

# Draft CVPIA Fiscal Year 2009 Annual Work Plan

December 1, 2008

**Flow Fluctuation** – CVPIA Section 3406(b)(9); and Reservoir Storage – CVPIA Section 3406(b)(19)

## **Responsible Entities**

<b>Staff Name</b>	<b>Agency</b>	<b>Role</b>
Paul Fujitani	USBR	Lead
Nick Hindman	USFWS	Co-Lead

## **Program Goals and Objectives for FY 2009**

1. The program goal is to develop and implement a program to eliminate, to the extent possible, losses of anadromous fish due to flow fluctuations caused by the operation of any Central Valley Project storage or re-regulating facility. There is currently no funding specifically for reservoir storage (b)(19). However, 3406 (b)(2) studies for dedication and management of project yield consider reservoir storage. The source documents for these objectives are noted and their relationship, if any, to the CALFED Program Ecosystem Restoration Program Implementation Plan.

a. American River- Develop and implement a program to eliminate, to the extent possible, losses of anadromous fish (steelhead and fall-run Chinook salmon) due to flow fluctuations caused by the operation of Nimbus dam. Have monthly American River Operations Work Group meetings to discuss flow in the rivers and temperature model results.

b. Stanislaus River- Develop and implement a program to eliminate, to the extent possible, losses of anadromous fish (steelhead and fall-run Chinook salmon) due to flow fluctuations caused by the operation of Goodwin dam. Have Stanislaus River Group meetings to discuss flow in the rivers and temperature model runs. Evaluate instream flow needs of the Stanislaus River fishery.

## **Status of the Program**

The American River flow fluctuation study by California Department of Fish and Game (CDFG) on salmon and steelhead in the lower American River (December 11, 2001) is used by fisheries biologists and the American River Operations Group as guidance when discussing flows on the lower American River and water management of Folsom Reservoir.

The Stanislaus River flow fluctuation study was started in 1999 and is currently ongoing along with studies to evaluate instream flow needs. An early draft report was completed in July 2004.

The definition of CVPIA 3406 (b)(19) is to reevaluate existing operational criteria in order to maintain carryover storage at Sacramento and Trinity River reservoirs to protect and restore the anadromous fish of the Sacramento and Trinity Rivers in accordance with the mandates and requirements of this subsection and subject to the Secretary's responsibility to fulfill all project purposes, including agricultural water delivery.

The Operations Criteria and Plan(OCAP) Biological Assessment (BA) that came out in June 2004 looked at storages in Trinity and Shasta reservoirs. The Biological Opinion (BO) on the Long-Term Central Valley Project and State Water Project OCAP, October 2004, determined that Reclamation shall target a minimum carryover storage in Shasta Reservoir of 1.9 million acre-feet of water for improvement of cold water resources. This BO was challenged in federal court and the court ruled that the document is unlawful and inadequate. Reclamation has since prepared a new BA in May 2008, and National Marine Fisheries Service is in the process of preparing a new BO.

### ***FY 2008 Accomplishments***

The American River Operations Work Group continues to meet monthly to discuss both the American River operations and to discuss the work to determine threshold flows and ramping rates required to protect Lower American fishery resources.

The Stanislaus River Group meets less frequently than the American River Operations Work Group. Meetings are typically held a few times throughout the year. During the Vernalis Adaptive Management Plan in April and May there are more regular discussions about the flows. The Stanislaus River fish monitoring studies and habitat mapping are in progress.

**Table 1. FY 2009 Tasks, Costs, Schedules and Deliverables**

Task or Subtask Number	Name of Activity	FTE's	Description of Activity	Completion Date	Total Cost	Funding Source Restoration Fund	Funding Source Water & Related Resources
<b>1.1</b>	<b>Program Management</b>						
1.1.1		0.17	The program is managed by Reclamation and the Fish and Wildlife Service. There is no specific funding for b(19) however 3406(b)(2) studies for dedication and management of project yield consider reservoir storage and carryover. Reclamation regularly meets with fishery agencies to coordinate operations designed to reduce flow fluctuation impacts. Flow fluctuation related studies are being conducted on the American and Stanislaus Rivers and are being managed by the Central California Area Office. <b>(High Priority)</b>	Ongoing	\$30,200	\$30,200	\$0
	<u>Subtotal Costs</u>				\$30,200	\$30,200	\$0
<b>1.3</b>	<b>Technical Support</b>						
1.3.1			CVO-400 manages operations on the Stanislaus River and coordinates with fishery agencies to minimize flow fluctuation impacts to the fishery. Coordination with USFWS		\$3,800	\$3,800	\$0
1.3.2			CVO-400 manages operations on the American River and coordinates with fishery agencies to minimize flow fluctuation impacts to the fishery. Costs included in 1.3.1 above. Coordination with USFWS		\$0	\$0	\$0
	<u>Subtotal Costs</u>				\$0	\$0	\$0
<b>1.4</b>	<b>Restoration Actions</b>						
1.4.1			No specific action. Costs in 1.5.1 and 1.5.2 below				
	<u>Subtotal Costs</u>				\$0	\$0	\$0

Task or Subtask Number	Name of Activity	FTE's	Description of Activity	Completion Date	Total Cost	Funding Source Restoration Fund	Funding Source Water & Related Resources
<b>1.5</b>	<b>Evaluations Studies Investigations Research</b>						
1.5.1			American River and Stanislaus River flow studies and monitoring by Reclamation, DFG, and USFWS for salmon and steelhead. Funds managed by MP-150.		\$16,000	\$16,000	\$0
	<u>Subtotal Costs</u>				\$16,000	\$16,000	\$0
<b>1.7</b>	<b>Outreach and Public Involvement</b>						
1.7.1			Funding partially supports American River Group. The ARG provides input to Reclamation in managing the Folsom Reservoir and the American River. Costs are included in 1.5.1 above		\$0	\$0	\$0
	<u>Subtotal Costs</u>				\$0	\$0	\$0
<b>1.12</b>	<b>Monitoring</b>						
1.12.1			Ongoing monitoring by DFG and USFWS on both the American and Stanislaus Rivers supporting fishery studies. Costs included in 1.5.1 above				
	<u>Subtotal Costs</u>				\$0	\$0	\$0
<b>1.13</b>	<b>Modeling</b>						
1.13.1			Instream flow modeling activities are incorporated in the studies being conducted on the American and Stanislaus River. Costs associated with this modeling are included in 1.5.1 above.				
1.13.2			Funding supports temperature modeling efforts on the American River. Modeling by CVO. Costs included in 1.1 above. (High Priority)		\$0	\$0	\$0
	<u>Subtotal Costs</u>				\$0	\$0	\$0
	<b>Total Costs</b>				<b>\$50,000</b>	<b>\$50,000</b>	<b>\$0</b>
	Service funding				\$3,800	\$3,800	\$0
	Reclamation funding				\$46,200	\$46,200	\$0
	Potential 15% funding reduction	\$7,500 taken from task 1.5			\$7,500	\$7,500	\$0

**Table 2. Budget Breakout**

Task	Agency	FTE	LABOR			CONTRACTS			Total Costs
			Direct Salary and Benefits Costs	Overhead Costs on Salary & Benefits	USFWS Overhead Assess: 22% of Direct Salary and Benefits Costs	Contract, Grant, and Agreement Costs	USFWS Overhead Assess: 6% Contract Costs	Misc. Costs	
1.1 Program Management	USFWS		0	0	0	0	0	0	0
	USBR	0.17	1609	8,664	5,446	0	0	0	30,200
1.3 Technical Support	USFWS	.0019	2025	1090	685	0	0	0	3,800
	USBR		0	0	0	0	0	16,000	16,000
1.5 Evaluations Studies Investigations Research	USFWS		0	0	0	0	0	0	0
	USBR		0	0	0	0	0	16,000	16,000
<b>USFWS Total Costs</b>		0.019	2025	1090	685	0	0	0	3,800
<b>USBR Total Costs</b>		0.17	1609	8664	5446	0	0	32,000	46,200
<b>TOTAL ALL</b>		0.189	3631	9754	6131	0	0	32,000	50,000

**Table 3. Three-Year Budget Plan FY 2010-2012**

Year	Description of Activities	Requested RF Funding	Requested W&RR Funding
2010	CVPIA Section 3406(b)(9); and Reservoir Storage – CVPIA Section 3406(b)(19)	\$50,000	0
2011	CVPIA Section 3406(b)(9); and Reservoir Storage – CVPIA Section 3406(b)(19)	\$53,000	0
2012	CVPIA Section 3406(b)(9); and Reservoir Storage – CVPIA Section 3406(b)(19)	\$54,000	0

Note: The FY 2010 – 2012 Budget Plan provides estimates of capability only. The amounts are displayed are those that might be reasonably appropriated each year. These figures do not reflect the future Congressional Appropriations process. All of these estimates will be adjusted annually as RF collections are realized.