

<b>Model/results</b>	
YES	IFIM (PHABSIM, RIVER2D)/ <i>Spawning WUA, Fry &amp; Juvenile rearing WUA</i>
YES	
YES	
YES	
	IFIM (PHABSIM)/ <i>Spawning WUA, Fry &amp; Juvenile rearing WUA</i>
	IFIM (PHABSIM, RIVER2D)/ <i>Fry &amp; Juvenile rearing WUA</i>
YES	Redd Dewatering Models/ <i>% of redds dewatered</i>
YES	Redd Dewatering Data
YES (for American)	Redd Scour Analysis/ <i>% of months with scouring flows</i>
YES	SALMOD - post-processing
	Egg Mortality model - post-processing
YES. And can you send us the SWRCB 2018 document?	Floodplain Inundation Area vs. Flow Relationships

YES. We note that the Source refers to Table 14; we think it might be referring to Table 15, and ideally we could run the flows through the relationships shown in Figure 11-14, rather than just use the three flow levels in Table 15. Perhaps we could talk early next week.

Definitely YES For the upper Sacramento. Perhaps yes for all tribs, to provide a CV-wide method for consistency. Let's talk about this early next week.  
MAYBE. What are the metrics that this provides? Acre-days?  
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Floodplain Inundation Area  
vs. Flow Relationships

Flow-Habitat Relationship for  
Benthic Macroinvertebrates  
(prey for juveniles salmonids)

Tributaries	Species/Runs/Life Stages	Level of Effort*
Sacramento River - spawning WUA, fry & juvenile rearing WUA	Winter-run, Spring-run (use fall-run as proxy), FR, LFR, Steelhead	5 days
Clear Creek - spawning WUA	Fall-run (spring-run proxy?) Steelhead	3 days
Clear Creek - fry & juvenile rearing WUA	Spring-run and SH (Upper CC) SR, FR, and SH (Lower CC)	4 days
American - spawning WUA	Fall-run Steelhead	2 days
Stanislaus - spawning WUA, fry & juvenile rearing WUA	Fall-run, fry & juvenile rearing Steelhead, fry & juvenile rearing	3 days
	Fall-run, spawning/incubation Steelhead spawning/incubation	
Feather - spawning WUA	Chinook (fall-run) Steelhead	4 days
Feather - juvenile rearing WUA	Chinook (fall-run) Steelhead	
Trinity	Chinook, fry & juvenile rearing Coho, fry & juvenile rearing Steelhead, fry & juvenile rearing	5 days
Sacramento River	Winter-run, Steelhead Fall-run and Late fall-run Spring-run (using fall-run as proxy)	8 days
Clear Creek	Fall-run	2 days
Sacramento River American River	All Chinook salmon runs and Steelhead	3 days
Sacramento River	All Chinook salmon runs	7 days
Sacramento River Stanislaus, Feather, Trinity	All Chinook salmon runs Fall-run	2 days
Stanislaus River	All Chinook salmon runs and Steelhead	5 days

Lower San Joaquin River		
Stanislaus River Lower San Joaquin River Sacramento, upper Sacramento, upper-mid Sacramento, lower Feather American  Sutter Bypass  Yolo Bypass	All Chinook salmon runs and Steelhead, depending on stream.	8 days
Sacramento River	All Chinook salmon runs and Steelhead	5 days

\*Level of effort assumes  
CalSim II results already  
received.

Source	Comments
USFWS 2006, Appdx G USFWS 2005a, Appdx I USFWS 2005b, Appdx J USFWS 2011a, Appdx K	Flow vs. WUA relationships for Sac, American, Stanislaus rivers and Clear Creek may be taken from lookup tables in SITS model.
USFWS 2011b, Appdx K	
USFWS 2013, Appdx L	
USFWS 2003, Appdx E	
Reclamation 2012, Tbl.14	
Aceituno 1993, Appdx D	Validity of spawning WUA results uncertain. Use not recommended
DWR 2004, Figs. 5.5-1 & 5.5-2 Sites DEIR/S Tbl. 12L-8&9	Flow vs spawning WUA relationship for Feather may be taken from lookup tables in SITS model.
Payne, SWRI, DWR 2002, Fig. 2	Validity of rearing WUA results uncertain. Use not recommended
Gallagher-USFWS 1999	Applicability of results uncertain Use not recommended
USFWS 2006	Uses daily time-step. Files very large
USFWS 2105, Table 4	
CWF BA, Appdx 5D	
SWRCB 2018, Table 19-18 USFWS 2014, Fig. 12	

SWRCB 2018, Table 19-21	
Results from SIT model	Flows vs.floodplain inundation rearing habitat area relationships will be taken from lookup tables in SIT Model.
USFWS 2006	

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