Focus on lands protected by facilities of the State Plan of Flood Control
- Prepared in coordination with other integrated water management efforts
- Systemwide perspective
- Recognizes State's 3 fundamental interests



CVFPP Conservation Framework



Levee Vegetation Research Symposium

August 28-30, 2012
Sacramento, CA



U.S. & International Speakers



Brig. Gen. John McMahon
(Retired), Moderator



Uwe Kleber-Lerchbaumer,
Bavaria Environment Agency



Michelle Shiro,
UC Berkeley PhD Candidate



Dr. Juliana Birkhoff,
RESOLVE



Panel Discussions



Jonathon Simm, HR Wallingford,
International Levee Handbook



Dr. Gerald Bawden, USGS

Research Discussions



Tree root architecture



Tree root interactions with cutoff walls



Seepage and stability related to roots



Tree windthrow



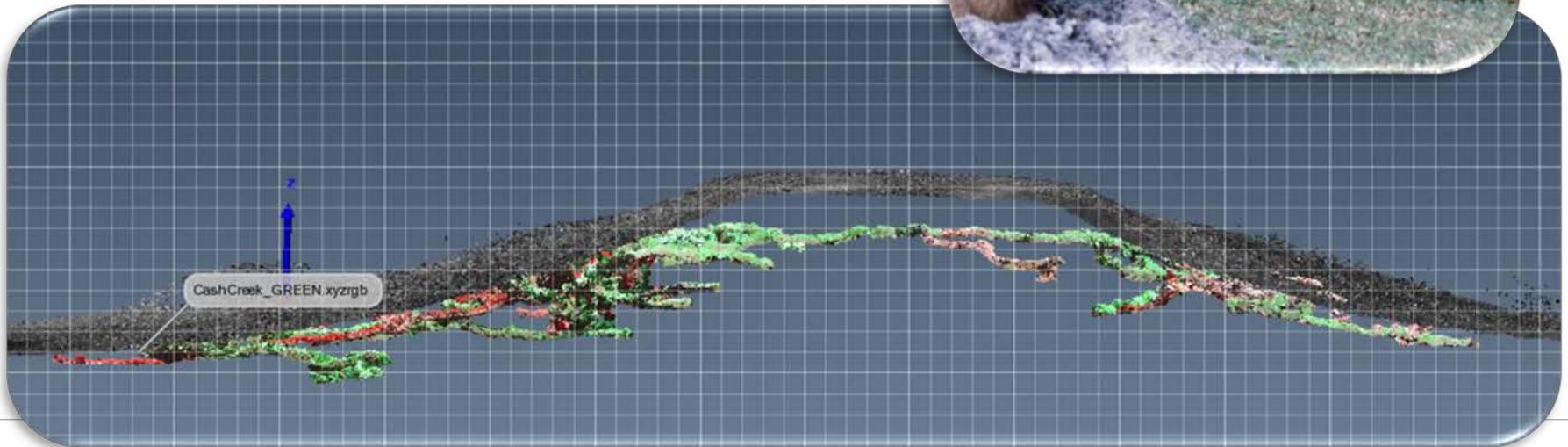
Burrowing mammal habitat associations/grouting efficacy



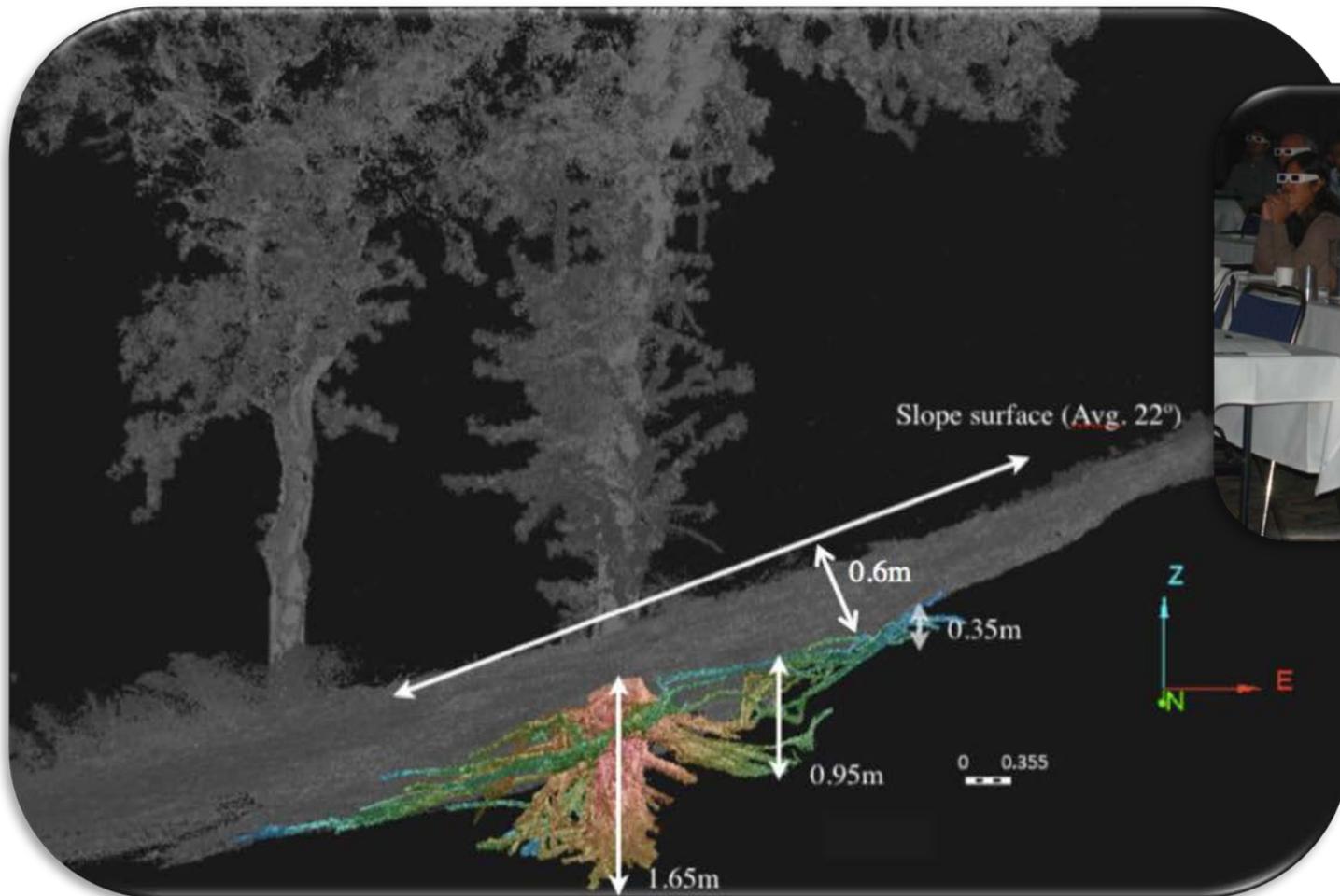
Levee failure forensics

Symposium take away points

- Vegetation poses a relatively low risk to levee stability.
- We need to develop regionally and locally relevant science and expertise.

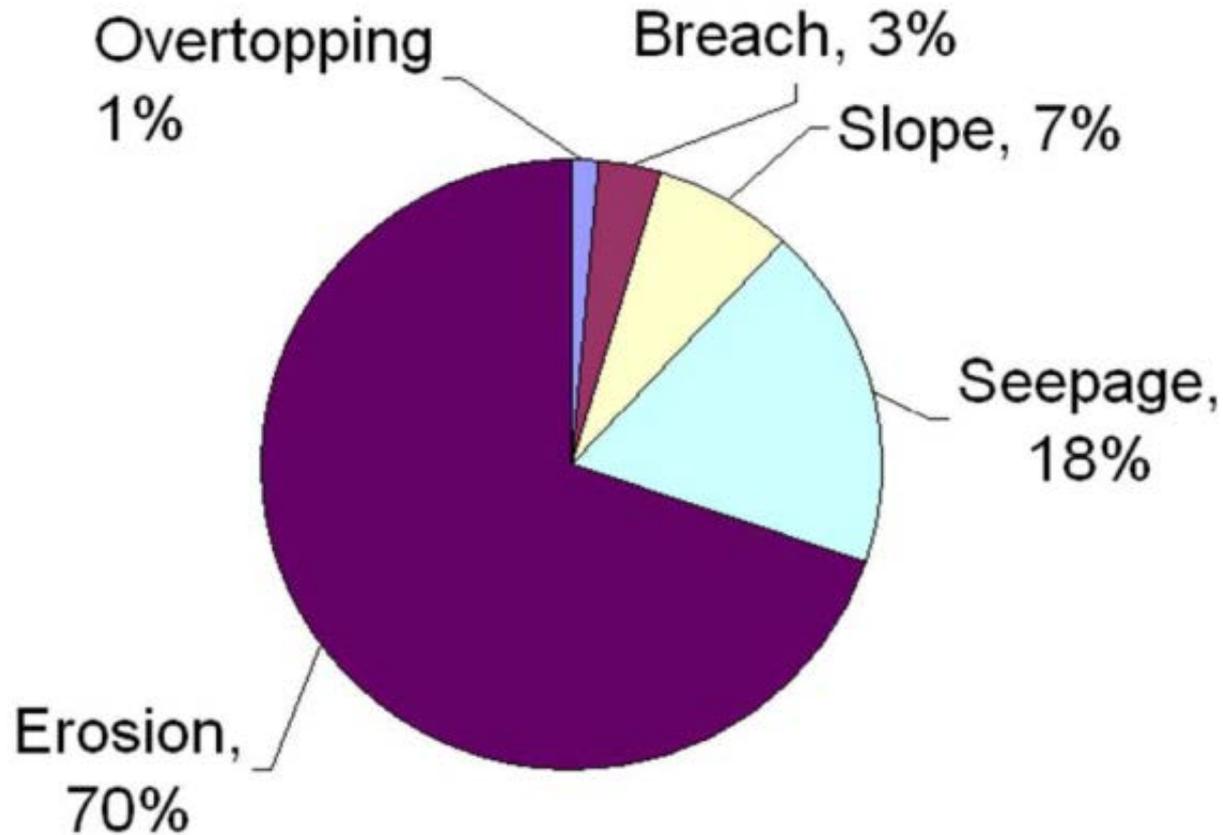


Symposium take away points



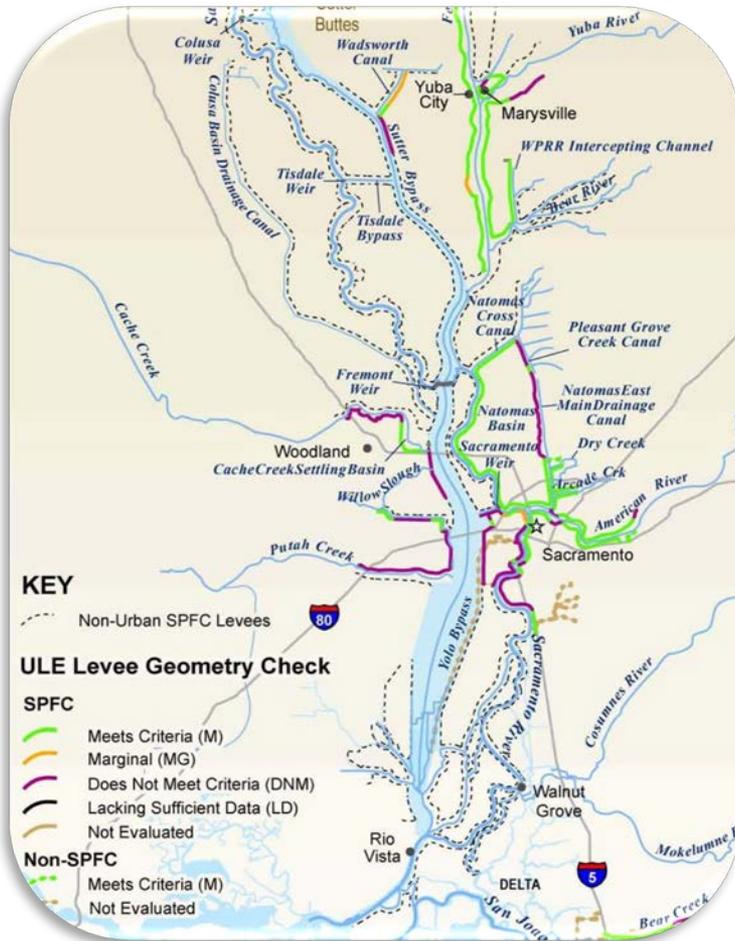
- California research effort is transformational and unique

Symposium take away points



Note: No failures attributed to levee vegetation

Roles & Responsibilities



Systemwide stewards



Maintaining agency/First responder

Ongoing inspection and maintenance



Non-routine maintenance



Routine maintenance

Evaluations and inspections



Path Forward

The CVFPP will guide the discussion for improving maintenance and operations activities by addressing high risk issues first.

