
From: Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>
Sent: Friday, December 7, 2018 3:24 PM
To: Sonke Chrissy
Cc: Andrea Fuller; Matt Peterson
Subject: Request for Stanislaus River fish data

Chrissy --

Per Andrea's suggestion, I am reaching out to you with a request for fish information from the Stanislaus River relevant to the reinitiation of ESA consultation on the long-term operations of the CVP and SWP (i.e., reinitiation of the 2009 NMFS BiOp). I am the staff lead for the analysis of East Side Division operations, specifically, the operations of New Melones and associated conditions in the Stanislaus River.

Below are some specific data requests based on information I believe to have been collected by FISHBIO. Please also share any additional information you think relevant for our review. I would like to have this information by February 1, 2018.

WEIR DATA

Weir summary sheets: I have the latest weir worksheet from your distribution list. Are the previous year's data in those worksheets the QA/QC'ed version? If so, I am mostly set, please just send the QA/QC'd version for fall 2018. If not, please send QA/QC'd versions of previous years back to 2003, when the weir was first installed. I do already have a QA/QC'd version for fall 2017 (related to my SOG Annual Report request -- thanks).

Weir individual data: I would like to have data for Chinook and *O. mykiss* passage for each year by individual fish, with (for example), each row containing information such as species, day/month/year of passage, time of passage, length of fish, and ad-clip status.

ROTARY SCREW TRAP DATA

RST requests applies to the Oakdale RST location, and Caswell, too (if FISHBIO ever sampled at Caswell).

RST summary data: If you have some syntheses of RST salmonid data, I'd be interested in seeing those.

RST individual data: I would like to have data for Chinook and *O. mykiss* capture for each year by individual fish, with (for example), each row containing information such as species, day/month/year of capture, time of passage, length of fish, lifestage (e.g. fry, parr, smolt), mark status. In the RST data, I assume that some sort of mark means that fish are being used for efficiency trials and should be excluded for purposes of assessing outmigration timing -- let me know if there are circumstances in which marked fish should be included in an assessment of migration timing.

O. MYKISS SNORKEL SURVEY DATA

Population size: Please share relevant data or reports on snorkel survey-based population estimates of *O. mykiss* in the Stanislaus River. I already have the August 2016 "The Status of Rainbow Trout (*Oncorhynchus mykiss*) in the Stanislaus River" report.

Spatial distribution: I am also interested in information, if available on the intra- and inter-year distribution of *O. mykiss* in the river. In particular, I am interested in the downstream extent of *O. mykiss* from May-October, in the context of evaluating alternate compliance locations for temperature management and dissolved oxygen. If you have already compiled environmental covariates for your surveys (e.g. water temperature and flow), please include those covariates.

STANISLAUS-SPECIFIC MONITORING REPORTS

I have the following reports/articles based on Stanislaus River fish monitoring (not necessarily conducted by FISHBIO). Please share other relevant reports or articles that you recommend I review.

- Demko, D.B., Christine Gemperle, Steven P. Cramer, and Andrea Phillips. 1998. Evaluation of juvenile Chinook behavior, migration rate, and location of mortality in the Stanislaus River through the use of radio tracking. Prepared for Tri-dam Project. December 1998. S.P. Cramer & Associates, Inc. 72 pages.
- Demko, Douglas B., Christine Gemperle-Bacon, and Steven P. Cramer. 1998 (presumed). Effects of pulse flows on juvenile Chinook migration in the Stanislaus River: 1998 Annual Report. Prepared for South San Joaquin Irrigation District and Oakdale Irrigation District. S.P. Cramer & Associates, Inc. 83 pages.
- Demko, D.B., Christine Gemperle, Steven P. Cramer, and Andrea Phillips. 1999. Outmigrant trapping of juvenile salmonids in the lower Stanislaus River Caswell State Park site: 1998. Prepared for U.S. Fish and Wildlife Service under contract with CH2M Hill. February 1999. S.P. Cramer & Associates, Inc. 53 pages.
- Demko, D.B. and S.P. Cramer. 1999 (presumed). Effects of pulse flows on juvenile Chinook migration in the Stanislaus River: 1999 Annual Report. Prepared for South San Joaquin Irrigation District and Oakdale Irrigation District. S.P. Cramer & Associates, Inc. 70 pages.
- Demko, Douglas B., Andrea Phillips, and Steven P. Cramer. 1999 (presumed). Juvenile Chinook migration characteristics in the Stanislaus River: 1999 Annual Report. Prepared for South San Joaquin Irrigation District and Oakdale Irrigation District. S.P. Cramer & Associates, Inc. 104 pages.
- Demko, Douglas B., Christine Gemperle, Andrea Phillips and Steven P. Cramer. 2000. Outmigrant trapping of juvenile salmonids in the lower Stanislaus River Caswell State Park site: 1999. Submitted to U.S. Fish and Wildlife Service under subcontract to CH2M Hill. September 2000. S.P. Cramer & Associates, Inc. 155 pages.
- Demko, D.B. and S.P. Cramer. 2000 (presumed). Effects of pulse flows on juvenile Chinook migration in the Stanislaus River: 2000 Annual Report. Prepared for South San Joaquin Irrigation District and Oakdale Irrigation District. S.P. Cramer & Associates, Inc. 57 pages.
- Kennedy, Trevor. 2008. Stanislaus River salmonid density and distribution survey report (2005-2007). Draft. June 2008. 16 pages. Prepared by Fishery Foundation of California for U.S. Bureau of Reclamation.
- Kennedy, Trevor and Thomas C. Cannon. 2002. Stanislaus River salmonid density and distribution survey report (2000-2001). Final Draft. December 2002. 37 pages. Prepared by Fishery Foundation of California for U.S. Fish and Wildlife Service.
- Kennedy, Trevor and Thomas Cannon. 2005. Stanislaus River salmonid density and distribution survey report (2002-2004). October 2005. 51 pages. Prepared by Fishery Foundation of California for U.S. Bureau of Reclamation.
- Peterson, Matt, Jason Guignard, Andrea Fuller, Doug Demko. 2016. The status of rainbow trout (*Oncorhynchus mykiss*) in the Stanislaus River: Summary report of 2015 snorkel surveys. August 2016. 13 pages.
- Peterson, Matthew L., Andrea N. Fuller, Doug Demko. 2017. Environmental factors associated with the upstream migration of fall-run Chinook salmon in a regulated river. *North American Journal of Fisheries Management* 37: 78-93.
- Pyper, Brian and Casey Justice. 2006. Analyses of rotary screw trap sampling of migrating juveniles Chinook salmon in the Stanislaus River, 1996-2005. August 2006. 141 pages.
- Pyper, Brian, Jody B. Lando and Casey Justice. 2006. Analyses of weir counts and spawning surveys of adult Chinook salmon in the Stanislaus River. September 2006. 63 pages.
- Watry, Clark B., Ayesha Gray, Ryan Cuthbert, Brian Pyper, and Kathryn Arendt. 2007. Out-migrant abundance estimates and coded wire tagging pilot study for juvenile Chinook salmon at Caswell Memorial State Park in the lower Stanislaus River, California: 2007 Annual Data Report. Prepared by

Cramer Fish Sciences for U.S. Fish and Wildlife Service, Anadromous Fish Restoration Program. Grant No. 813326G008.

- Watry, Clark B., Ayesha Gray, John Montgomery, Casey Justice, and Joseph E. Merz. 2008. Juvenile salmonid out-migration monitoring at Caswell Memorial State Park in the lower Stanislaus River, California: 2008 Annual Data Report. Prepared by Cramer Fish Sciences for U.S. Fish and Wildlife Service, Anadromous Fish Restoration Program. Grant No. 813326G008.

Thanks,
Barb

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