Klamath River Sentinel Fish Exposures May 25-28, 2023

as of July 24th 2023

The following is an update for the BOR sentinel fish exposures involving salmonids during May in the Klamath River. 40 Iron Gate Hatchery juvenile Chinook (IGH ChF) and 40 known out-of-basin susceptible rainbow trout (Rbt) were exposed for 72 hr May 25-28 at 5 Klamath River index sites, spanning from the lower to upper-river (see Table below for locations) and 1 site on the Williamson River. Average river temperatures during the exposure ranged from 14.4-18.2°C. Fish have been held for 57 days post-exposure at the Aquatic Animal Health Laboratory at 18°C and monitored daily. Percent mortality was calculated after 5 days (mortalities that occur within 5 days post-exposure are not included), assuming 40 IGH ChF and 40 Rbt.

Site	Fish Species	Percent Mortality*	% Mortalities visually *Cs* Positive**
Williamson River -Nature Conservancy (WMR)	IGH ChF	2.5%	0%
	Rbt	100% (40/40 fish)	62.5% (25/40 fish)
Keno Eddy (KED)	IGH ChF	0%	
	Rbt	0%	
Above I-5 Bridge (KI5)	IGH ChF	22.5% (9/40 fish)	44% (4/9 fish)
	Rbt	82.5% (33/40 fish)	94% (31/33 fish)
Above Beaver Creek (KBC)	IGH ChF	42.5% (17/40 fish)	76% (13/17 fish)
	Rbt	85% (34/40 fish)	100%
Below Seiad Valley (KSV)	IGH ChF	5% (2/40 fish)	50% (1/2 fish)
	Rbt	95% (38/40 fish)	97% (37/38 fish)
Above Orleans (KOR)	IGH ChF	10% (4/40 fish)	75% (3/4 fish)
	Rbt	87.5% (35/40 fish)	100%
Non-exposed control	IGH ChF	0%	
	Rbt	4% (1/25 fish)	0%

* Fish in this category may be pending examination. **Fish are classified as visually positive if mature myxospores are observed.

Studies funded by BOR. These data are preliminary and subject to change.