2013 FloodSAFE Annual Report

Floodplain Management Association

June 19, 2014

Presented by:

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FloodSAFE Program Management Office
Mega Programs

- Flood Management Planning
- Floodplain Risk Management
- Flood Emergency Response Program
- Flood System Operations and Maintenance
- Flood Risk Reduction Projects
Presentation Outline

- Accountability and Planning
- Report At A Glance
- Mega Programs Accomplishments
- FloodSAFE Financing
- Year in Review
- Report Rollout
Accountability and Planning

- JUN 2013
  - 2006–2012 Accomplishments Report

- FEB 2014
  - 2013 FloodSAFE Annual Report

- AUG 2014
  - 2014 Looking to the Future Report

- JAN 2015
  - 2014 FloodSAFE Annual Report

- MAR 2015
  - 2015 Looking to the Future Report

Year

- 2013
- 2014
- 2015

**FloodSAFE California**

**PUBLIC SAFETY**

**ENVIRONMENTAL STEWARDSHIP**

**ECONOMIC STABILITY**

4 6/2014
Calendar Year 2013:

- **Audience**: Legislature and Layperson
- Highlighted ~55 accomplishments
- **5 Mega Programs**
- **Invested $460 million** in actions that:
  - Provide multiple benefits
  - Are geographically diverse
  - Are at various scales of investment
Statewide Flood Management Planning

- Released final *California’s Flood Future*
- Created mapbooks to describe exposure to flood risk for every county.
- Catalogued history of flooding for reference by local and regional planning agencies and land use officials.
Central Valley Flood Management Planning

- Central Valley Flood Protection Board Coordinating Committee
- Completed Milestone 1 of the Basin-wide Feasibility Studies/ Oct. public workshop
- Provided technical support to regional agencies
Floodplain Risk Management

200-year Informational Maps

Flood Risk Notification

Urban Level of Flood Protection Criteria
Flood Risk Reduction Projects

**Folsom Joint Federal Project (JFP)**
- Control structure construction approximately 70% complete.
- Temporary dam embankment construction for the approach channel is 50% complete.

**American River Common Features**
- Completed work on 2 of 8 remaining sites of American River Common Features project in 2013.
Delta Levees System Integrity
- Completed 19 projects in 2013, with a State cost-share of approximately $47 million.

Urban Flood Risk Reduction
- Thirteen miles of SPFC urban levees were improved in 2013, providing increased flood protection to:
  - 60,000 residents near Yuba City
  - 80,000 residents in Sacramento.

Guadalupe River Project, Santa Clara County
Flood Risk Reduction Projects

Flood Corridor
- River Ranch Conservation Easement Acquisition Project: Acquired a 2,962-acre agricultural easement.
- Hamilton City Project: Acquired three properties for future construction of a 6.8-mile setback levee and reconnection of 1,450 acres of floodplain.

Local Levee Assistance
- Executed agreements with 11 agencies to fund 30 Local Levee Assistance projects.
Flood Risk Reduction Projects

Yuba Feather Flood Protection
- Completed preliminary designs for an additional outlet on the New Bullards Bar Dam.

Fish Passage Improvement
- Improved anadromous salmonid passage and flood conveyance in the Calaveras River system by replacing the Caprini Low-flow Crossing, in Mormon Slough, upstream of the City of Stockton.

Caprini Low-flow Crossing

BEFORE construction

AFTER construction
Sutter Bypass Water Control Structure
- Removed and replaced Weir No. 2 to improve water management and fish passage on the Sutter Bypass.

Small Erosion Repair Program
- Streamlined permitting process
  - **Without SERP:** 1-2 erosion sites repaired annually
  - **With SERP:** up to 15 erosion sites repaired annually

Flood Project Integrity
- Assessed more than 4,500 SPFC levee crossings
Flood Forecast and Warning: Improving Observations

- Installed an atmospheric river observatory at Bodega Bay Marine Laboratory.
- Developed a web-based dashboard with input from the Yuba Feather Forecast-Coordinated Operations program.
- Developed unique hydraulic models for 10 urban areas in the Sacramento-San Joaquin Valley protected by SPFC levees.

Local Flood Emergency Response Grants

- Awarded $5 million for 14 projects across the state.
Flood Emergency Response

Flood Emergency Response Preparations
- Conducted the Twitchell Island functional exercise and Cal Expo flood fight training class

Delta Flood Emergency Preparedness and Response Project
- Conducted the Delta Emergency Response Project
- DWR acquired the Stockton West Weber Avenue site
FloodSAFE Financing

FloodSAFE Investment
BY LOCATION

2007 through 2013
($ Millions)

- SPFC Projects
- Statewide Projects
- Delta Projects

$1,772
$695
$331

State Systemwide Investment Approach
STRATEGY

INVESTMENT LEVEL

2007-2013
Future Investment

small projects
systemwide projects
regional projects
small projects
Year in Review

January
Delta Emergency Rock and Transfer Facilities at Rio Vista

February
Atmospheric Observatories

March
San Joaquin Forecast-Coordinated Operations

August
Morrison Creek Floodwall Completion

September
Flood Risk Notification

October
Delta Flood Emergency Transfer Facility in Stockton

2013

April
Flood Corridor Program

May/June
Delta Levee System Integrity

July
200-year Informational Maps Completed and Released

November
Folsom Dam Auxiliary Spillway

December
Urban Level of Flood Protection Finalized
American River Common Features Project

FloodSAFE CALIFORNIA

PUBLIC SAFETY
ENVIRONMENTAL STEWARDSHIP
ECONOMIC STABILITY

6/2014
Report Rollout

Briefings to:

- Central Valley Flood Protection Board
- California Water Commission
- Delta Stewardship Council
- U.S. Army Corps of Engineers/Federal Emergency Management Agency
- Floodplain Management Association

Webinars