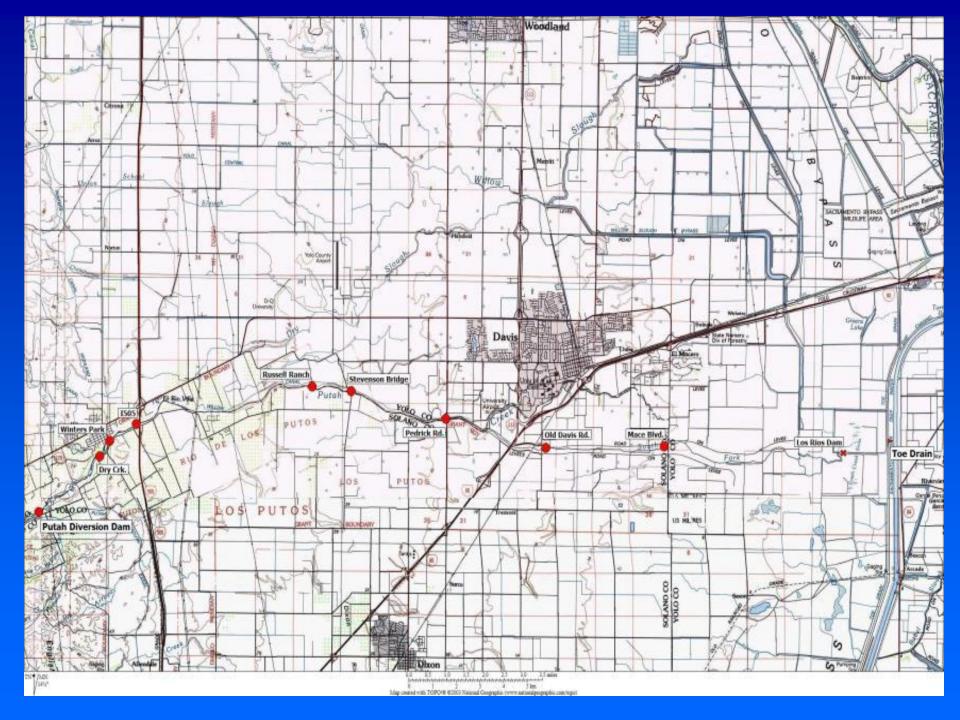


TRPA Fish Biologists staff have been conducting fish and water quality monitoring surveys on Putah Creek since 1991

The October 2018 fish survey represents the latest in a longterm monitoring effort that have documented the benefits of of the Putah Creek Accord and other restoration efforts

We currently survey nine sites along the 25.4 miles of creek between the PDD and the Toe Drain.

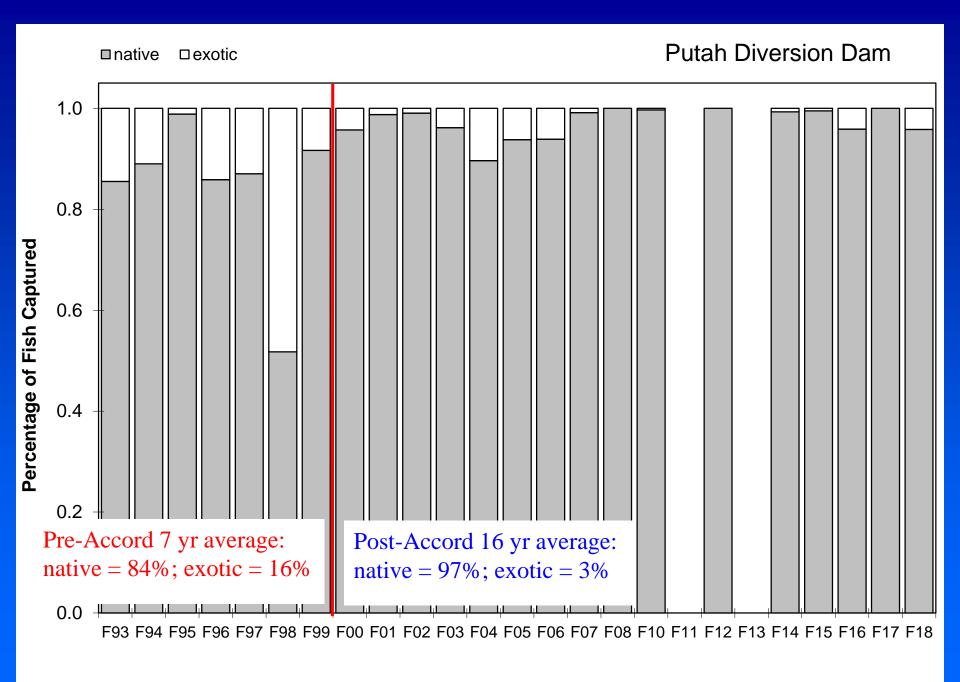


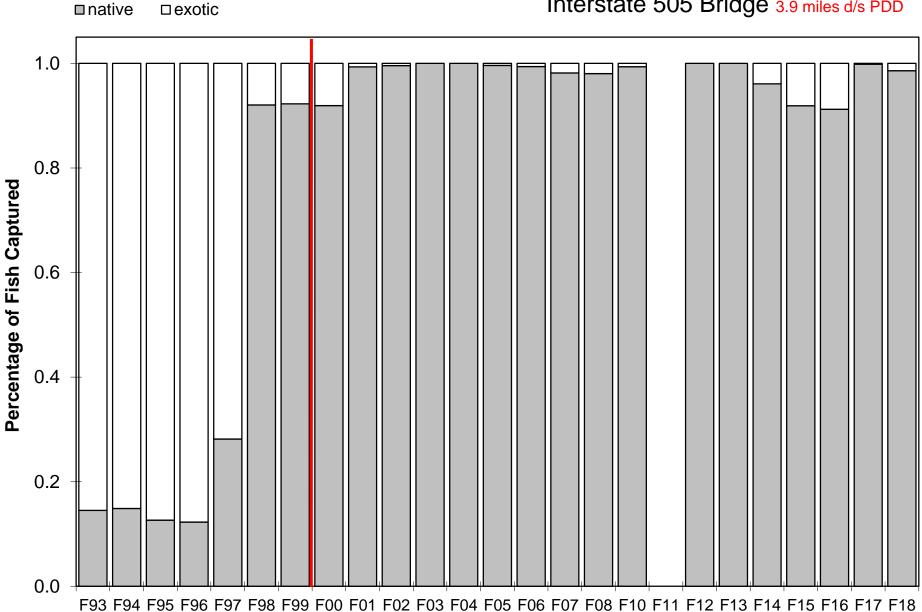
Six of the nine sites currently surveyed have been surveyed since 1991



These sites were first surveyed in the summer of 1991, then in both the summer and fall (1993-2000) then only the fall (2001-2018)

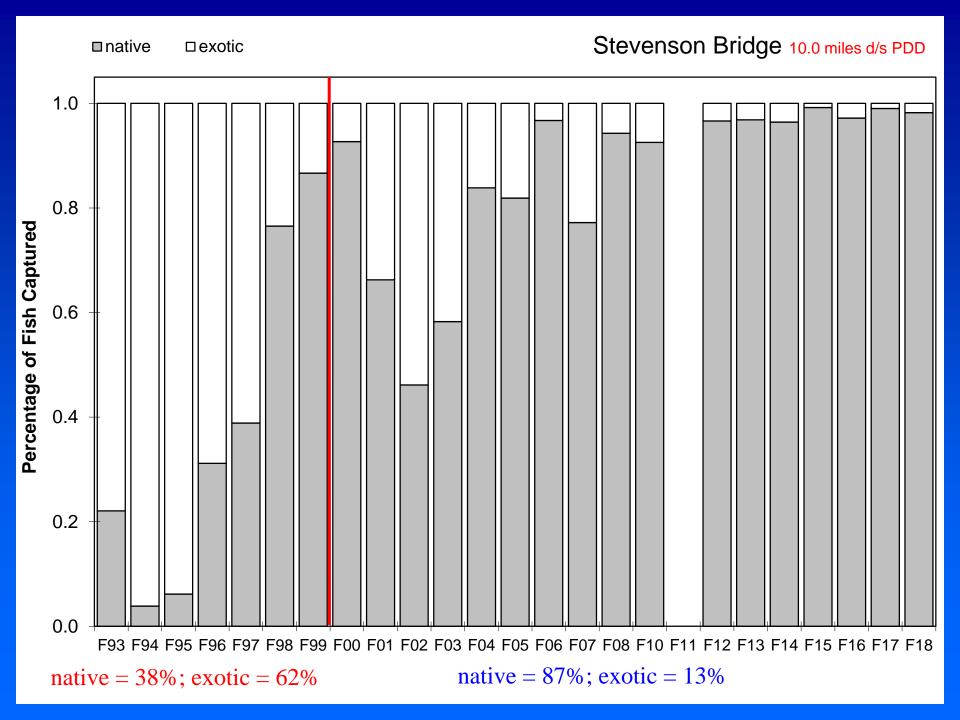
I am going to limit my remarks to the longest sequence of 24 fall surveys (1993-2018)

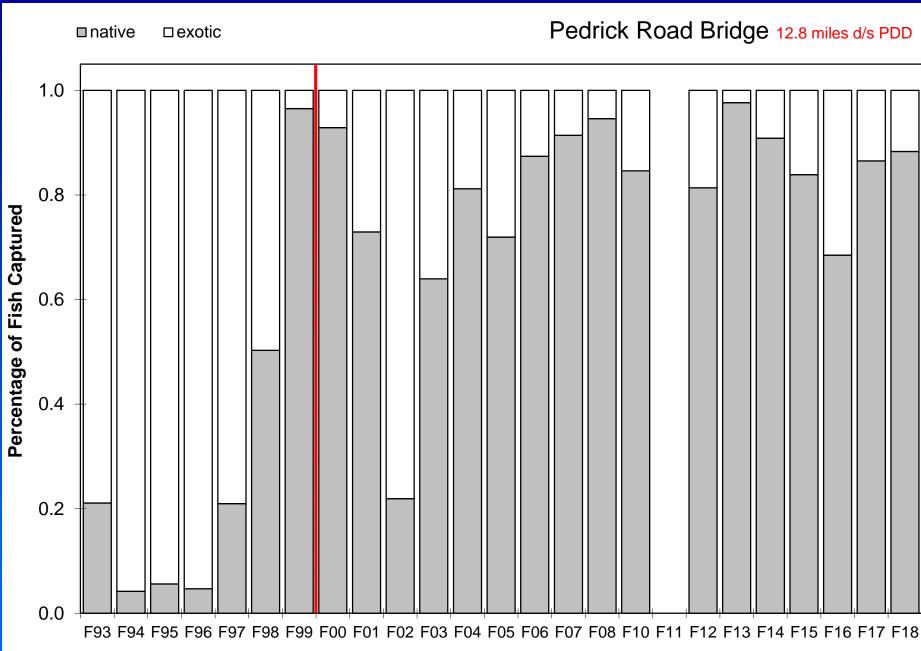




native = 38%; exotic = 62%

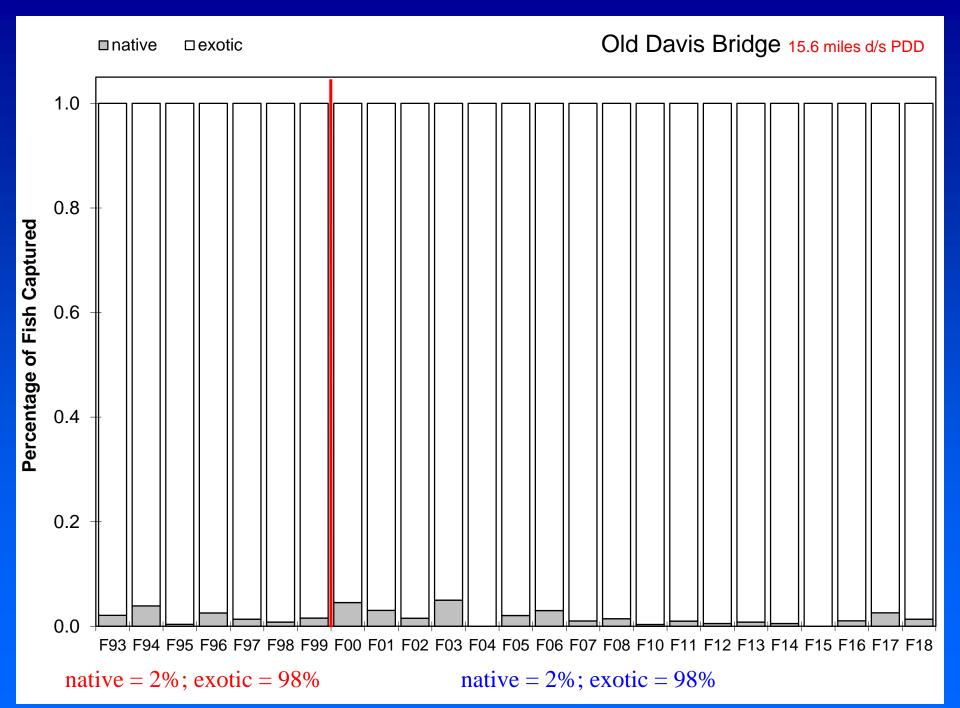
native = 98%; exotic = 2%

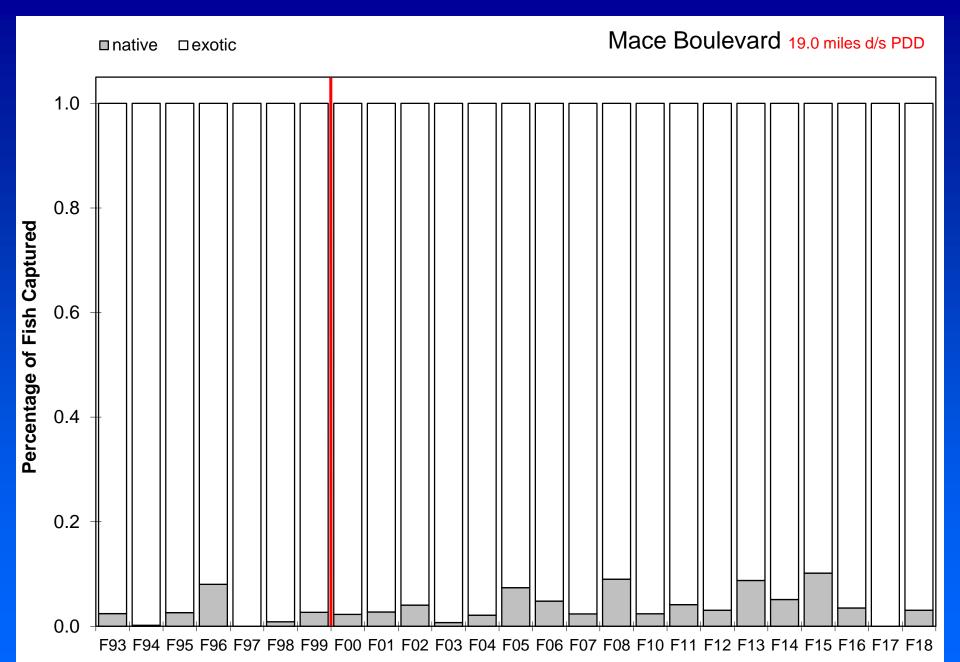




native = 29%; exotic = 71%

native = 80%; exotic = 20%

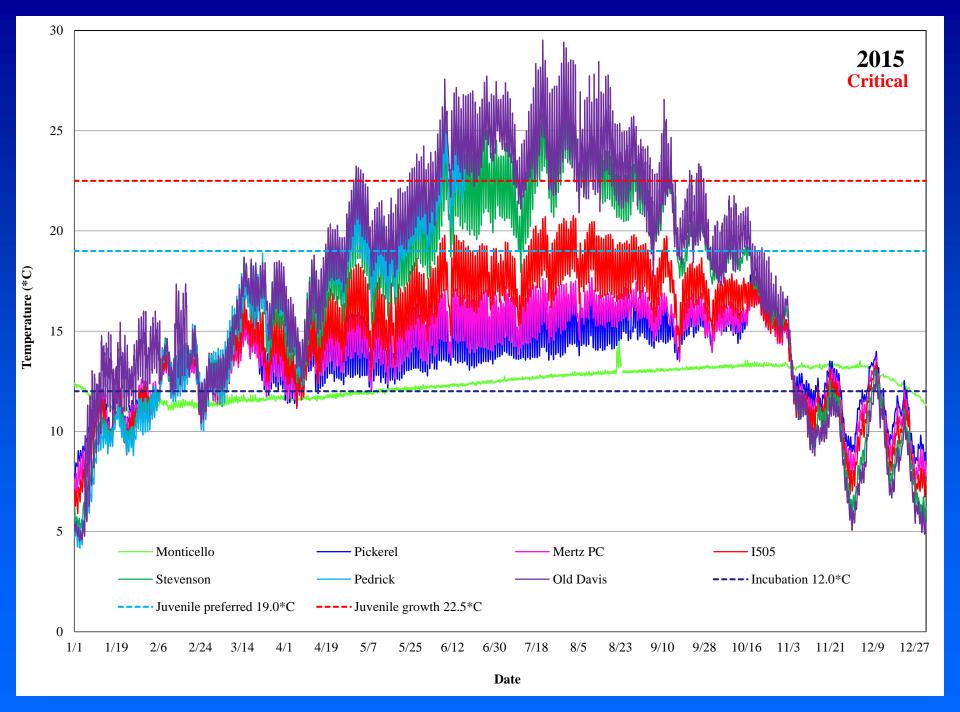


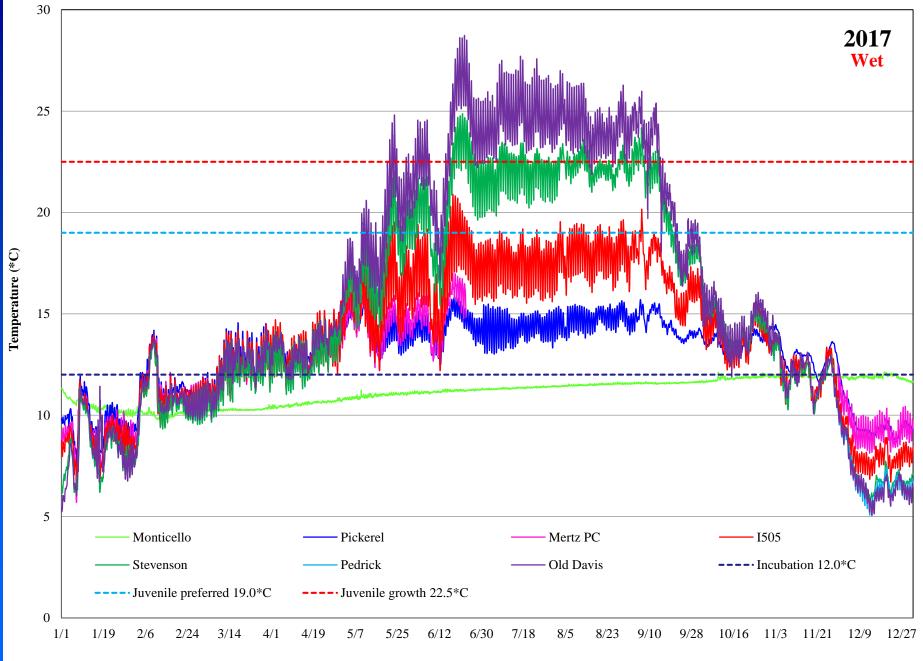


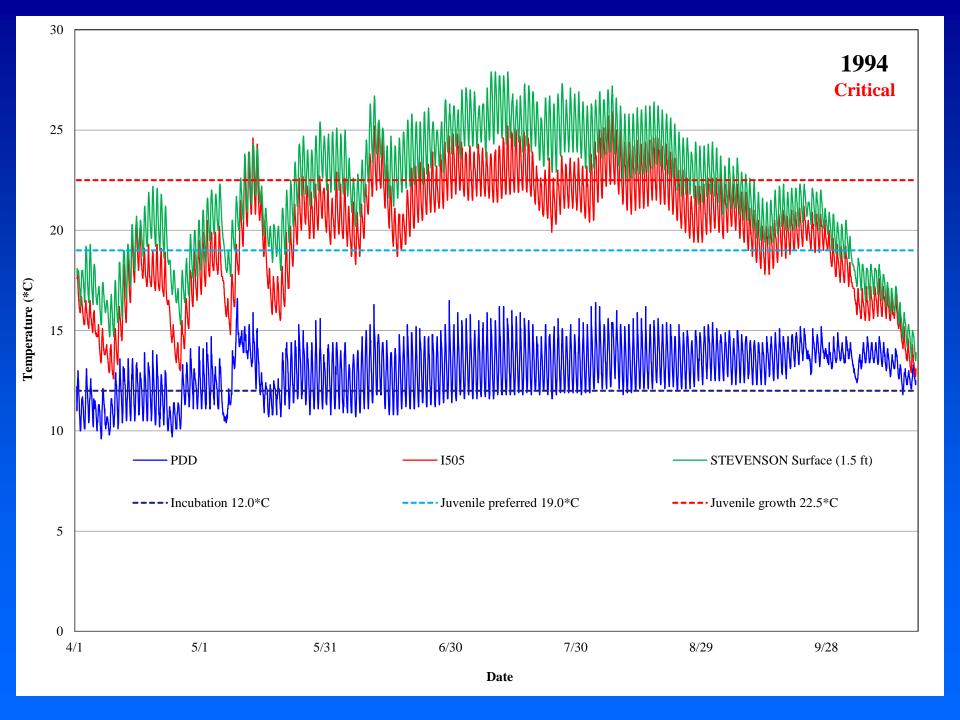
native = 4%; exotic = 96% native = 2%; exotic = 98%

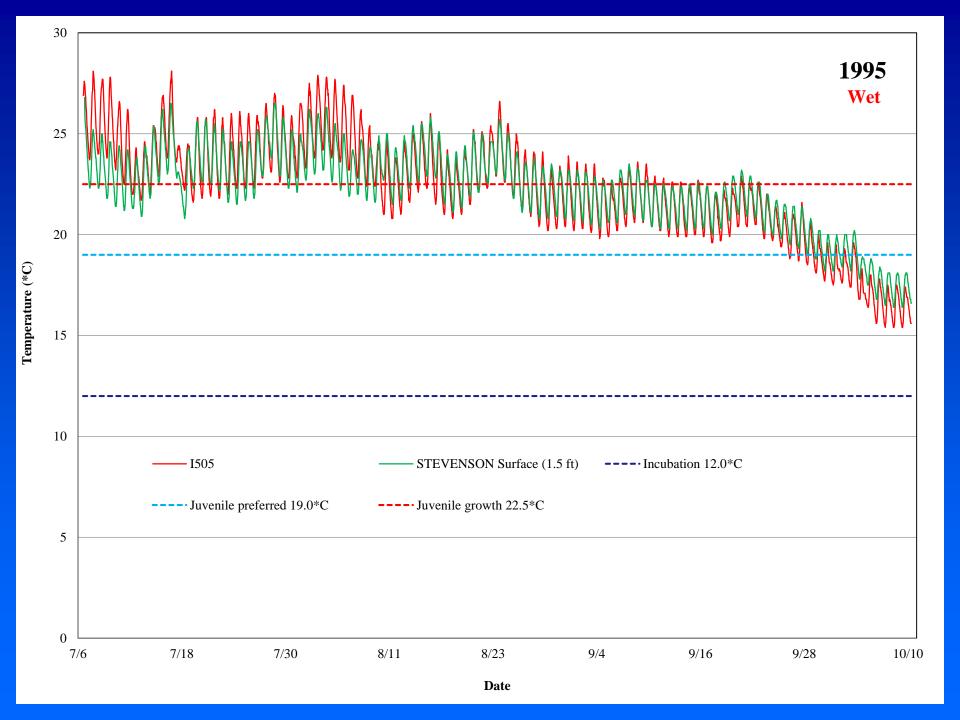
24 years of surveys (1993-2018) Conditions for native fish in 13 miles of Putah Creek between PDD and Pedrick Road have improved since the May 2000 Accord and the 'live stream' flows as measured at I-80, with highest reductions in exotics occurring between miles 4 and 13 (1505 to Pedrick).

Temperature monitoring indicates suitable temperatures for year-round rearing of steelhead (and resident trout) extend to I-505 (3.9 miles below PDD) and probably beyond toward Stevenson area (10 miles below PDD). We now catch juvenile trout as far downstream as Russell Ranch area (9.2 miles below PDD).

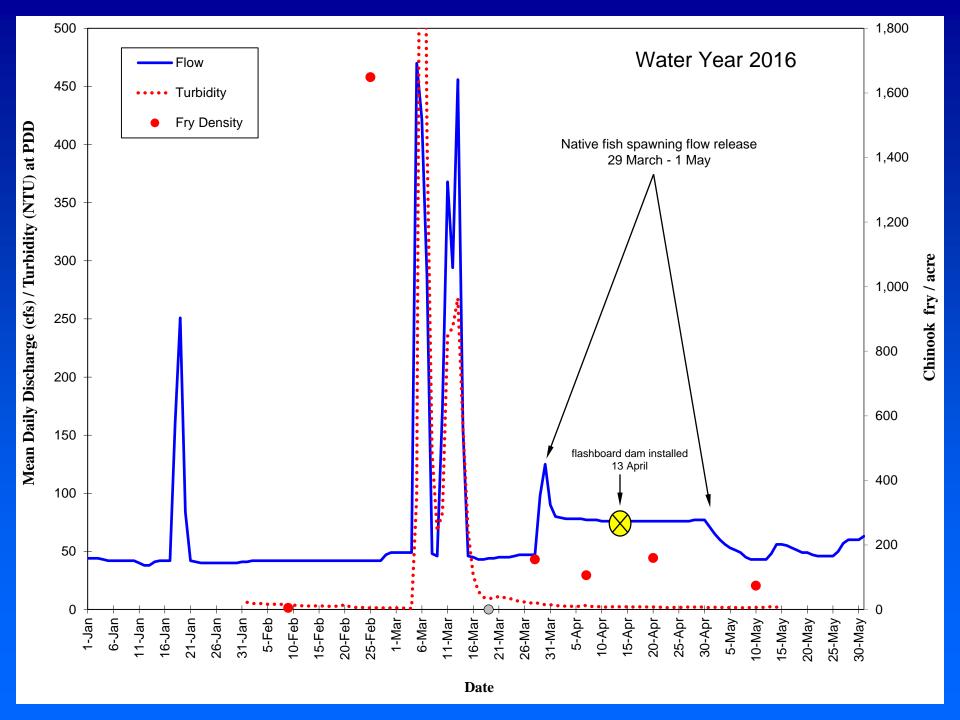


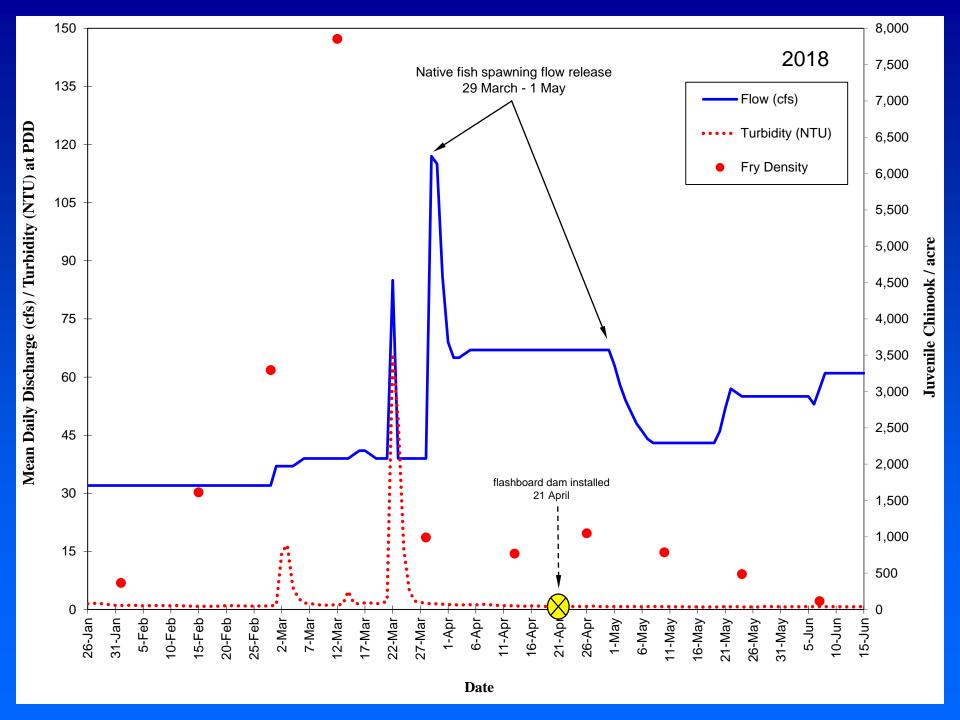






Juvenile Chinook salmon surveys conducted in 2016 and 2018 to determine emergence, distribution and abundance patterns and emigration/over-summering





October 2016 and 2018 found juvenile Chinook that over-summered in Putah Creek near PDD

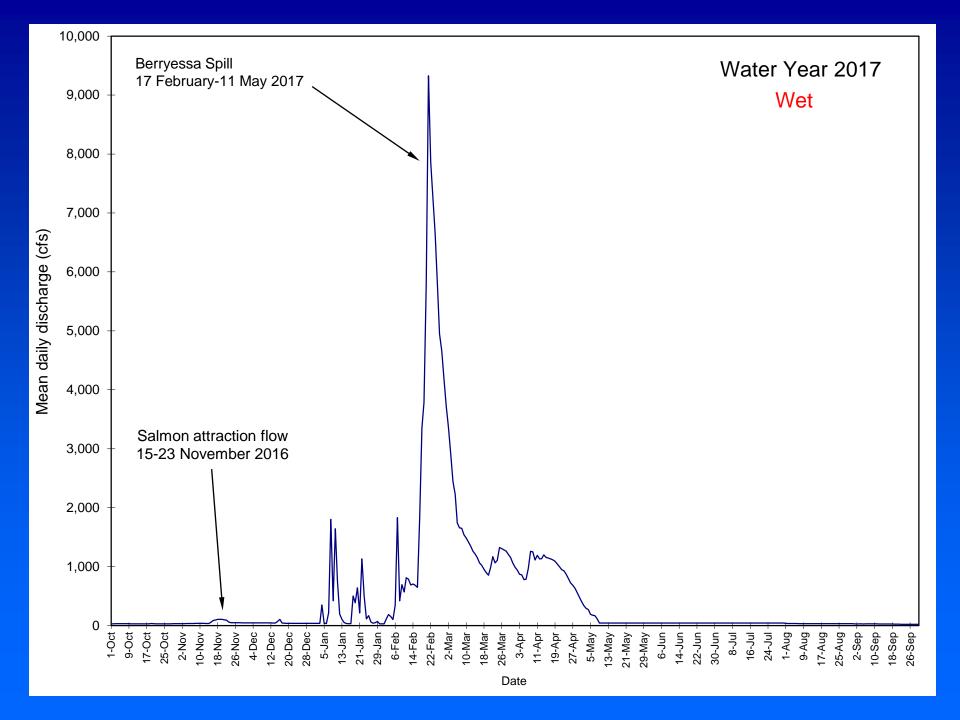


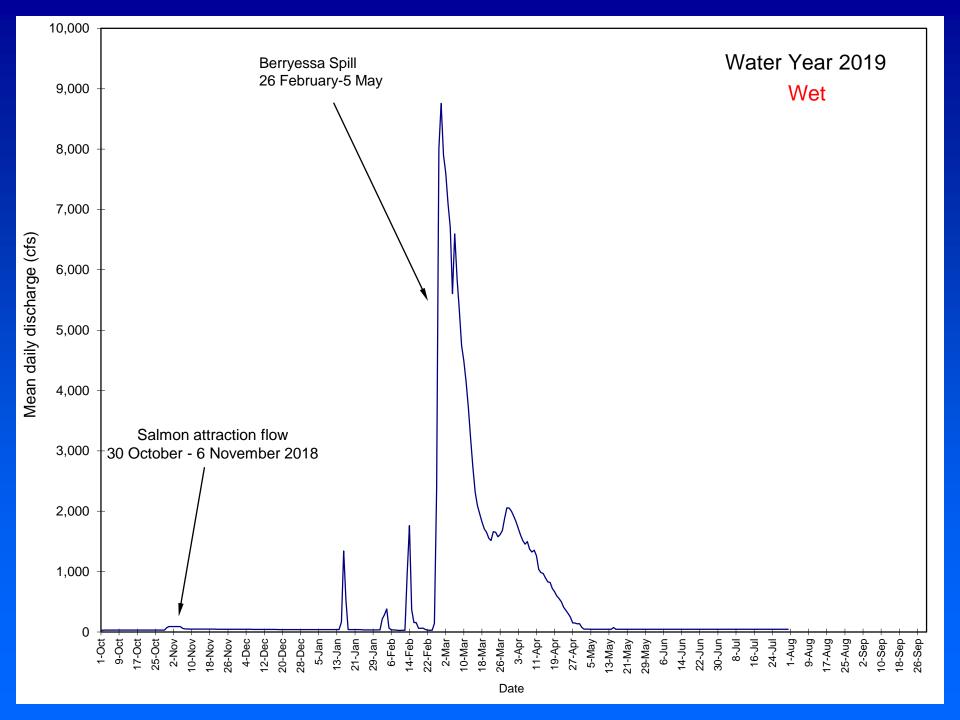


October 2016

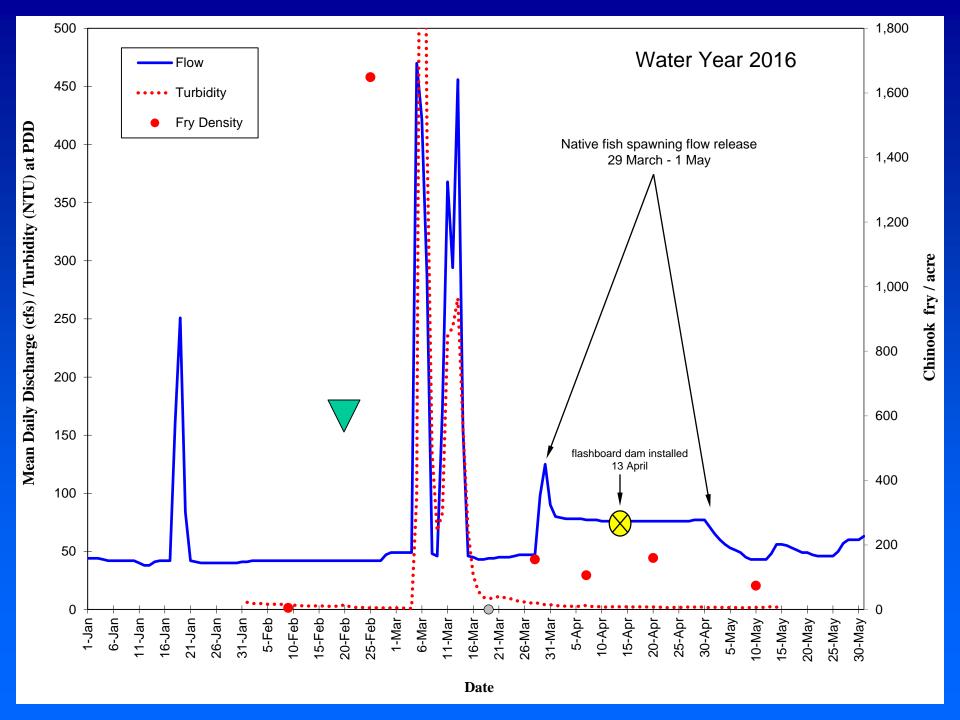
October 2018

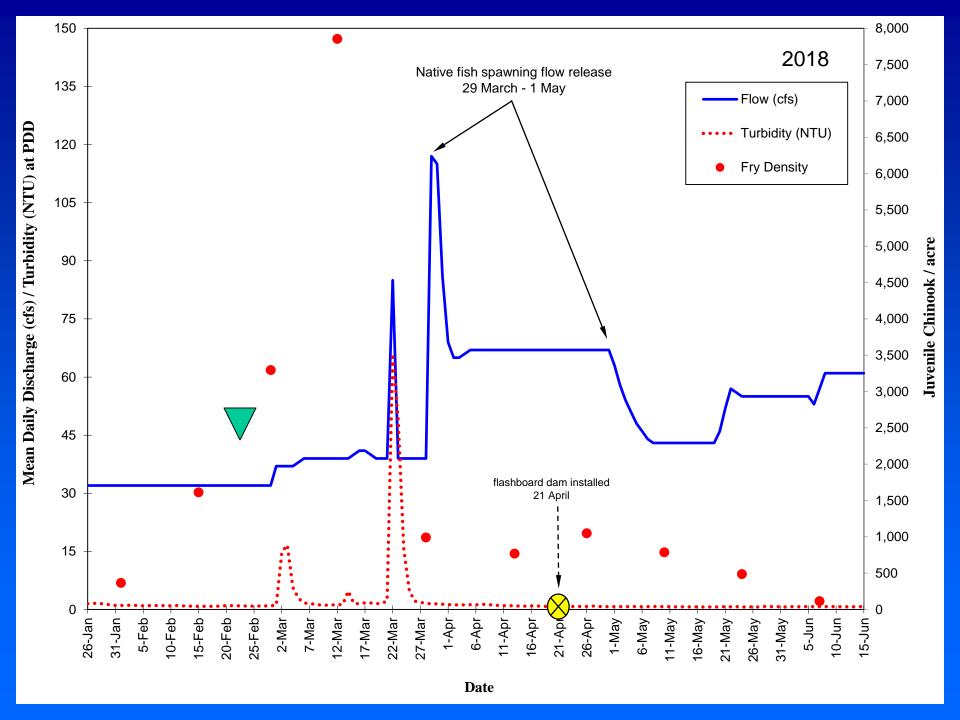
No surveys in 2017 or 2019 as these were wet years when Lake Berryessa spilled





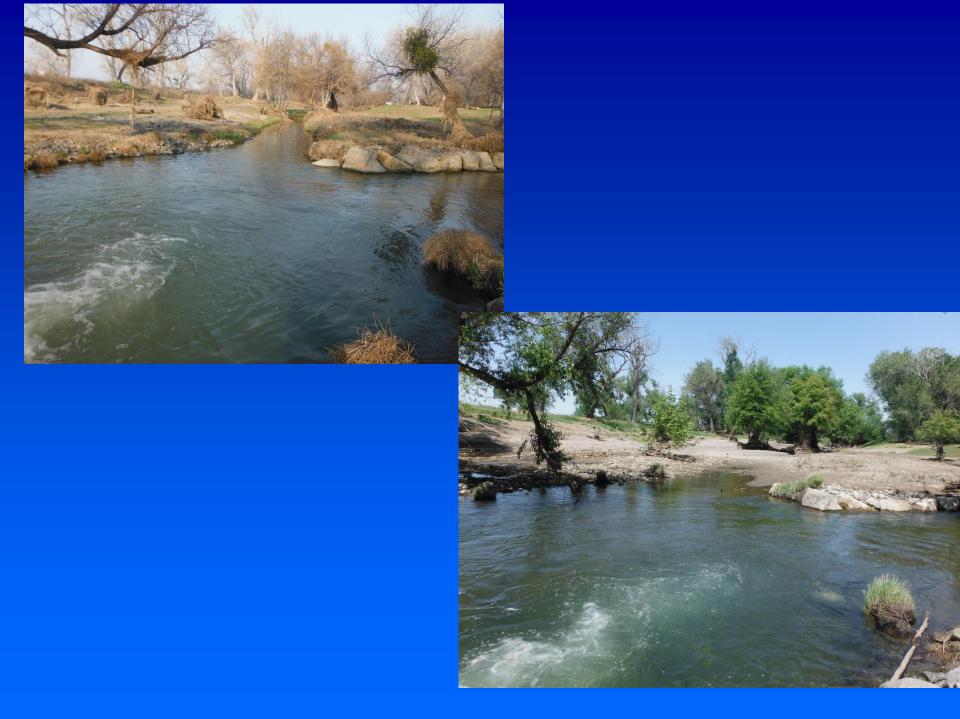
The 2017 and 2019 spills and extended high flows probably destroyed most of the fry production by burying/scouring redds prior to emergence or washing small and vulnerable newly emergent fry downstream into less suitable habitat or out of basin





Noted channel and substrate changes during our January and late May 2019 snorkel surveys

Largest and most sever changes occurred just below PDD, but some at Dry Creek confluence and at Winters Bridge

















Next fish monitoring scheduled for mid-October 2019 and hope to continue winter/spring juvenile chinook snorkel surveys in late January 2020

