San Joaquin River Restoration Program

Overview

10(a)1(A), ENHANCEMENT OF SPECIES PERMIT APPLICATION for the Re-Introduction of Central Valley Spring-Run Chinook Salmon into the San Joaquin River

U.S. Fish and Wildlife Service

In Cooperation with:
National Marine Fisheries Service
Bureau of Reclamation
California Department of Fish and Game
Restoration Goal

- Restore flows from Friant Dam to the confluence of the Merced River
- Channel improvements flow conveyance
- Fish passage and habitat
- Reintroduce Chinook Salmon
OBJECTIVES:

- Develop a naturally reproducing and self-sustaining population of spring-run Chinook salmon in the San Joaquin River.

- Not to adversely effect the population viability of the Evolutionary Significant Unit (ESU) and/or the source streams.
§10(a)1(A) Application Overview

- On December 27, 2011 the final version of the §10(a)1(A) application was submitted to NMFS.

- This permit application is envisioned as the first step in an iterative process...other applications or amendments may be developed in the future, as warranted.

- This first application relies on the use of Feather River Hatchery spring-run Chinook salmon for initial reintroduction efforts.

- Permit would run from fall of 2012 through fall 2017.
Key Provisions of the Application

- Donor Stock
- Collection Numbers and Lifestages
- Annual Process
Key Provisions of the Application

Donor Stock

– All stock will come from the Feather River Fish Hatchery.

– Collected stock will be surplus to Feather River Fish Hatchery operations.

– A minimum of 50 crosses will be selected throughout the spawning season to maximize genetic diversity.
OBJECTIVES:

- Develop a naturally reproducing and self-sustaining population of spring-run Chinook salmon in the San Joaquin River.

- Not to adversely effect the population viability of the Evolutionary Significant Unit (ESU) and/or the source streams.
- Originally application proposed multi-stock approach
- Collections from donor streams (Mill, Deer, Butte)
- Annual process for proposing collections
  - Decision matrix (avoiding impacts)
  - Criteria based on Lindley et al. 2007
- Annual run size
- Abundance trajectory
DONOR STOCK SELECTION
ORIGINAL APPLICATION

- Feedback on permit application
  - Concerns over impact to donor streams
    - Public comments / agency discussions
- Permitting Strategy
  - Relies on FRFH stock initially
  - Agree upon conditions for in-stream collections
  - Monitor donor stock status
  - Develop additional applications if conditions are met.
### Key Provisions of the Application

#### Collection Numbers

<table>
<thead>
<tr>
<th>Collection Type</th>
<th>Collection Source</th>
<th>Targeted Lifestage</th>
<th>Disposition Location</th>
<th>Max Years 1-3</th>
<th>Max Years 4-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Feather River Fish Hatchery</td>
<td>Juveniles</td>
<td>Conservation Facility</td>
<td>560</td>
<td>2,760</td>
</tr>
<tr>
<td></td>
<td>Feather River Fish Hatchery</td>
<td>OR Eyed Eggs</td>
<td>Conservation Facility</td>
<td>560</td>
<td>2,760</td>
</tr>
<tr>
<td></td>
<td>Feather River Fish Hatchery</td>
<td>Juveniles OR Eyed Eggs</td>
<td>Translocation to SJR</td>
<td>54,400 @ fingerling</td>
<td>54,400 @ fingerling</td>
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<tr>
<td></td>
<td>Feather River Fish Hatchery</td>
<td>Eyed Eggs</td>
<td>Translocation to SJR</td>
<td>80,000</td>
<td>80,000</td>
</tr>
</tbody>
</table>

- Collections for Conservation Facility stock and direct translocation.
- Collected as eggs or juveniles
• **Annual Donor Stock Collection Plans** will be developed by a multi-agency technical team to describe the collection plan for each year.

• A **year-end report** will summarize any differences between the anticipated actions and what occurred, and any adaptive processes under review.
CONSERVATION SCENARIO

- Progressive implementation to reach the Settlement goals over time
- Conserving the donor populations in source streams
- Successful restoration and reintroduction in the SJR
More Information

• Program website
  – www.restoresjr.net

• Program Documents
  – Program Management Plan
  – Fisheries Management Plan
  – Reintroduction Strategy for Spring Chinook

• Public Meetings / workshops