Delta Operations for Salmonids and Sturgeon (DOSS) Group
Data only: 12/24/13

Objective: Provide advice to the Water Operations Management Team (WOMT) and National Marine Fisheries Service (NMFS) on measures to reduce adverse effects from Delta operations of the Central Valley Project and the State Water Project on salmonids and green sturgeon. DOSS will work with other technical teams. DOSS notes and advice can be found at: http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/doss.html.

NOTE: Because of the holiday schedule, no official DOSS meeting was held today; however, data were received and disseminated to the DOSS group, and are recorded here.

Fish Monitoring: The following table presents fish monitoring data. Unless otherwise noted, reported sizes are fork length. See also: http://www.water.ca.gov/swp/operationscontrol/calfed/calfedmonitoring.cfm.

Location	Chipps Is. Midwater Trawl	Sacramento Trawls	Mossdale Kodiak Trawl	GCID*	Knights Landing RST	Tisdale RST	Beach Seines
Sample Date	12/16, 18, 20	12/16, 18, 20	12/16, 18, 20	12/23	12/17–23	12/17–24	12/16–18, 20
Total Catch	**20**	**0**	**0**	**80**	**0**	**2**	**0**
FR				67			
WR				4		2	
SR				5			
LFR				2			
Ad-Clipped Chinook				2**			
DS	13 (58–67 mm; no expression)						
Splittail							
Longfin	7 (103–129 mm; 2 w/eggs)						
SH (ad-clip)							
SH (wild)							
W. Temp. (avg. °F)	47.5	46.0	46.6	56.0	46.0	45.0	46.0
Flows (avg. cfs)					4,638	4,346	
Turbidity (avg. NTU)	18.9	8.9	6.9	1.3	4.0	7.7	13.4
WR/LFR Avg. CPUE				3.44		0.009	
FR/SR Avg. CPUE							

CPUE = catch per unit of effort reported as the average fish/hour over reported sampling dates; ACT = acoustic tag; GCID = Glenn–Colusa Irrigation District; RST = rotary screw trap
[1]Note that FTU is used at Knight's Landing in place of NTU.
*The GCID rotary screw trap was removed from the GCID's bypass channel for repairs on 12/12. Trapping restarted on 12/22 at 10 a.m. Sampling will continue until further notice.

**Two marked adipose fin–clipped Chinook salmon were recovered on 12/23 and classified by length at date as winter run. Livingston Stone National Fish Hatchery has not released any clipped winter-run salmon this year.

Tisdale: Cones raised; traps not fishing during night hours on 12/17 and 12/21–22. Cones will be raised again tonight (12/24) after being checked; trapping will resume on 12/26.

Fish Salvage: Fujimura (DFW) reported data from 12/16–22. No listed fish species or white sturgeon were salvaged at SWP or CVP during this period. As of this writing, no report had been received for 12/23.

Operations (12/24/13)

SWP		CVP	
Exports (cfs)			
Clifton Court Forebay	2,000	Jones Pumping Plant	1,000
Reservoir Releases (cfs)			
Feather - Oroville	1,250	American - Nimbus	1,300
		Sacramento - Keswick	3,750
		Stanislaus - Goodwin	200
Reservoir Storage (in TAF, % of capacity)			
San Luis (SWP)	256 (24)	San Luis (CVP)	317 (33)
Oroville	1,324 (37)	Shasta	1,671937)
New Melones	1,047 (43)	Folsom	200 (20)
Delta Operations			
DCC	Closed (on 12/1)	Sacramento River at Freeport (cfs)	8,568
Outflow Index (cfs)	~4,700	San Joaquin River (cfs) at Vernalis	976
Total Delta Inflow (cfs)	~10,004	OMR (daily) (cfs)	
Water Temperature (°F)		OMR 5-day avg (cfs)	
X2 (km)	81	OMR 14-day avg (cfs)	
E/I (%)	29.4 (3-d avg)		

RPA Actions:

- IV.1.1 (monitoring and alerts for DCC gate operations): No alerts tripped in the past week.
- IV.1.2 (DCC gate operations): No triggers exceeded in the past week.
- IV.3 (salvage and entrainment reduction): No triggers exceeded in the past week; this action will end 12/31.
- IV.2.3 (OMR flow management): This action begins 1/1/14.

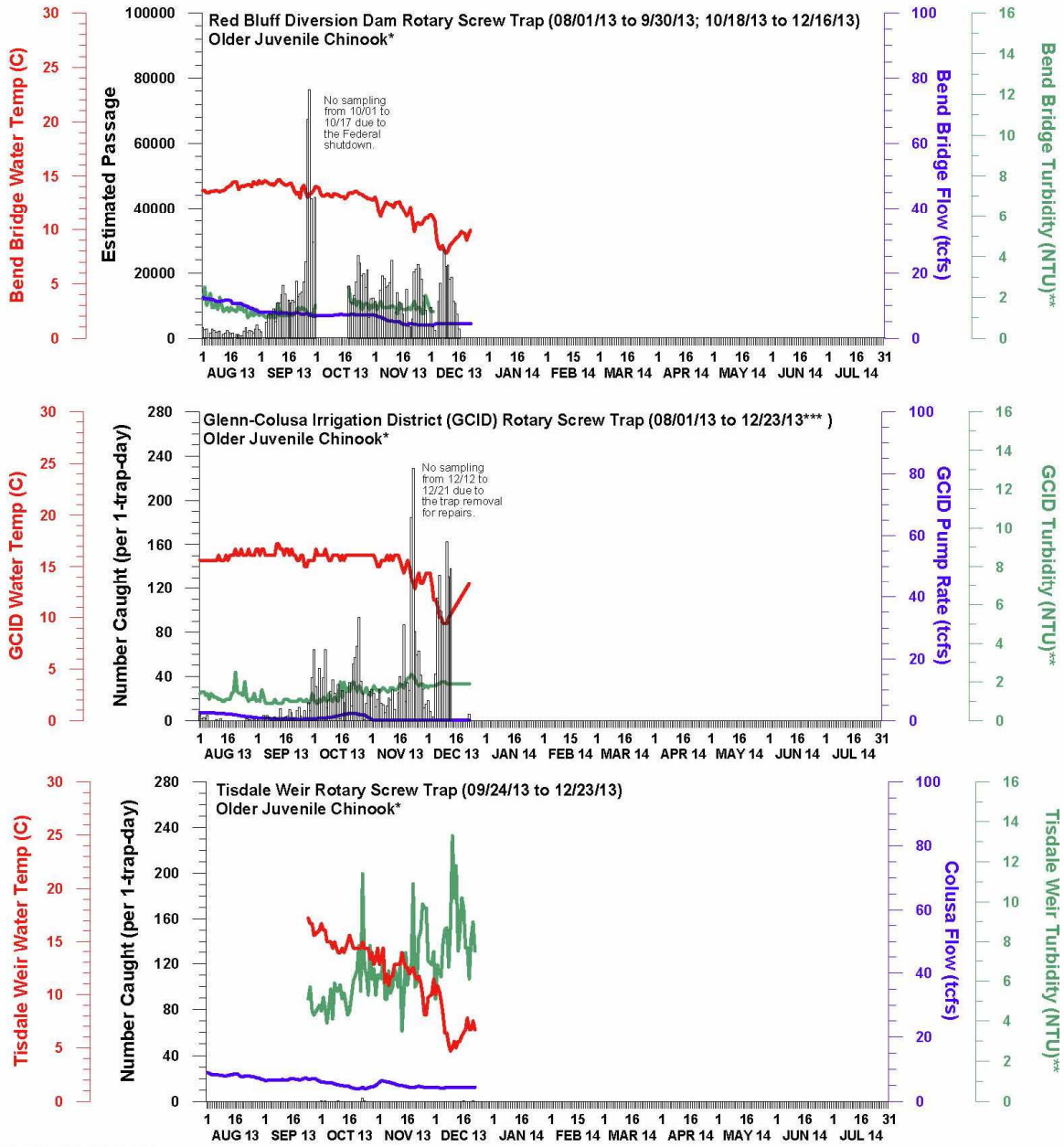
Smelt Working Group (SWG): Data were distributed to participants on 12/23, but SWG did not meet. Previous SWG meeting notes are available at: http://www.fws.gov/sfbaydelta/cvp-swp/smelt_working_group.cfm.

DOSS Advice to WOMT and NMFS: None

Next Meeting: Next Meeting: The next scheduled DOSS conference call will be on 1/7/14 at 9:00 a.m. Data will be distributed on 12/31 but no phone call is scheduled because of the holiday.

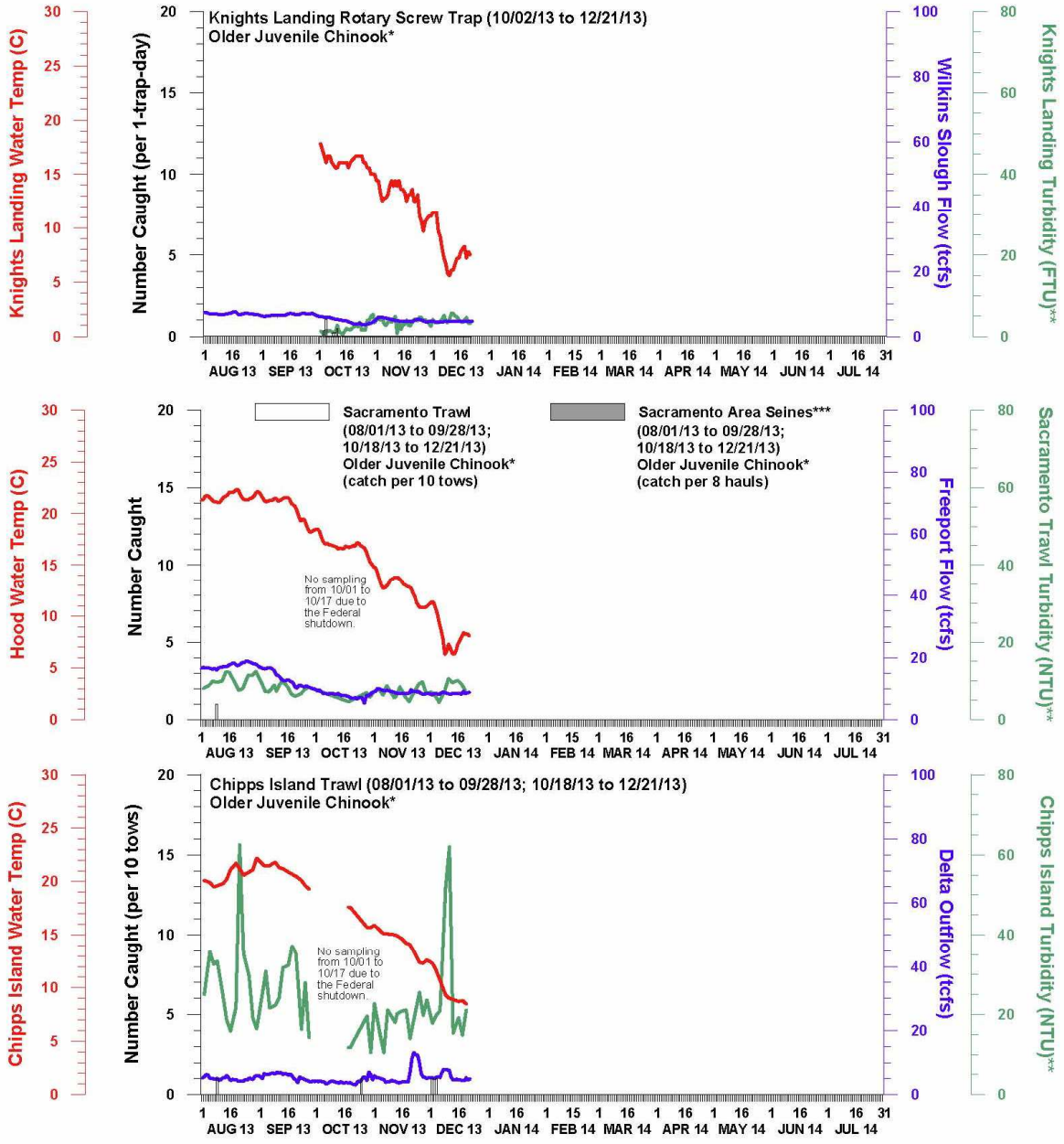
Below are graphs provided by DWR for Chinook salmon and steelhead observed at monitoring locations in the Sacramento and San Joaquin rivers and Delta. For additional graphs, please visit the DWR website at:
http://www.water.ca.gov/swp/operationscontrol/calfed/calfedmonitoring.cfm.

NUMBER OF UNMARKED OLDER JUVENILE CHINOOK MEASURED IN THE SACRAMENTO RIVER



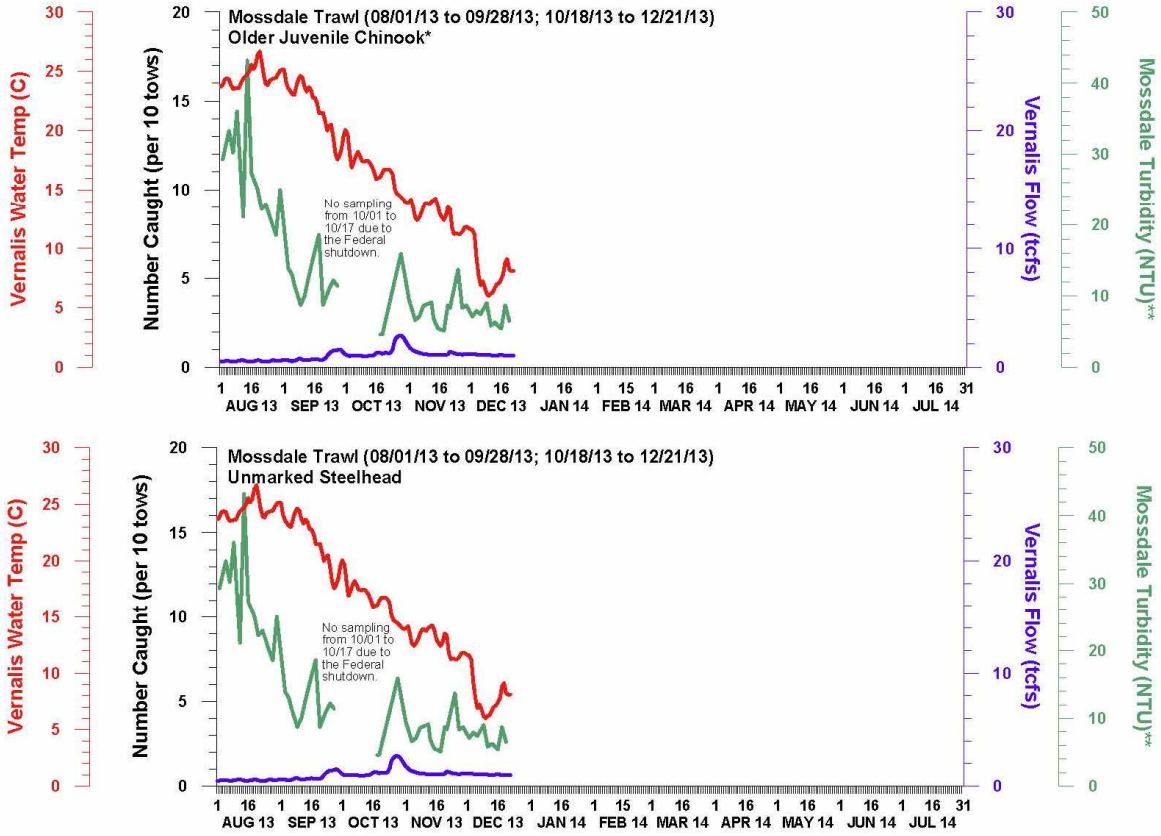
DWR-DES 23 DEC 2013
Preliminary data from DFW, FWS, GCID, and CDEC; subject to revision.
*Older juvenile Chinook defined as all Chinook greater than or equal to the minimum winter run length-at-date criteria and less than the maximum size included in the length-at-date criteria (Frank Fisher model) for which a race is assigned on a given sampling date.
**Turbidity is a discrete measurement and is not measured continuously. Therefore, data are interpolated on days when turbidity was not measured.
***GCID: Five older juveniles caught on 9/25, 9 older juveniles caught on 9/27, 57 older juveniles caught on 10/5 and 23 older juveniles caught on 11/14. However, catch could not be standardized to 1-trap day since hours fished could not be calculated due to problems with the revolution counter. As a result, data are not presented on the graph. The GCID rotary screw trap was removed on Dec 12,2013 for repairs and resumed on Dec 22,2013.

NUMBER OF UNMARKED OLDER JUVENILE CHINOOK MEASURED IN THE LOWER SACRAMENTO RIVER AND CHIPPS ISLAND



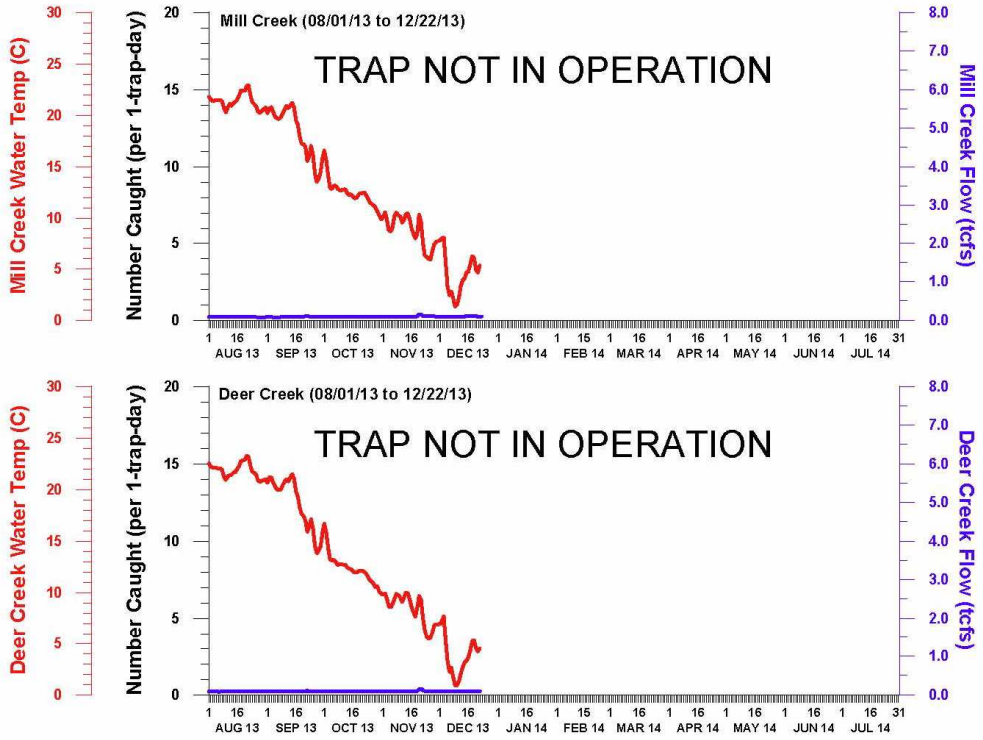
DWR-DES 23 DEC 2013
Preliminary data from DFW, FWS, and CDEC; subject to revision.
*Older Juvenile Chinook defined as all Chinook greater than or equal to the minimum winter run length-at-date criteria and less than the maximum size included in the length-at-date criteria (Frank Fisher Model) for which a race is assigned on a given sampling date.
**Turbidity is a discrete measurement and is not measured continuously. Therefore, data are interpolated on days when turbidity was not measured. Knights Landing turbidity measured in FTU, which should be roughly equivalent to NTU.
***Sacramento area seine route consists of the following seine sites: Verona, Elkhorn, Sand Cove, Discovery Park, American River, Miller Park, Sherwood Harbor, and Garcia Bend. Bars are stacked if Chinook caught from the trawl and seines are from the same day.

NUMBER OF UNMARKED OLDER JUVENILE CHINOOK AND STEELHEAD MEASURED IN THE SAN JOAQUIN RIVER



DWR-DES 23 DEC 2013
Preliminary data from FWS and CDEC; subject to revision.
*Older juvenile Chinook defined as all Chinook greater than or equal to the minimum winter run length-at-date criteria and less than the maximum size included in the length-at-date criteria (Frank Fisher model) for which a race is assigned on a given sampling date.
**Turbidity is a discrete measurement and is not measured continuously. Therefore, data are interpolated on days when turbidity was not measured.

WATER TEMPERATURE AND FLOW MEASURED AT MILL AND DEER CREEK



DWR-DES 23 DEC 2013
Preliminary data from CDEC; subject to revision.