

Delta Operations for Salmonids and Sturgeon (DOSS) Group
Conference call: 6/14/16 at 9:00 a.m.

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.

DWR: Rhiannon Mulligan, Bryant Giorgi, Mike Ford, Kevin Reece
NMFS: Barb Byrne, Kristin McCleery
CDFW: Bob Fujimura, Ken Kundargi, Duane Linander
SWRCB: Brittany Kammerer, Chris Carr
FWS: Craig Anderson

Agenda Items

1. Agenda review and introductions
2. RPA Implementation review
3. Current Operations
4. Discuss contents of WY 2016 DOSS Annual Report
5. Next meetings

Agenda Item 2.

RPA Implementation Review

Delta RPA Actions that may affect operations during June:

Action IV.1.2¹ (DCC gate operations):

- DCC gates were opened at 9am on Friday, 6/10/16 and closed at noon on Monday, 6/13/16. The gates are currently open. After June 15, Action IV.1.2 is no longer in effect for WY 2016.

Action IV.2.3² (OMR Flow Management)

- On 6/8/16, NMFS notified WOMT that, effective 6/8/16, Action IV.2.3 was no longer in effect for WY 2016.
- The offramp for IV.2.3 was satisfied by seven consecutive days, in June (6/1- 6/7), of Mossdale³ average daily water temperature >72°F.

¹ For details, see pages 62-66 in Enclosure 2 of the 2011 Amendments to the 2009 RPA document at: http://www.westcoast.fisheries.noaa.gov/publications/Central_Valley/Water%20Operations/Operations,%20Criteria%20and%20Plan/040711_ocap_opinion_2011_amendments.pdf

² For details, see pages 74-79 in Enclosure 2 of the 2011 Amendments to the 2009 RPA document at: http://www.westcoast.fisheries.noaa.gov/publications/Central_Valley/Water%20Operations/Operations,%20Criteria%20and%20Plan/040711_ocap_opinion_2011_amendments.pdf

³ Based on water temperatures reported at the “MSD” station on CDEC

Agenda Item 3.

Current Operations (6/14/16)

SWP		CVP	
Exports (cfs)			
Clifton Court Forebay	2,300	Jones Pumping Plant	800
Reservoir Releases (cfs)			
Feather - Oroville	4,500	American - Nimbus	4,000
		Sacramento - Keswick	8,000
		Stanislaus - Goodwin	501
		Trinity - Lewiston	2,191
Reservoir Storage (in TAF)			
San Luis (SWP)	292	San Luis (CVP)	245
Oroville	3,208	Shasta	4,129
New Melones	649	Folsom	798
Delta Operations			
DCC	Open*	Sacramento River at Freeport (cfs)	12,500
Outflow Index (cfs)	~7,100	San Joaquin River at Vernalis (cfs)	705
		X2	81 km

*After June 15, Action IV.1.2 is no longer in effect for WY 2016.

OMR as of 6/13/16:

	Index ⁴ (cfs)
Daily	-4,600
14-day	-4,100

Review of factors controlling Delta exports for the period 6/7/16 to 6/13/16:

- Exports were controlled by water quality requirements in D-1641 (primarily Delta outflow requirements; DWR reported that the Emmaton EC standard might have controlled for one day).

Agenda Item 4.

Discuss contents of WY 2016 DOSS Annual Report

DOSS discussed what content to include in the WY 2016 DOSS Annual Report and agreed on the following schedule and draft Table of Contents (drafting leads identified for each section in red, italicized text).

⁴ Beginning 2/16/16, the OMR Index values reported in the DOSS notes were calculated using an OMR Index equation that no longer includes (per the original intent of the index equation) the Contra Costa Water District's Rock Slough diversion in the export term. Beginning February 2016, the OMR Index values reported in the monthly OMR reports on the "CVO Reports" website (<http://www.usbr.gov/mp/cvo/index.html>) were calculated using this adjusted equation without the Rock Slough diversion.

Schedule:

- **Monday, 8/1/16:** NMFS (Barb or Kristin) will send first draft to DOSS for review
- **Friday, 8/19/16:** DOSS comments due to NMFS (please include both Barb & Kristin)
- **Wednesday, 8/31/16:** NMFS (Barb or Kristin) will send final draft to DOSS & management for review
- **Friday, 9/16/16:** Final comments from DOSS & management due to NMFS (please include both Barb & Kristin)
- **Friday, 9/30/16:** Final report shared with DOSS & management

Table of Contents

Chapter 1 Background (NMFS)	9
1.1 Background.....	9
1.2 Participants.....	9
1.3 Summary of Key Delta RPA Actions	12
Chapter 2 Annual Review Panel Feedback on Actions Relevant to DOSS (NMFS)	14
2.1 2015 Annual Review Feedback: ePTM	14
Chapter 3 Summary of DOSS Discussions and WY 2016 RPA Implementation	20
3.1 Weekly Discussion Topics (NMFS).....	20
3.2 Other Discussion Topics (NMFS).....	20
3.3 Summary of WY 2016 RPA Action Implementation (NMFS & Rec?).....	21
3.3.1 DCC Alerts (Action IV.1.1).....	21
3.3.2 DCC Gate Operations (Action IV.1.2)	Error! Bookmark not defined.
3.3.3 San Joaquin River Inflow-to-Export (I:E) Ratio (Action IV.2.1).....	Error! Bookmark not defined.
3.3.4 Year Acoustic Tag Experiment (Action IV.2.2).....	Error! Bookmark not defined.
3.3.5 Old and Middle River Flow management (Action IV.2.3)	Error! Bookmark not defined.
3.3.6 Reduce Likelihood of Entrainment or Salvage at Export Facilities (Action IV.3).....	Error! Bookmark not defined.
3.4 Other Topics.....	Error! Bookmark not defined.
3.4.1 Juvenile Production Estimate for Winter-run Chinook Salmon (NMFS)	Error! Bookmark not defined.
3.4.2 Genetic sampling of salvaged Chinook (K. Reece)	
3.4.2 Spring-Run Surrogate Releases (Jeff S.)	Error! Bookmark not defined.
3.4.3 Salvage Facility Operations (Bob F, Josh?)	Error! Bookmark not defined.
3.4.5 Smelt Working Group (NMFS).....	Error! Bookmark not defined.
Chapter 4 Drought Operations (Duane)	Error! Bookmark not defined.

Chapter 5 Operations Summary (*Peggy & Bryant?*).....Error! Bookmark not defined.

 5.1 Water Year 2016.....**Error! Bookmark not defined.**

Chapter 6 Monitoring Activities.....Error! Bookmark not defined.

 6.1 WY 2016 Monitoring summary (see also —2015/2016 Salmonid and Green Sturgeon Incidental Take and Monitoring Report) (*DWR/Reclamation*)...**Error! Bookmark not defined.**

 6.2 Review of DOSS’s weekly distribution estimates (*Kristin*) **Error! Bookmark not defined.**

 6.3 Drought-Related Monitoring (*NMFS*)**Error! Bookmark not defined.**

 6.4 In-Season Acoustic tag-tracking (hatchery Winter-run) (*Arnold- SWFSC*) **Error! Bookmark not defined.**

 6.5 Monitoring Gaps (*Duane*)**Error! Bookmark not defined.**

 6.5.1 Tisdale RST

 6.5.2 KL & GCID temporary shutdowns for debis, etc **Error! Bookmark not defined.**

Chapter 7 References CitedError! Bookmark not defined.

Appendix A —Operations Summary Tables (*NMFS/DWR/Rec*)..Error! Bookmark not defined.

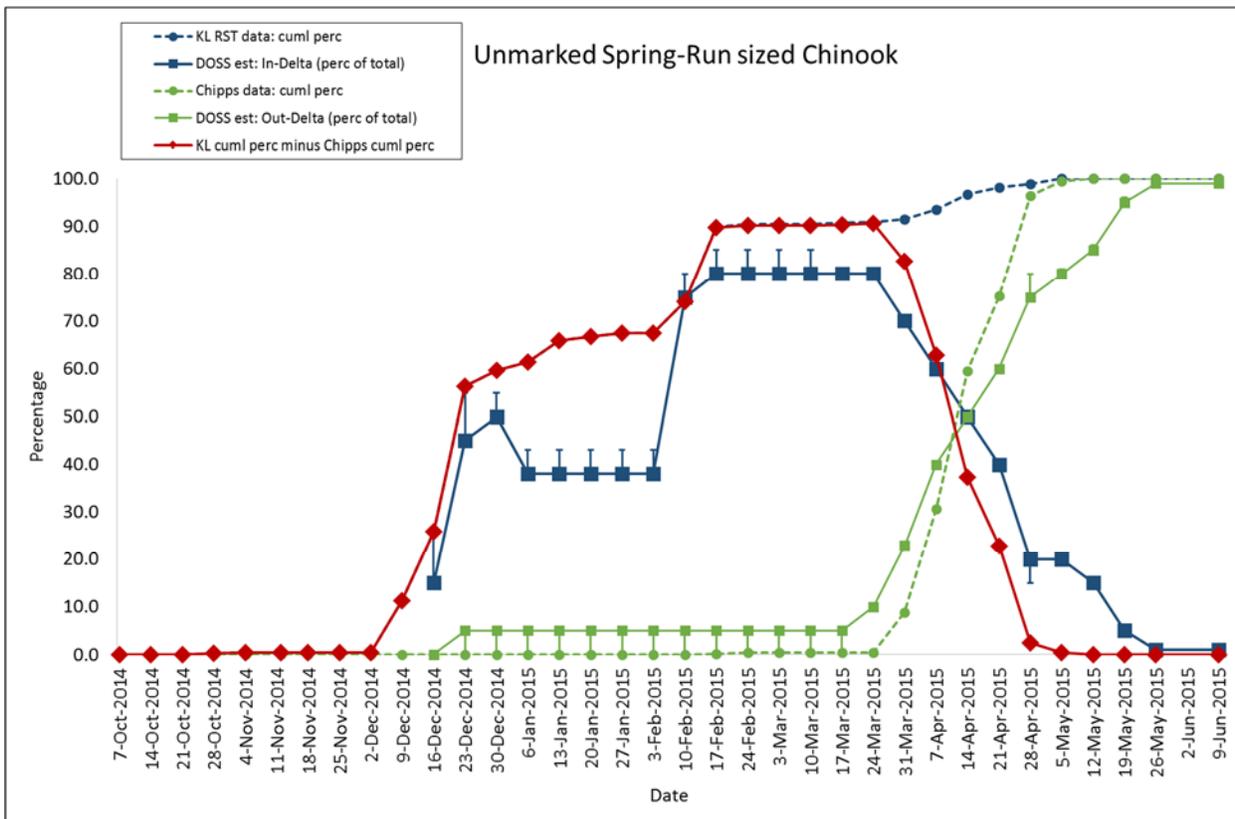
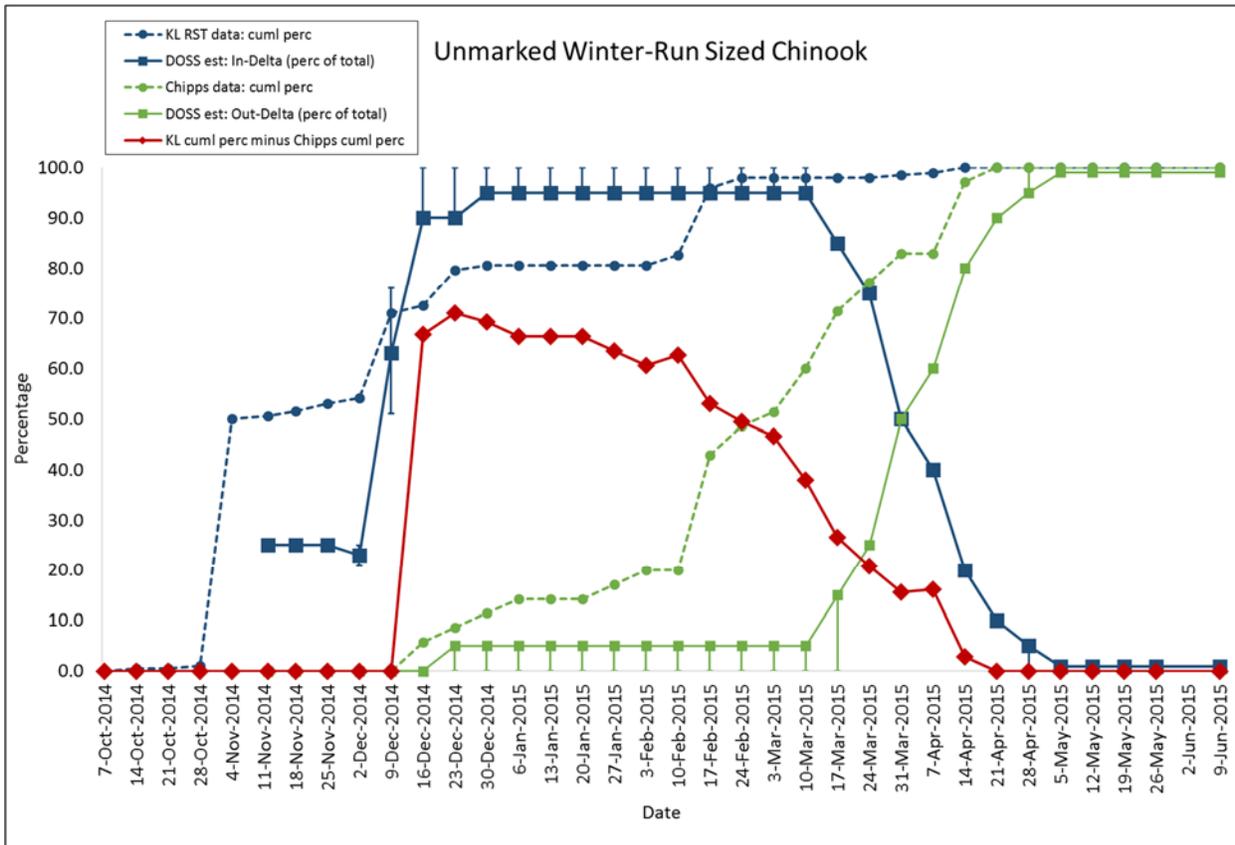
Appendix B —2015/2016 Salmonid and Green Sturgeon Incidental Take and Monitoring Report.....Error! Bookmark not defined.

Appendix D —Old and Middle River FlowsError! Bookmark not defined.

Appendix E —Salmon Loss-Density TableError! Bookmark not defined.

Appendix F —Steelhead Loss-Density TableError! Bookmark not defined.

DOSS also discussed how to present a comparison of the WY 2016 DOSS estimates of fish distribution with observed data. McCleery (NMFS) will be lead on this section of the WY 2016 DOSS Annual Report; DOSS members with ideas or time to help should contact her directly. One option, suggested by Meiling Roddam earlier in WY 2016, is presented below.



Agenda Item 5.

Next Meetings: Two calls have been scheduled to discuss progress of the WY 2016 DOSS Annual Report. These dates are 8/23/16 and 9/20/16, both at 9 am.