





# SB 1278 Informational Floodplain Maps

## RFMP Steering Committee Meeting

### City of Chico/Butte County

November 14, 2013

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Hydrology Branch  
CA Department of Water Resources

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## Senate Bill 1278 (Wolk) / Assembly Bill 1965 (Pan)

Senate Bill No. 1278  
CHAPTER 553

An act to amend Sections 65007, 65302.9, 65860.1, and 65865.5 of the Government Code, and to amend Section 9610 of the Water Code, relating to land use.

[Approved by Governor September 25, 2012. Filed with Secretary of State September 25, 2012.]

LEGISLATIVE COUNSEL'S DIGEST

**SB 1278, Wolk. Planning and zoning: flood protection: Sacramento-San Joaquin Valley.**

(1) Existing law requires each city and county within the Sacramento-San Joaquin Valley to amend its general plan, as specified, within 24 months of the adoption of the Central Valley Flood Protection Plan by the Central Valley Flood Protection Board. Existing law requires the Central Valley Flood Protection Board, the Department of Water Resources, and local flood agencies to collaborate with cities or counties by providing the cities and counties with information and other technical assistance to assist with complying with these requirements.

This bill would instead require each city and county to amend its general plan, as specified, within 24 months of July 2, 2012.

(2) Existing law prohibits a city or county within the Sacramento-San Joaquin Valley from entering into a development agreement for property that is located in a flood hazard zone unless the city or county makes specified findings, including, among others, that certain conditions have been imposed by the city or county.

This bill would additionally authorize a city or county to make a finding that the property in an undetermined risk area, as defined, has met the urban level of flood protection, as specified.

(3) Existing law requires the Department of Water Resources to develop preliminary maps for the 100- and 300-year flood plains protected by project levees, as specified, and to provide the preliminary maps to cities and counties within the Sacramento-San Joaquin Valley.

This bill would additionally require the department, on or before July 2, 2013, to release floodplain maps, as specified, and the available data as to the water surface elevation of flooding in urban areas, as specified. The bill would provide that the department's issuance of floodplain maps are not subject to, among other things, the California Environmental Quality Act and the California Endangered Species Act. This bill would provide that the state or any state agency is not liable for any claim based upon the exercise or performance of a discretionary or ministerial function or duty pursuant to these provisions, as specified.

Assembly Bill No. 1965  
CHAPTER 554

An act to amend Section 65007 of the Government Code, and to amend Section 9610 of the Water Code, relating to land use.

[Approved by Governor September 25, 2012. Filed with Secretary of State September 25, 2012.]

LEGISLATIVE COUNSEL'S DIGEST

**AB 1965, Pan. Land use.**

Existing law requires the Department of Water Resources to develop preliminary maps for the 100- and 300-year flood plains protected by project levees, as specified, and to provide the preliminary maps to cities and counties within the Sacramento-San Joaquin Valley.

This bill would additionally require the department, on or before July 2, 2013, to release floodplain maps, as specified, and the available data as to the water surface elevation of flooding in urban areas, as specified. The bill would provide that the department's issuance of floodplain maps are not subject to the review and approval of the Office of Administrative Law, as specified. The bill would provide that the state or any state agency is not liable for any claim based upon the reasonable exercise or performance of a discretionary or ministerial function or duty pursuant to this provision. The bill would incorporate additional changes pursuant to SB 1278, as specified.

This bill would become operative only if SB 1278 is enacted and takes effect on or before January 1, 2013, and this bill is enacted last.

*The people of the State of California do enact as follows:*

**SECTION 1.** Section 65007 of the Government Code is amended to read:

65007. As used in this title, the following terms have the following meanings, unless the context requires otherwise:

(a) "Adequate progress" means all of the following:

- (1) The final project scope, schedule, and cost of the completed flood protection system have been developed to meet the appropriate standard of protection.
- (2) (A) Resources that are sufficient to fund each year of the project schedule developed in paragraph (1) have been identified and, in any given year and consistent with that schedule, at least 90 percent of the resources scheduled to be received by that year have been appropriated and are currently being expended.





## SB 1278 /AB 1965 Informational Maps

SEC. 5. Section 9610 of the Water Code is amended to read:

- On or before **July 2, 2013**
- **For the purpose of providing information** to cities and counties necessary **for their determinations** relating to level of flood protection
- DWR shall release **floodplain maps** that identify at a minimum the **facilities of the SPFC**, and
- Available data as to the **water surface elevation** of flooding in **urban areas** in the event of **the failure of the facilities of the SPFC** during flooding that has a **1-in-200** chance of occurring in any given year



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## CVFPP – Base for Urban Communities

### 3.2 Urban Flood Protection

DWR will evaluate and participate in projects that contribute to achieving an **urban level of flood protection** through reconstructing, rehabilitating, or improving **SPFC facilities** for **the following urban areas** in the Central Valley:

- **City of Chico**
- **Yuba City** and **City of Marysville**
- Sacramento Metropolitan Area (**Sacramento & West Sacramento**)
- Cities of **Woodland** and **Davis**
- City of **Merced**
- Stockton Metropolitan Area (**Stockton & Lathrop**)



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## Urban Level of Flood Protection Criteria

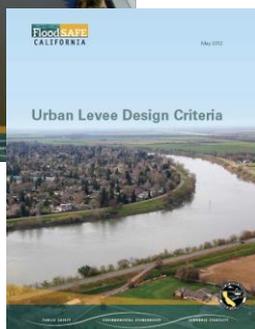
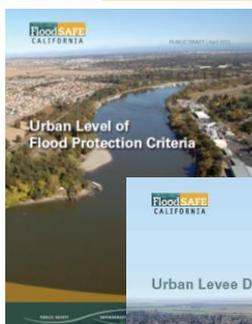
### CVFPP 3.2 Urban Flood Protection

- Improvements to urban levees or floodwalls should follow **DWR's *Urban Levee Design Criteria*** (anticipated 2012), at a minimum.

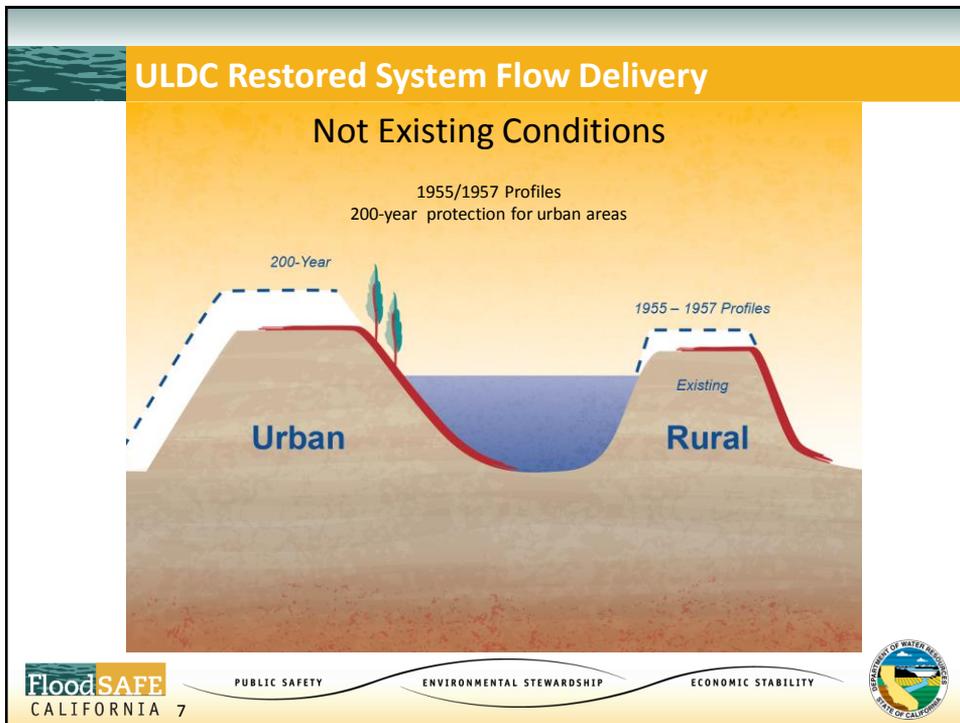
### SB 1278 Section 1 (n)

- "Urban level of flood protection" meaning the level of protection that is necessary to withstand flooding from a leveed riverine system that has a 1-in-200 chance of occurring in any given year using **criteria consistent with, or developed by, the Department of Water Resources...**

## H&H and Geotechnical Criteria



- 6.2 Geotechnical Design Principles
- 6.3 Hydrologic and Hydraulic Design Principles
- 7.1 Design Water Surface Elevation
- 7.2 Minimum Top of Levee



## SB 1278 Urban Study Area Models

- **Hydrology**
  - **CVHS models have been modified to meet ULOP/ULDC flow delivery criteria (Restored System, not Existing Conditions)**
    - Urban Levees raised to 200-year WSE +3ft Freeboard
    - Non Urban SPFC Levees raised to 1955/57 Design Profile
    - Routed flows may overtop but do not fail upstream levees
- **Hydraulics & Mapping**
  - **CVFED Models configured to ULOP/ULDC (Restored System)**
    - Urban SPFC Levee Segments breached @ trigger elevations (lower of geotechnical levee reduction height or levee freeboard)
    - Composite Urban Study Area Floodplain developed
- **Geotechnical- Coordination with ULE/NULE Program**
  - Initial Urban Levees Designated
  - Levee Reliability Criteria developed (Stability/Thru seepage/Under Seepage/Freeboard)

## SB 1278 Mapping Deliverables Requirements

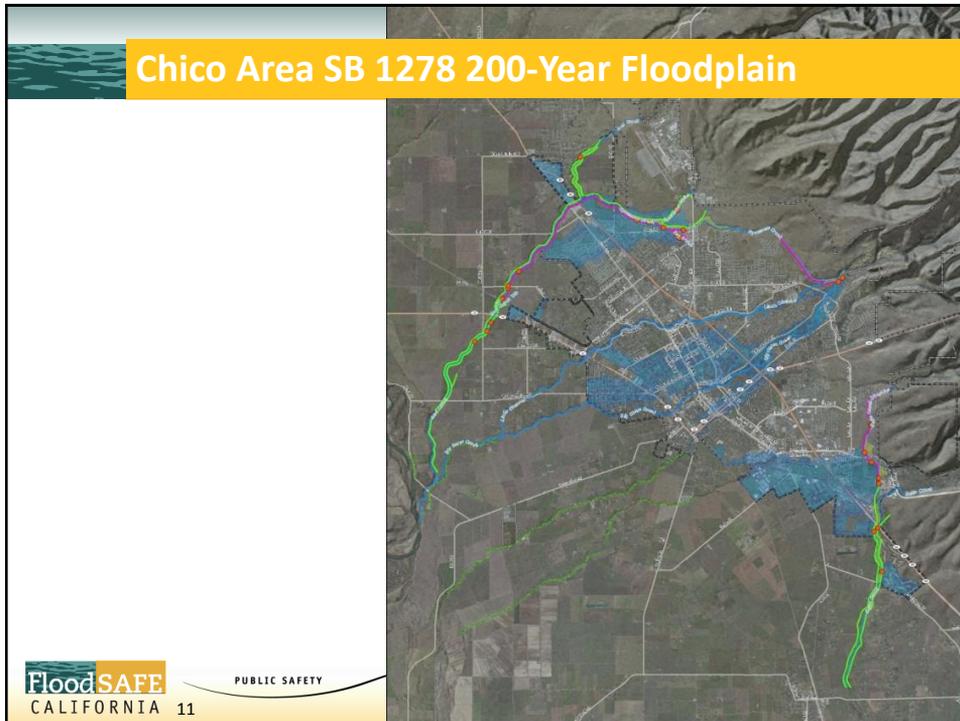
- **Ten Urban Areas, SB 1278 Informational Maps that, at minimum**
  - Identify facilities of the SPFC
  - Apply ULOP/ULDC State criteria
  - Provide Urban Area 200-year WSE in the event of failure of the SPFC facilities



## Deliverables Summary – City of Chico & Butte Co.

- **June 28, 2013 – both City and County, delivered package:**
  - Chico Area SB 1278 200-year WSE
  - Digital Geographic Information System (GIS) files
  - Factsheet for SB 1278 Urban Area 200-year Informational Maps
- **September 3, 2013 – City of Chico, supporting materials:**
  - Chico Area SB 1278 200-year Flood Depth Maps (PDF & GIS)
  - Hydraulic Models (HEC-RAS and FLO-2D) & Model Documents
  - Levee Reliability Data
  - 1955/1957 Levee Information





## What They Are, and Are Not

- **These Maps Are:**
  - Informational Maps to support development of Urban Level of Flood Protection findings
  - Depicting WSE in urban areas resulting from breach of SPFC levees only
  - Showing SPFC facilities protecting urban areas
  - Clipped to depict extent of flooding in the community Sphere of Influence
  - Accounting only for sources of flooding associated with SPFC levees protecting the urban community
  - Developed from flow delivered in accordance with the ULDC restored system criteria
  - Conservative composite WSE floodplain maps from multiple breach scenarios

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## What They Are, and Are Not

- **These Maps Are Not:**
  - All of the information needed to complete community Urban Level of Flood Protection findings
  - Representing the most likely floodplain
  - Related to FEMA NFIP regulatory maps
  - Related to USACE/FEMA levee certification and accreditation processes
  - Related to SB 5 Best Available Maps (July 1, 2008) or Levee Flood Protection Zone (December 31, 2008)
  - Building Code floodplain maps
  - Accounting for other sources of flooding (non-SPFC levees or local/interior drainage)



## Questions?

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# Information Request Form

Senate Bill 1278 / Assembly Bill 1965  
Urban Level of Flood Protection Informational Maps  
Information Request Form  
(Page 1 of 2)

A significant amount of information has been assembled as part of the development of the Senate Bill 1278 / Assembly Bill 1965 Urban Level of Flood Protection Informational Maps. The available information is listed below. To request this information please complete this form, print it, scan it and email it to: [Statewide@water.ca.gov](mailto:Statewide@water.ca.gov)

AVAILABLE INFORMATION									
<input type="checkbox"/> Protection and Assumptions used for Senate Bill 1278 / Assembly Bill 1965 Urban Level of Flood Protection Informational Maps									
<input type="checkbox"/> Senate Bill 1278 / Assembly Bill 1965 Urban Level of Flood Protection Informational Maps, Hydraulic Models, and Background Materials									
Area	City	County	Mapbook	Depth	W. Elevation	Foundation	Supporting Data	Mapbook	Level of Reliability
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mapbook with 200+ or Water Surface Elevation Maps									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200 year Floodplain Depth of Foundation Maps									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200 year Floodplain Depth of Foundation Maps									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mapping models (HIRE, FLO-2D, and TUFLOW)									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Supporting data and pertinent input and output spatial data for the mapping models									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Major Accomplishments									
<input type="checkbox"/> Level of Reliability Data used for the Senate Bill 1278 / Assembly Bill 1965 Urban Level of Flood Protection Informational Maps									
<input type="checkbox"/> 1950/1957 Levee Information used for the Senate Bill 1278 / Assembly Bill 1965 Urban Level of Flood Protection Informational Maps									

**Disclaimer of Liability**  
THIS MAP IS NOT A WARRANTY, REPRESENTATION OR GUARANTEE, EITHER EXPRESSED OR IMPLIED, AS TO THE COMPLETENESS, ACCURACY OR CORRECTNESS OF THIS 200-YEAR FLOODPLAIN MAP. NOR ACCEPTS OR ASSURES ANY LIABILITY ARISING FROM OR FOR ANY NEGLIGENCE, INCOMPLETE OR MISLEADING DATA PROVIDED PURSUANT TO THIS REQUEST. THESE MAPS ARE INTENDED TO ASSIST COMMITTEES IN MAKING DETERMINATIONS RELATING TO THEIR URBAN LEVEL OF FLOOD RISK. COMMITTEES SHOULD MAKE THEIR OWN INDEPENDENT DETERMINATIONS RELATED TO FLOOD RISK LIABILITY AND ALL OTHER POTENTIAL FLOOD SOURCES.

Senate Bill 1278 / Assembly Bill 1965  
Urban Level of Flood Protection Informational Maps  
Information Request Form  
(Page 2 of 2)

Detailed description of information desired, but not listed:

Questions and/or comments:

Contact information for follow-up:  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Affiliation: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Email: \_\_\_\_\_



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# Way Ahead LOM/FERIX

**FLOOD RESILIENCE REPORT** Library of Models User Guide

The objective of the Library of Models (LOM) is to serve as a central library for preservation and use of flood and water management models.

**The Check:**

- Protect the FloodSAFE California investment in model development by ensuring proper backup and maintenance of models.
- Eliminate and reduce duplication of effort by maximizing reuse, consolidation, and consistency of models.
- Reduce storage and costs, including those incurred by existing and new models.

**LIBRARY OF MODELS**

LOM membership is available to all federal, state, and local flood management agencies and their contractors.

**ACCESSING THE LIBRARY OF MODELS**

The LOM can be accessed using any web browser that supports Java 1.5 (J2SE) and JavaFX 2.0 or later and Internet Explorer 8.0 or later and the recommended browser.

**Request/Update Requirements**

For details of model request procedures for the LOM, it is recommended to visit a higher-level page from 2009 that can be found at [www.floodsafe.ca.gov](http://www.floodsafe.ca.gov).

**Using the Library of Models for the First Time**

When accessing the LOM for the first time, you will be prompted to log in as a Member. From the LOM Home page, please click on the "New Member" link. Complete the New Membership Registration form and click on the "Submit" button. Registration is successful only when you log back into the LOM Home page using your new Member information.

**Registration**

- Open page, where the "New Member" appears at the top of the page. Member may access new home page as Member.
- LOM Home, which is accessible to all members.
- Library Home, which is only accessible after registration and login as a Member.
- Click between the two new pages by clicking the second tab.

**Returning to the Library of Models**

Once logged in, you will be prompted to the Library Home page.

The LOM Home features two major sections:

- Check for a new model into the library.
- Access the library and download a selected model.

Both options are accessible from the Library Home page.

**FOR INFORMATION**

For more information on LOM membership, visit the Membership Home page. For more information on the LOM, visit the LOM Home page. For more information on the LOM, visit the LOM Home page. For more information on the LOM, visit the LOM Home page.

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**FERIX**

Library of Models User Guide

Before beginning the check-in process, it is recommended that you first become familiar with the check-in process. For more information on the check-in process, visit the LOM Home page.

The Check-in process is a multi-step process that involves the following steps:

1. Check for a new model into the library.
2. Access the library and download a selected model.

Both options are accessible from the Library Home page.



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