

State Plan of Flood Control Descriptive Document Update

AUGUST 2017



**State Plan of Flood Control
Descriptive Document Update**

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State Plan of Flood Control Descriptive Document Update

August 2017

STATE OF CALIFORNIA
THE NATURAL RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES



**State Plan of Flood Control
Descriptive Document Update**

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Foreword

On behalf of the California Department of Water Resources (DWR), I am pleased to present the August 2017 State Plan of Flood Control (SPFC) Descriptive Document Update. Minor refinements to the document have been made since the Draft was completed in November 2016. The 2017 Update is intended to serve as a reference for flood management planners and operators at the local, State, and federal levels. It is not a stand-alone document; rather, it works in conjunction with the November 2010 SPFC Descriptive Document, builds upon information presented in the original report, and documents changes to the SPFC that have occurred between November 2010 and June 30, 2016. The 2017 Update documents the inventory of flood control projects and works (facilities), lands, programs, plans, conditions, and mode of operations and maintenance for the State-federal flood management system in the Sacramento River and San Joaquin River watersheds of California, as well as informs the 2017 Central Valley Flood Protection Plan Update.

In 2006 and 2007, California voters approved the Disaster Preparedness and Flood Prevention Bond Act of 2006 and the Central Valley Flood Protection Act of 2008 respectively. These acts defined the Sacramento River and San Joaquin River federal-State flood control projects as the SPFC, and required DWR to develop, and the Central Valley Flood Protection Board to adopt, a Central Valley Flood Protection Plan. The Central Valley Flood Protection Plan is broader than the SPFC, affecting the entire watersheds of the Sacramento and San Joaquin valleys.

A complex system of dams and reservoirs, levees, weirs, bypasses, and other features constructed piecemeal over the last 100 years protects urban and rural areas against most flooding. This system has prevented billions of dollars in damage in its lifetime. A portion of this complex flood protection system includes State and federally authorized projects for which the Central Valley Flood Protection Board or DWR has provided assurances of cooperation to the federal government, known as the SPFC. These statutory authorizations include provisions regarding responsibility for operation and maintenance of the flood control facilities. The California Legislature has authorized funding for numerous flood control projects throughout the Sacramento and San Joaquin River watersheds. As the SPFC evolves, updates to the SPFC Descriptive Document will be useful in determining funding eligibility for funding for facility improvements.



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Guide to the Report

The State Plan of Flood Control (SPFC) Descriptive Document, November 2010, provided the first inventory and description of the flood management projects and features (facilities), lands, programs, plans, conditions, and mode of operations and maintenance for the State-federal flood management system in the Sacramento River and San Joaquin River watersheds of California. The 2010 Descriptive Document was prepared in response to Proposition 1E (Disaster Preparedness and Flood Prevention Act of 2006), which required that information on the SPFC "... be updated and compiled into a single document entitled, 'The State Plan of Flood Control.'" Similar information is required to be a part of the CVFPP pursuant to the Central Valley Flood Protection Act of 2008. Legislation relevant to this document can be found in Appendix A.

While much of the information contained in the 2010 Descriptive Document has not changed, it was anticipated that future updates would be necessary to keep the SPFC description current as new or ongoing projects were completed. Also, updates to the SPFC would be appropriate to reflect any additional or new documentation discovered on existing projects that would meet the requirements of the SPFC. The purpose of this update to the 2010 Descriptive Document is to describe changes that have occurred to the SPFC since the 2010 Descriptive Document due to project implementation and other related changes. This document also supports the data and analysis of the 2017 Central Valley Flood Protection Plan Update (CVFPP) and the 2017 Flood System Status Report (FSSR).

The SPFC Descriptive Document Update (Update) is structured as a reference document and should be used in conjunction with the 2010 Descriptive Document to represent the SPFC as of June 30, 2016. It includes narrative descriptions, tables, figures, web links, and maps, to help the reader find information for this complex flood management system. Figure G-1 shows a geographic overview of the SPFC. Consistent with the 2010 Descriptive Document level of detail, this report describes changes to the major elements of the SPFC, but only to a level of detail necessary to orient the reader to the SPFC and reference where more information can be found. For example, a given reach of levee may have many encroachments such as pipes that cross under, through, or over the levee. In addition, a given river reach may have associated bridges, stream gages, drainage facilities, etc. No attempt was made to itemize all these encroachments and associated facilities in this Update. Because of the volume of available information, a reference digital versatile disc (DVD) was provided in the pocket at the end of the 2010 Descriptive Document. The DVD provided more details than could be contained in the text of the 2010 report. The contents of the 2010 Reference DVD, excluding the SPFC Mapbook and O&M manual database, is located on the 2012 CVFPP webpage at <http://www.water.ca.gov/cvfmp/2012-cvfpp-docs.cfm>.

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To supplement the DVD, an updated O&M Manual database is located on the SPFC O&M Manuals webpage of the California Data Exchange Center website (http://cdec.water.ca.gov/o_and_m_manuals.html) and additional references can be found on the 2017 CVFPP Update webpage at <http://www.water.ca.gov/cvfmp/2017-cvfpp-docs.cfm>.

This document is organized similarly to the 2010 Descriptive Document and includes the following sections:

1. Introduction
2. Existing Projects Update
3. State Plan of Flood Control Facilities Update
4. State Plan of Flood Control Lands Update
5. State Plan of Flood Control Operations and Maintenance Update
6. State Plan of Flood Control Conditions Update
7. Programs and Plans Related to the State Plan of Flood Control Update
8. State Plan of Flood Control Future Updates
9. Observations Update
10. References
11. Acronyms

The 2010 Descriptive Document can be viewed on the 2012 CVFPP webpage at <http://www.water.ca.gov/cvfmp/2012-cvfpp-docs.cfm>.

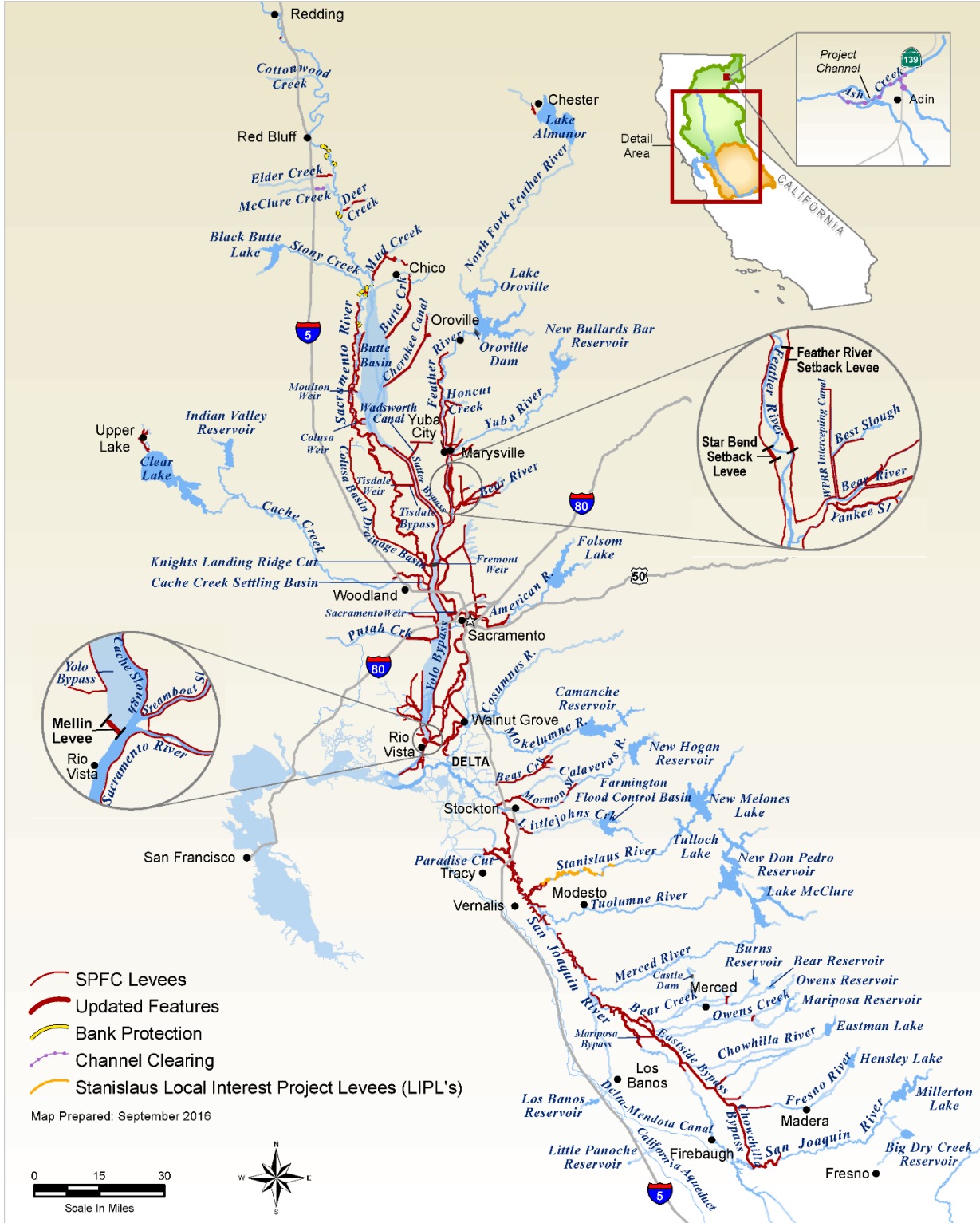


Figure G-1. Geographic Overview of the State Plan of Flood Control (Updated)

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1.0 Introduction

The 2010 State Plan of Flood Control (SPFC) Descriptive Document was organized according to the components of the SPFC, including project facilities, lands, operations and maintenance (O&M), conditions, and programs and plans. The 2010 Descriptive Document also addressed several ongoing projects that could become part of the SPFC after completing a process for addition. This SPFC Descriptive Document Update (Update) is organized in a way to present and address changes to the components of the SPFC since the 2010 Descriptive Document, as well as to provide an update on ongoing activities that could lead to modifying the SPFC in the future. The level of detail provided in this Update is consistent with the 2010 Descriptive Document, which focused on the major changes and activities of the SPFC.

1.1 Organization of Update

This document is organized into the following sections:

- Section 1.0 – Introduction provides overview information about updates to the SPFC since the 2010 Descriptive Document that are contained in this document.
- Section 2.0 – Existing Projects Update presents updates to the ongoing State-federal projects mentioned in the 2010 Descriptive Document.
- Section 3.0 – State Plan of Flood Control Facilities Update describes changes to SPFC project works or facilities located along the various reaches of the Sacramento and San Joaquin rivers and their tributaries and distributaries.
- Section 4.0 – State Plan of Flood Control Lands Update describes changes to Sacramento – San Joaquin Drainage District land holdings, types of property rights, agreements for use of easements and properties, lands of designated floodways, and ongoing evaluations. This section also includes a discussion of fee title lands, encroachment permits, and easements in greater detail.
- Section 5.0 – State Plan of Flood Control Operations and Maintenance Update presents updated information about repair projects, O&M manuals, maintenance, and operations for the SPFC.
- Section 6.0 – State Plan of Flood Control Conditions Update presents changes to the conditions, or terms, of the SPFC set forth by the federal government and the State.
- Section 7.0 – Program and Plans Related to the State Plan of Flood Control Update describes updated information on existing programs and plans that support the SPFC, and ongoing evaluations and processes that could affect the SPFC.
- Section 8.0 – State Plan of Flood Control Future Updates describes updated information on activities contributing to the SPFC update and ongoing projects.

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- Section 9.0 – Observations Updates presents observations made during the preparation of this Update that could facilitate presentation of the information to the reader.
- Section 10.0 – References presents the references used to prepare this Update.
- Section 11.0 – Acronyms lists the acronyms used in this Update.

1.2 Summary of State Plan of Flood Control Updates Since the 2010 Descriptive Document

Table 1-1 provides a summary of SPFC updates since the 2010 Descriptive Document by document section.

Table 1-1. Section Updates Since the 2010 Descriptive Document

Section	Updated Items	Reason for Update
2.0 Existing Projects Update	American River Watershed, Joint Federal Project at Folsom Dam	This ongoing State-federal project was not listed in the 2010 Descriptive Document.
	American River Watershed, Common Features Project, Natomas Basin	This ongoing State-federal project received authorization after the 2010 Descriptive Document.
	American River Watershed, Folsom Dam Raise Project, Bridge Element	This project was completed after the 2010 Descriptive Document and has been removed from the list of ongoing State-federal projects provided in Table 2-2. This project is not part of the SPFC.
3.0 Facilities Update	SRFCP Unit 106 Mellin Levee	Additional documentation for this facility has been found.
	Lower Feather River Setback Levee at Star Bend Project	This project was completed after the 2010 Descriptive Document.
	Natomas Cross Canal South Levee Improvements Project	This project was completed after the 2010 Descriptive Document.
	Structures	Information on maintaining agency, county where the structure is located and corresponding O&M manual has been included in Table 3-3.
4.0 Lands Update	Fee Title Lands	Additional detail on these subjects was added.
	Encroachment Permits	
	Easements	
5.0 Operations and Maintenance Update	Updated O&M Manuals	Relevant O&M manuals were updated or revised since the 2010 Decision Document. A table listing the manuals is provided.
	Superseded O&M Manuals	Relevant O&M manuals were superseded by more current O&M manuals since the 2010 Decision Document. A table listing the manuals is provided.
	O&M Manual Database	The database of O&M manuals can be found on the SPFC O&M Manuals webpage of the DWR CDEC website (DWR, 2017), thus a DVD is not included in this Update. A table noting updated O&M manuals is included.

Table 1-1. Section Updates Since the 2010 Descriptive Document

Section	Updated Items	Reason for Update
	Inspections	The discussion on Interim Vegetation Inspection Criteria required updating.
	Maintenance	Some SPFC facilities were not listed in the 2010 Descriptive Document. Information about maintenance by DWR also required updating.
6.0 Conditions Update	No updates were required to the SPFC Conditions description provided in the 2010 Descriptive Document.	
7.0 Programs and Plans Update	Ongoing State-Federal Projects Update	Information in these subsections has changed since the 2010 Descriptive Document.
	Early Implementation Program Update	
	ULE/NULE	
	USACE Levee Safety Program	This program began after the 2010 Descriptive Document.
8.0 State Plan of Flood Control Future Updates	DWR Implementation of CVFPP and Financial Assistance Programs	Information on programs and plans related to the SPFC required updating.
	Flood System Status Report	Report text was updated since the 2010 Descriptive Document.
	2017 CVFPP Update	The CVFPP is updated every 5 years. The 2010 Descriptive Document discussed the 2012 CVFPP and this Update discusses the 2017 CVFPP Update.
	Ongoing Evaluations, Projects, and Repairs	A description of the Sacramento River Bank Protection Program, Flood System Repair Program, Levee Rehabilitation Program, and Urban Flood Risk Reduction Program has been added.
9.0 Observations	Definition of SPFC	Definitions of the SPFC were inconsistent.
	Lower San Joaquin River Flood Control Project	New information regarding the federal authorization of this project is discussed.
10.0 References	List of References	References that are used in this Update, but were not used in the 2010 Descriptive Document, have been included in this list.
11.0 Acronyms	List of Acronyms	Acronyms that are used in this Update, but were not used in the 2010 Descriptive Document, have been included in this list.

Notes:

CDEC = California Data Exchange Center
 CVFPP = Central Valley Flood Protection Plan
 DVD = digital versatile disc
 DWR = California Department of Water Resources
 O&M = operations and maintenance

SPFC = State Plan of Flood Control
 SRFCP = Sacramento River Flood Control Project
 UFRR = Urban Flood Risk Reduction
 ULE/NULE = Urban and Non-Urban Levee Evaluations Projects
 USACE = U.S. Army Corps of Engineers

1.3 Table Updates from the 2010 Descriptive Document

Two tables from the 2010 Descriptive Document were updated to reflect changes to the SPFC and eight new tables are included in this Update. Table 1-2 summarizes all updates to tables and those tables that are included in this Update (unchanged tables are not included in this document).

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Table 1-2. Table Updates from the 2010 Descriptive Document

2010 Table Number	2017 Update Table Number	Title	Update Made
--	1-1	Chapter Updates	These are new tables. They were not in the 2010 Descriptive Document.
--	1-2	Table Updates from the 2010 Descriptive Document	
--	1-3	Figure Updates from the 2010 Descriptive Document	
2-1	NU	Summary of Existing State Plan of Flood Control Projects	No update was made to this table. Refer to the 2010 Descriptive Document for more information.
2-2	2-2	Summary of Ongoing State-Federal Projects (Updated)	Two projects were added to this table: American River Watershed, Joint Federal Project at Folsom Dam; and American River Watershed, Common Features Project, Natomas Basin. The American River Watershed, Folsom Dam Raise, Bridge Element Project, was completed after the 2010 Descriptive Document.
2-3	NU	Major Multipurpose Reservoir Project Summary	No updates were made to these tables. Refer to the 2010 Descriptive Document for more information.
3-1	NU	Design Capacities by Reach in Sacramento River Basin	
3-2	NU	Design Capacities by Reach in San Joaquin River Basin	
--	3-3	SPFC Structures in the Sacramento River Basin	These are new tables. They were not in the 2010 Descriptive Document.
--	3-4	SPFC Structures in the San Joaquin River Basin	
4-1	NU	Acres of Land for Which Sacramento-San Joaquin Drainage District Holds Property Rights, by County	No updates were made to this table. Refer to the 2010 Descriptive Document for more information.
5-1	5-1	Maintaining Agencies for State Plan of Flood Control Facilities	The Mellin Levee was added as well as structures not previously listed in Table 5-1. In the 2010 Descriptive Document.
--	5-2	O&M Manuals with Additions or Revisions since 2010 in the Sacramento River Basin	These are new tables. They were not in the 2010 Descriptive Document.
--	5-3	O&M Manuals with Additions or Revisions since 2010 in the San Joaquin River Basin	
--	5-4	Superseded O&M Manuals	

Note:

NU = No updates were necessary to the table from the 2010 Descriptive Document, thus the table is not included in this Update document.

1.4 Figure Updates from the 2010 Descriptive Document

Fifteen figures from the 2010 Descriptive Document were updated to reflect changes to the SPFC and three new figures are included in this Update. Table 1-3 summarizes all updates to figures and those figures included in this Update (unchanged figures are not included in the document).

Table 1-3. Figure Updates from the 2010 Descriptive Document

2010 Figure Number	2017 Update Figure Number	Title	Update Made
G-1	G-1	Geographic Overview of the State Plan of Flood Control (Updated)	Insets were added that highlighted updates to the figure. Updates include Mellin Levee, Starbend and Feather River Setback Levees, and the Natomas Cross Canal South Levee.
1-1	NU	Sacramento and San Joaquin River Basins Planning Area for the State Plan of Flood Control	No updates were made to these figures. Refer to the 2010 Descriptive Document for more information.
2-1	NU	Approximate Locations of Federal/State Flood Damage Reduction Projects Within the Sacramento and San Joaquin River Basins that are included in the State Plan of Flood Control	
2-2	NU	Locations of Multipurpose (Including Flood Control) Dams and Reservoirs in the Sacramento and San Joaquin River Basins	
2-3	NU	Location of Designated Floodways Within the Sacramento and San Joaquin River Basins	
3-1	3-1	State Plan of Flood Control Facilities Within the Sacramento River Basin near Chester, Middle Creek, and Adin (Updated)	Some facility structures not shown on the map in the 2010 Descriptive Document were added and some facility structure names were updated.
3-2	3-2	Design Flood Flow Capacities Within the Sacramento River, Bypasses, and Major Tributaries and Distributaries in the Sacramento River Basin (Updated)	Design flood flow capacity Butte Basin Overflow at Ord Ferry and levee alignments were updated.
3-3	3-3	Design Flood Flow Capacities Within the San Joaquin River, Bypasses, and Major Tributaries and Distributaries in the San Joaquin River Basin	No updates were made to this figure. This figure is to be used in conjunction with Figure 3-2 for a full map of the Sacramento and San Joaquin River systems. Figure 3-3 is included in this 2017 update for ease of use. Refer to the 2010 Descriptive Document for more information.
3-4	NU	Index Map of the Sacramento River Basin Including the Five Major Watersheds with Facilities of the State Plan of Flood Control	No updates were made to this figure. Refer to the 2010 Descriptive Document for more information.
3-5	3-5	Feather River Watershed – State Plan of Flood Control Facilities Along the Feather, Yuba, and Bear Rivers and Tributaries (Updated)	Some facility structures not shown on the map in the 2010 Descriptive Document were added and some facility structure names were updated.
3-6	3-6	American River Watershed – State Plan of Flood Control Facilities Along the American River, Natomas East Main Drainage Canal, and Tributaries (Updated)	
3-7	3-7	Sutter Bypass Watershed – State Plan of Flood Control Facilities Along Butte Creek, Cherokee Canal, Sutter Bypass, and Tributaries (Updated)	
3-8	3-8	Yolo Bypass Watershed – State Plan of Flood Control Facilities Along the Yolo Bypass, Cache Creek, and other Tributaries (Updated)	

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Table 1-3. Figure Updates from the 2010 Descriptive Document

2010 Figure Number	2017 Update Figure Number	Title	Update Made
3-9	3-9	Main Stem Sacramento River Watershed – State Plan of Flood Control Facilities Along the Sacramento River and Certain Tributaries from Red Bluff to Moulton Weir (Updated)	
3-10	3-10	Main Stem Sacramento River Watershed – State Plan of Flood Control Facilities Along the Sacramento River and Certain Tributaries from Moulton Weir to Fremont Weir (Updated)	
3-11	3-11	Main Stem Sacramento River Watershed – State Plan of Flood Control Facilities Along the Sacramento River and Certain Tributaries and Distributaries form Fremont Weir to Collinsville (Updated)	
3-12	NU	Index Map of the San Joaquin River Basin Including the Two Major Watersheds With Facilities of the State Plan of Flood Control	No updates were made to this figure. Refer to the 2010 Descriptive Document for more information.
3-13	3-13	Chowchilla and Eastside Bypasses – State Plan of Flood Control Facilities Along the Chowchilla and Eastside Bypasses and Tributaries (Updated)	Some facility structures not shown on the map in the 2010 Descriptive Document were added and some facility structure names were updated.
3-14	3-14	San Joaquin River Watershed – State Plan of Flood Control Facilities Along the San Joaquin River from Gravelly Ford to the Sand Slough Control Structure (Updated)	
3-15	3-15	San Joaquin River Watershed – State Plan of Flood Control Facilities Along the San Joaquin River from the Sand Slough Control Structure to Stanislaus River (Updated)	
3-16	3-16	San Joaquin River Watershed – State Plan of Flood Control Facilities Along the San Joaquin River and Major Tributaries and Distributaries from Stanislaus River to Disappointment Slough (Updated)	
--	3-17	Mellin Levee Location	These are new maps. They were not included in the 2010 Descriptive Document.
--	3-18	Star Bend Setback Levee Location	
--	3-19	Natomas Cross Canal South Levee Location	
4-1	NU	Boundaries of the Sacramento-San Joaquin Drainage District	No updates were made to these figures. Refer to the 2010 Descriptive Document for more information.
5-1	NU	Locations of Maintaining Agencies Within the Sacramento River Basin	
5-2	NU	Locations of Maintaining Agencies Within the San Joaquin River Basin	
5-3	NU	Cooperating Agencies in State-Federal Flood Operations Center	

Note:

NU = No updates were necessary to this figure from the 2010 Descriptive Document, thus the figure is not included in this Update document.

2.0 Existing Projects Update

This section presents updates to the ongoing State-federal projects mentioned in the 2010 Descriptive Document. These changes resulted from additional documentation related to various facilities discovered since 2010 and completed improvements to SPFC facilities as of June 30, 2016. State-federal authorized projects have not changed since the 2010 Descriptive Document.

2.1 Summary

While preparing the 2010 Descriptive Document, supporting project documentation was collected and gaps in documentation were identified. The 2010 Descriptive Document incorporated information contained in reports that originated from 2 standard and 118 individual project (unit-specific) O&M manuals, their associated project turnover letters from the U.S. Army Corps of Engineers (USACE) to the Central Valley Flood Protection Board (CVFPB) (“The Reclamation Board” prior to 2008), and acceptance letters from CVFPB to USACE indicating project completion. Often, O&M manuals provide key information about each project element, including project authorizations, identification of maintaining agencies, project ownerships, and O&M requirements. Many individual projects included in the SPFC were implemented almost a century ago, and as a result, some project information may have been lost or never obtained.

Recent correspondence between USACE and CVFPB noted that the federal authorization status of some existing SPFC facilities may have denoted a difference of opinion between the State and USACE. This difference of opinion in federal authorization status could affect multiple aspects of associated SPFC facilities in terms of emergency assistance, maintenance, and potential flood control system improvements.

The California State Legislature authorized funding for numerous flood control projects throughout the Sacramento and San Joaquin River watersheds. These statutory authorizations included varying provisions regarding responsibility for O&M of the flood control facilities.

2.2 Sacramento River Basin Projects Update

There are no updates to the inventory of existing projects in the Sacramento River Basin as described in the 2010 Descriptive Document.

2.3 San Joaquin River Basin Projects Update

There are no updates to the inventory of existing projects in the San Joaquin River Basin as described in the 2010 Descriptive Document.

2.4 Ongoing State-Federal Flood Management Projects

Work continues on multiple State-federal flood protection projects in the Sacramento River Basin. The status of each project at the time of this report is provided in the 2017 Flood System Status Report (FSSR). Some elements of these projects are expected to become part of the SPFC upon completion, while other elements are not (such as the bridge raise for Folsom Dam Modifications).

2.4.1 Ongoing Sacramento River Basin Projects

Ongoing State-federal flood protection projects in the Sacramento River Basin at the time of this report include the following:

- Modifications to the Sacramento River Flood Control Project
- American River Watershed, Common Features Project
- American River Watershed, Folsom Dam Raise Project
- American River Watershed, Common Features Project, Natomas Basin
- American River Watershed, Joint Federal Project at Folsom Dam
- Yuba River Basin, Marysville Ring Levee Project
- Middle Creek Flood Damage Reduction and Ecosystem Restoration Project
- South Sacramento County Streams Group Project
- West Sacramento Project
- Cache Creek Settling Basin Enlargement
- Murphy Slough Habitat Restoration Project

The American River Watershed, Folsom Dam Raise Project, Bridge Element listed in the 2010 Descriptive Document was removed from this list because construction is complete. This project is not part of the SPFC.

Project descriptions for ongoing projects listed in the 2010 Descriptive Document and Table 2-2 remain the same. Two projects not listed in the 2010 Descriptive Document are the American River Watershed, Common Features Project, Natomas Basin, and American River Watershed, Joint Federal Project at Folsom Dam. Descriptions for these projects are provided below. The project statuses are included in the 2017 FSSR.

Table 2-2. Summary of Ongoing State-Federal Projects (Updated)

Federal Act	Public Law	Chief of Engineers Report	State Authorization
American River Watershed, Common Features Project			
WRDA 1986	99-662	American River Watershed Project, California	CWC Section 12670.10, 12670.11, 12670.12, 12670.14, 12670.16
WRDA 1996	104-303		
WRDA 1999	106-53		
American River Watershed, Folsom Dam Raise Project			
DAA 1993	102-396	American River Watershed Project, California	CWC Section 12670.11, 12670.14
WRDA 1999	106-53		
EWDA 2004	108-137		

Table 2-2. Summary of Ongoing State-Federal Projects (Updated)

Federal Act	Public Law	Chief of Engineers Report	State Authorization
EWDA 2006	109-103		
American River Watershed, Joint Federal Project at Folsom Dam			
WRDA 1996	110-114	American River Watershed Project, California	CWC Section 12670.14
WRDA 1999	106-53		
American River Watershed, Common Features Project, Natomas Basin			
WRDA 1996	110-114	American River Watershed Project, California	CWC Section 12670.14
WRDA 2014	113-121		
Yuba River Basin, Marysville Ring Levee Project			
WRDA 1999	106-53	Yuba River Basin Investigation, California Feasibility Report	CWC Sections 8615, 12616, and 12670.7
WRDA 2007	110-114		
Middle Creek Flood Damage Reduction and Ecosystem Restoration Project			
FCA 1962	87-874	HD 104-149	CWC Sections 12585.12 and 12656.5
WRDA 2007	110-114		
South Sacramento County Streams Group Project			
WRDA 1999	106-53	South Sacramento County Streams, California, October 6, 1998	CWC Section 12670.14
West Sacramento Project			
WRDA 1992	102-580	Sacramento Metro Area, California, June 29, 1992	CWC Sections 12670.2 and 12670.3
Cache Creek Settling Basin Enlargement			
WRDA 1986	99/662	Report dated April 27, 1981	CWC Section 12670
Murphy Slough Habitat Restoration Project			
WRDA 1986	99-662	CAP	CWC Sections 8590, 8590.2, 8615, 8623, and 12841

Notes:

CAP = Continuing Authorities Project

CWC = California Water Code

DAA = Defense Appropriation Act

EWDA = Energy and Water Development Appropriation Act

FCA = Flood Control Act

HD = U.S. House of Representatives Document

WRDA = Water Resources Development Act

American River Watershed, Joint Federal Project at Folsom Dam

The Joint Federal Project (JFP) will reduce the flood risk to Sacramento by allowing more efficient release of stored water in Folsom Reservoir to provide storage space for approaching flood events. The JFP also allows Folsom Dam to safely pass the Probable Maximum Flood. The JFP consists of a new, gated auxiliary spillway southwest of Folsom Dam, adjacent to the Left Wing Dam. Major features include Phase III: Control Structure, including six submerged tainter flood gates; Phase IV: A 1,100-foot-long approach channel, 4,000-foot-long spillway chute, and stilling basin in the American River; and Phase V: Restoration activities of the JFP site.

**State Plan of Flood Control
Descriptive Document Update**

American River Watershed, Common Features Project, Natomas Basin

This project will provide flood damage reduction improvements along the Natomas Cross Canal, Sacramento River, Lower American River, Natomas East Main Drainage Canal, and Pleasant Grove Creek Canal. Proposed improvements include (1) strengthening or widening levees to reduce the chance of failure due to seepage and levee instability; and (2) raising levees to increase flood conveyance capacity. These improvements along with other improvements in the Sacramento River and American River Watersheds will result in a 200-year-level of flood protection in the Natomas Basin.

2.4.2 Ongoing San Joaquin River Basin Projects

At the time of this report, there are no ongoing State-federal flood protection projects in the San Joaquin River Basin.

3.0 State Plan of Flood Control Facilities Update

The facilities section of the 2010 Descriptive Document described the major facilities including levees, drainage pumping plants, weirs, dam/reservoirs, and other major channel improvements and mitigation areas. Three updates to SPFC facilities occurred since the 2010 Descriptive Document, and include the addition of (1) the Sacramento River Flood Control Project (SRFCP) Unit 106 Mellin Levee to the SPFC, (2) the Lower Feather River Setback Levee at Star Bend, and (3) the Natomas Cross Canal South Levee. All three changes are in the Sacramento River Basin. This section describes these additions and also builds upon the facility descriptions in the 2010 Descriptive Document by providing more details on structures within the SPFC.

3.1 State Plan of Flood Control Facilities in the Sacramento River Basin

The three updates to SPFC facilities in the Sacramento River Basin since the 2010 Descriptive Document include the addition of the SRFCP Unit 106 Mellin Levee; and two Early Implementation Program (EIP) projects, Lower Feather River Setback Levee at Star Bend, and the Natomas Cross Canal South Levee. These updates are discussed below.

Figures 3-1, 3-2, 3-3, 3-5, 3-6, 3-7, 3-8, 3-9, 3-10, and 3-11 were updated from the 2010 Descriptive Document. These updated maps are based on data and analysis collected as of June 30, 2016, and future updates could include more SPFC facility data. Features new in this Update are highlighted in green on the figures. In some cases, names were updated to be consistent with references in O&M manuals. Table 1-3 provides a summary of figure updates and new figures.

**State Plan of Flood Control
Descriptive Document Update**

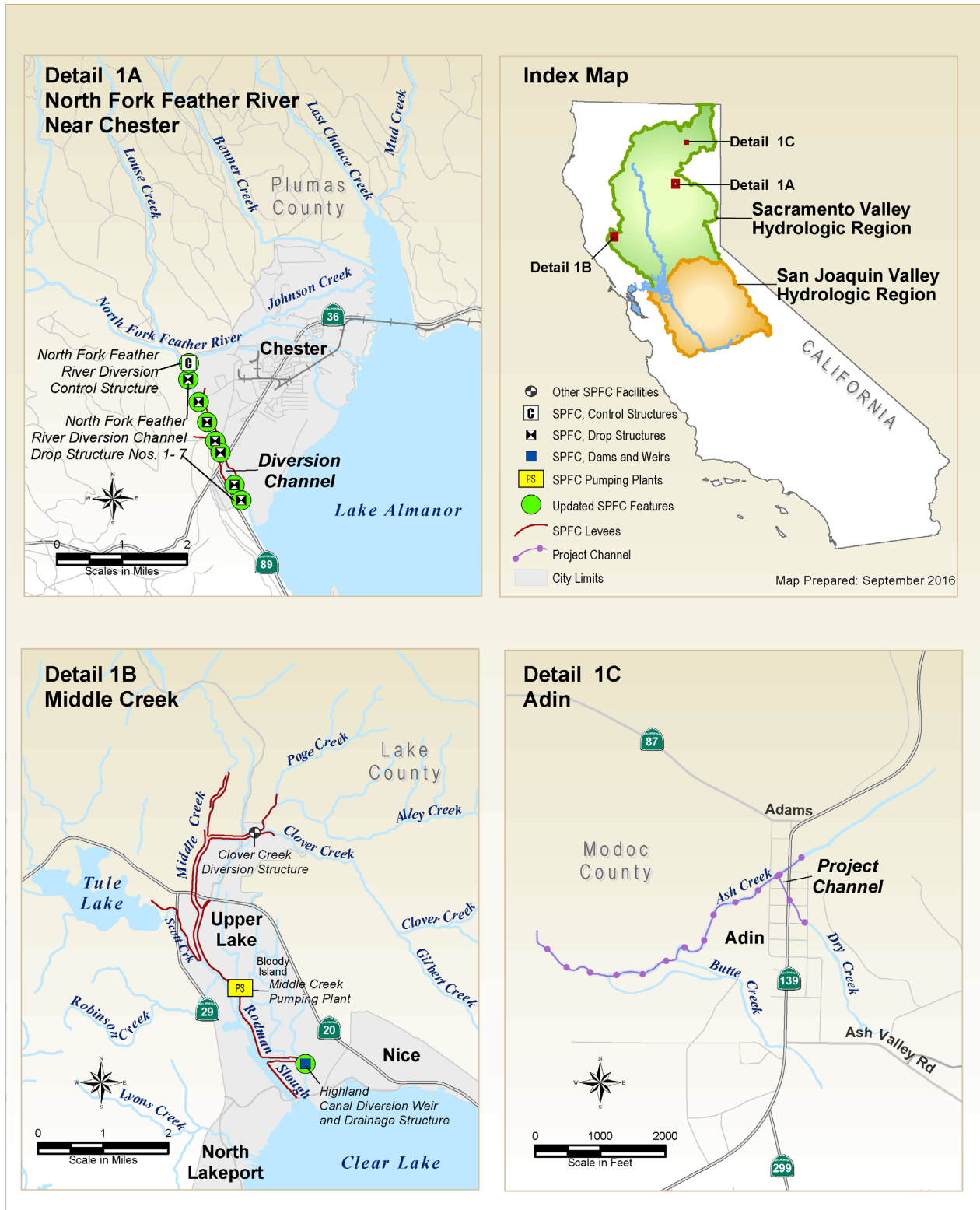


Figure 3-1. State Plan of Flood Control Facilities Within the Sacramento River Basin near Chester, Middle Creek, and Adin (Updated)

3.0 State Plan of Flood Control Facilities Update

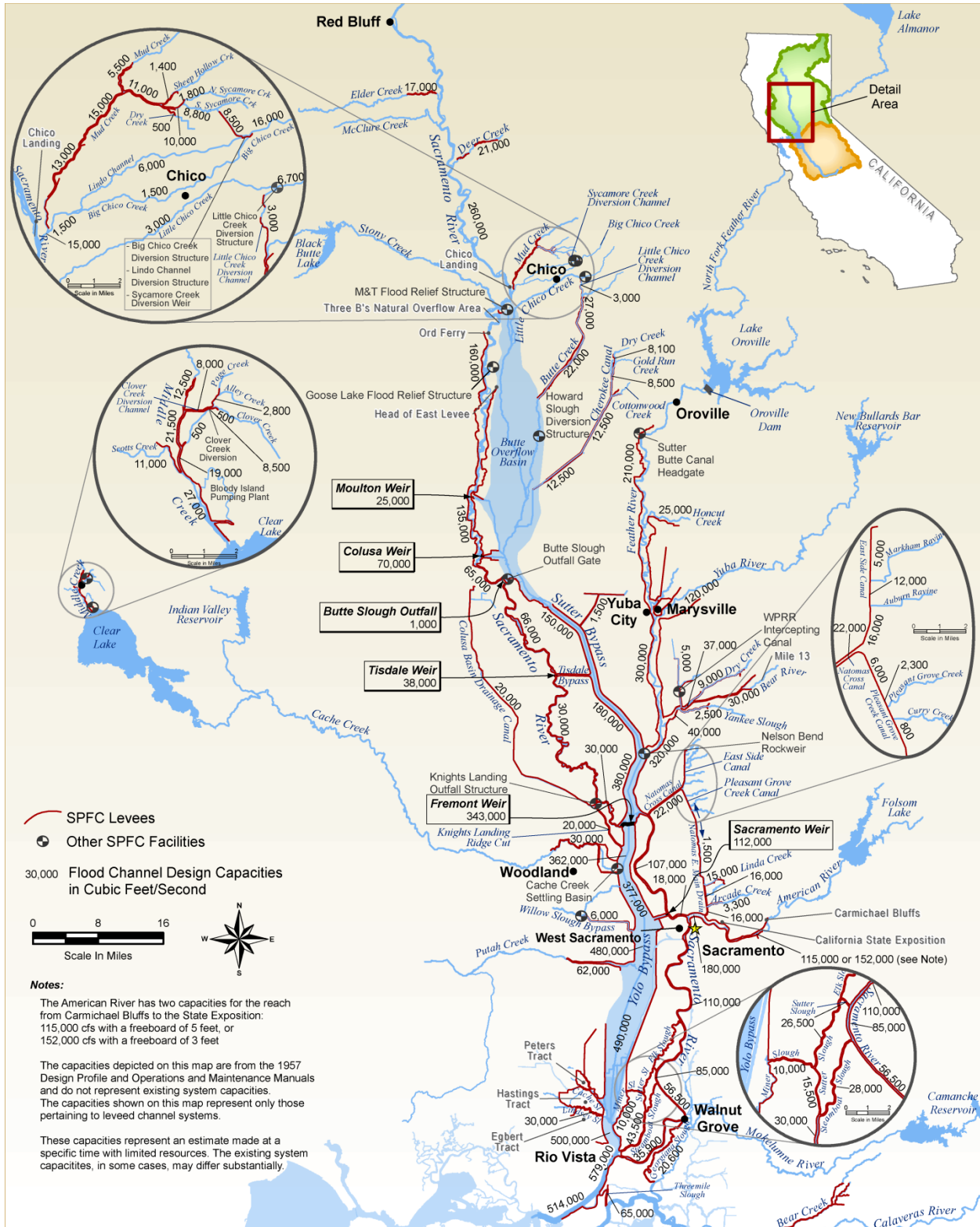


Figure 3-2. Design Flood Flow Capacities Within the Sacramento River, Bypasses, and Major Tributaries and Distributaries in the Sacramento River Basin (Updated)

**State Plan of Flood Control
Descriptive Document Update**

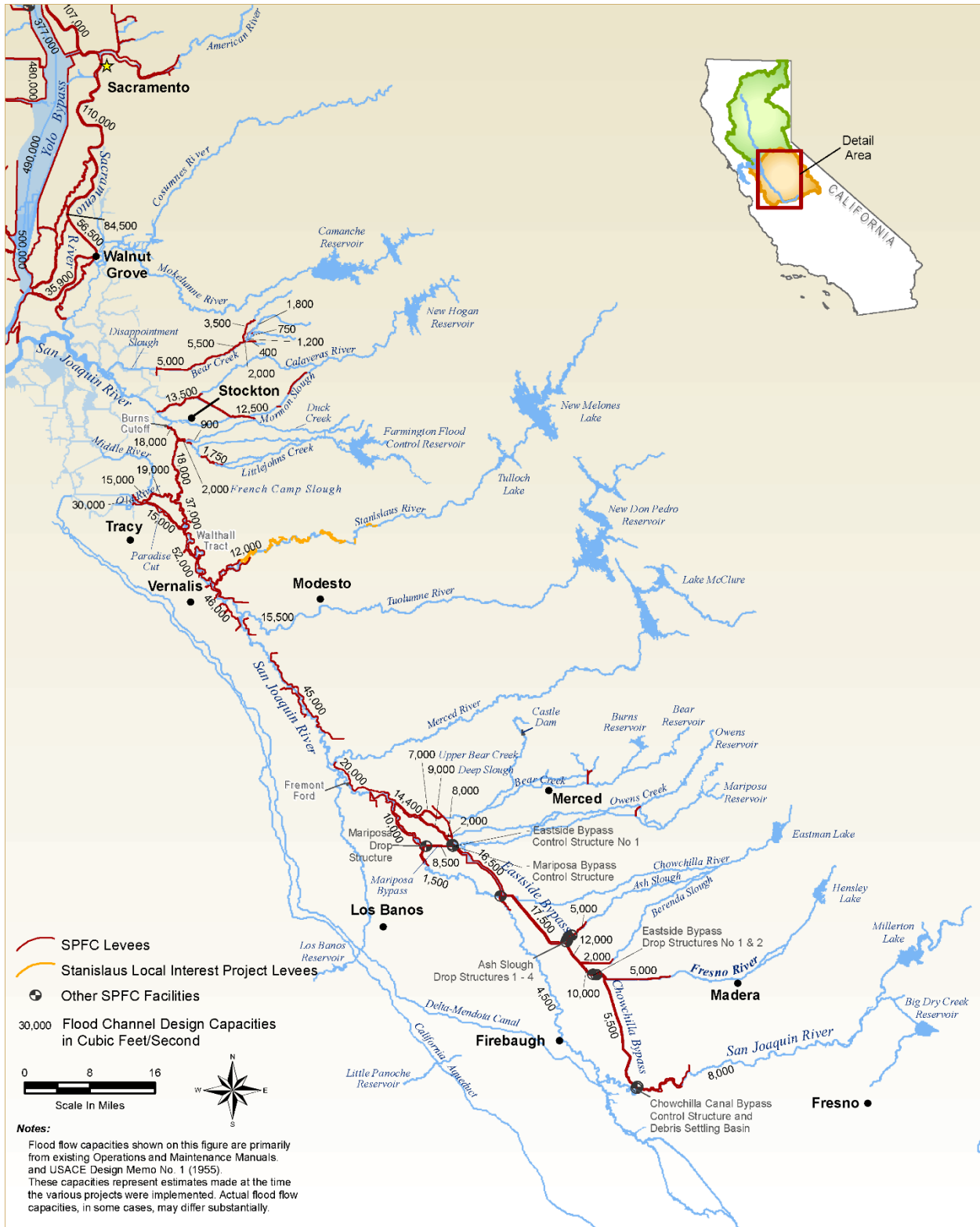


Figure 3-3. Design Flood Flow Capacities Within the San Joaquin River, Bypasses, and Major Tributaries and Distributaries in the San Joaquin River Basin

3.0 State Plan of Flood Control Facilities Update

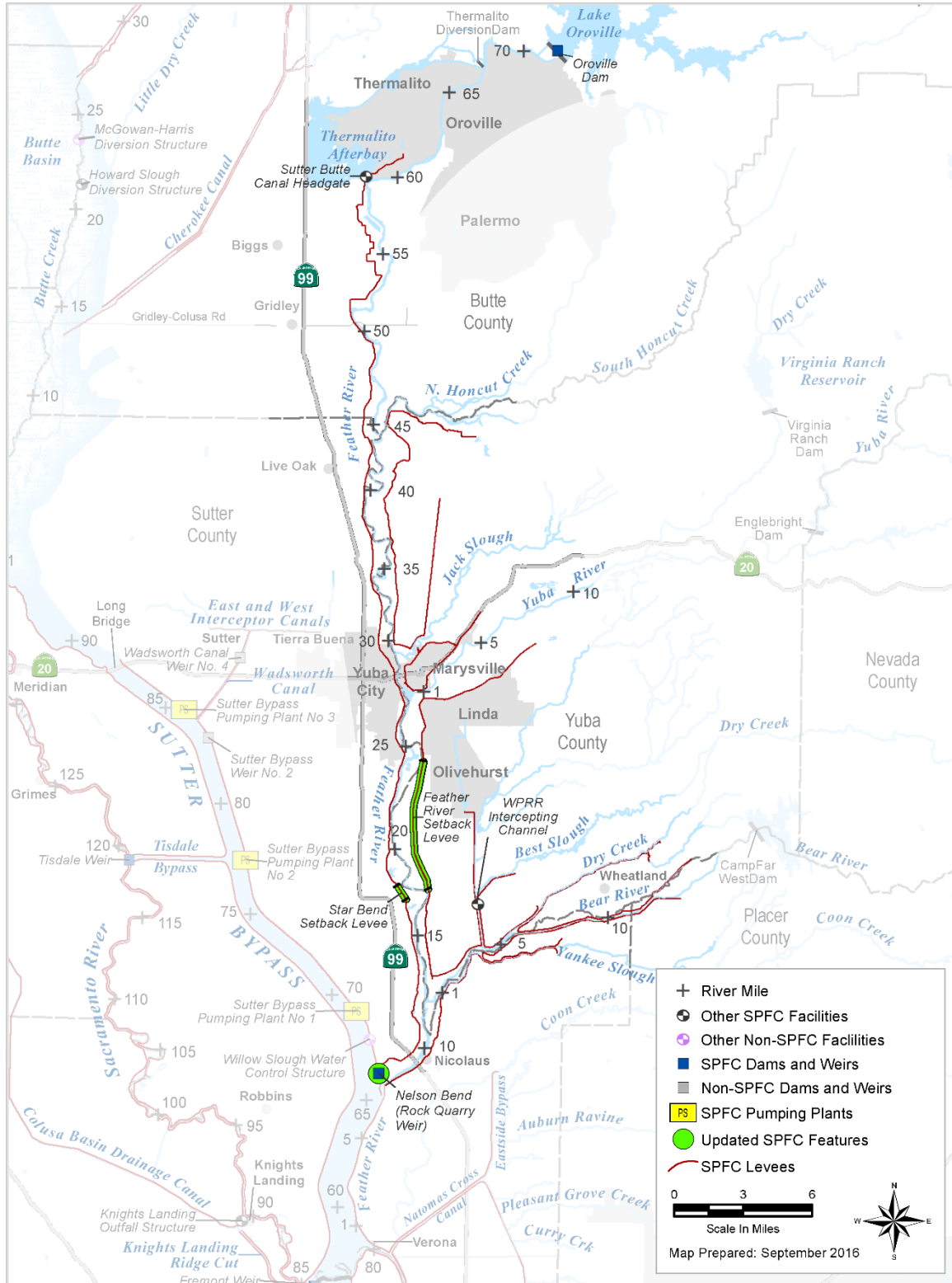


Figure 3-5. Feather River Watershed – State Plan of Flood Control Facilities Along the Feather, Yuba, and Bear Rivers and Tributaries (Updated)

**State Plan of Flood Control
Descriptive Document Update**

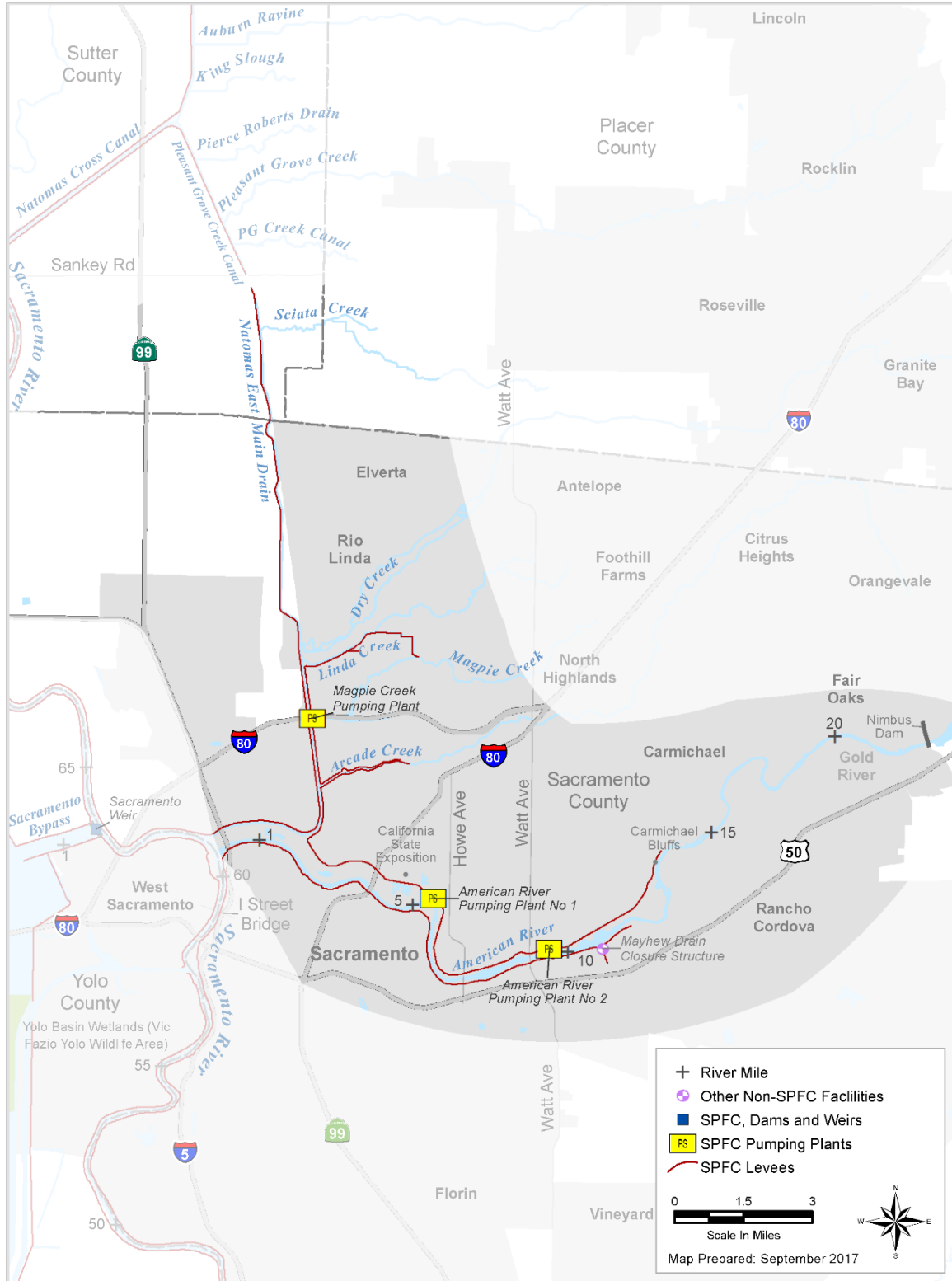


Figure 3-6. American River Watershed – State Plan of Flood Control Facilities Along the American River, Natomas East Main Drainage Canal, and Tributaries (Updated)

3.0 State Plan of Flood Control Facilities Update

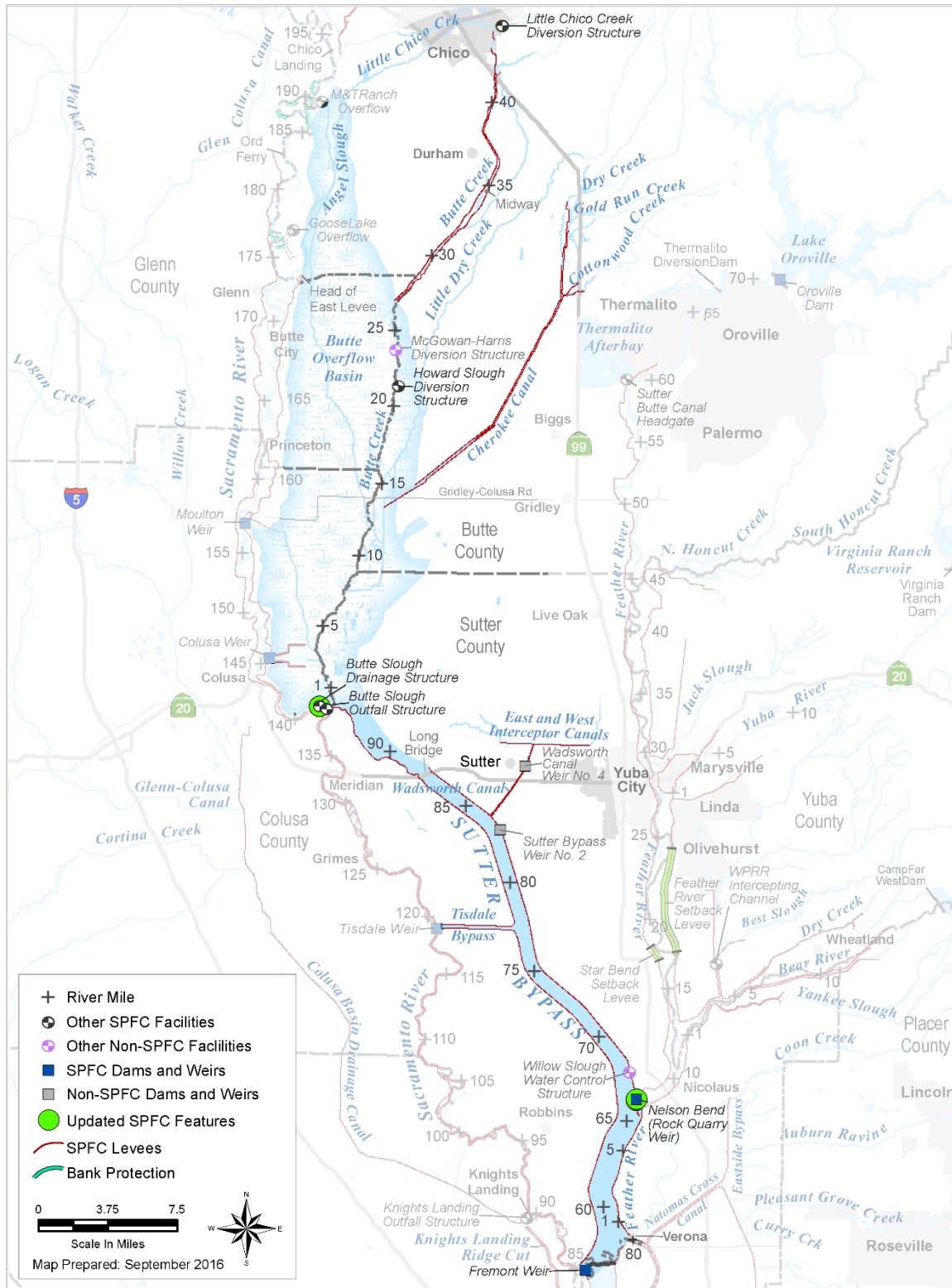


Figure 3-7. Sutter Bypass Watershed – State Plan of Flood Control Facilities Along Butte Creek, Cherokee Canal, Sutter Bypass, and Tributaries (Updated)

**State Plan of Flood Control
Descriptive Document Update**

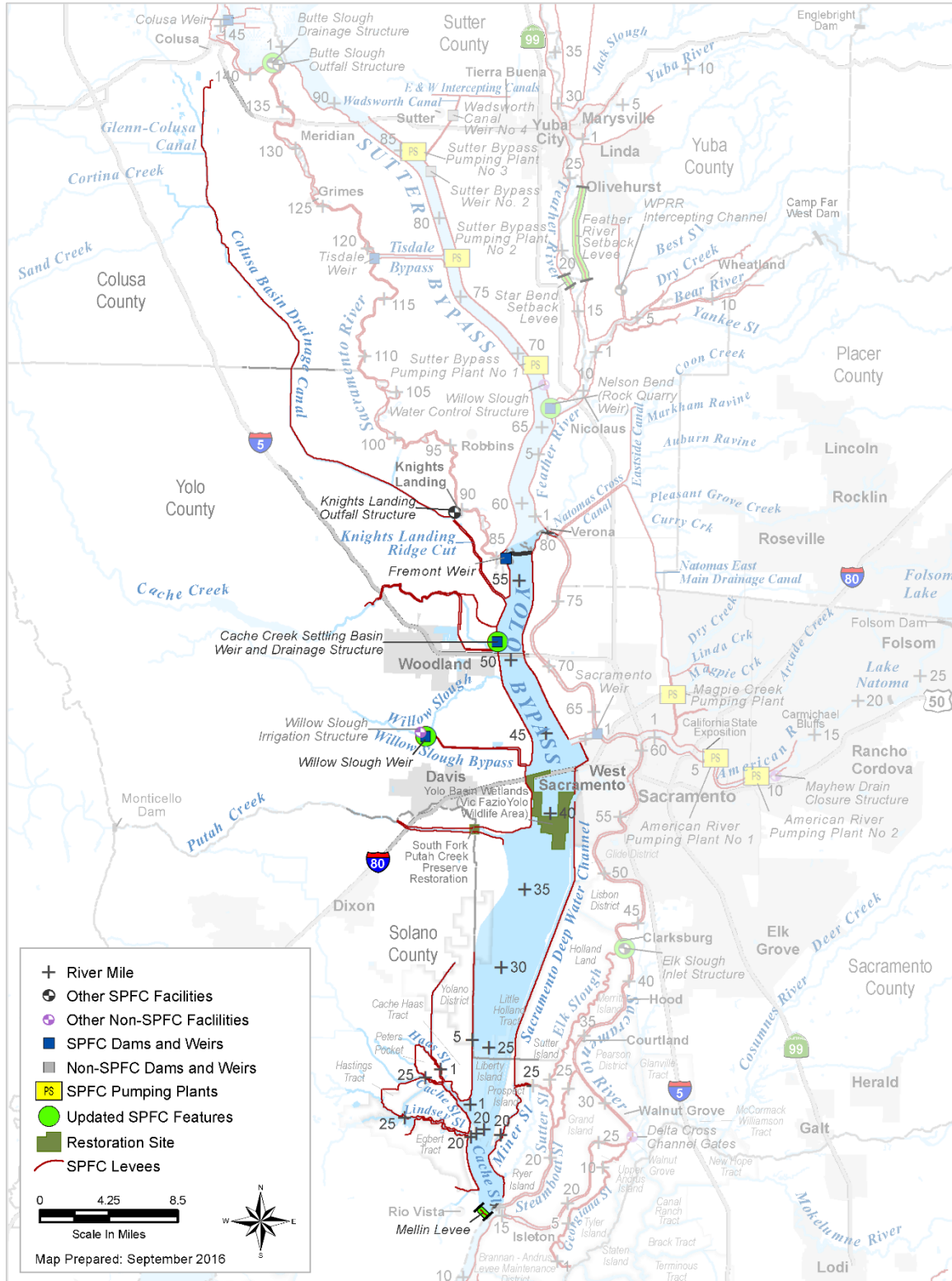


Figure 3-8. Yolo Bypass Watershed – State Plan of Flood Control Facilities Along the Yolo Bypass, Cache Creek, and other Tributaries (Updated)

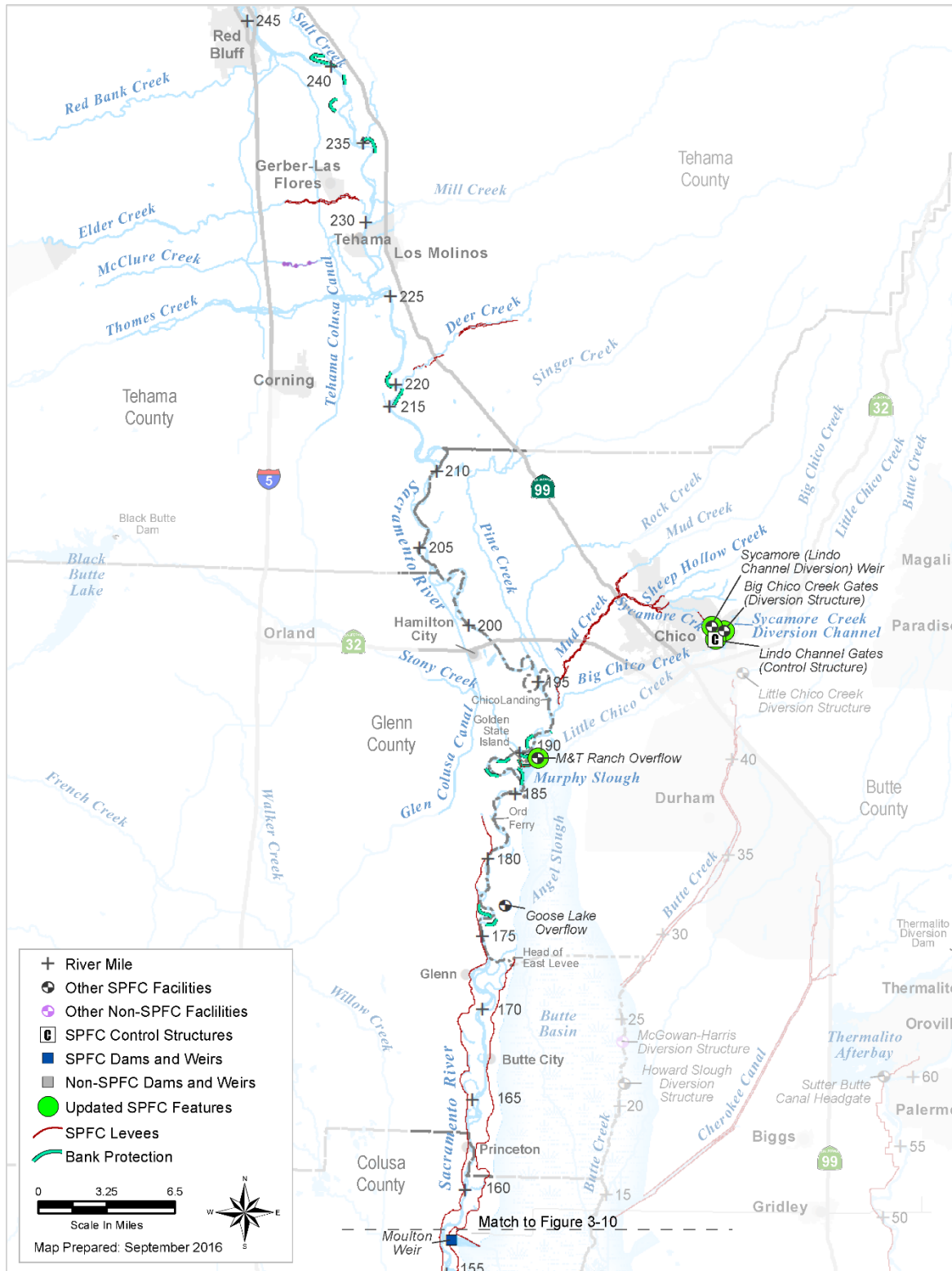


Figure 3-9. Main Stem Sacramento River Watershed – State Plan of Flood Control Facilities Along the Sacramento River and Certain Tributaries from Red Bluff to Moulton Weir (Updated)

**State Plan of Flood Control
Descriptive Document Update**

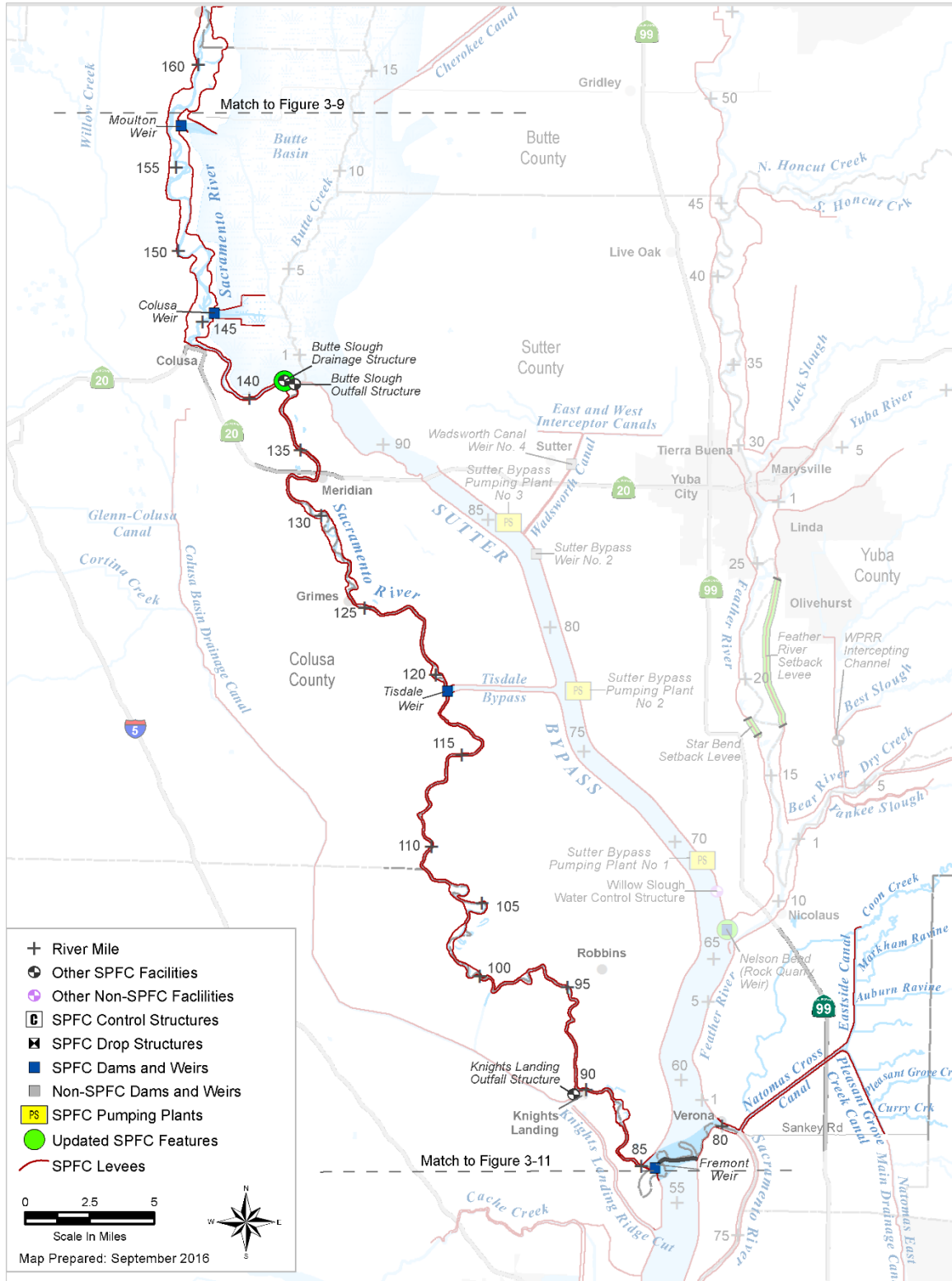


Figure 3-10. Main Stem Sacramento River Watershed – State Plan of Flood Control Facilities Along the Sacramento River and Certain Tributaries from Moulton Weir to Fremont Weir (Updated)

3.0 State Plan of Flood Control Facilities Update

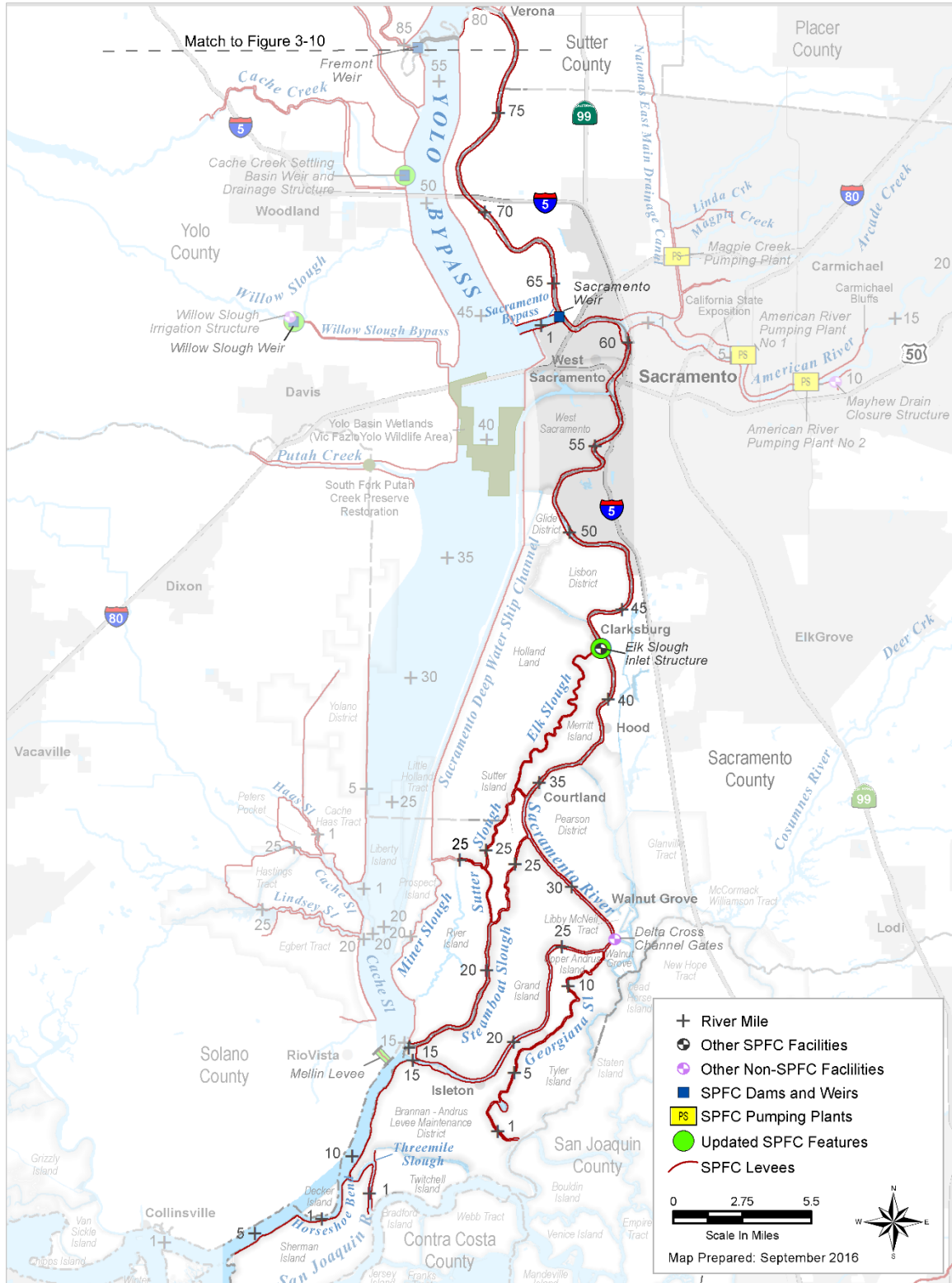


Figure 3-11. Main Stem Sacramento River Watershed – State Plan of Flood Control Facilities Along the Sacramento River and Certain Tributaries and Distributaries from Fremont Weir to Collinsville (Updated)

**State Plan of Flood Control
Descriptive Document Update**

**3.1.1 Addition of the Sacramento River Flood Control Project Unit 106
Mellin Levee**

The Mellin Levee is located in Solano County near the City of Rio Vista and is a feature of SRFCP Unit 106. According to the SAC106 O&M Manual, dated May 1953, Unit 106 of SRFCP originally consisted of the South Levee of Lindsey Slough and the West Levee of Yolo Bypass from Lindsey Slough to Watson Hollow Drain and the North Levee of Watson Hollow Drain (see Figure 3-17 for project location [USACE, 1971]). The purpose of the Unit 106 levees was to protect adjacent agricultural lands against flooding from Lindsey Slough and the Yolo Bypass and also against tidal action during various high-flood stages.

CVFPB (“The Reclamation Board” prior to 2008) formally provided the assurance of cooperation to USACE for the Unit 106 levees by letters dated April 2, 1952 (CVFPB, 1952), and March 9, 1953 (CVFPB, 1953).

The Mellin Levee was subsequently constructed in 1971 by USACE at the request of CVFPB and incorporated into the Unit 106 features of the SRFCP as an extension of the West Levee Yolo Bypass of the SRFCP Unit 106 (see California Data Exchange Center [CDEC] O&M manual database for the supplement to the SAC106 O&M Manual, dated December 1971 [USACE, 1971]). CVFPB acquired ownership of the Mellin Levee in 1971.

Documentation found since 2010 for the Mellin Levee can be found in Appendix B.

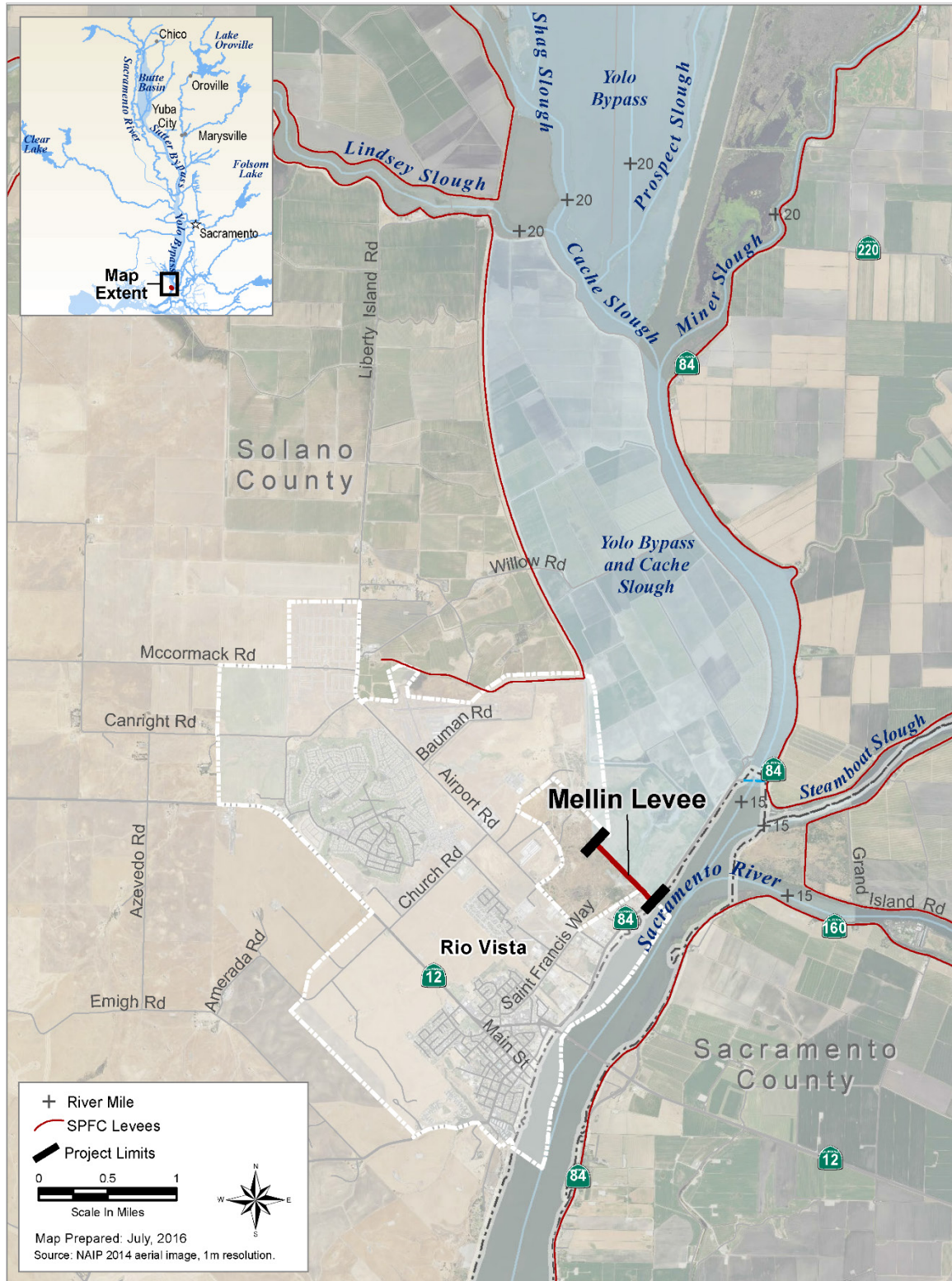


Figure 3-17. Mellin Levee Location

**State Plan of Flood Control
Descriptive Document Update**

3.1.2 Addition of Lower Feather River Setback Levee at Star Bend Project

The Lower Feather River Setback Levee at Star Bend is located in Levee District (LD) 1, within Sutter County, and is a feature of the SRFCP, Unit 144. This EIP project included construction of a 3,400-foot-long setback levee to provide 200-year flood protection to the surrounding urban areas and conversion of 45 acres of land on the river side of the setback levee to riparian habitat. The project location is shown on Figure 3-18. The project was approved under Title 33 of the United States Code (U.S.C.) Section 408 by USACE, at the request of CVFPB. The project was constructed by Levee District (LD) 1.

USACE transferred O&M responsibilities to CVFPB through a turnover letter dated July 18, 2013. CVFPB formally adopted this project by Resolution No. 2013-21 on December 20, 2013 (CVFPB, 2013). The resolution does the following:

- Accepts, from USACE, responsibilities to operate and maintain the Feather River Setback Levee at Star Bend
- Receives, from USACE, the revised Supplement to Standard Operations and Maintenance Manual, Sacramento River Flood Control Project, Unit No. 144, West Levee of Feather River from North Boundary of Levee District 1 to North Boundary of Maintenance Area 3 (previously Reclamation District No. 823), USACE, Sacramento District, June 2013
- Receives, from USACE, final project as-built drawings, originally prepared by LD 1
- Transfers responsibilities to operate and maintain the Star Bend Setback Levee to LD 1, Sutter, along with the above documentation

Documentation for this project can be found on the 2017 CVFPP Update webpage at <http://www.water.ca.gov/cvfmp/2017-cvfpp-docs.cfm>.

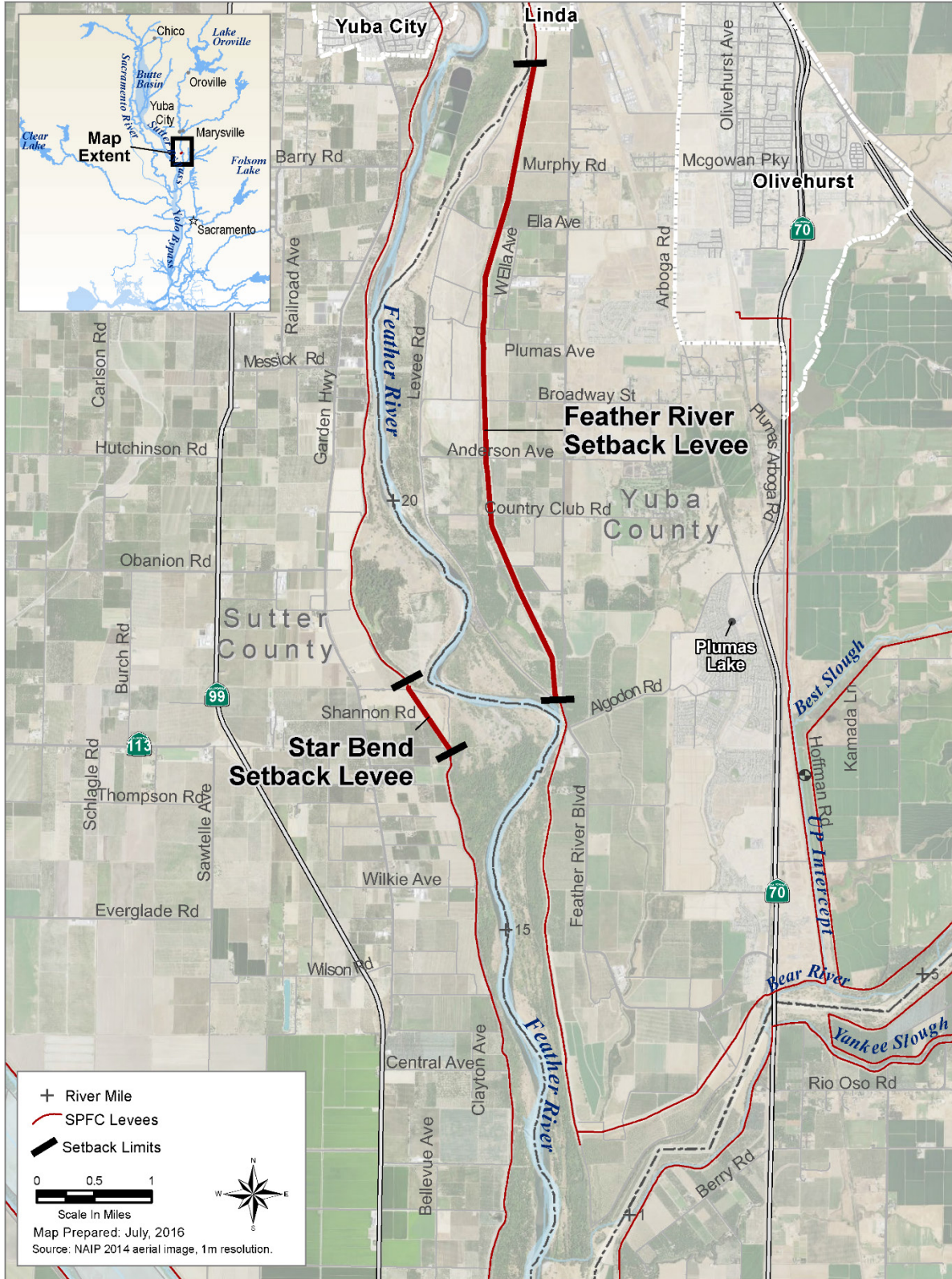


Figure 3-18. Star Bend Setback Levee Location

3.1.3 Addition of the Natomas Cross Canal South Levee Improvements Project

The Natomas Cross Canal South Levee is located in Reclamation District (RD) 1000, within Sutter County (see Figure 3-19), and is a feature of SRFCP Unit 125. This was an EIP project and included improving the level of flood protection to the Natomas Basin perimeter levee system located north of Sacramento through construction of cut-off walls and levee strengthening and reshaping features. The project was approved under Title 33 of the U.S.C. Section 408 by USACE, at the request of CVFPB. The project was constructed by the Sacramento Area Flood Control Agency (SAFCA).

The turnover letter from USACE to CVFPB for transfer of O&M responsibilities is dated April 18, 2014. The CVFPB adopted the project by Resolution No. 2014-22 on June 27, 2014, which does the following (CVFPB, 2014):

- Acknowledges acceptance, from USACE, responsibilities to operate and maintain the Natomas Cross Canal South Levee via USACE Sacramento District letter to the Board dated April 18, 2014
- Acknowledges receipt, from USACE, the revised *Supplement to Standard Operations and Maintenance Manual, Sacramento River Flood Control Project, Unit No. 125, Back Levee of Reclamation District No. 1000*, U. S. Army Corps of Engineers, Sacramento, California, April 2014 (Revised O&M Manual)
- Acknowledges receipt, from USACE, final project as-built drawings, originally prepared by SAFCA
- Transfers responsibilities to operate and maintain the Natomas Cross Canal South Levee to RD 1000, along with the Revised O&M Manual and as-built drawings via June 27, 2014, letter

Documentation for this project can be found on the 2017 CVFPP Update webpage at <http://www.water.ca.gov/cvfmp/2017-cvfpp-docs.cfm>.

3.2 State Plan of Flood Control Facilities in the San Joaquin River Basin

There are no updates to the description of SPFC Facilities in the San Joaquin River Basin as discussed in the 2010 Descriptive Document. Figures 3-13, 3-14, 3-15, and 3-16 were updated from the 2010 Descriptive Document. These updated maps are based on data and analysis collected as of June 30, 2016, and future updates could include more SPFC facility data. Table 1-3 contains a summary of figure updates and new figures.

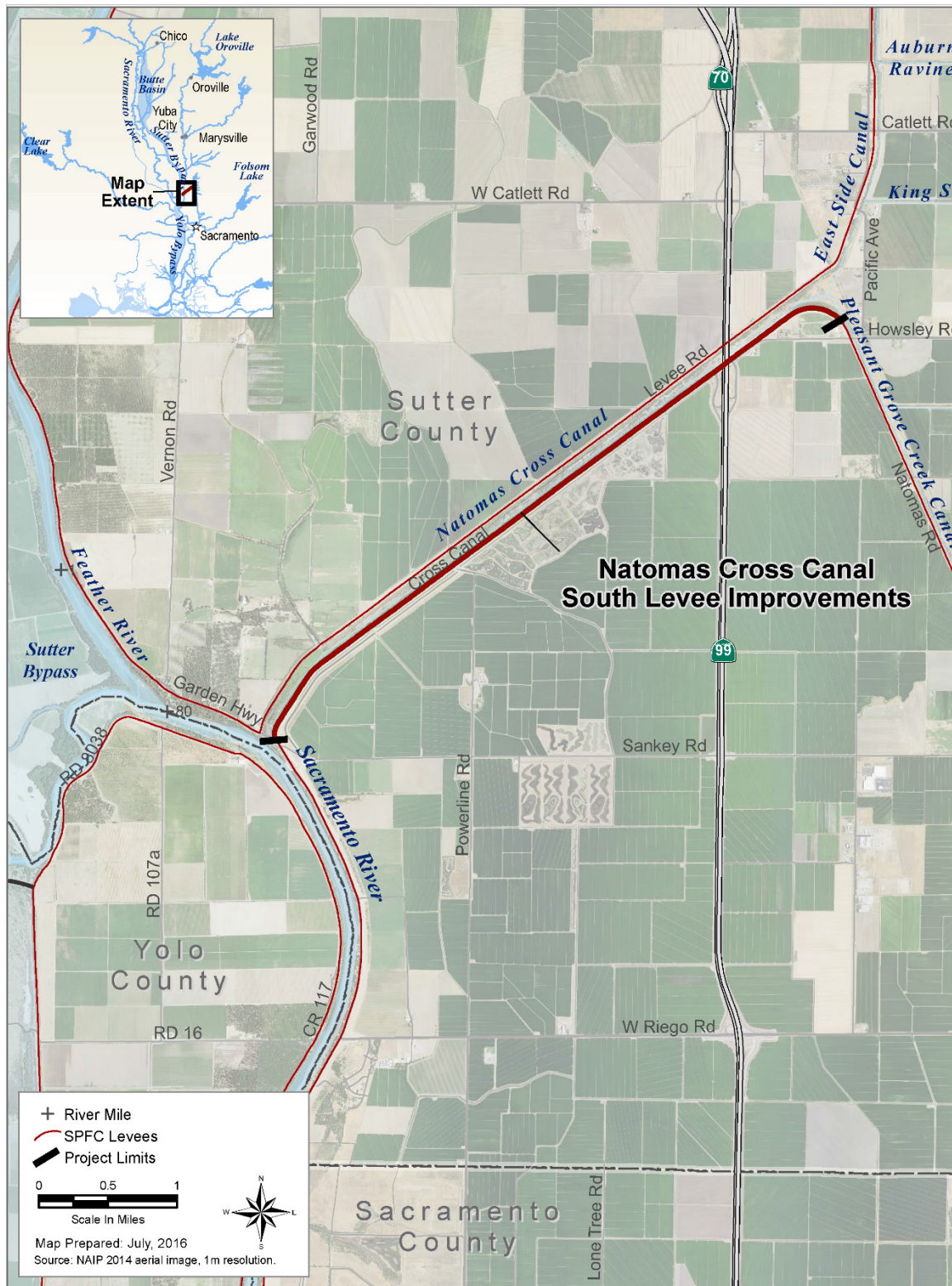


Figure 3-19. Natomas Cross Canal South Levee Location

**State Plan of Flood Control
Descriptive Document Update**

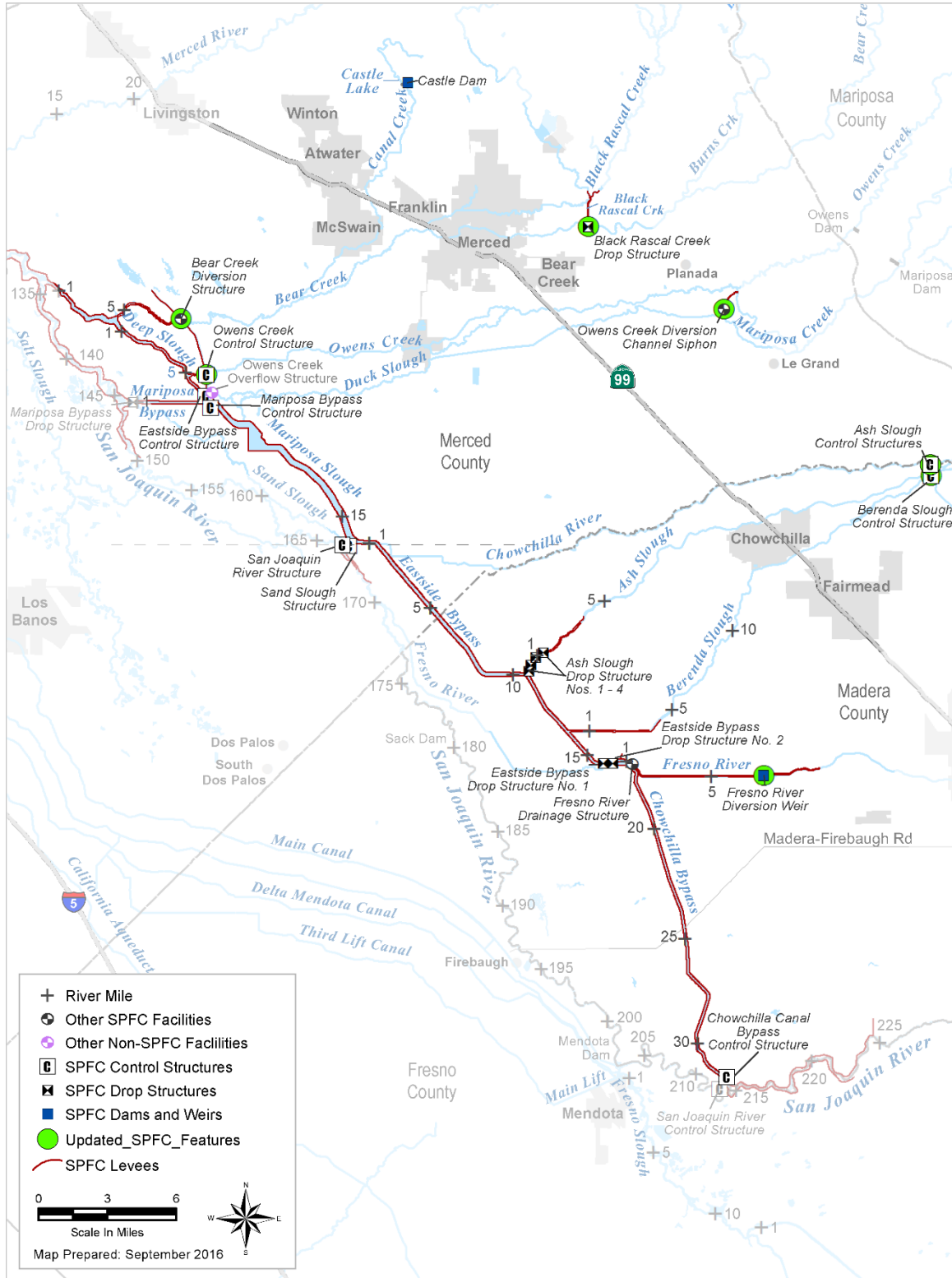


Figure 3-13. Chowchilla and Eastside Bypasses – State Plan of Flood Control Facilities Along the Chowchilla and Eastside Bypasses and Tributaries (Updated)

3.0 State Plan of Flood Control Facilities Update

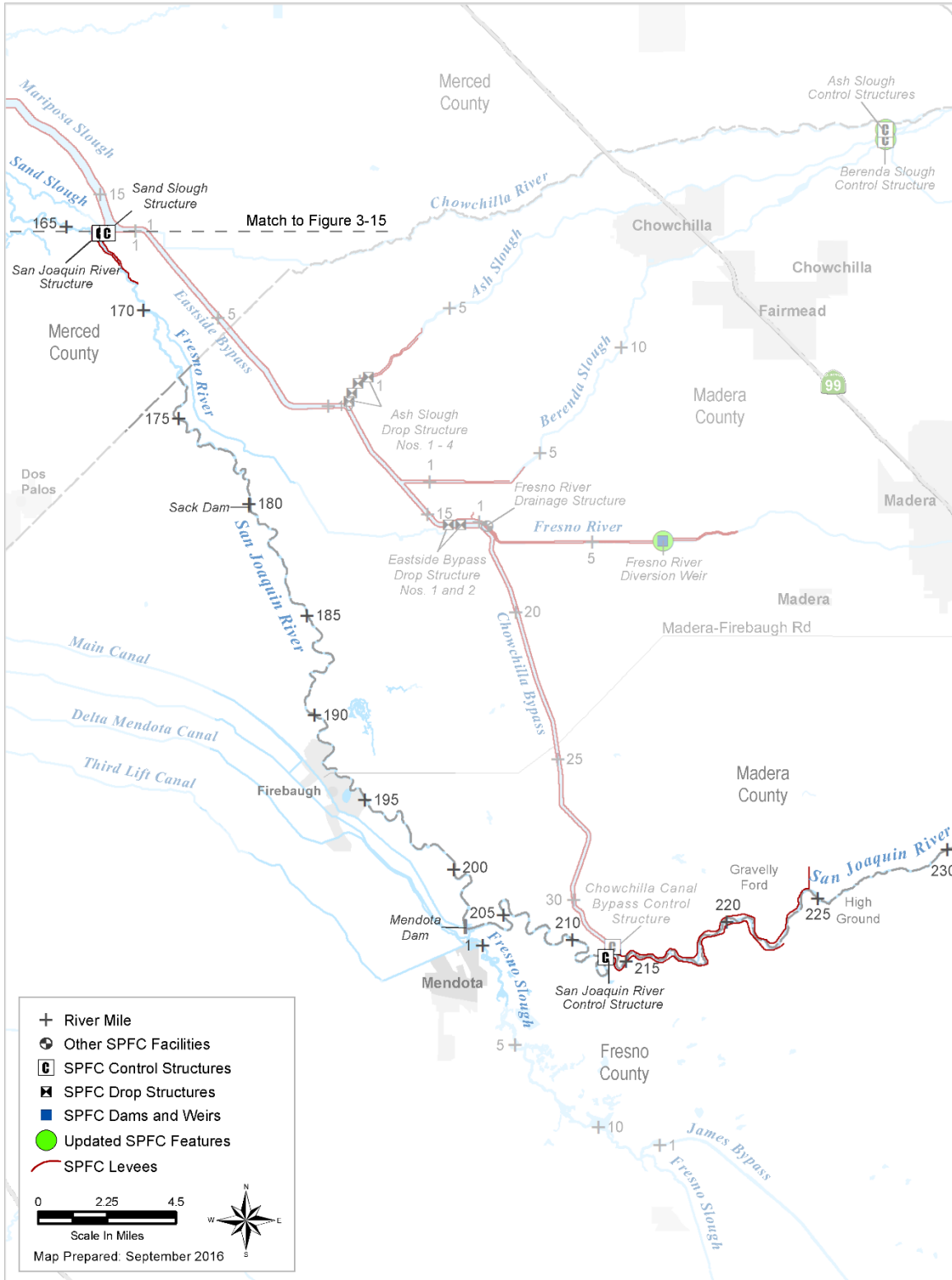


Figure 3-14. San Joaquin River Watershed – State Plan of Flood Control Facilities Along the San Joaquin River from Gravelly Ford to the Sand Slough Control Structure (Updated)

**State Plan of Flood Control
Descriptive Document Update**

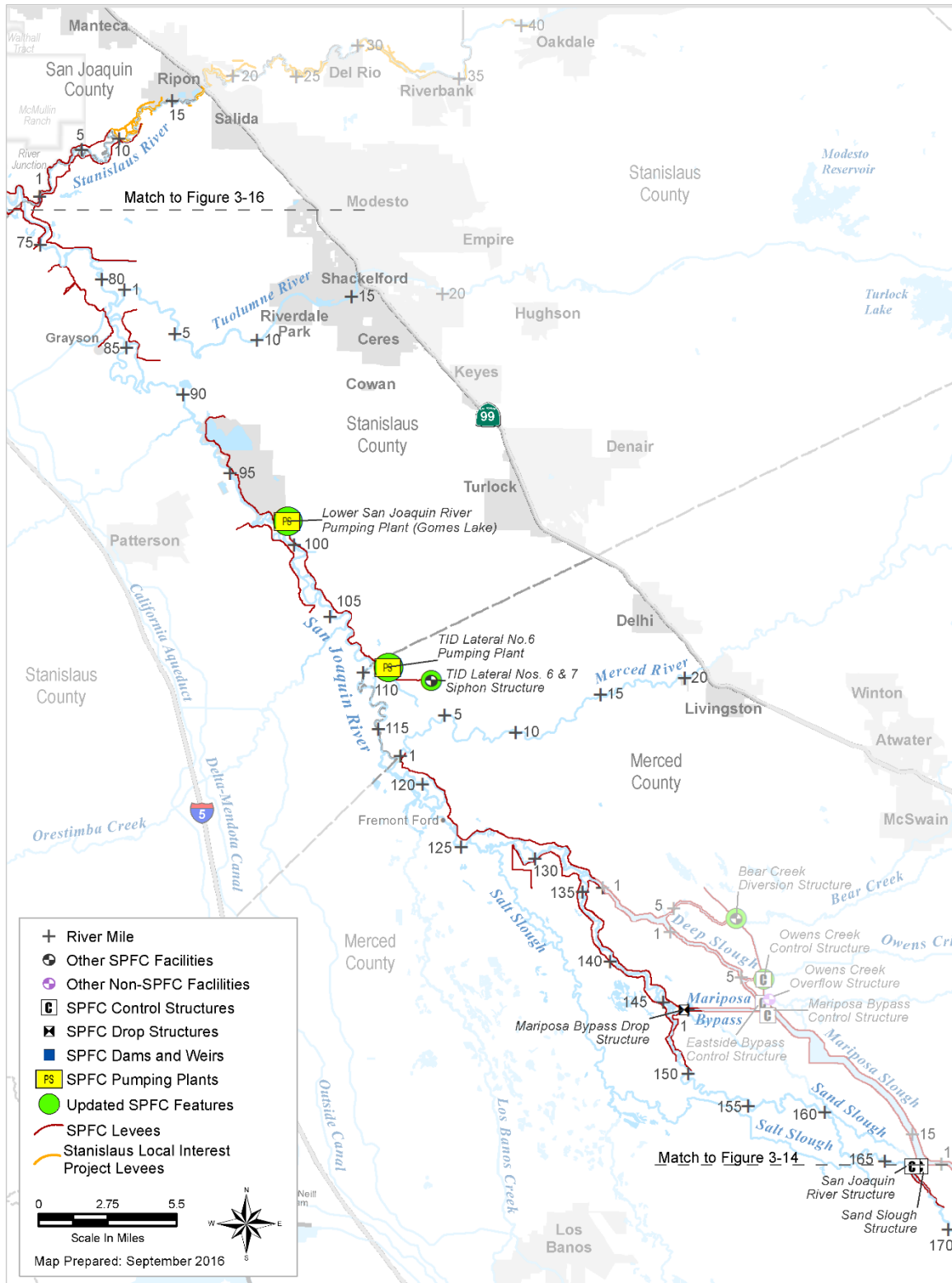


Figure 3-15. San Joaquin River Watershed – State Plan of Flood Control Facilities Along the San Joaquin River from the Sand Slough Control Structure to Stanislaus River (Updated)

3.0 State Plan of Flood Control Facilities Update

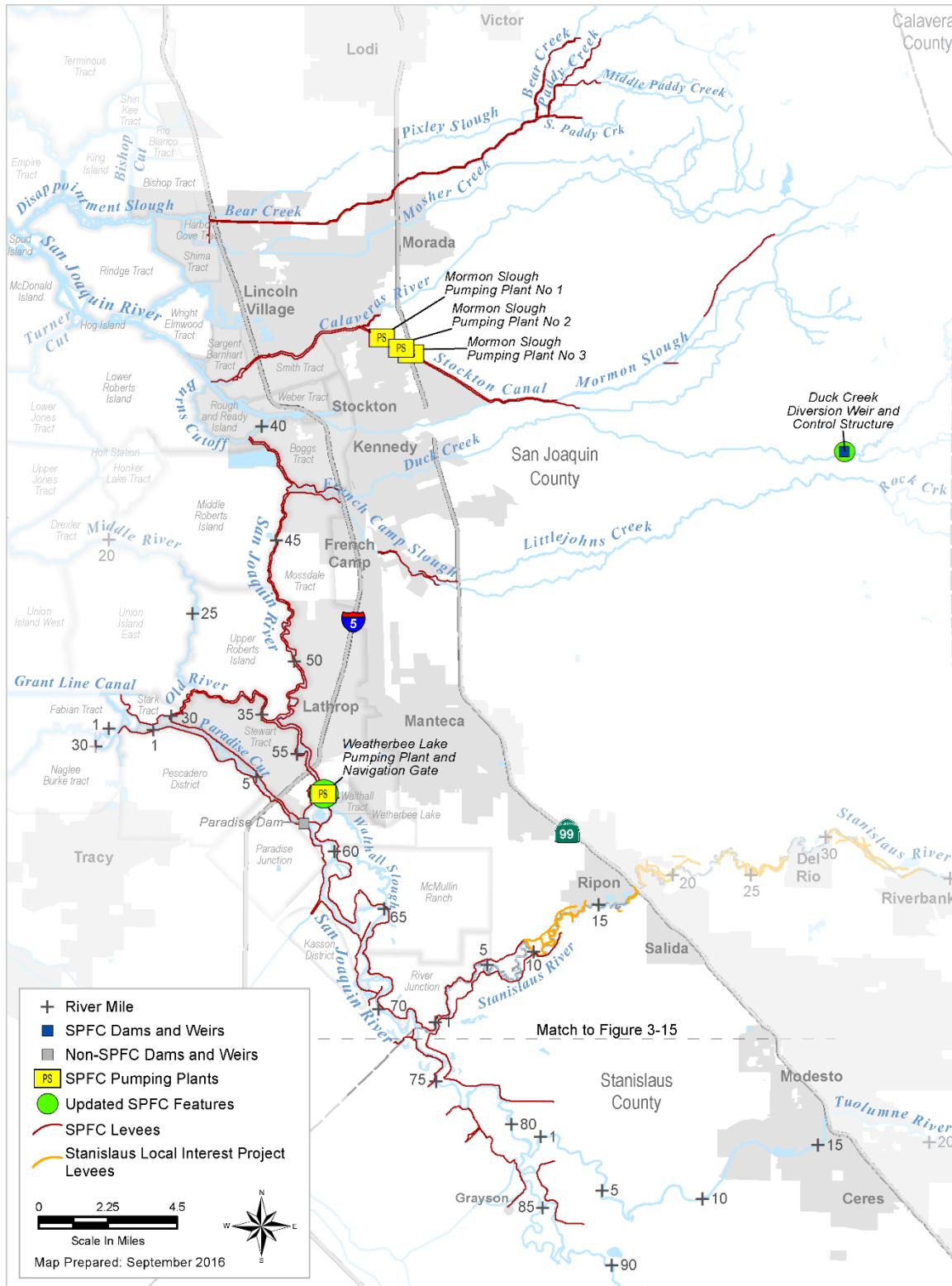


Figure 3-16. San Joaquin River Watershed – State Plan of Flood Control Facilities Along the San Joaquin River and Major Tributaries and Distributaries from Stanislaus River to Disappointment Slough (Updated)

3.3 Other State Plan of Flood Control Facilities

3.3.1 Structures

This Update adds information to the discussion of SPFC structures in the 2010 Descriptive Document by providing more details on structures. These structures include pumping plants, weirs, drop structures, and control gates. Tables 3-3 and 3-4 provide SPFC structure names, local maintaining agencies (LMAs) for each structure, and O&M manual for each structure.

Tables 3-3 and 3-4 provide a more comprehensive list of SPFC structures than the structures mentioned in the text of the 2010 Descriptive Document. Structures listed in these tables, but not mentioned in the 2010 Descriptive Document are not new additions to the SPFC. Information in these tables is based on data and analysis collected as of June 30, 2016, and future updates could include more SPFC facility data.

Table 3-3. State Plan of Flood Control Structures in the Sacramento River Basin

Structure Name	Maintaining Agency	O&M Manual
American River Pumping Plants No. 1 & 2	Sacramento County	SAC518
Big Chico Creek Gates (Diversion Control Structure)	Butte County Public Works	SAC504
Butte Slough Drainage Structure	DWR Sutter Maintenance Yard	SAC161
Butte Slough Outfall Structure	DWR Sutter Maintenance Yard	SAC161
Cache Creek Settling Basin Weir and Drainage Structure	DWR Sacramento Maintenance Yard	SAC126
Clover Creek Diversion Structure	Lake County Watershed Protection District	SAC506.2
Colusa Weir	DWR Sutter Maintenance Yard	SAC155
Elk Slough Inlet Structure	Reclamation District 999	SAC113
Fremont Weir	DWR Sacramento Maintenance Yard	SAC157
Highland Canal Diversion Weir and Drainage Structure	Lake County Watershed Protection District	SAC506.3
Howard Slough Diversion Structure	DWR Sutter Maintenance Yard	SAC 153
Knights Landing Outfall Structure	DWR Sacramento Maintenance Yard	SAC162
Lindo Channel Gates (Control Structure)	Butte County Public Works	SAC504
Little Chico Creek Diversion Structure	DWR Sutter Maintenance Yard	SAC516
Magpie Creek Pumping Plant	City of Sacramento	SAC118.2
Middle Creek Pumping Plant	Lake County Watershed Protection District	SAC506.1
Moulton Weir	DWR Sutter Maintenance Yard	SAC154
Nelson Bend (Rock Quarry Weir)	DWR Sutter Maintenance Yard	SAC501
North Fork Feather River Diversion Channel Drop Structures No. 1, 2, 3, 4, 5, 6, & 7	Plumas County	SAC508
North Fork Feather River Diversion Structure	Plumas County	SAC508
Oroville Dam	DWR Division of Operations and Maintenance	N/A
Sacramento Weir	DWR Sacramento Maintenance Yard	SAC158
Sutter-Butte Canal Headgate	DWR Sutter Maintenance Yard	SAC 160
Sutter Bypass Pumping Plants No. 1, 2, & 3	DWR Sutter Maintenance Yard	SAC159
Sycamore (Lindo Channel Diversion) Weir	Butte County Public Works	SAC504

Table 3-3. State Plan of Flood Control Structures in the Sacramento River Basin

Structure Name	Maintaining Agency	O&M Manual
Tisdale Weir	DWR Sutter Maintenance Yard	SAC156
Willow Slough Weir	DWR Sacramento Maintenance Yard	SAC120

Note:

DWR = California Department of Water Resources

O&M = operations and maintenance

Table 3-4. State Plan of Flood Control Structures in the San Joaquin River Basin

Structure Name	Maintaining Agency	O&M Manual
Ash Slough Control Structures	Madera County Flood Control and Water Conservation Agency	SJR605
Ash Slough Drop Structures No. 1, 2, 3, & 4	Lower San Joaquin Levee District	SJR601.1
Berenda Slough Control Structure	Madera County Flood Control and Water Conservation Agency	SJR605
Black Rascal Creek Drop Structure	Merced County Stream Group	SJR607
Castle Dam	Merced Irrigation District	SJR607A
Chowchilla Canal Bypass Control Structure	Lower San Joaquin Levee District	SJR601.3
Duck Creek Diversion Weir and Control Structure	San Joaquin County Flood Control District	SJR613B
Eastside Bypass Control Structure	Lower San Joaquin Levee District	SJR601.2
Eastside Bypass Drop Structures No. 1 & 2	Lower San Joaquin Levee District	SJR601.1
Fresno River Diversion Weir	Lower San Joaquin Levee District	SJR606
Fresno River Drainage Structure	Lower San Joaquin Levee District	SJR601.1
Lower San Joaquin River (Gomes Lake) Pumping Plant	Reclamation District Number 2091	SJR006A
Mariposa Bypass Control Structure	Lower San Joaquin Levee District	SJR601.2
Mariposa Bypass Drop Structure	Lower San Joaquin Levee District	SJR601.1
Mormon Slough Pumping Plants No. 1, 2, & 3	San Joaquin County Flood Control District	SJR611.2
Owens Creek Control Structure	Lower San Joaquin Levee District	SJR601.1
Owens Creek Diversion Channel Siphon	Merced County Stream Group	SJR607
San Joaquin River Control Structure	Lower San Joaquin Levee District	SJR601.3
San Joaquin River Structure	Lower San Joaquin Levee District	SJR601.1
Sand Slough Structure	Lower San Joaquin Levee District	SJR601.1
Turlock Irrigation District Lateral No. 6 & 7 Siphon Structure	Turlock Irrigation District	SJR006
Turlock Irrigation District Lateral No. 6 Pumping Plant	Reclamation District Number 2063 - Crows Landing	SJR006
Wetherbee Lake Pumping Plant & Navigation Gate	Reclamation District Number 2096 - Wetherbee Lake	SJR003A

3.3.2 Levees, Channels, and Levee Penetrations

The 2017 FSSR contains additional details regarding the physical status of SPFC levees, channels, and levee penetrations.

4.0 State Plan of Flood Control Lands Update

This section presents additional information about Sacramento San Joaquin Drainage District (SSJDD) land holdings, types of property rights, agreements for use of easements and properties, lands of designated floodways, and ongoing evaluations

The State is currently establishing a geographic information system (GIS) database that summarizes all current real property interests of SSJDD, acting by and through CVFPB.

4.1 Fee Title Lands Update

Fee title lands, or fee simple lands, are those with fully vested ownership. Some real property rights for the SPFC are held in fee title, but the current method of record keeping does not allow easy summarization of these holdings. Some levees are on lands owned by the State. The State also owns the land within the Chowchilla Bypass, and the Eastside Bypass upstream from Sand Slough.

In some areas, real property rights were purchased by the State in fee and then disposed of while the State retained easement rights.

The State is currently establishing a GIS database that summarizes all current real property interests of SSJDD.

Some SPFC project features were constructed on State-owned lands. These features include, but are not limited to, levees, channels, structures, and environmental mitigation areas. The mitigation areas were established either onsite, at the location of the flood protective facilities, or offsite, away from the location of the flood protective works or project feature. Regardless of their locations, all mitigation sites were established to remain in place in perpetuity. The State also acquired real property rights in fee for excavating material for construction (borrow) and disposing of excess material (spoil).

4.2 Encroachment Permits Update

CVFPB is responsible for controlling encroachments on SPFC lands and rights-of-way. Title 33 Code of Federal Regulations (CFR), Section 208.10 (33 CFR 208.10) requires that “no encroachment or trespass which will adversely affect the efficient operation or maintenance of the project works shall be permitted upon the rights-of-way for the protective facilities.” CVFPB, following USACE’s determination of the proposed encroachments potential effects on the functioning of the protective facilities, may issue encroachment permits. All CVFPB-issued encroachment permits are revocable and include standard and encroachment-specific special conditions. CVFPB is also responsible for enforcing permit conditions.

4.3 Easements Update

Easements are limited-use rights to real property owned by others. SSJDD often acquired real property rights in areas where it was determined that acquiring easements was more appropriate than purchasing the land in fee title. The majority of SSJDD's real property rights are easements. In these locations, most notably the Butte Basin (Colusa and Glenn counties only), the Sutter, Sacramento, Yolo, Butte, Tisdale, and Mariposa bypasses, and the Eastside Bypass downstream from Sand Slough, flowage easements were acquired that compensated property owners for conveying to SSJDD the right to flow or flood water over portions of their real property.

Common easement types used by SSJDD are include the following:

- **Levee** – Standard levee easement language has been revised numerous times in the past 100 years. With each revision, the standard version has become more specific and defined. Also, standard language may have been modified or sections deleted in some easement deeds, as requested by the grantor. Because of the revisions and customization, language in each deed must be reviewed and analyzed to determine the extent of SSJDD's real property rights for the parcel. For example, two levee easements (acquired at different times, one 60 years ago to build the levee, the other 5 years ago to enlarge and improve the levee) could be adjacent but specify different real property rights associated with the levee. The latter would have the right to preserve and retain all vegetative growth desirable for project purposes; the older document could only state that SSJDD had the right to build, construct, reconstruct, repair, and maintain, with no mention of replanting or preserving, vegetation. Current levee language, Rights 1 through 8 (revised in 1994) are as follows:
 1. *Construct, reconstruct, enlarge, fence, plant with trees, shrubs and other vegetation, preserve and retain all vegetative growth desirable for project purposes, repair and use flood control works, which shall include, but not be limited to, access, haul and patrol roads, levees, ditches, embankments, channels, berms, fences and appurtenant structures, and operate and maintain said flood control works in conformity with the Code of Federal Regulations, Corps of Engineers' Standard O&M Manual, and State of California Standards.*
 2. *Clear and remove from said flood control works any or all natural or artificial obstructions, improvements, trees and vegetation necessary for construction, operation, maintenance, repair, reconstruction and emergence flood fight.*
 3. *Flow waters and materials and by said flow erode.*
 4. *Place or deposit earth, debris, sediment or other material.*
 5. *Excavate and remove earth, debris, sediment, or other material, including that placed or deposited as above.*
 6. *Locate or relocate roads and public utility facilities by grantee or others.*

7. *Restrict the rights of the grantor, his successors and assigns, without limitations, to explore, extract, remove, drill, mine or operate through the surface or upper 100 feet of the subsurface in exercise of the grantor's interest in any minerals, including oil and gas.*
 8. *Restrict any use by others which may interfere with any of the uses listed herein or any use necessary or incidental thereto.*
- **Access** – A perpetual easement and right-of-way to construct, reconstruct, operate, maintain, and use an access and/or service road over a portion of real property.
 - **Canal/Channel** – A perpetual easement and right-of-way to construct, reconstruct, enlarge, operate, and maintain, a canal or ditch, and all works necessary and appurtenant to a flood control facility.
 - **Drainage and Flowage** – A perpetual easement and right-of-way to construct, reconstruct, enlarge, operate, and maintain drainage facilities, and to flood, seep, pond, and overflow water over a portion of real property.
 - **Flowage** – A perpetual easement and right-of-way to flood, seep, pond, and overflow water over, through, and across a portion of real property.
 - **Slope** – A perpetual easement, with the right to construct, reconstruct, extend, and maintain cut and fill slopes and drainage facilities over a portion of real property.
 - **Temporary** – Other temporary easements and rights-of-way for access, borrow, spoil, staging and/or construction may have been acquired. These rights terminated on a specific date or after construction, thus they are no longer part of the SPFC.

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5.0 State Plan of Flood Control Operations and Maintenance Update

This section presents information about updated O&M manuals, inspections, maintenance, and operations for the SPFC. O&M manuals describe actions that maintaining agencies are to follow during high-water events and for keeping project facilities in good working condition. USACE prepared two standard O&M manuals for Sacramento River and San Joaquin River facilities, respectively. These standard O&M manuals are supported by more detailed O&M manuals for each unit of the State-federal flood management system in the Sacramento River Basin and San Joaquin River Basin.

Maintenance responsibilities are found in the following California Water Code Sections.

Supervisory Powers:

8360. On behalf of the State the department has supervisory powers over the maintenance and operation of the flood control works of the Sacramento River Flood Control Project.

8370. It is the responsibility, liability and duty of the reclamation districts, levee districts, protection districts, drainage districts, municipalities, and other public agencies within the Sacramento River Flood Control Project limits, to maintain and operate the works of the project within the boundaries or jurisdiction of such agencies, excepting only those works enumerated in Section 8361 and those for which provision for maintenance and operation is made by Federal law.

LMAs O&M Responsibility:

12642. In all cases where the Federal Government does not maintain and operate projects, it is the responsibility and duty of the county, city, state agency, or public district affected to maintain and operate flood control and other works, constructed pursuant to Chapters 1 and 2 of this part, after their completion and hold and save the State and the United States free from damages.

12828. Except where the co-operation required by the United States in addition to the costs of all lands, easements, and rights-of-way, has been authorized to be assumed by the State prior to March 12, 1946, the department shall not reallocate the funds allocated to it, nor shall the Reclamation Board expend any funds appropriated directly to it, for acquisition of property rights or contributions to the United States, for any project for which the Reclamation Board is directed to give assurances to the United States unless and until a public agency other than the Reclamation Board has either assumed the obligations of maintenance and holding the United States harmless from damages due to the construction of works, directly with the United States, or has by binding agreement with the Reclamation Board agreed to assume such obligations and to hold the State and

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the Reclamation Board harmless from any claims therefor. This section is not intended to prevent the expenditure of project funds by the Reclamation Board for planning and design engineering, title reports and appraisals, and other incidental expenses required in advance of actual acquisition of property rights.

5.1 Updated Operations and Maintenance Manuals

Many levees have been modified subsequent to original construction throughout the system. The common practice is for USACE to prepare supplements to the standard O&M manual to cover work by USACE under a separate project. The California Department of Water Resources (DWR) and USACE assembled a set of these supplements after the 2010 Descriptive Document.

The most current O&M manual database can be found on the CDEC website (DWR, 2017). The O&M manuals provided on the reference digital versatile disc (DVD) with the 2010 Descriptive Document may have outdated or incomplete manuals.

Maps showing the applicable supplemental manuals by location can be found in the SPFC Mapbook on the SPFC O&M Manual webpage of the DWR CDEC website (DWR, 2017).

Table 5-2 and Table 5-3 list O&M manuals with changes since the 2010 Descriptive Document in the Sacramento River Basin and the San Joaquin River Basin, respectively. Changes include, but are not limited to, additions of contracts, additions of drawings, additions of letters, and changes to paragraphs. (Refer to the Additions/Revisions page of the respective O&M manuals for more information on specific additions and revisions within each manual).

Table 5-2. Operations and Maintenance Manuals with Additions or Revisions Since 2010 in the Sacramento River Basin

Number	Title
SAC101	Reclamation District No. 341
SAC102	East Levee of Sacramento River from Isleton to Threemile Slough and Northerly Levee of Threemile Slough from Sacramento River to San Joaquin River
SAC103	Both Levees of Georgiana Slough and East Levee of Sacramento River from Walnut Grove to Isleton
SAC104	Levees Around Grand Island, Reclamation District 3
SAC105	Levees Around Riyer Island, Reclamation District 501
SAC107	Levees Around Hastings Tract, Reclamation District 2060
SAC108	Levees Around Peters Tract
SAC109	West Levee of Yolo Bypass and East Levee of Cache Slough
SAC110	Levees Around Sutter Island, Reclamation District 349
SAC111	East Levee of Sacramento River from Freeport to Walnut Grove
SAC112	Levee Around Merritt Island
SAC113	East Levee of Yolo Bypass, North Levee of Miner Slough, West Levees of Sutter Slough, Elkhorn Slough and Sacramento River, All Bordering Reclamation District 999
SAC114	West Levee of Sacramento River From North Boundary of Reclamation District 765 to South Boundary of Reclamation District 307
SAC115	East Levee of Sacramento River from Sutterville Road to North Boundary of Reclamation District 744

5.0 State Plan of Flood Control Operations and Maintenance Update

Table 5-2. Operations and Maintenance Manuals with Additions or Revisions Since 2010 in the Sacramento River Basin

Number	Title
SAC116	West Levee of Sacramento River from Sacramento Weir to Mile 51.2 and South Levee of Sacramento By-Pass and East Levee of Yolo By-Pass from Sacramento By-Pass to South Boundary of Reclamation District 900
SAC117	East Levee Sacramento River through the City of Sacramento from Tower Bridge to Sutterville Road
SAC118.1	East Levee of Sacramento River from American River to Tower Bridge and South Levee of American River from Mayhews Downstream to Sacramento River
SAC118.2	North Levee of American River, East Levee of Natomas Canal, Both Levees of Arcade Creek, and Magpie Creek Diversion Channel
SAC119	Putah Creek Channel and Levees and West Levee of Yolo By-Pass from Yolo Causeway Downstream 3 Miles
SAC120	Relocated Willow Slough Channel and Levees and West Levee Yolo Bypass from Mouth of Relocated Willow Slough to Yolo Causeway
SAC121	Right Levee of Yolo Bypass from Willow Slough Bypass to Woodland Road, Reclamation District 2035
SAC123	West Levee Sacramento River from East End Fremont Weir to Mile 70.8 and East Levee Yolo By-Pass from East End Fremont Weir to Woodland Highway, Levees of Reclamation District 1600
SAC124	North Levee of the American River from Natomas East Canal to the Sacramento River and East Levee of the Sacramento River from Natomas Cross Canal to American River
SAC125	Back Levee of Reclamation District 1000
SAC126	Cache Creek Levees and Settling Basin Yolo Bypass to High Ground
SAC127	Levees of Knights Landing Ridge Cut and Sacramento River and Yolo Bypass Levees of Reclamation Districts 730 and 819 and South Levee of Sycamore Slough
SAC128	East Levee of Sacramento River from Sutter Bypass to Tisdale Weir All Within Reclamation District 1500 (Mile 84.5 to 118.5)
SAC129	South Levee of Tisdale Bypass from the East Levee of Sacramento River to the West Levee of Sutter Bypass and West Levee Sutter Bypass Downstream to East Levee of Sacramento River
SAC130	West Levee of Sacramento River from Sycamore Slough to Wilkins Slough (Mile 89.9 to Mile 117.8)
SAC131	West Levee of Sacramento River from Wilkins Slough to Colusa (Mile 117.8 to Mile 143.5)
SAC132	Back Levees of Reclamation District 108
SAC133	East Levee of Sacramento River from Winship School to Tisdale Bypass and North Levee of Tisdale Bypass and West Levee of Sutter Bypass from Long Bridge to Tisdale Bypass
SAC134	Levees of Reclamation District 70, East Levee of Sacramento River from Butte Slough Outfall Gates to Winship School and West Levee of Sutter Bypass from Butte Slough Outfall Gates to Long Bridge
SAC135	East Levee of Sutter Bypass from the Sutter Buttes Southerly to its Junction with the Feather River and the East and West Levees of Wadsworth Canal and Levees of Intercepting Canals
SAC136	East Levee of Sacramento River from Butte Slough Outfall Gates to the Princeton-Afton Road (Mile 138.3 to Mile 164.4)
SAC137	West Levee of Sacramento River From North End of Princeton Warehouse to Colusa Bridge
SAC138	East Levee of Sacramento River from Parrott Grant Line to Princeton-Afton Road
SAC139	West Levee of Sacramento River from North Boundary of Levee District 2 to North End of Princeton Warehouse
SAC140	West Levee of Sacramento River in Levee District 1 (Mile 170.5 to Mile 184.7)
SAC141.1	East Levee Of Feather River From Bear River To Natomas Cross Canal And South Levee Of Bear River And Both Levees Of Yankee Slough
SAC142	Back Levee of Reclamation District 1001

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Table 5-2. Operations and Maintenance Manuals with Additions or Revisions Since 2010 in the Sacramento River Basin

Number	Title
SAC143	West Levee of Feather River From North Boundary of Reclamation District 823 to East Levee of Sutter By-Pass
SAC144	West Levee of Feather River from North Boundary of Levee District 1 to North Boundary of Reclamation District 823
SAC145	East Levee of Feather River, South Levee of Yuba River, Both Levees of W.P.R.R. Intercepting Channel, West Levee of South Dry Creek and North Levee of Bear River
SAC146	North Levee of Bear River and South Levee of South Dry Creek Reclamation District 817 and Vicinity of Wheatland.
SAC147	Levee Around the City of Marysville and North Levee of Yuba River to a Point 1.8 Miles Upstream From Marysville
SAC148	West Levee of the Feather River From North Boundary of Reclamation District 777 to North Boundary of Levee District 1
SAC151	East Levee of Feather River From Honcut Creek to Marysville and South Levee of Honcut Creek and East levee of Reclamation District 10
SAC152	West Levee of Feather River From North Boundary of Reclamation District 777 To The Western Canal Intake (Levee of Drainage District 1)
SAC153	Lower Butte Creek Channel Improvement Colusa, Glenn, and Butte Counties, CA
SAC154	Moulton Weir and Training Levee, Sacramento River, CA
SAC155	Colusa Weir and Training Levees, Sacramento River, CA
SAC156	Tisdale Weir and Bypass, Sacramento River, CA
SAC158	Sacramento Weir, Sacramento River, CA
SAC159	Pumping Plants No. 1, 2 & 3, Sutter Bypass
SAC504	Chico Creek, Mud Creek, and Sandy Gulch
SAC506.2	Middle Creek Part 2, Levees and Channel Improvement, Middle Creek Project, CA
SAC509	Deer Creek Tehama County, CA
SAC510	Elder Creek from Sacramento River to High Ground
SAC512	Sacramento River, Chico Landing to Red Bluff, Bank Protection
SAC515	Upper Butte Creek Part 1, From Highway 99E Downstream 8.7 Miles
SAC516	Upper Butte Creek Part 2, From Little Chico Creek Diversion Structure Downstream 9.3 Miles
SAC519	Cherokee Canal from Lower Butte Basin to High Ground
SAC522	Cache Creek Settling Basin Enlargement

Table 5-3. Operations and Maintenance Manuals with Additions or Revisions Since 2010 in the San Joaquin River Basin

Number	Title
SJR001	Right Bank Levee of San Joaquin River and French Camp Slough within Reclamation District 404
SJR002	Right Bank Levee of San Joaquin River and Left Bank of French Camp Slough within Reclamation District 17
SJR003	North Levee of Stanislaus River and East Levee of San Joaquin River within Reclamation Districts 2064, 2075, 2094 and 2096
SJR003A	Supplement to Standard Operation and Maintenance Manual, Lower San Joaquin River & Tributaries Project, California, Unit No 3-A, Wetherbee Lake Pumping Plant and Navigation Gate

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Table 5-3. Operations and Maintenance Manuals with Additions or Revisions Since 2010 in the San Joaquin River Basin

Number	Title
SJR004	East Levee of San Joaquin River within Reclamation District 2031
SJR005	East Levee of the San Joaquin River within Reclamation District 2092
SJR006	East Levee of the San Joaquin River in Reclamation Districts 2063 & 2091
SJR007	West Levee of San Joaquin River and North Levee of Old River, Reclamation Districts 524 and 544
SJR008	Right Banks of Old River and Salmon Slough Within Reclamation Districts 1 and 2089
SJR009	Levees around Reclamation District 2062 and San Joaquin County Flood Control District, Area 2
SJR010	West Levee of Paradise Cut Reclamation District 2058 and San Joaquin County Flood Control District, Area 2
SJR011	West Levee of San Joaquin River from Durham Bridge to Paradise Dam within Reclamation Districts 2085 and 2095
SJR012	West Levee of San Joaquin River from Opposite Mouth of Tuolumne River Downstream to Stanislaus County Line within Reclamation Districts 2099, 2100, 2101 and 2102
SJR013	West Levee of the San Joaquin River within Reclamation District 1602
SJR601.1	Lower San Joaquin River Flood Control Project Part 1, Levees, Irrigation and Drainage Structures, Channels and Miscellaneous Facilities (Prepared by Reclamation Board)
SJR606	Fresno River, Channel Improvement and Levee Construction, Hidden Dam and Hensley Lake Project, Madera County, CA
SJR607	Channels and Levees of the Merced County Stream Group
SJR611.1	Mormon Slough Project Part 1, Levees and Channels from San Joaquin River to Bellota
SJR611.2	Mormon Slough Project Part 2, Pumping Plants

A number of relevant O&M manuals have been superseded with more current manuals (DWR, 2017). Table 5-4 lists the individual superseded O&M manual, the current O&M manual, and their respective titles.

Table 5-4. Superseded Operations and Maintenance Manuals

Superseded O&M Manual		Current O&M Manual	
Number	Title	Number	Title
SAC001	East Levee of the Sacramento River, at Missouri Bend, from Mile 96.4 to Mile 97.5, Approximately 37 Miles Upstream of Sacramento, CA	SAC128	East Levee of Sacramento River from Sutter Bypass to Tisdale Weir All Within Reclamation District 1500 (Mile 84.5 to 118.5)
SAC002	Unit No. 2 East Levee of Sacramento River Moulton Weir to Princeton-Butte City Road Approximately 100 Miles Upstream of Sacramento, CA	SAC136	East Levee of Sacramento River from Butte Slough Outfall Gates to the Princeton-Afton Road (Mile 138.3 to Mile 164.4)
SAC003	West Levee of Yolo Bypass Between Sacramento Northern R.R. and a Point 3.9 Miles Southerly from Willow Slough Approximately 10 Miles Northwesterly from Sacramento, CA	SAC121	Right Levee of Yolo Bypass from Willow Slough Bypass to Woodland Road, Reclamation District 2035

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Table 5-4. Superseded Operations and Maintenance Manuals

Superseded O&M Manual		Current O&M Manual	
Number	Title	Number	Title
SAC005	Bear River Levee System Constructed in Vicinity of Rio Oso, Sutter County, CA, Approximately 28 Miles Northerly of Sacramento, CA	SAC141.1	East Levee Of Feather River From Bear River To Natomas Cross Canal And South Levee Of Bear River And Both Levees Of Yankee Slough
		SAC145	East Levee of Feather River, South Levee of Yuba River, Both Levees of W.P.R.R. Intercepting Channel, West Levee of South Dry Creek and North Levee of Bear River
		SAC146	North Levee of Bear River and South Levee of South Dry Creek Reclamation District 817 and Vicinity of Wheatland.
SAC006	West Levee, Sacramento River, Colusa to Packers	SAC137	West Levee of Sacramento River From North End of Princeton Warehouse to Colusa Bridge
SAC007	West Levee Sacramento River and South Levee Sycamore Slough at Knights Landing, CA	SAC127	Levees of Knights Landing Ridge Cut and Sacramento River and Yolo Bypass Levees of Reclamation Districts 730 and 819 and South Levee of Sycamore Slough
SAC009	West Levee of the Sacramento River, at Brytes Bend, CA	SAC116	West Levee of Sacramento River from Sacramento Weir to Mile 51.2 and South Levee of Sacramento By-Pass and East Levee of Yolo By-Pass from Sacramento By-Pass to South Boundary of Reclamation District 900
SAC010	East Levee of the Sacramento River between Meridian Bridge and Tisdale Weir, CA	SAC133	East Levee of Sacramento River from Winship School to Tisdale Bypass and North Levee of Tisdale Bypass and West Levee of Sutter Bypass from Long Bridge to Tisdale Bypass
		SAC134	Levees of Reclamation District 70, East Levee of Sacramento River from Butte Slough Outfall Gates to Winship School and West Levee of Sutter Bypass from Butte Slough Outfall Gates to Long Bridge
SAC011	East Levee of the Sacramento River, Isleton Bridge to Walnut Grove, CA	SAC103	Both Levees of Georgiana Slough and East Levee of Sacramento River from Walnut Grove to Isleton
SAC012	East Levee Sacramento River Part "A" - MI. 92.6 to MI. 94.5, Part "B" - MI. 99.3 to MI. 101.2 and Part "C" - MI. 110.8 to MI. 111.5 between Tisdale Weir and Knights Landing, CA	SAC128	East Levee of Sacramento River from Sutter Bypass to Tisdale Weir All Within Reclamation District 1500 (Mile 84.5 to 118.5)
SAC013	West Levee of the Feather River, Opposite Rio Bonito station upstream 3.5 miles	SAC152	West Levee of Feather River From North Boundary of Reclamation District 777 To The Western Canal Intake (Levee of Drainage District 1)
SAC014	East Levee of Miner and Cache Sloughs on Riyer Island Near Rio Vista, CA	SAC105	Levees Around Riyer Island, Reclamation District 501
SAC017	North Levee of the Yuba River Upstream 1.8 Miles from Marysville, CA	SAC147	Levee Around the City of Marysville and North Levee of Yuba River to a Point 1.8 Miles Upstream From Marysville

5.2 Inspections

DWR's inspection responsibilities are described in California Water Code Section 8371 as follows:

The department shall, in connection with the flood control works of the Sacramento River Flood Control Project, make inspections and prepare reports which are required because of assurances given to the Secretary of the Army pursuant to Article 2 (commencing with Section 8615) of Chapter 3 of Part 4.

CVFPB Resolution No. 2012-25 directed DWR to implement the proposed interim vegetation management strategy while scientific studies progressed to determine whether vegetation removal or attrition are necessary for public safety considerations, appropriate, and best use of limited funds (CVFPB, 2012).

DWR's inspection staff continues to conduct their inspections based on the requirements of USACE O&M manuals, with the exception of revised levee inspection criteria for vegetation, which are aimed at improving public safety by providing visibility for inspections, eliminating vegetation conflicts and encroachments that could hamper floodfighting activities, and improving access for overall maintenance.

The Water Resources Reform and Development Act of 2014, enacted June 2014 by Public Law 113-121 (HTIC, 2014), directed USACE to provide new guidance for management of vegetation on levees. The legislation set a deadline of 18 months from the date of enactment. Due to other priorities, USACE did not begin the review process until mid-2016. This effort may result in an update to the USACE Engineering Technical Letter (ETL) 1110-2-583, Guidelines for Landscape Planting and Vegetation Management at Levees, Floodwalls, Embankment Dams and Appurtenant Structures (USACE, 2014), that, in short, states that vegetation on the levee and within 15 feet of the levee toe does not meet USACE engineering standards. These guidelines expire April 30, 2019. The review could also lead to changes in the Program Guidance Letter published in the Federal Register on February 17, 2012 (USACE, 2012), describing the process for requesting a variance from vegetation standards for levees and floodwalls.

5.3 Maintenance

Maintenance of SPFC facilities is performed by DWR and 86 different LMAs based on the 2015 Inspection and Local Maintaining Agency Report. USACE Regulation 33, CFR 208.10, separates responsibilities into two categories – levees and channels. In addition, DWR and LMAs are responsible for satisfying all environmental and resource agency requirements or laws that apply during performance of maintenance activities.

Table 5-1 was updated to include information on the Mellin Levee, as well as SPFC structures not included in the 2010 Descriptive Document.

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Table 5-1. Maintaining Agencies for State Plan of Flood Control Facilities (Updated)

State Plan of Flood Control Facility	Maintaining Agency
Lindo Channel Gates (Control Structure)	Butte County Public Works
Sycamore (Lindo Channel Diversion) Weir	Butte County Public Works
Big Chico Creek Gates (Diversion Control Structure)	Butte County Public Works
Little Chico Creek Diversion Structure	DWR Sutter Maintenance Yard
Oroville Dam	DWR Division of Operations and Maintenance
Butte Slough Drainage Structure	DWR Sutter Maintenance Yard
Sutter Bypass Pumping Plant No. 3	DWR Sutter Maintenance Yard
Clover Creek Diversion Structure	Lake County Watershed Protection District
Highland Canal Diversion Weir and Drainage Structure	Lake County Watershed Protection District
Knights Landing Outfall Structure	DWR Sacramento Maintenance Yard
Fremont Weir	DWR Sacramento Maintenance Yard
Cache Creek Settling Basin Weir and Drainage Structure	DWR Sacramento Maintenance Yard
Magpie Creek Pumping Plant	City of Sacramento
Willow Slough Weir	DWR Sacramento Maintenance Yard
Elk Slough Inlet Structure	Reclamation District 999
Mellin Levee	Solano County Public Works
Duck Creek Diversion Weir and Control Structure	San Joaquin County Flood Control District
Wetherbee Lake Pumping Plant & Navigation Gate	RD2096 - Wetherbee Lake
Lower San Joaquin River (Gomes Lake) Pumping Plant	Reclamation District Number 2091
Turlock Irrigation District Lateral No. 6 Pumping Plant	Reclamation District Number 2063 - Crows Landing
Turlock Irrigation District Lateral No. 6 & 7 Siphon Structure	Turlock Irrigation District
Castle Dam	Merced Irrigation District
Black Rascal Creek Drop Structure	Merced County Stream Group
Bear Creek Diversion Structure	Lower San Joaquin Levee District
Owens Creek Diversion Channel Siphon	Merced County Stream Group
Owens Creek Control Structure	Lower San Joaquin Levee District
Mariposa Bypass Drop Structure	Lower San Joaquin Levee District
Ash Slough Control Structure	Madera County Flood Control and Water Conservation Agency
Berenda Slough Control Structure	Madera County Flood Control and Water Conservation Agency
Fresno River Drainage Structure	Lower San Joaquin Levee District
Fresno River Diversion Weir	Lower San Joaquin Levee District

Notes:

DWR = California Department of Water Resources

5.3.1 Maintenance by California Department of Water Resources

In the Sacramento River Basin, DWR maintains levees in accordance with USACE O&M manuals for approximately 294 miles of levees under DWR jurisdiction. DWR also maintains 14 SPFC structures, 4 pumping plants, and SPFC channels specified under the California Water Code as DWR's responsibility for compliance with the O&M manuals.

DWR is responsible for maintaining SPFC channels specified by California Water Code Section 8361. DWR is responsible for controlling vegetation, sediment, fallen trees, and other debris affecting channel capacity.

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6.0 State Plan of Flood Control Conditions Update

There are no updates to the description of SPFC Conditions in the 2010 Descriptive Document.

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7.0 Programs and Plans Related to the State Plan of Flood Control Update

This section provides an update on programs and plans related to the SPFC addressed in the 2010 Descriptive Document. Much of the information from the SPFC program and plans has not changed, with the exception of EIP and ongoing State-federal projects. The following subsections provide an update on EIP and ongoing State-federal projects addressed in the 2010 Descriptive Document.

7.1 Update to Ongoing State-Federal Projects

The 2010 Descriptive Document included multiple ongoing authorized State-federal flood protection projects. These projects were listed in Table 2-2 of the 2010 Descriptive Document. The current status of ongoing State-federal projects is included in the 2017 FSSR (DWR, 2017). At the time of this Update, no ongoing projects have been incorporated into the SPFC.

7.2 Early Implementation Program Update

The EIP was a State program related to the SPFC and was created to fund high-priority projects to restore or improve flood protection in advance of the 2012 Central Valley Flood Protection Plan (CVFPP). EIP projects existed in both urban and non-urban areas. Since adoption of the CVFPP in 2012, the Urban Flood Risk Reduction (UFRR) Program has extended the work begun under the EIP to support implementation of regional flood-damage-reduction projects for urban areas protected by the SPFC. Section 8.4.4 provides more details on UFRR projects.

7.3 Urban Levee Evaluations and Non-Urban Levee Evaluations Update

The Urban and Non-Urban Levee Evaluation Program was completed in early 2016. For further details on results refer to the 2017 FSSR (DWR, 2017).

7.4 U.S. Army Corps of Engineers Levee Safety Program

The USACE Levee Safety Program works to better understand, manage, and reduce the flood risks associated with levees. USACE maintains a national inventory of levee systems and makes the information available in the National Levee Database (USACE, 2016). USACE inspects and assess about 2,500 levee systems nationwide, and uses the data to prioritize action. USACE communicates risk-related issues and concerns, holding life safety as paramount, and supports USACE and State/local decisions aimed at reducing risk. Recognizing that managing risk is a shared responsibility, USACE works closely with federal, State, local, and international partners to share information and develop solutions.

8.0 State Plan of Flood Control Future Updates

The 2010 Descriptive Document and this Update includes a description for the SPFC as of June 30, 2016. This section describes information that may be considered in future updates.

For some projects, timeframes for expected completion are included as well as the status of certain projects within those programs. Many ongoing activities will lead to improvements to existing SPFC facilities through either adding new facilities or modifying existing SPFC facilities. Also, information on and data generated for the existing SPFC facilities may result in formal removal of certain features from the SPFC. Removal of a facility from the SPFC may consist of physical and administrative actions or only administrative actions (e.g., an entity other than DWR or CVFPB provides assurances directly to the federal government for a project).

As the SPFC changes, additional updates to the 2010 Descriptive Document will be necessary.

8.1 Implementation of the Central Valley Flood Protection Plan

Delivering program activities and implementing near-term and long-term actions requires a wide range of program expertise to plan, design, finance, construct, and operate improvements to the flood management system. At the State level, this work is organized into five major DWR flood management programs (commonly referred to as mega programs) and implemented while working closely with CVFPB and in close coordination with local, State, and federal partnering agencies. Each program implements different types of actions (together, they cover all work required for implementing actions identified in the CVFPP) and for overall flood management in the areas protected by SPFC facilities.

8.1.1 California Department of Water Resources Flood Management Programs

DWR has five major flood management programs. These programs include the Flood Emergency Response Program, the Flood System Operations and Maintenance Program, the Floodplain Risk Management Program, Flood Management Planning, and Flood Risk Reduction. Descriptions of these programs are provided below.

Flood Emergency Response Program

The responsibility of the Flood Emergency Response Program is to prepare for floods, effectively respond to flood events, and quickly recover when flooding occurs. This program will implement flood emergency response enhancements included in the CVFPP, including providing technical and financial assistance to local agencies to improve local flood emergency response.

Flood System Operations and Maintenance Program

The Flood System Operations and Maintenance Program includes work to keep specific flood-management facilities (as defined in the California Water Code) in good, serviceable condition so that facilities continue to function as designed. In addition to its routine responsibilities, this program will implement the actions identified for improved maintenance of the SPFC facilities in the CVFPP.

Floodplain Risk Management Program

The Floodplain Risk Management Program strives to reduce the consequences of riverine flooding in the Central Valley. A major focus of this work is the delineation and evaluation of floodplains to assist local decision makers with their near-term and long-term land use planning efforts. In addition to its routine activities, this program will implement floodplain management enhancement activities included in the CVFPP.

Flood Management Planning Program

This program conducts planning and feasibility assessments for SPFC facilities and formulates necessary refinements of these facilities. The program provides the rationale, engineering support, and feasibility evaluations to support development of site-specific improvements for the CVFPP. Feasibility studies and updates to the CVFPP are prepared under this program. This program also performs flood system engineering and modeling assessments of existing facility conditions for use in identifying areas needing improvements.

Flood Risk Reduction Program

The Flood Risk Reduction Program conducts the work necessary to implement on-the-ground projects that are consistent with the CVFPP. State investments in system improvements may be through direct investment in new or improved facilities or through grant programs. System improvements will generally be implemented through partnership among DWR, the CVFPB, and USACE, and in coordination with other federal, State, and local agencies.

8.2 2017 Flood System Status Report

The 2017 FSSR contains information on the current status of the SPFC (DWR, 2017). Information is sourced from the 2015 Inspections Report and completed evaluations programs (DWR, 2017).

8.3 2017 Central Valley Flood Protection Plan Update

The CVFPP represents the State of California's evolving blueprint for reducing the chance of flooding and the damages caused by floods, while improving river system management to achieve multiple resource benefits for the Sacramento River and San Joaquin River systems. The CVFPP was adopted by CVFPB in June 2012 through Resolution No. 2012-25 (CVFPB, 2012), meeting the requirements of the Central Valley Flood Protection Act of 2008.

The 2017 CVFPP Update is the first of a series of 5-year updates of the CVFPP as required by the Central Valley Flood Protection Act of 2008. Future updates will continue to document implementation progress and evolution of program priorities and phasing to implement the CVFPP over its 30-year planning horizon. DWR is required to update the CVFPP every 5 years.

8.4 Ongoing Evaluations, Projects, and Repairs

8.4.1 Sacramento River Bank Protection Program

The Sacramento River Bank Protection Program consists of long-term flood-risk-management projects designed to enhance public safety and help protect property along the Sacramento River and its tributaries. Refer to the 2017 FSSR for more information (DWR, 2017).

8.4.2 Flood System Repair Program

The Flood System Repair Program (FSRP) consists of long-term flood-risk-management projects to reduce flood risk primarily in rural areas of the SPFC. Refer to the 2017 FSSR for more information (DWR, 2017).

8.4.3 Levee Penetrations Rehabilitation Program

New Levee Penetrations Rehabilitation Projects will begin under the FSRP Deferred Maintenance Program. Refer to the 2017 FSSR for more information (DWR, 2017).

8.4.4 Urban Flood Risk Reduction Program

The UFRR Program was created to address State investment priorities as a result of the adoption of the CVFPP. The UFRR Program supports implementation of regional flood-damage-reduction projects for urban areas protected by SPFC facilities in the Sacramento-San Joaquin Valley to achieve at least a 200-year level of flood protection. The UFRR Program provides cost-share funding to local agencies to repair and improve levees and facilities of the SPFC. The UFRR Program is based on competitively awarded funding agreements and directed funding for planning, design, and construction projects. Projects must be multi-benefit flood projects consistent with the CVFPP and State System-Wide Investment Approach. The program is continuing the work begun under the EIP developed in 2007 in response to the passage of Propositions 1E and 84.

The following EIP projects have completed construction, but have pending revised O&M manuals, turnover letters, and board resolutions accepting the project:

- SAFCA Natomas Levee Improvement Program
- Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Repair Project Reaches B & C
- Three Rivers Levee Improvement Authority (TRLIA) Yuba and Feather River Levee Improvement Project

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- West Sacramento Area Flood Control Agency (WSAFCA) Levee Repair and Improvement Project – I Street Bridge, Three Rivers, California Highway Patrol Academy Sacramento Bypass
- RD 2103 Bear River North Levee Rehabilitation Project

The following are ongoing EIP and UFRR Program projects:

- Knights Landing Levee Repair Project
- Lathrop Study and Preliminary Design
- RD 17 100-Year Levee Seepage Remediation Project
- SAFCA Levee Accreditation Project
- San Joaquin Area Flood Control Agency Smith Canal Closure Structure Project
- Sutter Butte Flood Control Agency Feather River West Levee Repair Project Reaches A & D
- Three Rivers Levee Improvement Authority Yuba Goldfields 200-Year Levee Project
- West Sacramento Area Flood Control Agency Levee Repair and Improvement Project – Sacramento River Southport
- Woodland Study and Preliminary Design Project

8.4.5 Small Community Flood Risk Reduction Program

This program will coordinate the development of local flood damage reduction projects for small communities. The program activities include working with local agencies to achieve a 100-year flood protection by constructing new ring levees around small communities and improving existing levees and floodwalls, where feasible. In addition to feasible structural improvements, small communities may consider non-structural flood risk reduction measures, such as flood proofing, raising structures, and relocating structures. This program is being implemented in partnership with CVFPB, local agencies, Federal Emergency Management Agency, and USACE.

8.5 Addition and Removal of State Plan of Flood Control Facilities

As the CVFPP is implemented, some features of the SPFC may prove obsolete and slated for removal, while other features may be added. Ongoing State-federal projects in the Sacramento and San Joaquin river basins are expected to become a part of the SPFC after completion, and turned over to the State and LMAs. Also, while some projects completed through DWR-sponsored programs (i.e., EIP and UFRR Program) are not currently part of the SPFC, they may become part of the SPFC in the future after undergoing the appropriate processes. These processes include authorization by both the State and federal governments and formal project participation agreements between both governments. The process to close out a completed project and incorporate into the SPFC may take 3 or more years.

8.5.1 Addition of State Plan of Flood Control Facilities

As ongoing State-federal projects in the Sacramento and San Joaquin river basins are implemented, they may become new additions and/or modifications of facilities to the existing SPFC. The formal process to add and/or include modifications to the existing SPFC involves

State-federal authorizations and formal project agreements and assurances between the State and federal governments and State and local governments. This process can take 3 or more years.

This Update included collecting and analyzing historic SPFC data which identified facilities that did meet the documentation requirements for the SPFC. This was the case of the SRFCP Unit 106 Mellin Levee located along the lower Yolo Bypass. Another portion of the Lower San Joaquin River and Tributaries Project (LSJRTP) is currently under review by USACE and CVFPB for the required documentation for SPFC facility.

To become part of the SPFC, EIP and UFRR Program projects must complete the following process:

- The local agency requests CVFPB to ask USACE permission under Title 33 of the U.S.C. Section 408 to complete a modification of an existing project.
- After the CVFPB request, the local agency completes the Section 408 process.
- After construction and O&M manuals are complete and the other parts of the project closeout is finished, the project is sequentially turned over by USACE to CVFPB, which then turns it over to the local agency.

8.5.2 Removal of State Plan of Flood Control Facilities

California Water Code Section 9614 (h) requires that CVFPB include an evaluation of facilities recommended to be removed from the SPFC.

Removal of a facility from the SPFC may consist of physical removal and administrative actions or only administrative actions. To be considered for removal from the SPFC, candidate facilities need to meet one or more of the following criteria:

- Physical removal of the SPFC facility would result in improving the flood management system.
- Removal of the SPFC facility is in the mutual interest of the State and the local maintaining agency.
- Physical removal of the facility has already been initiated or completed.

An example of an SPFC facility that may be removed is the Non-Structural Alternative (NSA) at the San Joaquin River National Wildlife Refuge, also known as Three Amigos. Three Amigos covers an area of approximately 3,200 acres. During the 1997 flood event, four failures occurred on the west or left bank levee along the San Joaquin River and flooded RDs 2099, 2100, 2101, and 2102. After the flood event, steps were being taken to implement the NSA. This alternative includes breaching existing main-stem San Joaquin River levees on refuge land to protect and restore riverine and riparian habitat, and requires modification to the O&M manuals for these RDs to eliminate the need to perform levee maintenance (i.e., the levees would be maintained in a breached condition as the levees no longer provide flood protection to the district lands).

This proposed NSA will provide floodplain inundation behind project levees of up to 3,100 acres on the refuge in some years.

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9.0 Observations Updates

The 2010 Descriptive Document included a list of observations to facilitate presentation of SPFC materials. The list of observations remains relevant, with the following additions.

9.1 Definition of State Plan of Flood Control

A definition of the SPFC is found in the California Water Code Section 9110 (f) and Section 9651, and Public Resources Code Division 5, Chapter 1, Article 2 Section 5096.805 subdivision (j). The relevant codes are included in Appendix A. The “policies” referred to in California Water Code 9651 are assumed to be intricately tied to SPFC conditions covered in Section 6.

9.2 Lower San Joaquin River Flood Control Project

The USACE, Sacramento District stated to CVFPB, by letter dated July 23, 2015, that in its view, the levees and channels of the San Joaquin River system upstream of the Merced River have not been congressionally authorized and, therefore, are not federal flood risk reduction structures (USACE, 2015). The Flood Control Act of 1955 allowed local interests to construct levees and channels at their own expense in lieu of purchasing the flowage easements as laid out in the original plan and authorization. The levees and channels, in the opinion of USACE, did not become federally authorized with the Flood Control Act of 1955. According to USACE, four federally authorized levee systems remain in this geographic area. The levees and channels in the following systems were authorized by the Flood Control Act of 1960:

- Fresno River left bank
- Ash Slough right bank
- Berenda Slough left bank - Fresno River right bank
- Ash Slough left bank - Berenda Slough right bank

As of the date of the letter, USACE does not consider the LSJLD levees as federal levees except the approximately 2 miles (11,400 feet) of channel clearing in the Eastside Bypass near Sand Slough authorized by the Supplemental Appropriations Act of 1983 and constructed by USACE in 1984. The levees of the LSJLD are no longer being shown by USACE as federal levees in the National Levee Database (USACE, 2016).

SPFC projects in the San Joaquin River were authorized pursuant to California Water Code Division 6, Part 6, Chapter 2. The LSJRTP was authorized pursuant to California Water Code Section 12651 and the Federal Control Acts of 1944 and 1950. At the time of the writing of this document, DWR, and CVFPB are continuing to investigate whether the Lower San Joaquin River Flood Control Project is part of the SPFC. Both DWR and the CVFPB continue to assert that the LSJLD is part of the SPFC. For the purposes of the 2017 CVFPP Update, DWR is assuming no change to the SPFC Planning Area until a definitive finding is made as a result of the State’s investigation.

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10.0 References

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U.S. Army Corps of Engineers (USACE). 2012. Program Guidance Letter. *Federal Register*. February 17. Available at <http://www.nws.usace.army.mil/Portals/27/docs/Levees/veg_variance_request_federal_register_posting.pdf>. December.

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11.0 Acronyms

CAP	Continuing Authorities Project
CDEC	California Data Exchange Center
CFR	<i>Code of Federal Regulations</i>
CVFBP	Central Valley Flood Protection Board
CVFMP	Central Valley Flood Management Planning
CVFPP	Central Valley Flood Protection Plan
CWC	California Water Code
DAA	Defense Appropriation Act
DVD	digital versatile disc
DWR	California Department of Water Resources
EIP	Early Implementation Program
EWDA	Energy and Water Development Appropriation Act
FCA	Flood Control Act
FCWCA	Flood Control and Water Conservation Agency
FSRP	Flood System Repair Program
FSSR	Flood System Status Report
GIS	geographic information system
HD	U.S. House of Representatives Document
JFP	Joint Federal Project
LD	Levee District
LMA	local maintaining agency
LSJRTP	Lower San Joaquin River and Tributaries Projects
NSA	Non-structural Alternative
O&M	operations and maintenance
RD	Reclamation District
SAFCA	Sacramento Area Flood Control Agency
SBFCA	Sutter Butte Flood Control Agency
SPFC	State Plan of Flood Control
SRFCP	Sacramento River Flood Control Project
SSJDD	Sacramento San Joaquin Drainage District
TRLIA	Three Rivers Levee Improvement Authority

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U.S.C.	<i>United States Code</i>
UFRR	Urban Flood Risk Reduction
ULE/NULE	Urban and Non-Urban Levee Evaluation Program
USACE	U.S. Army Corps of Engineers
WRDA	Water Resources Development Act
WSAFCA	West Sacramento Area Flood Control Agency

Appendix A – Relevant Legislation

California Water Resources Code

California Public Resources Code

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State of California

WATER CODE

Section 8350

8350. The approval and adoption, by and on behalf of the State of California, of the conditions, plans, construction, and mode of maintenance and operation of works within the Sacramento River Flood Control Project, set forth in Senate Committee Print, Seventy-fifth Congress, First Session, as authorized and approved by Act of Congress, Public No. 392, Seventy-fifth Congress, approved August 26, 1937, including the holding and saving the United States from damages due to construction works, are continued in effect.

(Added by Stats. 1943, Ch. 369.)



State of California

WATER CODE

Section 8360

8360. On behalf of the State the department has supervisory powers over the maintenance and operation of the flood control works of the Sacramento River Flood Control Project.

(Amended by Stats. 1957, Ch. 1932.)



State of California

WATER CODE

Section 8361

8361. The department shall maintain and operate on behalf of the state the following units or portions of the works of the Sacramento River Flood Control Project, and the cost of maintenance and operation shall be defrayed by the state:

- (a) The east levee of the Sutter Bypass north of Nelson Slough.
- (b) The levees and channels of the Wadsworth Canal, Willow Slough Channel downstream from the Southern Pacific Railroad from Davis to Woodland except that portion of the north levee thereof lying within Reclamation District No. 2035, Putah Creek downstream from Winters, the intercepting canals draining into them, and all structures incidental thereto.
- (c) The collecting canals, sumps, pumps, and structures of the drainage system of Project No. 6 east of the Sutter Bypass.
- (d) The bypass channels of the Butte Slough Bypass, the Sutter Bypass, the Tisdale Bypass, the Yolo Bypass, and the Sacramento Bypass with all cuts, canals, bridges, dams, and other structures and improvements contained therein and in the borrow pits thereof.
- (e) The levees of the Sacramento Bypass.
- (f) The channels and overflow channels of the Sacramento River and its tributaries and the major and minor tributaries' flood control projects as authorized and defined in Sections 12648, 12648.1, and 12656.5.
- (g) The Knights Landing ridge cut flowage area.
- (h) The flood relief channels controlled by the Moulton and Colusa Weirs and the training levees thereof.
- (i) The levee on the left bank of the Sacramento River adjoining Butte Basin, from the Butte Slough outfall gates upstream to a point four miles northerly from the Moulton Weir, after completion.
- (j) All weirs and flood relief structures.
- (k) The west levee of the Yolo Bypass, extending from the west end of the Fremont Weir southerly to the Cache Creek Settling Basin and from Willow Slough Channel to Putah Creek and the east levee of the Yolo Bypass from Fremont Weir southerly two miles.
- (l) The levee on the west bank of Feather River extending a distance of about two miles southerly from the Sutter-Butte Canal headgate.
- (m) The levees of Cache Creek and the easterly and westerly levees of Cache Creek Settling Basin; excepting the portion of the southerly levee of Cache Creek lying upstream from State Highway Route 7 (U.S. 99W).

(n) The flowage area of Western Pacific Intercepting Canal extending northerly for a distance of five miles from Bear River.

(o) The levees of Tisdale Bypass from Tisdale Weir 4.5 miles easterly to Sutter Bypass.

(p) The flood relief structures or weirs and other structures or facilities essential for their proper functioning in the vicinity of the Sacramento River between Big Chico Creek and the north boundary of Glenn County Levee District No. 3.

(Amended by Stats. 1987, Ch. 1090, Sec. 1. Effective September 24, 1987.)



State of California

WATER CODE

Section 8362

8362. The department may contribute funds to the United States and expend funds appropriated or otherwise available to provide all lands, easements, and rights of way for bank revetment for the protection of levees above Cache Slough and the levee reconstruction, including the costs of all alterations to highways, road crossings, and drainage and irrigation facilities incident to the work and the State's contribution of one-third of the costs of bank revetment and levee construction, as provided for and required under the provisions of the Act of Congress, Public No. 392, Seventy-fifth Congress, approved August 26, 1937.

(Amended by Stats. 1957, Ch. 1932.)



State of California

WATER CODE

Section 8370

8370. It is the responsibility, liability and duty of the reclamation districts, levee districts, protection districts, drainage districts, municipalities, and other public agencies within the Sacramento River Flood Control Project limits, to maintain and operate the works of the project within the boundaries or jurisdiction of such agencies, excepting only those works enumerated in Section 8361 and those for which provision for maintenance and operation is made by Federal law.

(Added by Stats. 1943, Ch. 369.)



State of California

WATER CODE

Section 8371

8371. The department shall, in connection with the flood control works of the Sacramento River Flood Control Project, make inspections and prepare reports which are required because of assurances given to the Secretary of the Army pursuant to Article 2 (commencing with Section 8615) of Chapter 3 of Part 4.

(Amended by Stats. 1982, Ch. 454, Sec. 185.)



State of California

WATER CODE

Section 8522.3

8522.3. "Facilities of the State Plan of Flood Control" has the same meaning as that set forth in subdivision (e) of Section 5096.805 of the Public Resources Code.

(Amended (as added by Stats. 2007, Ch. 366) by Stats. 2009, Ch. 275, Sec. 4. (AB 1165) Effective January 1, 2010.)



State of California

WATER CODE

Section 12639.1

12639.1. The department may investigate any project adopted and authorized by the state and approved by the Congress to determine whether the project is no longer justified and whether appropriate action should be taken to deauthorize the project. The department shall coordinate that investigation with the federal agency involved in the project.

(Added by Stats. 2004, Ch. 230, Sec. 32. Effective August 16, 2004.)



State of California

WATER CODE

Section 12639

12639. The works of improvement for the control, conservation and utilization of destructive flood waters and the reclamation and protection of lands that are susceptible to overflow by flood waters, which are described in this chapter, are adopted and authorized in the interest of the public welfare of the people of this State to be prosecuted substantially in accordance with the plans in the respective reports designated in this chapter.

If, however, there are any major project changes in the plan of improvement originally approved by the Congress and adopted and authorized by the State, which changes result in a substantial increase in the estimated cost of lands, easements and rights-of-way for the project, no money shall be reallocated by the State in aid of that portion of the project until the revised plan has been reviewed and approved by the department. Such approval shall be given if the department finds in its judgment that the benefits of the proposed works of improvement for the revised project will exceed the cost thereof and that the revised project appears to be the most economical project plan, considering construction costs, lands, easements and rights-of-way costs, and costs of operation and maintenance.

(Amended by Stats. 1959, Ch. 2092.)



State of California

WATER CODE

Section 12640

12640. The provisions of Part 2 of this division shall be applicable to all water made available by the construction of the works of any project approved by Chapters 1 and 2 of this part. No priority under Part 2 shall be released nor assignment made of any appropriation that will, in the judgment of the Department of Water Resources, deprive the county in which the appropriated water originates of any water necessary for the development of the county.

(Amended by Stats. 1959, Ch. 1269.)



State of California

WATER CODE

Section 12642

12642. In all cases where the Federal Government does not maintain and operate projects, it is the responsibility and duty of the county, city, state agency, or public district affected to maintain and operate flood control and other works, constructed pursuant to Chapters 1 and 2 of this part, after their completion and hold and save the State and the United States free from damages.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12643

12643. Prior to any local agency receiving payment or reimbursement pursuant to Section 12585.5 or 12585.7, for projects authorized on or after January 1, 2001, the agency shall enter into an agreement with the department or Reclamation Board pursuant to which the agency agrees to indemnify and hold and save the state, and its officers, agents, and employees, harmless from any and all liability for damages, as provided in Sections 12642 and 12828.

(Added by Stats. 2000, Ch. 1071, Sec. 7. Effective January 1, 2001.)



State of California

WATER CODE

Section 12645

12645. The Legislature finds and declares all of the following:

(a) In 1911, the Legislature adopted a flood control plan for the Sacramento Valley, as proposed by the federal California Debris Commission, and created the Reclamation Board to regulate levees and other encroachments, and to review and approve flood control plans for the Sacramento River and its tributaries. The state's adoption of a valleywide flood management plan was intended to create a unified plan of flood control and to reclaim lands from overflow. Six years later, California gained congressional authorization for the United States Army Corps of Engineers (Corps) to collaborate with the state in building and maintaining the Sacramento River Flood Control Project. The federal government transferred completed portions of the Sacramento River Flood Control Project to the state as portions were completed, and the state, in turn, passed responsibility for operation and maintenance to local districts organized to provide flood control within their boundaries.

(b) The state and federal governments have built or rebuilt levees, weirs, and bypasses to increase conveyance of flood waters downstream. The Sacramento River Flood Control Project and the federal-state flood control project in the San Joaquin Valley include approximately 1,600 miles of levees and other facilities to reduce central valley flood risk, now defined as the State Plan of Flood Control in subdivision (j) of Section 5096.805 of the Public Resources Code. The Corps often constructed federal "project levees" in both the Sacramento and San Joaquin River watersheds by modifying existing levees. The federal government transferred completed portions of the Sacramento River Flood Control Project to the state, as portions were completed, which in turn passed responsibility for operation and maintenance to local reclamation districts.

(c) In 2003, a state Court of Appeal in *Paterno v. State of California* (2003) 113 Cal.App.4th 998 (Paterno), held the state liable, in a claim for inverse condemnation, for failure of a levee that was operated and maintained by a local levee maintenance district. In settlement of that litigation, the state's liability was substantial because homes and a shopping center were built behind the levee and suffered from the resulting flood.

(d) The Legislature has authorized funding for numerous flood control projects throughout the Sacramento and San Joaquin River watersheds. These statutory authorizations included varying provisions regarding responsibility and liability for operation and maintenance of the flood control facilities, and may or may not have incorporated the specified facilities into the federal-state Sacramento River or San Joaquin River flood control projects. After the court ruling in *Paterno*, the status of

each flood facility became critically important to determining liability, and legal ambiguities led to questions about whether particular facilities were incorporated into a federal-state flood control project. In some cases, despite a location between two project levees, certain levees remain outside the jurisdiction of a federal-state flood control project, with local agencies retaining liability.

(e) In 2006, California voters approved the Disaster Preparedness and Flood Prevention Bond Act of 2006, which authorized the issuance of general obligation bonds in the amount of \$4.9 billion for flood protection and defined the Sacramento River and San Joaquin River federal-state flood control projects as the “State Plan of Flood Control.” The following year, the Legislature passed a package of bills to reform state flood protection policy in the central valley. These laws required the Department of Water Resources to develop, and the Central Valley Flood Protection Board to adopt, a Central Valley Flood Protection Plan, which is broader than the State Plan of Flood Control, affecting the entire watersheds of the Sacramento and San Joaquin Valley. These laws included provisions intended to limit state liability to facilities identified in the State Plan of Flood Control. These laws did not specifically address the facilities described in this article.

(Amended by Stats. 2010, Ch. 328, Sec. 238. (SB 1330) Effective January 1, 2011.)



State of California

WATER CODE

Section 12646

12646. Unless the context requires otherwise, the definitions set forth in this section govern the construction of this chapter.

(a) “Board” means the Central Valley Flood Protection Board.

(b) “Plan” means the Central Valley Flood Protection Plan.

(c) “Project levee” means any levee that is part of the facilities of the State Plan of Flood Control.

(d) “Public safety infrastructure” means public safety infrastructure necessary to respond to a flood emergency, including, but not limited to, street and highway evacuation routes, medical care facilities, and public utilities necessary for public health and safety, including drinking water and wastewater treatment facilities.

(e) “Sacramento-San Joaquin Valley” means any lands in the bed or along or near the banks of the Sacramento River or San Joaquin River, or any of their tributaries or connected therewith, or upon any land adjacent thereto, or within any of the overflow basins thereof, or upon any land susceptible to overflow therefrom. The Sacramento-San Joaquin Valley does not include lands lying within the Tulare Lake basin, including the Kings River.

(f) “State Plan of Flood Control” has the meaning set forth in subdivision (j) of Section 5096.805 of the Public Resources Code.

(Added by Stats. 2009, Ch. 275, Sec. 22. (AB 1165) Effective January 1, 2010.)



State of California

WATER CODE

Section 12647

12647. (a) The state shall not have responsibility or liability for the construction, operation, and maintenance of central valley flood control facilities identified in this article unless all of the following apply:

- (1) The department identifies the facility as part of the State Plan of Flood Control.
- (2) The state has expressly accepted the transfer of liability for the facility from the federal government.
- (3) The board incorporates the facility into the State Plan of Flood Control pursuant to Section 9611.

(b) Unless otherwise specifically provided, nothing in this article shall be construed to expand the responsibility of the state for the operation or maintenance of any flood management facility outside the scope of the State Plan of Flood Control, except as specifically determined by the board pursuant to Section 9611.

(c) Use of the phrase "adopted and authorized" in this article does not, by itself, reflect incorporation of the specified facility into the State Plan of Flood Control or assumption of liability by the state, unless one of the conditions described in subdivision (a) applies to the facility.

(d) Nothing in this section abrogates or modifies any duty, responsibility, or liability of any federal, state, or local agency, including, but not limited to, those duties, responsibilities, and liabilities set forth in Sections 8370, 12642, and 12828.

(Amended by Stats. 2010, Ch. 328, Sec. 239. (SB 1330) Effective January 1, 2011.)



State of California

WATER CODE

Section 12648.1

12648.1. The plan of flood control on the American River is hereby authorized and adopted substantially in accordance with the recommendations of the Chief of Engineers, House Document Numbered 367, Eighty-first Congress, and adopted and authorized by the act of Congress approved August 17, 1954, at an estimated state cost of five hundred thousand dollars (\$500,000). Said project shall be considered as extending and supplementing the projects authorized pursuant to Section 12648. Section 12828 shall not be applicable to the project.

(Added by Stats. 1955, Ch. 321.)



State of California

WATER CODE

Section 12648.2

12648.2. The project for flood protection on the Sacramento River from Chico Landing to Red Bluff, California, is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in House Document Numbered 272, Eighty-fourth Congress, Second Session, and adopted and authorized by the act of Congress approved July 3, 1958, at an estimated state cost of thirty-one thousand dollars (\$31,000).

(Added by Stats. 1959, Ch. 1912.)



State of California

WATER CODE

Section 12648.3

12648.3. The project for Hidden Reservoir and channel improvement on the Fresno River is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in Senate Document Numbered 37, 87th Congress, and adopted and authorized by the Act of Congress approved October 23, 1962, (Public Law 87-874) at an estimated state cost of two hundred twenty thousand dollars (\$220,000).

(Added by Stats. 1963, Ch. 1202.)



State of California

WATER CODE

Section 12648.4

12648.4. The project for Buchanan Reservoir and channel improvement on Chowchilla River is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in Senate Document Numbered 98, 87th Congress, and adopted and authorized by the Act of Congress approved October 23, 1962, (Public Law 87-874) at an estimated state cost of one hundred fifty thousand dollars (\$150,000).

(Added by Stats. 1963, Ch. 1203.)



State of California

WATER CODE

Section 12648.5

12648.5. The project for New Melones Reservoir and channel improvement on Stanislaus River is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in House Document Numbered 453, 87th Congress, and adopted and authorized by the Act of Congress approved October 23, 1962, (Public Law 87-874) at an estimated state cost of one hundred eighty thousand dollars (\$180,000).

(Added by Stats. 1963, Ch. 918.)



State of California

WATER CODE

Section 12648.6

12648.6. The Mormon Slough channel improvement project on Calaveras River is adopted and authorized substantially in accordance with the recommendation of the Chief of Engineers in House Document Numbered 576, 87th Congress, and adopted and authorized by the act of Congress approved October 23, 1962 (Public Law 87-874) at an estimated state cost of two million two hundred sixty thousand dollars (\$2,260,000).

(Added by Stats. 1963, Ch. 915.)



State of California

WATER CODE

Section 12648.7

12648.7. The project for flood protection on the North Fork of the Feather River near Chester, Plumas County, is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in House Document No. 314, 90th Congress, and adopted and authorized by the Act of Congress approved August 13, 1968 (Public Law 90-483) at an estimated cost to the state of such sums as may be appropriated for state participation by the Legislature upon the recommendation and advice of the Reclamation Board. This authorization shall not be deemed to confer preference on this project over the needs of other statewide programs in appropriations of available funds.

(Added by Stats. 1969, Ch. 1443.)



State of California

WATER CODE

Section 12648

12648. The projects for the control of floods and other purposes on the Sacramento River adopted by the acts of Congress approved March 1, 1917, May 15, 1928, August 26, 1937, and August 18, 1941, and adopted and authorized by the Legislature by Chapter 25, Statutes of 1911, First Extra Session, Chapter 170, Statutes of 1913, Chapter 686, Statutes of 1915, and Chapter 176, Statutes of 1925, are adopted and authorized as modified substantially in accordance with the recommendations of the Chief of Engineers in House Document Numbered 649, Seventy-eighth Congress, Second Session, except as provided in Section 12649, at an estimated additional cost to the State of three million three hundred twenty-six thousand dollars (\$3,326,000), or such other project as shall finally be decided upon which will accomplish the same flood control purposes as proposed by the Table Mountain Dam or any other dam across the Sacramento River in the same general vicinity, subject to modification that may hereafter be made by Congress.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12649.1

12649.1. The project for flood protection on the Sacramento River is further adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in Senate Document Numbered 103, 86th Congress, and as modified by the act of Congress, Public Law 86-645, 86th Congress, approved July 14, 1960, for cooperation by the Reclamation Board as provided in Section 8617.1 at an estimated cost to the state of such sums as may be appropriated for state participation by the Legislature upon recommendation and advice of the Reclamation Board. This authorization shall not be deemed to confer preference on this project over the needs of other statewide programs in appropriations of available funds.

(Amended by Stats. 1967, Ch. 1596.)



State of California

WATER CODE

Section 12649

12649. It is the intention of the Legislature that, if a feasible plan can be found which will provide adequate flood control in the upper Sacramento Valley without the necessity of constructing a dam across the Sacramento River at the Table Mountain site, or any other site in the same general vicinity and thereby prevent the necessity of flooding valuable agricultural land and at the same time prevent damage to the fishing resources of the Sacramento River, such alternate plan should be adopted.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12650

12650. The plan of improvement for flood protection on various streams in the Merced County Stream Group in the San Joaquin Valley is adopted and authorized substantially in accordance with recommendations of the Chief of Engineers in House Document Numbered 473, Seventy-eighth Congress, Second Session, at an estimated cost to the State of sixty-one thousand three hundred dollars (\$61,300).

Notwithstanding any estimated cost to the State contained in this section, local cooperation which shall be furnished by the State in connection with the plan of improvement for flood protection on various streams in the Merced County Stream Group in the San Joaquin Valley, adopted and authorized under this section shall include, without limitation as to the generality thereof:

(a) Enlargement of the channel of Miles Creek to the extent indicated on Inclosure 3 of House Document Numbered 473, Seventy-eighth Congress, Second Session.

(b) Acquisition of lands, easements and rights of way necessary for construction of the following diversions to the capacities indicated:

(1) Owens Creek Diversion, 400 cubic feet per second.

(2) Black Rascal Diversion, 3,000 cubic feet per second.

(c) Providing the following channel capacities of the various creeks:

(1) Burns Creek: 2,000 cubic feet per second on Burns Creek from its confluence with Bear Creek upstream to the section line common to Sections 3 and 10, T. 7 S., R. 15 E., M. D. B. & M.

(2) Bear Creek: 2,000 cubic feet per second from its confluence with Burns Creek upstream to the section line common to Sections 11 and 12, T. 7 S., R. 15 E., M. D. B. & M.; 4,000 cubic feet per second from its confluence with Black Rascal Creek Diversion upstream to its confluence with Burns Creek; 7,000 cubic feet per second from its confluence with the head of Black Rascal Slough to the Black Rascal Creek Diversion; not less than 3,100 cubic feet per second from its confluence with the lower end of Black Rascal Slough to the confluence with the head of Black Rascal Slough, so that the combined capacity of Bear Creek and Black Rascal Slough is not less than 7,000 cubic feet per second; 7,000 cubic feet per second from the section line common to Sections 2 and 3, T. 8 S., R. 12 E., M. D. B. & M., upstream to the confluence of Bear Creek with the lower end of Black Rascal Slough.

(3) Black Rascal Slough: Not less than 3,900 cubic feet per second and so that the combined capacity of Black Rascal Slough and Bear Creek is not less than 7,000 cubic feet per second.

(4) Miles Creek: 1,000 cubic feet per second from the Merced-El Nido Highway upstream to the section line common to Sections 25 and 26, T. 7 S., R. 15 E., M. D. B. & M.

(5) Owens Creek: 400 cubic feet per second from Owens Creek Diversion to the bridge crossing at the section line common to Sections 29 and 30, T. 7 S., R. 16 E., M. D. B. & M.

(6) Mariposa Creek: 1,000 cubic feet per second from Owens Creek Diversion upstream to the bridge located in SW. $\frac{1}{4}$ of Section 10, T. 8 S., R. 16 E., M. D. B. & M.; 1,250 cubic feet per second from El Nido Highway upstream to Owens Creek Diversion.

(Amended by Stats. 1953, Ch. 1118.)



State of California

WATER CODE

Section 12651

12651. The plan of improvement for flood control and other purposes on the Lower San Joaquin River and tributaries, including Tuolumne and Stanislaus Rivers, is adopted and authorized in accordance with the recommendations of the Chief of Engineers in Flood Control Committee Document Numbered 2, Seventy-eighth Congress, Second Session, at an estimated cost to the State of eight hundred ninety-four thousand dollars (\$894,000).

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12652

12652. The plan of improvement for flood control and other purposes on the Calaveras River and Littlejohn Creek and tributaries is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in House Document Numbered 545, Seventy-eighth Congress, Second Session, at an estimated cost to the State of two hundred four thousand dollars (\$204,000).

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12653

12653. The plan of improvement on the Calaveras River and Littlejohn Creek includes the enlargement of channels of Littlejohn Creek below the Farmington Dam as subsequently approved by letter of the Chief of Engineers dated November 12, 1951, at an additional estimated cost to the State of such sum as may be available for state cooperation for that purpose in the Flood Control Emergency Fund, pursuant to written authorization of the Department of Finance for Flood Control projects, payable from the Flood Control Fund of 1946, upon approval of the general plan for such channel enlargements by, and the recommendation of, the department, or as may be otherwise appropriated for state cooperation by the Legislature, payable from the Flood Control Fund of 1946, upon approval of the general plan for such channel enlargements by, and with the recommendation of, the department.

(Amended by Stats. 1957, Ch. 1932.)



State of California

WATER CODE

Section 12654

12654. The project for the Fresno County Stream Group for flood control is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in House Document Numbered 845, Seventy-sixth Congress, Third Session, at an estimated cost to the State of one hundred seventy-nine thousand five hundred dollars (\$179,500).

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12655

12655. The City and County of San Francisco, the Modesto Irrigation District, and the Turlock Irrigation District shall give assurances satisfactory to the Secretary of War that the local cooperation required by Section 3 of the act of Congress approved December 22, 1944 (Public, Numbered 534, Seventy-eighth Congress, Second Session), will be furnished by the City and County of San Francisco, the Modesto Irrigation District, and the Turlock Irrigation District in connection with the flood control projects within the watershed of the Tuolumne River, adopted and authorized in Section 12651, except insofar as the projects include channel improvement works and levees.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12656.5

12656.5. The project for flood protection on Middle Creek, California, is hereby authorized and adopted substantially in accordance with the recommendation of the Chief of Engineers in House Document numbered 367, Eighty-first Congress, and adopted and authorized by the act of Congress approved August 17, 1954, at an estimated state cost of seven hundred ninety thousand dollars (\$790,000).

(Added by Stats. 1955, Ch. 1959.)



State of California

WATER CODE

Section 12656.6

12656.6. The Reclamation Board is authorized to provide any assurances to the Secretary of the Army which may be required in connection with the accomplishment of emergency repair work under Public Law 99, 84th Congress, 1st Session, approved June 28, 1955, or any acts amending or adding to the same, now or hereafter adopted, for projects which the Reclamation Board is authorized to provide assurances under Section 12657. The Reclamation Board is also authorized to utilize any available appropriation it may have for the purpose of acquiring any lands, easements and rights of way necessary to the execution of any such repair work for which assurances have been required by the Secretary of the Army.

(Added by Stats. 1961, Ch. 1715.)



State of California

WATER CODE

Section 12656.7

12656.7. The Reclamation Board is authorized to provide any assurances to the Secretary of the Army which may be required in connection with the accomplishment of flood control or clearing work on the channel of the Sacramento and San Joaquin Rivers and their tributaries, pursuant to Section 208 of Public Law 780, 83rd Congress, 2nd Session, approved September 3, 1954, or any acts amending or adding to the same now or hereafter adopted, or with the accomplishment of any federal emergency flood control work on state-owned property. This authorization is subject to the provisions of Section 12828.

(Added by Stats. 1969, Ch. 1284.)



State of California

WATER CODE

Section 12656

12656. The City and County of San Francisco, the Modesto Irrigation District, and the Turlock Irrigation District, in conjunction with the War Department, shall execute the plans and projects within the watershed of the Tuolumne River, referred to in Section 12651, except insofar as the plans and projects relate to channel improvement works and levees, and may make such modifications to the plans as may be necessary to execute them for the purposes of Chapters 1 and 2 of this part.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12657

12657. (a) Except as otherwise provided in Chapter 1 (commencing with Section 12570) and this chapter, the Reclamation Board shall give assurances satisfactory to the Secretary of the Army that the local cooperation, required by Section 3 of the act of Congress approved December 22, 1944 (P.L. 534, 78th Congress, Second Session), Section 2 of the act of Congress approved August 18, 1941 (P.L. 228, 78th Congress, First Session), and Section 103 of the act of Congress approved November 17, 1986 (P.L. 99-662, 99th Congress, Second Session) will be furnished by the state in connection with the flood control projects authorized and adopted in Sections 12648, 12648.1, 12648.2, 12648.3, 12648.4, 12648.5, 12648.6, 12648.7, 12649.1, 12650, 12651, 12652, 12654, 12656.5, 12661.2, 12661.5, 12666, 12667, 12670.2, 12670.7, 12670.10, 12670.14, and 12670.20 and on any flood control projects on any stream flowing into or in the Sacramento Valley or the San Joaquin Valley heretofore or hereafter approved and authorized by Congress.

(b) Assurances provided pursuant to subdivision (a) shall not be made until the local agency, by binding agreement with the Reclamation Board, has agreed to assume all obligations under Sections 12585 to 12585.5, inclusive.

(Amended by Stats. 2000, Ch. 1071, Sec. 8. Effective January 1, 2001.)



State of California

WATER CODE

Section 12658

12658. Except as otherwise provided in Chapters 1 and 2 of this part, the Reclamation Board, in conjunction with the War Department, shall execute the plans and projects referred to in Section 12657 and exercise all powers granted to it in Part 4, Division 5, of this code. The Reclamation Board may make such modifications and amendments to the plans as may be necessary to execute them for the purposes stated in Chapters 1 and 2 of this part.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12659

12659. The project for the Folsom Reservoir on the American River is adopted and authorized substantially in accordance with the plans contained in House Document Numbered 649, Seventy-eighth Congress, Second Session, with such modifications as in the discretion of the Secretary of War and the Chief of Engineers may be advisable, and without cost to the State.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12660

12660. The project for the Isabella Reservoir on the Kern River for flood control and other purposes in the San Joaquin Valley is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in his report dated January 26, 1944, contained in House Document Numbered 513, Seventy-eighth Congress, Second Session, without cost to the State.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12661.2

12661.2. (a) The project for flood control on the Tule River, Success Reservoir Enlargement Project, is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers of the United States Army Corps of Engineers, in the report "Tule River Basin Investigation, California, Feasibility Report," dated April 1999, at an estimated cost to the state of the sum that may be appropriated by the Legislature for state cooperation, upon the recommendation and advice of the Reclamation Board.

(b) The agencies that are parties to the Tule River Improvement Joint Powers Agreement may, in lieu of the Reclamation Board, give assurances satisfactory to the Secretary of the Army that the nonfederal cooperation required by federal law will be furnished in connection with the project for flood control adopted and authorized in subdivision (a).

(c) The agencies that are parties to the Tule River Improvement Joint Powers Agreement, in conjunction with the Department of the Army, may, in lieu of the Reclamation Board, carry out the design and construction of the Success Reservoir Enlargement Project and may make modifications and amendments as necessary to carry out the project for the purposes of Chapter 1 (commencing with Section 12570) and this chapter.

(Added by Stats. 2000, Ch. 1071, Sec. 9. Effective January 1, 2001.)



State of California

WATER CODE

Section 12661.5

12661.5. (a) The project for flood control on the Kaweah River, Terminus Dam, is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers, in the report "Kaweah River Basin Investigation Feasibility Study, California," dated December 23, 1996, and as adopted and authorized by the Water Resources Development Act of 1996 as approved by Congress on October 12, 1996 (Public Law 104-303), at an estimated cost to the state of the sum that may be appropriated by the Legislature for state participation, upon the recommendation and advice of the Reclamation Board. The Reclamation Board may pay 50 percent of the nonfederal capital costs of the recreation and fish and wildlife enhancement features of the project.

(b) The Kaweah Delta Water Conservation District may, in lieu of the Reclamation Board, give assurances satisfactory to the Secretary of the Army that the local cooperation required by federal law, including the Water Resources Development Act of 1996, will be furnished in connection with the project.

(c) The Kaweah Delta Water Conservation District, in conjunction with the Department of the Army, may, in lieu of the Reclamation Board, carry out the plans and project and may make modifications and amendments of the plans as necessary to carry out the plans for the purposes of Chapter 1 (commencing with Section 12570) and this chapter.

(d) Authorization of the project shall be contingent upon the recommendation, advice, and approval of the Reclamation Board and upon the expenditure of two hundred thousand dollars (\$200,000) by the department for local assistance for the project.

(Added by Stats. 1997, Ch. 189, Sec. 2. Effective January 1, 1998.)



State of California

WATER CODE

Section 12661

12661. The plan for the Terminus and Success Reservoirs on the Kaweah and Tule Rivers for flood control and other purposes in the San Joaquin Valley is adopted and authorized in accordance with the recommendations of the Chief of Engineers in Flood Control Committee Document Numbered 1, Seventy-eighth Congress, Second Session.

(Added by Stats. 1953, Ch. 196.)



State of California

WATER CODE

Section 12662.1

12662.1. The Kings River Conservation District shall give assurances satisfactory to the Secretary of the Army that the local cooperation, required by the act of Congress approved December 22, 1944 (Public Law 78-534, the "Flood Control Act of 1944"), as modified by Design Memorandum No. 3, Kings River and Tulare Lake, California, Kings River Channel Improvement, General Design, dated April 20, 1959, and by Letter Supplement No. 1 to such Design Memorandum No. 3, will be furnished by the district in connection with the plan of improvement for flood control adopted and authorized in Section 12662.

(Added by Stats. 1974, Ch. 704.)



State of California

WATER CODE

Section 12662.2

12662.2. The Kings River Conservation District, in conjunction with the Department of the Army, shall execute the plan of improvement for flood control referred to in Section 12662 and exercise all powers granted to it in the Kings River Conservation District Act (Chapter 931, Statutes of 1951), and the district may make such modifications or amendments to the plans as may be necessary to execute them for the purposes of Chapters 1 (commencing with Section 12570) and 2 (commencing with Section 12639) of this part. The department shall have authority and is hereby authorized to enter into an agreement with the local agency pursuant to Section 12585.4. Notwithstanding the provisions of Sections 12585.2 and 12585.3 the local agency may receive credit against its share of the costs of lands, easements, and rights-of-way required for the project which were acquired by the local agency after July 1, 1967.

(Added by Stats. 1974, Ch. 704.)



State of California

WATER CODE

Section 12662

12662. The project for flood control and other purposes for the Kings River and Tulare Lake Basin is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in House Document Number 630, Seventy-sixth Congress, Third Session, as adopted and authorized by the act of Congress approved December 22, 1944 (Public Law 78-534, the "Flood Control Act of 1944"), as modified by data in the Design Memorandum No. 3, Kings River and Tulare Lake, California, Kings River Channel Improvement, General Design, dated April 20, 1959, and by Letter Supplement No. 1 to such Design Memorandum No. 3, by the District Engineer, Sacramento District, Corps of Engineers, at no cost to the state prior to July 1, 1967, and thereafter at an estimated cost to the state of such sums as may be appropriated for state cooperation by the Legislature upon the recommendation and advice of the department. This authorization shall not be deemed to confer preference on this project over the needs of other statewide programs in appropriations of available funds.

It is the intent of the Legislature that the state shall share only in costs for work done in accordance with Letter Supplement No. 1 to such Design Memorandum No. 3.

(Amended by Stats. 1974, Ch. 704.)



State of California

WATER CODE

Section 12663

12663. The plan of improvement for flood control and water conservation on Cache Creek, including Clear Lake, in Yolo and Lake Counties, is hereby adopted and authorized generally in accordance with the recommendations relating thereto contained in the interim report of the Department of Water Resources entitled "Comparison of Alternative Wilson Valley and Guinda Projects on Cache Creek," dated April, 1958, at an estimated cost to the State of such sum as may be appropriated for state co-operation by the Legislature upon the recommendation and advice of the department.

(Amended by Stats. 1959, Ch. 2056.)



State of California

WATER CODE

Section 12664

12664. The project for the Beach-Stone Lake Unit of the Morrison Creek Stream Group Flood Control Project is adopted and authorized substantially in accordance with the plans developed by the County of Sacramento at such estimated cost to the state as may be appropriated for state cooperation by the Legislature upon the recommendation and advice of the department. This authorization shall not be deemed to confer preference on this project over the needs of other statewide programs in appropriation of available funds.

(Added by Stats. 1967, Ch. 1569.)



State of California

WATER CODE

Section 12665

12665. With respect to the project authorized in Section 12664, the County of Sacramento shall acquire the lands, easements, and rights-of-way, even though the project report has not been submitted by the Secretary of the Army or other authorized official to the Congress for project authorization, and may make application to the department for reimbursement pursuant to Section 12829 upon inclusion of the Beach-Stone Lake Unit of the Morrison Creek Stream Group Flood Control Project as part of a flood control project authorized by Congress. Prior to the acquisition of any lands, easements, or rights-of-way for the project, the County of Sacramento shall execute an agreement with the department under which it agrees to hold the state harmless from damages due to the construction, operation, or maintenance of the project.

(Added by Stats. 1967, Ch. 1569.)



State of California

WATER CODE

Section 12666

12666. The project for flood protection on the streams in the vicinity of Fairfield, California, is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in House Document No. 91-159, 91st Congress, First Session, and adopted and authorized by the act of Congress approved December 31, 1970 (Public Law 91-611) at an estimated cost to the state of such sums as may be appropriated for state participation by the Legislature upon the recommendation and advice of the Reclamation Board. This authorization shall not be deemed to confer preference on this project over the needs of other statewide programs in appropriations of available funds. No state funds shall be appropriated until federal advanced engineering and design funds are available.

Notwithstanding the provisions of Section 12585.4, the Reclamation Board shall have the authority and is hereby authorized to enter into a loan agreement with the local agency pursuant to Section 12585.4. The state is authorized to pay 50 percent of the nonfederal capital costs of the recreation and fish and wildlife enhancement features of the project pursuant to Section 12847.

(Added by Stats. 1974, Ch. 183.)



State of California

WATER CODE

Section 12667

12667. The project for flood control known as the Merced County Streams Project is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers in his report dated November 25, 1970, and adopted and authorized by the Act of Congress approved December 31, 1970 (Public Law 91-611) at an estimated cost to the state of such sums as may be appropriated for state participation by the Legislature upon the recommendation and advice of the Reclamation Board. This authorization shall not be deemed to confer preference on this project over the needs of other statewide programs in appropriations of available funds. No state funds shall be appropriated until federal construction funds are available, and no state funds shall be appropriated for any portion or unit of the project until the responsible local agency has provided assurances of financial capability to complete the recreational acquisition and development program for that portion or unit, as detailed in the project report.

The Legislature affirms the topographical and hydrologic characteristics of the Merced County Stream Group for which provision for participation in reservoirs has been made in Section 12826 and determines that the Merced County Streams Project is a project of the Merced County Stream Group, as defined and excepted in Section 12826. The Reclamation Board may loan the local agency the funds necessary to pay the local portion of the costs of the lands, easements, and rights-of-way. The rate of interest on the loan shall be the current rate for the Pooled Money Investment Account. All other provisions of Section 12585.4 shall be applicable to a loan to the local agency under this section.

Any money previously appropriated to the department for the Merced Stream Channel Improvement shall be available for the purposes of this section, including that reappropriated from the Special Account for Capital Outlay in Item 3860-490-036(2) of the Budget Act of 1986 (Chapter 186 of the Statutes of 1986).

(Amended by Stats. 1986, Ch. 819, Sec. 1. Effective September 15, 1986.)



State of California

WATER CODE

Section 12668

12668. (a) The project for flood control on the San Joaquin River is adopted and authorized substantially in accordance with P.L. 98-63, at a federal cost of approximately eight million dollars (\$8,000,000), for the accomplishment of selective clearing and snagging work in the San Joaquin Channel, from Friant Dam to the Stockton Deep Water Channel, and in that area of the North Fork of the Kings River and Mendota Pool from the southerly boundary of the James Reclamation District No. 1606 to Mendota Dam. Because of the unique situation presented by this project, the department shall maintain and operate, on behalf of the state, the work performed by the Corps of Engineers on this project, and the cost of that maintenance and operation shall be borne by the state.

(b) Any assurance agreement entered into between the Secretary of the Army and the Reclamation Board for this project shall provide for mitigation of the impact of the project with the objective of providing a net long-term enhancement of the riparian habitat and fishery in the project area.

(c) It is the intent of the Legislature, in reviewing future projects, to improve the capacity of the San Joaquin River to provide for mitigation of the impact of the project and net long-term enhancement of the riparian habitats and fisheries in the project area.

(d) The Legislature finds and declares that the local responsibility of maintenance of this and future federal projects in and along the San Joaquin River may be better, more efficiently, and more fairly fulfilled by geographically larger, or regional, local public entities. The Legislature, therefore, directs the Reclamation Board, in coordination with the department, to study the possibility of creating, by a joint powers agreement or by special act of the Legislature, one or more regional districts to undertake at a future time local maintenance responsibility for this project. The Reclamation Board shall report its findings to the Legislature not later than December 31, 1985.

(Amended by Stats. 1988, Ch. 1488, Sec. 3.)



State of California

WATER CODE

Section 12669.1

12669.1. The Fresno Metropolitan Flood Control District may, in lieu of the Reclamation Board, give assurances satisfactory to the Secretary of the Army that the local cooperation required by House Document Numbered 98-147 will be furnished in connection with the project for flood control adopted and authorized in Section 12669.

(Added by Stats. 1985, Ch. 1229, Sec. 2. Effective September 30, 1985.)



State of California

WATER CODE

Section 12669.2

12669.2. The Fresno Metropolitan Flood Control District, in conjunction with the Department of the Army, may, in lieu of the Reclamation Board, execute the plans and project referred to in Section 12669 and may make modifications and amendments to the plans as may be necessary to execute the plans for the purposes of Chapter 1 (commencing with Section 12570) and this part.

(Added by Stats. 1985, Ch. 1229, Sec. 3. Effective September 30, 1985.)



State of California

WATER CODE

Section 12670.2

12670.2. (a) The project for flood protection on the Sacramento River for the City of West Sacramento is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers, in the report "Sacramento Metro Area, California" dated June 29, 1992, and as adopted and authorized by the act of Congress approved October 31, 1992 (Public Law 102-580), at an estimated cost to the state of the sum that may be appropriated by the Legislature for state participation, upon the recommendation and advice of the department or the Reclamation Board.

(b) The department or the Reclamation Board may pay 50 percent of the nonfederal capital costs of the recreation and fish and wildlife enhancement features of the project.

(Added by Stats. 1993, Ch. 1107, Sec. 2. Effective January 1, 1994.)



State of California

WATER CODE

Section 12670.3

12670.3. The City of West Sacramento, or a joint power authority formed by the City of West Sacramento and Reclamation Districts 537 and 900, may, in lieu of the Reclamation Board, give assurances satisfactory to the Secretary of the Army that the local cooperation required by the Water Resources Development Act of 1992 (Public Law 102-580) will be furnished in connection with the project for flood control adopted and authorized in Section 12670.2.

(Added by Stats. 1993, Ch. 1107, Sec. 3. Effective January 1, 1994.)



State of California

WATER CODE

Section 12670.4

12670.4. The City of West Sacramento, or joint power authority formed by the City of West Sacramento and Reclamation Districts 537 and 900, in conjunction with the Department of the Army, may, in lieu of the Reclamation Board, carry out the plans and project referred to in Section 12670.2 and may make modification and amendments to the plans as may be necessary to carry out the plans for the purposes of Chapter 1 (commencing with Section 12570) and this chapter.

(Added by Stats. 1993, Ch. 1107, Sec. 4. Effective January 1, 1994.)



State of California

WATER CODE

Section 12670.7

12670.7. (a) The project for flood protection along the Feather River and Yuba River is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers of the United States Army Corps of Engineers, in the report entitled "Yuba River Basin Investigation, California Feasibility Report."

(b) Notwithstanding subdivision (e) of Section 12585.5, the nonfederal engineering costs and the nonfederal design costs required by Section 2215 (b) and (c) of Title 33 of the United States Code, with regard to the project described in subdivision (a), are eligible for reimbursement by the state before federal and state authorization and before the appropriation of construction funds by Congress.

(c) Funds shall be appropriated for the project in the annual Budget Act.

(Added by Stats. 2000, Ch. 1071, Sec. 10. Effective January 1, 2001.)



State of California

WATER CODE

Section 12670.8

12670.8. (a) The project for flood protection measures on the Upper Guadalupe River in Santa Clara County is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers of the United States Army Corps of Engineers in a report dated August 19, 1998, or as that report may be subsequently modified, at an estimated cost to the state of the sum that may be appropriated by the Legislature for state cooperation, upon the recommendation and advice of the department. The department may pay 50 percent of the nonfederal capital costs of the recreation and fish and wildlife enhancement features of the project.

(b) The Santa Clara Valley Water District shall give assurances satisfactory to the Secretary of the Army that local cooperation required by the final report of the Chief of Engineers of the United States Army Corps of Engineers will be furnished by the district in connection with the project for flood control adopted and authorized in subdivision (a).

(c) The Santa Clara Valley Water District, in conjunction with the Department of the Army, shall carry out the plans and project and may make modifications and amendments to the plans as necessary to carry out the plans for the purposes of Chapter 1 (commencing with Section 12570) and this chapter.

(Added by Stats. 2000, Ch. 1071, Sec. 11. Effective January 1, 2001.)



State of California

WATER CODE

Section 12670.10

12670.10. The project for flood protection along the American River is adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers, in the report entitled "American River Watershed, California" dated June 27, 1996, and as adopted and authorized by Congress on October 12, 1996, in Section 101 of the Water Resources Development Act of 1996 (P.L. 104-303), at an estimated cost to the state of the sum that may be appropriated by the Legislature for state participation, upon the recommendation and advice of the department or the Reclamation Board.

(Added by Stats. 1997, Ch. 297, Sec. 2. Effective August 18, 1997.)



State of California

WATER CODE

Section 12670.11

12670.11. (a) (1) The project for flood damage reduction and environmental restoration in the American River watershed in Sacramento County is adopted and authorized substantially in accordance with Congressional approval and the final report of the Chief of Engineers dated November 5, 2002, as authorized by Section 128 of the Energy and Water Development Appropriations Act, 2004 (P.L. 108-137), at an estimated cost to the state of the sum that may be appropriated for state cooperation by statute, upon the recommendation and advice of the department or the Reclamation Board.

(2) The project includes the construction of a new bridge with an estimated cost of sixty-six million dollars (\$66,000,000), of which thirty-six million dollars (\$36,000,000) is allocated to flood damage reduction and dam safety.

(3) The state's share of the bridge project cost shall be at least five million, two hundred thousand dollars (\$5,200,000), but not more than nine million dollars (\$9,000,000), of the project amount that is allocated to flood damage reduction.

(4) The calculation of the state's share of the funding pursuant to paragraph (3) shall be determined by the federal government's allocation of the costs of the bridge to the dam safety features of the project.

(b) The Sacramento Area Flood Control Agency shall enter into an agreement with the department pursuant to which the agency agrees to indemnify and hold and save harmless the state, its officers, agents, and employees for any and all liability for damages that may arise out of the planning, design, construction, operation, maintenance, repair, and rehabilitation of the project.

(c) The City of Folsom shall serve as the nonfederal sponsor of the bridge authorized as part of the project and shall enter into an agreement with the department to receive the state's proportionate share of the cost of the bridge and to indemnify and hold and save harmless the state, its officers, agents, and employees for any and all liability for damages that may arise out of the planning, design, construction, operation, maintenance, repair, and rehabilitation of the bridge.

(Amended by Stats. 2005, Ch. 584, Sec. 1. Effective January 1, 2006.)



State of California

WATER CODE

Section 12670.12

12670.12. With regard to the project for flood control authorized in Section 12670.10, the Sacramento Area Flood Control Agency may join the department or the Reclamation Board in providing the Secretary of the Army with the assurances of nonfederal cooperation required by the Water Resources Development Act of 1996, and may, in conjunction with the Department of the Army, carry out the project with the modifications and amendments that may be necessary to fulfill the purposes of Chapter 1 (commencing with Section 12570) and this chapter. The Sacramento Area Flood Control Agency shall be reimbursed pursuant to Section 12585.5 for any project costs that the agency advances on behalf of the department or the Reclamation Board, provided that prior to any such reimbursement, the agency shall execute an agreement with the department under which it agrees to indemnify and hold the state harmless from damages due to the construction, operation, or maintenance of the project and agrees to operate, maintain, repair, replace, and rehabilitate the project.

(Added by Stats. 1997, Ch. 297, Sec. 3. Effective August 18, 1997.)



State of California

WATER CODE

Section 12670.14

12670.14. The following projects in areas within the City of Sacramento and the Counties of Sacramento and Sutter are adopted and authorized at an estimated cost to the state of the sum that may be appropriated by the Legislature for state participation upon the recommendation and advice of the department or the Central Valley Flood Protection Board:

(a) The project for flood control in the Natomas and North Sacramento areas adopted and authorized by Congress in Section 9159 of the Department of Defense Appropriations Act of 1993 (Public Law 102-396) substantially in accordance with the recommendations of the Chief of Engineers in the report entitled "American River Watershed Investigation" dated July 1, 1992.

(b) The project for flood control along the American and Sacramento Rivers adopted and authorized by Congress in Section 101(a)(1) of the Water Resources Development Act of 1996 (Public Law 104-303) substantially in accordance with the recommendations of the Chief of Engineers in the report entitled "American River Watershed Project, California" dated June 27, 1996, as modified by Congress in Section 366 of the Water Resources Development Act of 1999 (Public Law 106-53), as further modified to include the project features necessary to provide a 200-year level of flood protection along the American and Sacramento Rivers and within the Natomas Basin as described in the Final Engineer's Report dated April 19, 2007, adopted by the Sacramento Area Flood Control Agency, and as further modified by the 2010 final feasibility study for the American River Watershed, Common Features Project, Natomas Basin, adopted by Congress in Section 7002 of the Water Resources Reform and Development Act of 2014 (Public Law 113-121).

(c) The project to modify Folsom Dam adopted and authorized by Congress in Section 101(a)(6) of the Water Resources Development Act of 1999 (Public Law 106-53), as described in the United States Army Corps of Engineers Supplemental Information Report for the American River Watershed Project, California, dated March 1996, as modified by the report entitled "Folsom Dam Modification Report, New Outlets Plan," dated March 1998, prepared by the Sacramento Area Flood Control Agency, and as further modified by the Post-Authorization Change Report, American River Watershed Project (Folsom Dam Modification and Folsom Dam Raise Projects), dated March 2007, adopted by Congress in Section 3029 of the Water Resources Development Act of 2007 (Public Law 110-114).

(d) (1) The project for flood control, environmental restoration, and recreation along south Sacramento County streams adopted and authorized by Congress in Section 101(a)(8) of the Water Resources Development Act of 1999 (Public Law

106-53) as described in the report of the Chief of Engineers entitled "South Sacramento County Streams, California" dated October 6, 1998.

(2) Notwithstanding Section 12657, at the discretion of the Central Valley Flood Protection Board, the Sacramento Area Flood Control Agency may provide, for the project described in paragraph (1), the assurances of local cooperation satisfactory to the Secretary of the Army, in accordance with Section 12657, in lieu of assurances by the Central Valley Flood Protection Board.

(Amended by Stats. 2015, Ch. 674, Sec. 2. (SB 144) Effective January 1, 2016.)



State of California

WATER CODE

Section 12670.16

12670.16. (a) Notwithstanding any other provision of law, the Sacramento Area Flood Control Agency's share of the nonfederal capital costs of the projects for flood control authorized in Section 12670.14 shall be calculated in accordance with Section 12585.5, and the agency shall be reimbursed pursuant to Section 12585.5 for any costs of project features that the agency advances on behalf of the department or Reclamation Board if either of the following requirements is met:

(1) The advances are made in response to a federal request for payment of the nonfederal share of the cost of the project.

(2) If the advances are made for project features that have not yet been authorized by Congress, the Reclamation Board has received a written determination by the federal government that the project features will likely be authorized by Congress and, if so authorized, the advances will be eligible for credit toward the nonfederal share of the cost of these features.

(b) Prior to any reimbursement pursuant to subdivision (a), the agency shall execute an agreement with the department under which it agrees to indemnify and hold the state harmless from damages due to the construction, operation, or maintenance of those projects and agrees to operate, maintain, repair, replace, and rehabilitate those projects, or provide the agreement of its appropriate member agency to do so.

(Amended by Stats. 2007, Ch. 641, Sec. 3. Effective January 1, 2008.)



State of California

WATER CODE

Section 12670.20

12670.20. (a) The projects for flood protection and integrated resource management in the Colusa Basin are adopted and authorized substantially in accordance with the "Colusa Basin Water Management Program" dated February 1995 and its final environmental documentation, at an estimated cost to the state of the sum that may be appropriated by the Legislature for state participation, upon the recommendation and advice of the department or the Reclamation Board.

(b) The state, any local public agency, or other entity may cooperate with any federal agency with regard to the planning, design, environmental compliance, financing, and construction of projects authorized in subdivision (a).

(c) No state funds shall be expended for the projects described in subdivision (a) unless both of the following requirements are met:

(1) Required environmental documentation has been completed.

(2) The Reclamation Board has approved the Colusa Basin Water Management Program and the projects described in subdivision (a).

(d) Except as specified in subdivision (c), for projects authorized in subdivision (a), the state shall pay both of the following:

(1) That portion of nonfederal capital costs attributable to flood control required by Section 12585.5, or that may be required by amendment to Chapter 1 (commencing with Section 12570).

(2) That portion of nonfederal costs for fish, wildlife, and recreational enhancement features established by Chapter 3.5 (commencing with Section 12840).

(e) If required by the Secretary of the Interior, the Reclamation Board may give assurances satisfactory to the Secretary of the Interior that the local cooperation authorized in subdivision (b) will be furnished by the state in connection with the flood control and fish, wildlife, and recreational enhancement features of the projects described in subdivision (a). Assurances provided pursuant to this subdivision may not be made until the local agency, by binding agreement with the Reclamation Board, has agreed to assume all obligations under Sections 12585 to 12585.5, inclusive, and Section 12642, or that may be required by amendment to Chapter 1 (commencing with Section 12570).

(f) The Colusa Basin Drainage District, or other appropriate local agency, shall establish and maintain a coordinated land use planning and decisionmaking process within the watershed to avoid unmitigated hydraulic impacts.

(Added by Stats. 2000, Ch. 1071, Sec. 14. Effective January 1, 2001.)



State of California

WATER CODE

Section 12670.22

12670.22. (a) The state may provide funds for the Middle Creek Flood Damage Reduction and Ecosystem Restoration Project in Lake County substantially in accordance with the Flood Damage Reduction and Environmental Restoration, Middle Creek, Lake County, California: Report of the Chief of Engineers of the United States Army Corps of Engineers dated November 29, 2004, and as authorized by Section 1001 (11) of the federal Water Resources Development Act of 2007 (Public Law 110-114), at an estimated cost to the state of the sum that may be appropriated for state cooperation by the Legislature upon the recommendations and advice of the Central Valley Flood Protection Board, including payment for any fish and wildlife enhancement features as provided in Section 12847.

(b) Lake County Watershed Protection District shall give assurances satisfactory to the Secretary of the Army that the local cooperation required by state or federal law will be furnished by the district in connection with the project.

(c) Lake County Watershed Protection District, in conjunction with the Department of the Army, shall carry out the plans and project and may make modifications and amendments to the plans as may be required by state or federal law.

(d) Lake County Watershed Protection District shall enter into an agreement with the department pursuant to which the district agrees to indemnify and hold harmless and save the state, and its officers, agents, and employees, from any and all liability for damages that may arise out of the planning, design, construction, operation, maintenance, repair, and rehabilitation of the project.

(e) The authorization granted by this section does not affect any eligibility of Lake County Watershed Protection District to receive state funding made available pursuant to provisions of law other than this part if the receipt of those funds does not result in overpayment for any feature of the project.

(f) The Legislature finds and declares that the project described in subdivision (a) modifies and replaces portions of the project described in Section 12656.5. The project described in subdivision (a) shall constitute a part of the State Plan of Flood Control and the portion of the project described in Section 12656.5 that is replaced by the project described in subdivision (a) shall not constitute a part of the State Plan of Flood Control.

(Added by Stats. 2009, Ch. 216, Sec. 1. (AB 74) Effective January 1, 2010.)



State of California

WATER CODE

Section 12670.23

12670.23. (a) The state may provide funds for the Hamilton City Flood Damage Reduction and Ecosystem Restoration Project in Glenn County substantially in accordance with the Hamilton City Flood Damage Reduction and Ecosystem Restoration, Glenn County, California: Report of the Chief of Engineers of the United States Army Corps of Engineers dated December 22, 2004, and authorized by Section 1001 (8) of the federal Water Resources Development Act of 2007 (Public Law 110-114), at an estimated cost to the state of the sum that may be appropriated for state cooperation by the Legislature upon the recommendations and advice of the Central Valley Flood Protection Board, including payment for any fish and wildlife enhancement features as provided in Section 12847.

(b) Reclamation District No. 2140 shall give assurances satisfactory to the Secretary of the Army that the local cooperation required by state or federal law will be furnished by the district in connection with the project.

(c) Reclamation District No. 2140, in conjunction with the Department of the Army, shall carry out the plans and project and may make modifications and amendments to the plans as may be required by federal or state law.

(d) Reclamation District No. 2140 shall enter into an agreement with the department pursuant to which the district agrees to indemnify and hold harmless and save the state, and its officers, agents, and employees, from any and all liability for damages that may arise out of the planning, design, construction, operation, maintenance, repair, and rehabilitation of the project.

(e) The authorization granted by this section does not affect any eligibility of Reclamation District No. 2140 to receive state funding made available pursuant to provisions of law other than this part if the receipt of those state funds does not result in overpayment for any feature of the project.

(Added by Stats. 2009, Ch. 216, Sec. 2. (AB 74) Effective January 1, 2010.)



State of California

WATER CODE

Section 12670

12670. The Cache Creek Settling Basin Unit of the plan of improvement for flood control and other purposes on Cache Creek is hereby adopted and authorized substantially in accordance with the recommendations of the Chief of Engineers, in the report dated April 27, 1981, and adopted and authorized by the Act of Congress approved November 17, 1986 (Public Law 99-662), at an estimated cost to the state of such sums as may be appropriated for state participation by the Legislature upon the recommendation and advice of the Reclamation Board. This authorization shall not be deemed to confer preference on this project over the needs of other statewide programs in appropriation of available funds. Notwithstanding Section 12585.5, the state shall pay all of the nonfederal costs required by Public Law 99-662. Notwithstanding Sections 12642 and 12828, the state shall maintain and operate the unit and, through the Reclamation Board, shall hold the United States harmless from damages due to the construction of the works. Notwithstanding Section 12847, the state may pay all of the nonfederal capital costs of the recreation and fish and wildlife enhancement features of the unit.

(Added by Stats. 1989, Ch. 935, Sec. 1. Effective September 27, 1989.)



State of California

WATER CODE

Section 12825

12825. When the United States makes funds available on or after March 12, 1946, for the construction of any flood control project either adopted and authorized by Chapters 1 and 2 of this part or by subsequent legislation, any public agency affected may request the department to investigate and report to the Legislature as to the date state funds should be allocated to pay the cost of cooperation by the State with the United States for the project and the estimated amount.

(Amended by Stats. 1957, Ch. 1932.)



State of California

WATER CODE

Section 12826

12826. (a) No money appropriated for flood control projects shall be allocated for the purchase of lands, easements, and rights-of-way necessary for multiple purpose dams or reservoirs constructed by the United States, and authorized by the Legislature prior to January 1, 1987, except the projects on the Fresno and Merced County Stream Groups.

(b) For projects involving dams or reservoirs authorized by the Legislature after January 1, 1987, the state shall pay for the costs of the flood control components of the project as specified in Section 12585.5.

(Amended by Stats. 1988, Ch. 1251, Sec. 4.)



State of California

WATER CODE

Section 12827

12827. As to projects other than those approved and authorized by the Legislature, the department shall make its determination in the manner provided by Chapters 1 and 2 of this part.

(Amended by Stats. 1957, Ch. 1932.)



State of California

WATER CODE

Section 12828

12828. Except where the co-operation required by the United States in addition to the costs of all lands, easements, and rights-of-way, has been authorized to be assumed by the State prior to March 12, 1946, the department shall not reallocate the funds allocated to it, nor shall the Reclamation Board expend any funds appropriated directly to it, for acquisition of property rights or contributions to the United States, for any project for which the Reclamation Board is directed to give assurances to the United States unless and until a public agency other than the Reclamation Board has either assumed the obligations of maintenance and holding the United States harmless from damages due to the construction of works, directly with the United States, or has by binding agreement with the Reclamation Board agreed to assume such obligations and to hold the State and the Reclamation Board harmless from any claims therefor.

This section is not intended to prevent the expenditure of project funds by the Reclamation Board for planning and design engineering, title reports and appraisals, and other incidental expenses required in advance of actual acquisition of property rights.

(Amended by Stats. 1963, Ch. 520.)



State of California

WATER CODE

Section 12829

12829. Money allocated to the department for flood control projects shall be reallocated to public agencies upon order of the department after application therefor has been made to it by such agencies showing the necessity, purpose and use to be made of the money or by the showing that such agencies have made necessary advances or incurred obligations for the purpose of expediting projects for which the allocation is made and giving such other information as the department may require. Expenditures of the reallocated sums shall be reported to the department as and when required by it. The reports shall give such information as it may require.

(Amended by Stats. 1959, Ch. 1285.)



State of California

WATER CODE

Section 12830

12830. The department may refuse to make any order for the reallocation of any of the funds if the provisions of this chapter are violated.

(Amended by Stats. 2001, Ch. 745, Sec. 230.7. Effective October 12, 2001.)



State of California

WATER CODE

Section 12831

12831. The department shall submit to the Controller all approved local agency claims for reimbursement allocations for flood control projects within 90 days of receipt of the claim.

(Added by Stats. 1984, Ch. 1378, Sec. 1. Effective September 26, 1984.)



State of California

WATER CODE

Section 12832

12832. The Controller shall perform an audit of projects completed pursuant to this chapter within nine months after the claim is received by the department. If the Controller is unable to perform the audit within nine months after the claim is submitted by a local agency, the department shall pay at least 90 percent of the claim subject to completion of the audit by the Controller.

(Added by Stats. 1984, Ch. 1378, Sec. 2. Effective September 26, 1984.)



State of California

WATER CODE

Section 12641

12641. Any county, city, state agency or public district is authorized to make agreements with the United States or any of its departments or agencies obligating them to do or perform those things which are required of them by Chapters 1 and 2 of this part and by the act of Congress approved December 22, 1944 (Public, Numbered 534, Seventy-eighth Congress, Second Session), and the act of Congress approved August 18, 1941 (Public, Numbered 228, Seventy-eighth Congress, First Session).

(Added by Stats. 1953, Ch. 196.)



State of California

PUBLIC RESOURCES CODE

Section 5096.805

5096.805. Unless the context otherwise requires, the definitions set forth in this article govern the construction of this chapter.

(a) “Board” means the Reclamation Board or successor entity.

(b) “Committee” means the Disaster Preparedness and Flood Prevention Bond Finance Committee, created by Section 5096.957.

(c) “Delta” means the area of the Sacramento-San Joaquin Delta as defined in Section 12220 of the Water Code.

(d) “Department” means the Department of Water Resources.

(e) “Facilities of the State Plan of Flood Control” means the levees, weirs, channels, and other features of the federally and state-authorized flood control facilities located in the Sacramento River and San Joaquin River drainage basin for which the board or the department has given the assurances of nonfederal cooperation to the United States required for the project, and those facilities identified in Section 8361 of the Water Code.

(f) “Fund” means the Disaster Preparedness and Flood Prevention Bond Fund of 2006, created by Section 5096.806.

(g) “Project levees” means the levees that are part of the facilities of the State Plan of Flood Control.

(h) “Restoration” means the improvement of a physical structure or facility and, in the case of natural system and landscape features, includes, but is not limited to, a project for the control of erosion, the control and elimination of exotic species, including prescribed burning, fuel hazard reduction, fencing out threats to existing or restored natural resources, road elimination, and other plant and wildlife habitat improvement to increase the natural system value of the property. A restoration project shall include the planning, monitoring, and reporting necessary to ensure successful implementation of the project objectives.

(i) “State General Obligation Bond Law” means the State General Obligation Bond Law (Chapter 4 (commencing with Section 16720) of Part 3 of Division 4 of Title 2 of the Government Code).

(j) “State Plan of Flood Control” means the state and federal flood control works, lands, programs, plans, conditions, and mode of maintenance and operations of the Sacramento River Flood Control Project described in Section 8350 of the Water Code, and of flood control projects in the Sacramento River and San Joaquin River watersheds authorized pursuant to Article 2 (commencing with Section 12648) of Chapter 2 of Part 6 of Division 6 of the Water Code for which the board or the department has provided the assurances of nonfederal cooperation to the United States,

which shall be updated by the department and compiled into a single document entitled “The State Plan of Flood Control.”

(k) “Urban area” means any contiguous area in which more than 10,000 residents are protected by project levees.

(Amended by Stats. 2007, Ch. 130, Sec. 199. Effective January 1, 2008.)



State of California

PUBLIC RESOURCES CODE

Section 75030

75030. This chapter is intended to provide the funding needed to address short term flood control needs such as levee inspection and evaluation, floodplain mapping and improving the effectiveness of emergency response, and providing funding for critical immediate flood control needs throughout the state. It is also intended to provide a framework to support long term strategies that will require the establishment of more effective levee maintenance programs, better floodplain management and more balanced allocation of liability and responsibility between the federal, state and local governments.

(Added November 7, 2006, by initiative Proposition 84.)



State of California

PUBLIC RESOURCES CODE

Section 75031

75031. The sum of thirty million dollars (\$30,000,000) shall be available to the department for the purposes of floodplain mapping, assisting local land-use planning, and to avoid or reduce future flood risks and damages. Eligible projects include, but are not limited to:

- (a) Mapping floodplains.
- (b) Mapping rural areas with potential for urbanization.
- (c) Mapping and identification of flood risk in high density urban areas.
- (d) Mapping flood hazard areas.
- (e) Updating outdated floodplain maps.
- (f) Mapping of riverine floodplains, alluvial fans, and coastal flood hazard areas.
- (g) Collecting topographic and hydrographic survey data.

(Added November 7, 2006, by initiative Proposition 84.)



State of California

PUBLIC RESOURCES CODE

Section 75032.4

75032.4. Notwithstanding Section 13340 of the Government Code, the funds allocated in Sections 75031 and 75032 are continuously appropriated to the department for the purposes of those sections.

(Added November 7, 2006, by initiative Proposition 84.)



State of California

PUBLIC RESOURCES CODE

Section 75032.5

75032.5. The sum of forty million dollars (\$40,000,000) shall be available to the department for Flood Protection Corridor projects that are consistent with Water Code Section 79037.

(Added November 7, 2006, by initiative Proposition 84.)



State of California

PUBLIC RESOURCES CODE

Section 75032

75032. The sum of two hundred seventy five million dollars (\$275,000,000) shall be available to the department for the following flood control projects:

(a) The inspection and evaluation of the integrity and capability of existing flood control project facilities and the development of an economically viable flood control rehabilitation plan.

(b) Improvement, construction, modification, and relocation of flood control levees, weirs, or bypasses including repair of critical bank and levee erosion.

(c) Projects to improve the department's emergency response capability.

(d) Environmental mitigation and infrastructure relocation costs related to projects under this section.

(e) To the extent feasible, the department shall implement a multi-objective management approach for floodplains that would include, but not be limited to, increased flood protection, ecosystem restoration, and farmland protection.

(Added November 7, 2006, by initiative Proposition 84.)



State of California

PUBLIC RESOURCES CODE

Section 75033

75033. The sum of two hundred seventy five million dollars (\$275,000,000) shall be available to the department for flood control projects in the Delta designed to increase the department's ability to respond to levee breaches and to reduce the potential for levee failures. The funds provided by this section shall be available for the following purposes:

- (a) Projects to improve emergency response preparedness.
- (b) Local assistance under the delta levee maintenance subventions program under Part 9 (commencing with Section 12980) of Division 6 of the Water Code.
- (c) Special flood protection projects under Chapter 2 (commencing with Section 12310) of Part 4.8 of Division 6 of the Water Code, including projects for the acquisition, preservation, protection and restoration of Delta lands for the purpose of flood control and to meet multiple objectives such as drinking water quality ecosystem restoration and water supply reliability.
- (d) All projects shall be subject to the provisions of Water Code Section 79050.

(Added November 7, 2006, by initiative Proposition 84.)



State of California

PUBLIC RESOURCES CODE

Section 75034

75034. The sum of one hundred eighty million dollars (\$180,000,000) shall be available to the department for the purposes of funding the state's share of the nonfederal costs of flood control and flood prevention projects for which assurances required by the federal government have been provided by a local agency and which have been authorized under the State Water Resources Law of 1945 (Chapter 1 (commencing with Section 12570) and Chapter 2 (commencing with Section 12639) of Part 6 of Division 6 of the Water Code), the Flood Control Law of 1946 (Chapter 3 (commencing with Section 12800) of Part 6 of Division 6 of the Water Code), and the California Watershed Protection and Flood Prevention Law (Chapter 4 (commencing with Section 12850) of Part 6 of Division 6 of the Water Code), including the credits and loans to local agencies pursuant to Sections 12585.3 and 12585.4, subdivision (d) of Section 12585.5, and Sections 12866.3 and 12866.4 of the Water Code, and to implement Chapter 3.5 (commencing with Section 12840) of Part 6 of Division 6 of the Water Code. Projects eligible for funding pursuant to this section shall comply with the requirements of AB 1147 (Statutes of 2000, Chapter 1071).

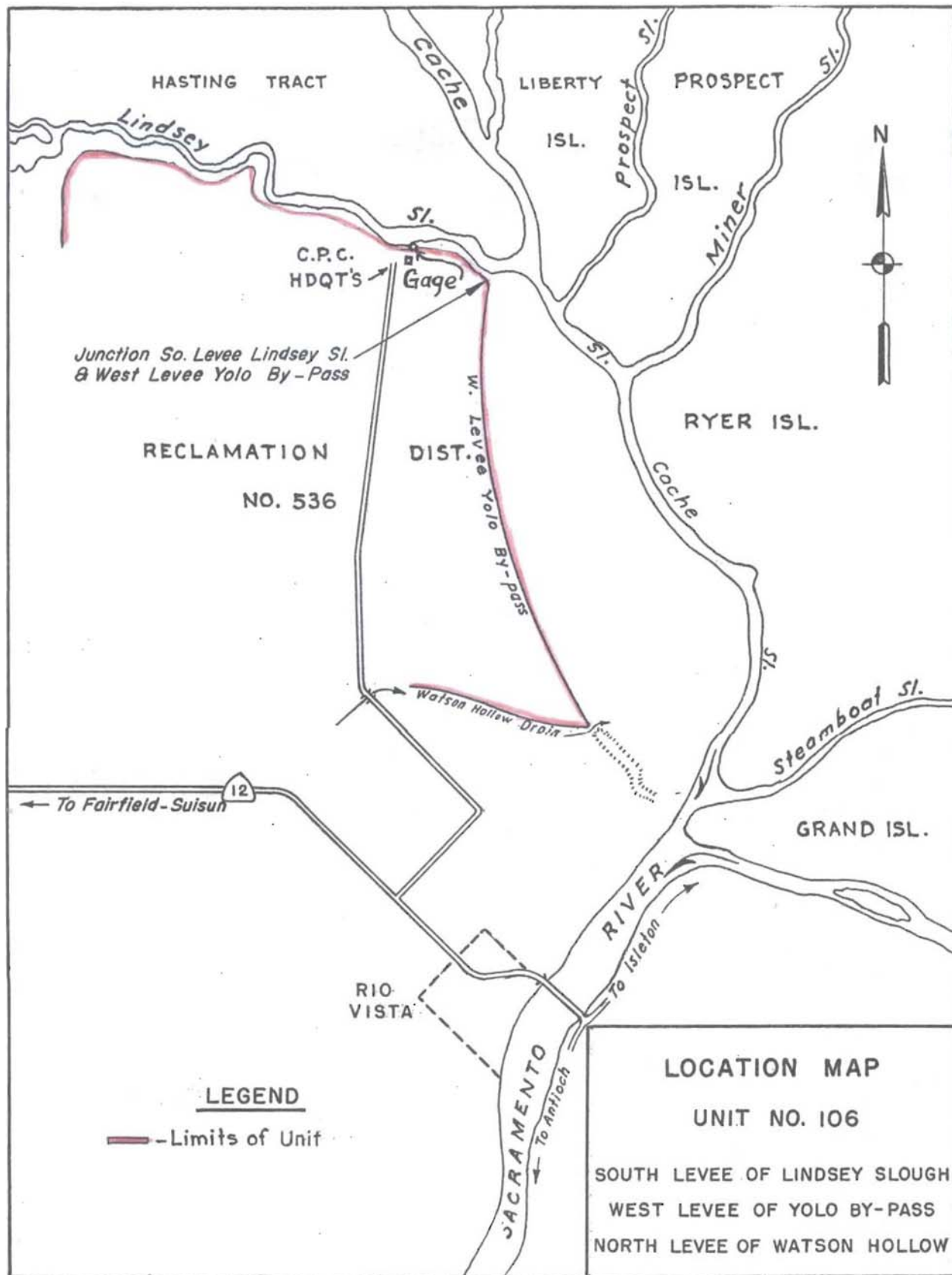
(Added November 7, 2006, by initiative Proposition 84.)

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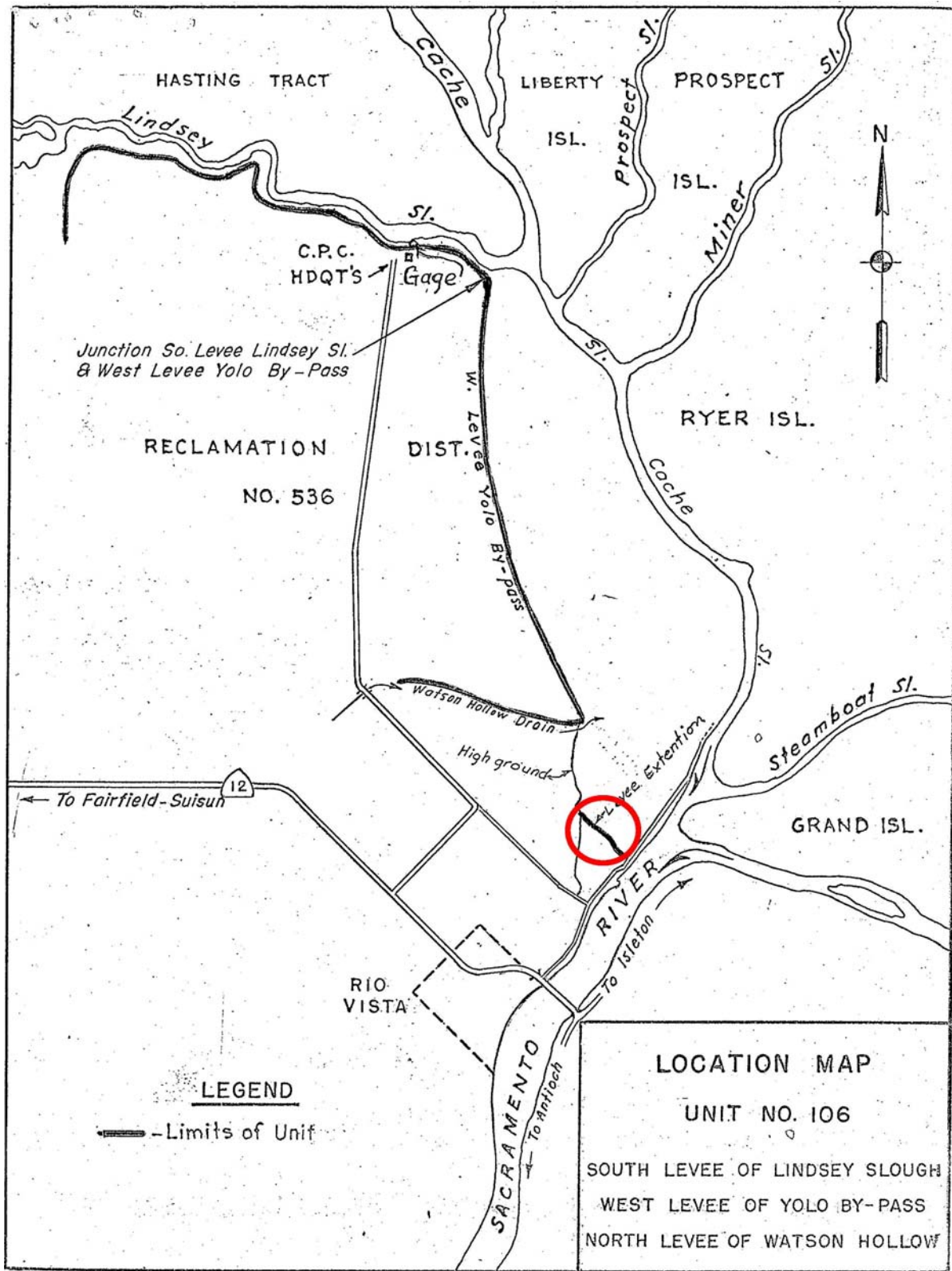
Appendix B – Sacramento River Flood Control Project Unit 106 Mellin Levee Documentation

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SRFCP Unit 106 Levee System Location Map in 1953



SRFCP Unit 106 Levee System Location Map in 1971



CVFPB SRFCP Unit 106 Assurance Letters (Dated April 2, 1952 and March 3, 1953)

C
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Y

State Reclamation Board Letterhead

C
O
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Y

April 2, 1952

District Engineer
Sacramento District
Corps of Engineers, U.S. Army
P. O. Box 1739
Sacramento 8, California

Dear Sir:

1. Reference is made to your letter of 6 December 1951, file SPKKA 824.3 (Sac. Riv. F.C.P.) transferring to the Reclamation Board levee reaches the contiguous waterway banks as follows:

a. Back levee Egbert Tract, Lindsey Slough to high ground.

b. Westerly levee Yolo Bypass.

(1) Lindsey Slough southerly to Watson Hollow Drain.

(2) - - - - -

c. Levees of Watson Hollow Drain.

(1) North levee, Yolo Bypass to high ground.

(2) - - - - -

2. There are no levees and no levees are required under items "b (2)" and "c (2)" above. The embankments here evident are part of a suction dredger spoil area, of some 1200 acres used by the United States in the excavation of the enlarged channel of the Sacramento River from Junction Point to Collinsville. The land was purchased and is owned by the Sacramento San Joaquin Drainage District. Spoil disposal rights have been preserved on this area for use of the United States in enlargement and maintenance of this channel.

3. There are no water banks contiguous to any of the other above reaches of levee except adjacent land areas. The west levee of the Yolo Bypass from Lindsey Slough to Watson Hollow Drain is completed to the final authorized cross section

C
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Y Ltr, State Recl Board
April 2, 1952

C
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4. The Reclamation Board formally accepted levee and bypass areas adjacent to levees covered by items "a" "b,(1)" and "c,(1)" on December 18, 1951.

Yours very truly,

THE RECLAMATION BOARD

By /s/ A. M. Barton
A. M. BARTON

Chief Engineer and General Manager

C
O
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Y

Note: Only items pertaining to Operation and Maintenance Manual No. 106 are included in above copy.

State Reclamation Board Letterhead

C
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Y

March 9, 1953

District Engineer
Sacramento District
U. S. Corps of Engineers
P. O. Box 1739
Sacramento, California

Dear Sir:

Reference your letters, file No. SPKKO-P 824.3 (Sac. R.F.C.P) dated 3 December 51, 8 December 51, 4 February 1953 and 13 February 1953, wherein the following levee units were transferred to the State of California:

- 3 Dec 51 - - - - -
- 4 Feb 53 The southerly levee of Lindsey Slough, from the westerly levee of the Yolo Bypass to the back levee of Egbert tract, (a distance of approximately 4 miles).

The Reclamation Board on behalf of the State of California, in meeting held March 4, 1953, accepted the above-mentioned levee units, together with their contiguous waterway banks, for operation and maintenance.

Yours very truly,

THE RECLAMATION BOARD

By /s/ D. M. Carr
D. M. CARR

Note: Only item pertaining to Operation and Maintenance Manual No. 106 is included in the above copy.

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Supplement to SAC 106 Manual (Dated December 1971)

SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL
SACRAMENTO RIVER FLOOD CONTROL PROJECT

UNIT NO. 106

SOUTH LEVEE OF LINDSEY SLOUGH AND
WEST LEVEE OF YOLO BYPASS FROM
LINDSEY SLOUGH TO WATSON HOLLOW AND
NORTH LEVEE OF WATSON HOLLOW DRAIN

REVISIONS AND ADDITIONS

REVISIONS	DATE
Paragraph 1-05 (June 1965 addition)- Changed to 1-05b	December 1971
EXHIBIT A1 ----- Add levee extension to W. Levee Yolo Bypass	December 1971
ADDITIONS	DATE
*Paragraph 1-05c ----- Add Contract No. 71-8-0095	December 1971
EXHIBIT B ----- Add Drawing No. 50-4-4707	December 1971
EXHIBIT F ----- Add letter of acceptance dated 9 December 1971	December 1971

*This work was performed at the request and under the authority of the California State Reclamation Board. The design criteria used and funds allocated were as stated in the Reclamation Board letter dated 17 February 1971, File 4170.70.206

SECTION I

1-05 Contractor

c. The work involving extension of the Yolo Bypass levee of Unit 106 to adopted grade and section was performed under Contract No. DACW05-72-C-0006 by Wayne L. Grist during the period from 31 July 1971 to 13 October 1971. Specification No. 4118, Drawing No. 50-4-4707.

EXHIBIT B

FILE NO.

TITLE

50-4-4707

Levee Construction, West Levee Yolo Bypass at Rio Vista (for the State of California)

**CVFPB Extension of the Yolo Bypass West Levee of Unit 106 Operation and Maintenance
Acceptance Letter, Dated December 9, 1971**

C
O
P
Y

THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
O
P
Y

December 9, 1971

District Engineer
Corps of Engineers
U. S. Army
650 Capitol Mall
Sacramento, California 95814

Refer to: 4130.70.100

Dear Sir:

Reference is made to your letter of November 10, 1971, regarding the transfer to the State of California for maintenance and operation the extension of the Yolo Bypass west levee, constructed in the vicinity of Rio Vista being a portion of the Sacramento River Flood Control Project.

The work was constructed in conformance with Specification No. 4117, Contract No. DACW05-72-C-0006 and Drawing No. 50-4-4707.

The Reclamation Board at its regular meeting of December 3, 1971, formally accepted the extension of the Yolo Bypass west levee for operation and maintenance.

Sincerely yours,

/s/ A. E. McCollam
A. E. McCOLLAM
Chief Engineer and
General Manager

EXHIBIT F

Sacto River Project transfer

SPKCO-0

10 November 1971

The Reclamation Board
State of California
1416 - 9th Street, Room 1335
Sacramento, California 95814

Gentlemen:

Reference is made to the extension of the Yolo Bypass west levee, constructed in the vicinity of Rio Vista, requested on 17 February 1971 and funded by the State of California. The work designated as Unit No. 679, consisting of 3010 feet of levee and patrol road, was completed on 13 October 1971 in accordance with Specification No. 4117, Contract No. DAGW05-72-C-0006 and Drawing No. 50-4-4707. This work was performed under the general authority of Section 2304(a)(17), Title 10, USCA.

The flood control work described above now meets the requirements of the Sacramento River Flood Control Project and is transferred to the State of California as of 10 November 1971, for operation and maintenance. This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement No. 106, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES C. DONOVAN
Colonel, CE
District Engineer

MC
ROMPALA/p

[Signature]
COLEMAN

[Signature]
HENSON

[Signature]
DONOVAN

Copy furnished:
DWR

DAEN-CWO
SPD

cc:
Engr-Lev&Chan
Engr-Prog Dev
Valley
F&A (Jones)

Jones

Unit 106

Copy to J. Deburn & A. Haber 18 Nov 71

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