

Draft CVPIA Fiscal Year 2009 Annual Work Plan

December 1, 2008

Program Title

Identification of the Instream Flow Requirements for Anadromous Fish in the Streams Within the Central Valley of California and Fisheries Investigations - CVPIA Sections 3406(b)(1) and 3406(b)(1)(B)

Responsible Entities

| Staff Name | Agency | Role |
|------------|--------|------|
| Mark Gard | USFWS | Lead |

Program Goals and Objectives for FY 2009

- Provide scientific information to be used in developing recommendations for instream flow needs for Central Valley rivers, by developing improved hypotheses regarding the relationship between flows and the amount of physical habitat for indicator species of ecosystem health in Central Valley rivers.
- Provide scientific information to other CVPIA programs to use in assessing fisheries restoration actions.

Status of the Program

Although this will be the seventh year of funding for this project, this project is a continuation of work conducted under a previous program, from 1995 to 2001 also entitled “Identification of Instream Flow Requirements for Anadromous Fish in the Streams Within the Central Valley of California,” to identify the instream flow requirements for anadromous fish in the streams within the Central Valley of California. Accomplishments of the previous program include final reports on instream flow needs for spawning in the Merced and American rivers. The program is nearly complete in achieving the current goals of this project (completing instream flow studies for the Sacramento, American and Yuba rivers and Butte and Clear creeks).

FY 2008 Accomplishments

For the Yuba River, the program completed draft reports for spring-run and fall-run Chinook salmon and steelhead fry and juvenile rearing, and for effects of flow fluctuations on spring-run and fall-run Chinook salmon and steelhead redd dewatering and juvenile stranding. We completed a stakeholder review of the draft report for spring-run and fall-run Chinook salmon and steelhead spawning. We anticipate completing all three final reports in FY 2009.

For Clear Creek, we completed data collection on fall-run Chinook salmon spawning study sites in the lower reach of Clear Creek and data collection for juvenile fall-run chinook salmon rearing habitat suitability criteria, and started data collection for fall-run Chinook salmon juvenile rearing study sites in the lower reach of Clear Creek.

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 | Anticipated Funding Source Restoration Fund | Anticipated Funding Source Water & Related Resources |
|------------------------|---|--------------|--|-----------------|------------|---|--|
| 1.1 | Program Management | 0.05 | | | | | |
| 1.1.1 | | | FWS. Overseeing project coordination meetings, managing project finances (budgets, contracts, etc.), and preparing project progress reports. Goals A and B (high priority) | 9/30/2009 | \$10,000 | \$10,000 | \$0 |
| | <u>Subtotal Costs</u> | | | | \$10,000 | \$10,000 | \$0 |
| 1.12 | Monitoring | 2.035 | | | | | |
| 1.12.1 | Habitat Suitability Criteria Development | | South Cow Creek, spawning fall-run Chinook salmon, logistic regression and River2D, no partners or cost share, data steward: Mark Gard, SFWO, Deliverables: annual report on 9/30/09. Goal A (high priority) | 9/30/2009 | \$14,000 | \$14,000 | \$0 |
| 1.12.2 | South Cow Creek Field Reconnaissance and Study Site Selection | | See above description Goal A (high priority) | 9/30/2009 | \$14,000 | \$14,000 | \$0 |
| 1.12.3 | South Cow Creek Hydraulic Data Collection | | See above description Goal A (high priority) | 9/30/2009 | \$281,000 | \$281,000 | \$0 |
| 1.12.4 | Clear Creek Hydraulic Data Collection | | Clear Creek, juvenile fall-run Chinook salmon, logistic regression and River2D, no partners or cost share, data steward: Mark Gard, SFWO, Deliverables: annual report on 9/30/09, this work continues an ongoing study. Goal A (high priority) | 9/30/2009 | \$52,000 | \$52,000 | \$0 |
| 1.12.5 | Evaluate changes in hydrology on Miscellaneous Rivers related to AFRP (b1) restoration activities | | , Hydrologic studies to be determined in coordination with b(1) Program Staff. Goal B (high priority) Location to be determined by AFRP in January. | 9/30/2009 | \$47,000 | \$47,000 | \$0 |
| | <u>Subtotal Costs</u> | | | | \$408,000 | \$408,000 | \$0 |
| 1.13 | Modeling | 0.815 | | | | | |
| 1.13.1 | Modeling of Spawning and Rearing Habitat in Clear Creek | | No links to other models/efforts, no partners or cost share, River2D, no project phases, Deliverables: annual report on 9/30/09, this work continues an ongoing study. Goal A (high priority) | 9/30/2009 | \$110,000 | \$110,000 | \$0 |

| Task or Subtask Number | Name of Activity | FTE's | Description of Activity | Completion Date | Total Cost | Anticipated Funding Source Restoration Fund | Anticipated Funding Source Water & Related Resources |
|------------------------|--|------------|---|-----------------|------------|---|--|
| 1.13.2 | Re-examine Clear Creek data on adult Spring Chinook – is the increase in Weighted Useable Area due to an increase in quality or is it an increase in area? | | No links to other models/efforts, no partners or cost share, River2D, no project phases, Deliverables: annual report on 9/30/09, this work continues an ongoing study. Goal B (high priority) | 9/30/2009 | \$13,000 | \$13,000 | \$0 |
| 1.13.3 | Clear Creek Biovalidation – how well does IFIM compare to field observations? | | No links to other models/efforts, no partners or cost share, River2D, no project phases, Deliverables: annual report on 9/30/09, this work continues an ongoing study. Goal B (high priority) | 9/30/2009 | \$40,000 | \$40,000 | \$0 |
| | <u>Subtotal Costs</u> | | | | \$163,000 | \$163,000 | \$0 |
| 1.14 | Other | 0.5 | | | | | |
| 1.14.1 | Clear Creek Peer Review | | Deliverables: annual report on 9/30/09, this work continues an ongoing study. Goal A (high priority) | 9/30/2009 | \$80,000 | \$80,000 | \$0 |
| 1.14.2 | Yuba River Peer Review | | Deliverables: annual report on 9/30/09, this work continues an ongoing study. Goal A (high priority) | 9/30/2009 | \$20,000 | \$20,000 | \$0 |
| | <u>Subtotal Costs</u> | | | | \$100,000 | \$100,000 | \$0 |
| | Total Costs | 3.4 | | 9/30/2009 | \$681,000 | \$681,000 | \$0 |
| | Service Total Costs | 3.4 | | | \$681,000 | \$681,000 | \$0 |
| | Reclamation Total Costs | 0.0 | | | \$0 | \$0 | \$0 |
| | | | Subtotal for b(1) – South Cow Creek | | \$314,000 | \$314,000 | \$0 |
| | | | Subtotal for b(1) - Yuba River | | \$20,000 | \$20,000 | \$0 |
| | | | Subtotal for b(1) – Miscellaneous Rivers- to be determined by AFRP in January | | \$47,000 | \$47,000 | \$0 |
| | | | Subtotal for b(1)(B) - Clear Creek | | \$300,000 | \$300,000 | \$0 |

Table 2. CVPIA Program Budget

| Task | Agency | FTE | LABOR | | | CONTRACTS | | BOR Misc. Costs | Total Costs |
|-------------------------------|--------|-------|----------------------------------|--------------------------------------|--|--------------------------------------|--|-----------------|-------------|
| | | | Direct Salary and Benefits Costs | FWS Costs on Salary & Benefits (35%) | FWS Overhead Assess: 22% of Direct Salary and Benefits Costs | Contract, Grant, and Agreement Costs | FWS Overhead Assess: 6% Contract Costs ^{2/} | | |
| 1.1 Program Management | USFWS | 0.05 | \$6,000 | \$2,000 | \$2,000 | 0 | 0 | 0 | \$10,000 |
| | USBR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.12 Monitoring | USFWS | 2.035 | \$247,000 | \$87,000 | \$74,000 | 0 | 0 | 0 | \$408,000 |
| | USBR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.13 Modeling | USFWS | 0.815 | \$99,000 | \$35,000 | \$29,000 | 0 | 0 | 0 | \$163,000 |
| | USBR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.14 Other | USFWS | 0.5 | \$61,000 | \$21,000 | \$18,000 | 0 | 0 | 0 | \$100,000 |
| | Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | USBR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| USFWS Total Costs | | 3.4 | \$413,000 | \$145,000 | \$123,000 | 0 | 0 | 0 | \$681,000 |
| USBR Total Costs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL ALL | | 3.4 | \$413,000 | \$145,000 | \$123,000 | 0 | 0 | 0 | \$681,000 |

Table 3. Three Year Budget Plan FY 2010 – 2012

| Year | Description of Activities | Requested RF Funding | Requested W&RR Funding |
|-------------|---|--|------------------------|
| 2010 | South Cow Creek IFIM Study (monitoring/modeling) Clear Creek IFIM Study (peer review) Fisheries Investigations | (b)(1)- \$631,000 (b)(1)B- \$84,000 Total- \$715,000 | \$0 |
| 2011 | South Cow Creek IFIM Study (monitoring/peer review) Tuolumne River IFIM Study (monitoring) Fisheries Investigations | (b)(1)- \$715,000 (b)(1)B- \$0 Total- \$715,000 | \$0 |
| 2012 | South Cow Creek IFIM Study (peer review) Tuolumne River IFIM Study (monitoring/modeling) Fisheries Investigation | (b)(1)- \$715,000 (b)(1)B- \$0 Total- \$788,000 | \$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.