
From: Naseem Alston - NOAA Federal <naseem.alston@noaa.gov>
Sent: Monday, April 29, 2019 3:17 PM
To: Cathy Marcinkevage - NOAA Federal
Subject: Re: Upper Sac in ROC LTO Baseline?

Hi Cathy,

Firstly, I don't agree that a population in Battle Creek would "provide temperature compliance flexibility" - that doesn't make sense, production in the Sac would still need to survive...

A 2nd population would possibly provide a buffer against catastrophic events (drought, etc), but both are necessary to survival and recovery.

Anyway, here is what is currently in the EnvB section, Brian included it under descriptions of certain RPA actions. I updated the section with current situation:

RPA Action I.2.6: Restore Battle Creek for Winter-Run, Spring-Run, and CV Steelhead (Complete Battle Creek Salmon and Steelhead Restoration Project)

Pursuant to the RPA in the NMFS (2009) Opinion on the long-term operations of the CVP/SWP, Reclamation, and DWR shall provide improved instream flow releases and safe fish passage to prime salmon and steelhead habitat on Battle Creek for winter-run Chinook salmon, spring-run Chinook salmon, and California Central Valley steelhead. This is also a Priority 1 NMFS recovery action (NMFS 2014). The project has been supported with Federal, State and private funding. As of 2019, implementation of the Battle Creek Salmon and Steelhead Restoration Project has completed construction of phase 1 (of 2), which included removal of one fish passage barrier (dam), and construction of NMFS-approved fish screens and ladders at the two remaining dams on North Fork Battle Creek. Phase 2 of the project has completed planning, and is currently in design phase. Although implementation has been significantly delayed, we expect benefits to listed salmonids once completed. Additionally, beginning in 2018, winter-run Chinook salmon juveniles produced at LSNFH have been released into North Fork Battle Creek in an effort to jump-start the reintroduction efforts described in the plan (ICF 2016). These releases are expected to continue until implementation of the full reintroduction plan is underway. Additional updated information related to implementation is available in the Salmon Resiliency Strategy (California Natural Resources Agency 2017).

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On Mon, Apr 29, 2019 at 11:28 AM Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov> wrote:

Hey Naseem --

There's a Battle Creek component of the ROC PA in the Shasta division. Howard and others flagged this as something that should be in baseline. The current text from the Shasta section on this item is below. Is something about this in baseline already?

Reclamation proposes to accelerate implementation of the Battle Creek Salmon and Steelhead Restoration Project, which is intended reestablish approximately 42 miles of prime salmon and Steelhead habitat on Battle Creek, and an additional 6 miles on its tributaries. Winter-Run Chinook Salmon are currently limited to a single population that spawns in a 5-mile stretch of the Sacramento River, but they are being reintroduced to Battle Creek (around 200,000 juveniles were released in Battle Creek in 2018), and this new population would benefit from the restoration efforts. An additional population of Winter-Run Chinook Salmon on Battle Creek would provide temperature compliance flexibility [\[MCR1\]](#) [. \[EBS2\]](#)

Section on Spawning and Rearing Habitat