

**Species Conceptual Model External Scientific Review Form:
Delta Regional Ecosystem Restoration Implementation Plan (DRERIP)
Species Life History Conceptual Models**

IMPORTANT: Prior to reviewing any proposals, please read through the following documents attached to this form: *Delta Regional Ecosystem Restoration Implementation Plan (DRERIP) Species life History Models Draft Guidelines; The Vetting Process; and Guidelines for External Scientific Review of Proposals*, including an explanation of the Conflict of Interest policy. Complete this review form by entering information and your evaluation in the appropriate space after each question. Return the form as a word document to ambarnes@ucdavis.edu. Please call Allen Barnes at (530)757-8574 if you have any questions.

Proposal Title:

Reviewer:

Affiliation:

Conflict of Interest Statements:

I have no financial interest in this proposal.

- Correct
- Incorrect

In the blank below please explain any connection to species life history conceptual model, to model developer or to submitting institution (write "none" if no connection):

Review:

1. Is the conceptual model well-designed, accurate, complete, and easily understood? Is the conceptual model clearly presented? What changes would improve its clarity?

2. Does the conceptual model describe a complete picture of the best scientific information available regarding the species, including the sources of information?

Does the conceptual model appropriately identify the assumptions, areas of disagreement, and gaps in the state of knowledge?

3. Does the conceptual model accurately describe what is known about this species, and how certain scientists are that the species behaves in the manner described in the ecosystem? Does the conceptual model allow for evaluation of the dynamic nature of the species population, including the role of uncontrolled drivers (e.g., local and global weather patterns)? Does the conceptual model allow for evaluation of the nature of long-term population trends and the extent and source of variability in those trends?
4. Is the conceptual model fully documented where possible?
5. Does the conceptual model describe the ecosystem elements (e.g., critical processes, habitats, and stressors) that control the species population biology, including pertinent geographic locations or life cycle stages? Does the conceptual model identify the critical temporal and spatial junctures where the ecosystem elements are most important to species recovery and sustainability? Does the conceptual model also highlight the possible limiting factors?
6. Does the conceptual model identify monitoring or research needs that can help address uncertainties or data gaps? What would you recommend adding or changing to address uncertainties and how they would be addressed in the future?