

Art,

If there is agreement on a number for percentage survival of eggs to juvenile at Caswell, then we see the following questions to the Biological Objectives group:

I. COLDWATER POOL:

- (A) Is a coldwater pool necessary or required for the Stanislaus River? What benefit from egg to juvenile survival will occur? What is the cost to water supply, or instream releases in trying to maintain a coldwater pool? If a coldwater pool, what quantity? At what time of year (EOMS September)?
- (B) Contribution to percentage of survival at Caswell.

✓ II. HABITAT RESTORATION –IN CHANNEL, TWO COMPONENTS:

- (A) Upstream of Oakdale.
- (B) Downstream of Oakdale:
 - (1) eggs, (2) eggs to fry, (3) rearing, and (4) contribution to percentage survival at Caswell.
- (C) Contribution to percentage of survival at Caswell.

✓ III. GRAVEL:

- (A) Without habitat restoration.
- (B) With habitat.
- (C) Upstream of Orange Blossom Bridge.
- (D) Between Oakdale and Orange Blossom Bridge.
- (E) Contribution to percentage survival at Caswell.

✓ IV. FLOODPLAIN HABITAT:

- (A) Upstream of Oakdale.
- (B) Oakdale to Caswell.
- (C) Fall-run Chinook salmon.
- (D) Rearing.
- (E) Contribution to percentage survival at Caswell.

✓ V. PREDATOR SUPPRESSION:

One:

- (A) Between Oakdale and Caswell.
- (B) Suppression Timing, magnitude (?), duration, method, etc.
- (C) Contribution to percentage of survival at Caswell.

Two:

- (A) Decreased summer flows.
- (B) Timing, magnitude (?), duration, etc.
- (C) Contribution to percentage of survival at Caswell.

- VI. Flow: This is about "bundled water" at certain times if objectives can be met
- (A) Egg Laying.
 - (B) Hatch.
 - (C) Out-migration.
 - (E) Given the water amounts for the year types, describe contribution to percentage of survival at Caswell. The amount of water by year type will come from the negotiating group.

VII. WATER TEMPERATURE:

~~Are water temperature objectives necessary or required for the Stanislaus River? If yes, then is water, in addition to the amounts stated in VI, going to be released to meet the water temperature objectives? If yes, then how much water?~~

- ~~(A) Water temperature objectives, species, life stage, location of objective, etc.~~
- ~~(B) Contribution to percentage of survival at Caswell.~~

NEGOTIATING GROUP:

- I. Coldwater pool?
CVP Allocations?
This leads to instream flow allocation year-by-year.
OID and SSJD 1988 Agreement?
- II. Given the results of the negotiating group, determine the quantity of water OID/SSJD can make available for shared incentives with export operation. When the negotiating group has a flow regime, it will be given to the Biological Assessment Group. This will inform items I, II, IV, VI and VII.