CVPIA Fiscal Year 2008 Annual Work Plan

November 2, 2007

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

Responsible Entities

Staff Name	Agency	Role
Paul Fujitani	USBR	Lead
Nick Hindman	FWS	Co-Lead

Program Goals and Objectives for FY 2008

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

Definition of CVPIA 3406 (b)(9): 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. The program shall be patterned where appropriate after the agreement between the California Department of Water Resources (DWR)

and the California Department of Fish and Game (DFG) with respect to the operation of the California State Water Project (SWP) Oroville Dam complex.

The American River flow fluctuation study by DFG on salmon and steelhead in the lower American River, 1996-2000 had a preliminary draft dated April 11, 2001. The final report, "Lower American River Flow Fluctuation Study 1997-2000, Evaluation Effects of Flow Fluctuations on the Anadromous Fish Populations in the Lower American River", was sent out December 11, 2001. Agencies conduct monthly meetings with stakeholders to discuss the 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 OCAP BA that came out in June 2004 looked at storages in Trinity and Shasta reservoirs.

FY 2007 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.

FY 2008 Tasks, Costs, Schedules and Deliverables

Task or Subtask Number	Name of Activity	FTE"s	Description of Activity	Completion Date	Total Cost	Funding Source RF	Funding Source WRR
1.1	**Program Management**						
1.1.1		0.1	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 regularily 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.	Ongoing			
	Subtotal Costs				$20,000	$20,000	$0
1.3	**Technical Support**						
1.3.1			CVO-400 manages operations on the Stanislaus River and coordinates with fishery agencies to minimize flow fluctuation impacts to the fishery. Costs included in 1.1 above. Coordination with Nick Hindman, FWS		0	0	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 1.1 above. Coordination with Nick Hindman, FWS		0	0	
	Subtotal Costs				0	0	0
1.4	**Restoration Actions**						
1.4.1			No specific action. Costs in 1.5.1 and 1.5.2 below				
	Subtotal Costs				0	0	0

Task or Subtask Number	Name of Activity	FTE"s	Description of Activity	Completion Date	Total Cost	Funding Source RF	Funding Source WRR
1.5	**Evaluations Studies Investigations Research**						
1.5.1			American River and Stanislaus River flow studies and monitoring by Reclamation, DFG, and FWS for salmon and steelhead. Funds managed by CCAO.		15000	15000	0
	Subtotal Costs				15000	15000	0
1.7	**Outreach and Public Involvement**						
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		N/A	N/A	N/A
	Subtotal Costs				0	0	0
1.12	**Monitoring**						
1.12.1			Ongoing monitoring by DFG and FWS on both the American and Stanislaus Rivers supporting fishery studies. Costs included in 1.5.1 above				
	Subtotal Costs				0	0	0
1.13	**Modeling**						
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 MP-700.		$15,000	$15,000	$0
	Subtotal Costs				$15,000	$15,000	$0
	Total Costs				**$50,000**	**$50,000**	**$0**
	Service funding				0	$0	$0
	Reclamation finding				50,000	$50,000	$0

Budget Breakout

Task	Agency	FTE	Direct Salary and Benefits Costs	Contract Costs	Misc. Costs	Admin Costs	Total Costs
1.1 Program Management	FWS	0	0	0	0	0	0
	BOR	0.1	19000	0	1000	0	20,000
1.5 Evaluations, Studies, Investigations, Research	FWS						0
	BOR				15000		15,000
1.13 Modeling	FWS						0
	BOR				15000		15,000
FWS Total Costs			0	0	0	0	0
BOR Total Costs			19000	0	31000	0	50,000
Total			19000	0	31000	0	50,000

Five Year Budget Plan

Funding Source	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Total
W&RR						
RF	$52,000	$53,560	$55,167	$56,822	$58,526	$276,075
State						
Other (identify)						
Total	$52,000	$53,560	$55,167	$56,822	$58,526	$276,075

FY 2008 activities for CVPIA 3406(b)(9) and 3406(b)(19) on the American River and Stanislaus River will continue through 2013.