

## Work Plan for Fiscal Year 2005

**I. Program Title.** CVPIA Section 3406 (b)(9) Flow Fluctuation and 3406 (b)(19) Reservoir Storage

**II. Responsible Entities.**

	<b>Agency</b>	<b>Staff Name</b>	<b>Role</b>
Lead	USBR	Ann Lubas-Williams	Program Manager
Co-Lead	USFWS	Andrew Hamilton	Program Manager

**III. Program Objectives for FY 2005**

The program objectives for flow fluctuation (b)(9) are enumerated below. 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. The program objectives have been cross-referenced against the actions the program will undertake in FY 2005 in Section VI below.

- 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 Tulloch dam. Have Stanislaus River Group meetings to discuss flow in the rivers and temperature model runs.

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

The American River flow fluctuation study by CDFG on salmon and steelhead in the lower American River, 1996-2000 had a preliminary draft dated April 11, 2001. The final report was sent out December 11, 2001. We still have monthly meetings to discuss the flows on the lower American River.

The Stanislaus River flow fluctuation study was started in 1999 and is currently ongoing. An early draft report was sent in July 2004.

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.

In FY 2004 there was a new draft supplemental EIS/R for the Trinity River which looked at impacts to the Sacramento River. The OCAP BA that came out in June 2004 also looked at storages in Trinity and Shasta reservoirs.

#### **V. FY 2004 Accomplishments.**

Bureau of Reclamation (USBR) has a cooperative agreement with CDFG to conduct a literature review and conduct appropriate field investigations to incorporate in a report with recommended operating criteria. The American River has a final report from CDFG dated November 2001. The Stanislaus River studies currently are in progress, expect a final by end of calendar year 2004.

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.

#### **VI. Tasks, Costs, Schedules and Deliverables.**

##### **A. Narrative Explanation of Tasks.**

1. Program Management. The USBR and USFWS Program Managers have different responsibilities. USBR worked the contracts with DFG. While USFWS will be coordinating with CDFG monitoring on the rivers.
2. American River
  - 2.1. American River Operations Work Group meetings. The American River has a monthly meeting to discuss the flows in the lower river. USFWS will coordinate monitoring and report at the meetings.
  - 2.2. Temperature modeling. USBR does the temperature modeling for the lower American River.

3. Stanislaus River

3.1. Stanislaus River Group meetings. Periodically there are Stanislaus River meetings. USFWS will coordinate monitoring and report at the meetings.

3.2. Temperature modeling. Temperature model output is reviewed at the Stanislaus River Group meetings.

**B. Schedule and Deliverables.**

#	Task	Dates		Deliverable
		Start	Complete	
1	Program Management	10/01/04	09/30/05	This includes some monitoring on either river.
2.1	American River Operations Work Group	10/01/04	09/30/05	Continue working meetings to review operations and get the flow fluctuation minimized on the river.
2.2	American River Temp. Modeling	10/01/04	09/30/05	Provide monthly modeling of the flows, check temperatures.
3.1	Stanislaus River Group Meetings	10/01/04	09/30/05	Continue working meetings and get a draft flow fluctuation study.
3.2	Stanislaus River Temp Modeling	10/01/04	09/30/05	Provide periodic modeling of the flows, check temperatures.

**C. Summary of Program Costs and Funding Sources.**

#	Task	Total Cost	Funding Sources
			RF
1	Program Management	\$	\$
2.1	American River Operations Work Group	\$20,000	\$20,000
2.2	American River Temp Modeling	\$10,000	\$10,000
3.1	Stanislaus River Group	\$15,000	\$15,000
3.2	Stanislaus River Temp Modeling	\$ 5,000	\$ 5,000
<b>Total Program Budget</b>		<b>\$50,000</b>	<b>\$50,000</b>

**D. CVPIA Program Budget.**

#	Task	FTE	Direct Salary and Benefits Costs	Administrative Costs	USBR subtotal	USFWS subtotal	Total Costs
	Program Management	0.00	\$0	\$0	\$0		\$0
	American River Working Group	0.20	\$20	\$0	\$20		\$20
	American River Temp Modeling	0.10	\$10	\$0	\$10		\$10
	Stanislaus River Working Group	0.15	\$15	\$0	\$15		\$15
	Stanislaus River Temp Modeling	0.05	\$5	\$0	\$5		\$5
		0.0	\$0	\$0			\$0
		0.0	\$0	\$0			\$0
	<b>Total by Category</b>	<b>0.0</b>	<b>\$50</b>	<b>\$0</b>	<b>\$50</b>		<b>\$50</b>

**VII. Future Years Commitments/Actions.**

The program has funds in the future years to continue studies of the rivers and their flows during different operations. We have had several wet years, an above normal year, two dry years so far and a below normal year. Hopefully in the future we will have some different year types to show a change in operations.