

Delta Operations for Salmonids and Sturgeon (DOSS) Group
Conference call: 10/25/2016 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.

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DWR: Bryant Giorgi, Kevin Reece

Reclamation: Towns Burgess, Tom Patton, Josh Israel, Mike Hendrick

SWRCB: Chris Kwan, Chris Carr, Brittney Kammerer

Agenda Items

1. Agenda review and introductions
2. RPA Implementation review (For the DOSS Dashboard, click on the "Triggers & Indices" tab at: www.baydeltalive.com/djfmfp)
3. Current Operations
4. Fish Monitoring: Salvage
5. Fish Monitoring: RSTs/trawls/seines
6. DOSS Estimates of Fish Distribution
7. DOSS advice
8. Next DOSS meeting

Agenda Item 2.

RPA Implementation Review

Delta RPA Actions affecting operations during October:

Action IV.1.1 (Alerts that indicate the Delta Cross Channel (DCC) gate operations may be triggered soon)¹:

- Recent (10/18/16-10/24/2016, unless otherwise noted) conditions for:
 - Wilkins Slough flow: 4,015-5,765 cfs (range of mean daily flow)
 - Knights Landing temperature: 61-65°F (range of temperatures reported at the rotary screw traps during trap checks during the 10/16-10/24 period)
 - Mill Creek and Deer Creek flows [highlighted cells exceed the first component (95 cfs flow threshold) or second component (>50% flow change) in first alert]:

¹ For details, see pages 60-61 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. Note that in October 2014, NMFS approved a modification of the first component of the first alert to a 95 cfs mean daily flow threshold in either Mill Creek or Deer Creek in lieu of operating the Mill and Deer Creek rotary screw traps.

Date	Mill Creek (MLM)		Deer Creek (DCV)	
	mean daily flow (cfs)	change in mean daily flow	mean daily flow (cfs)	change in mean daily flow
10/18/2016	154	-22%	127	-7%
10/19/2016	138	-10%	110	-13%
10/20/2016	126	-9%	102	-7%
10/21/2016	122	-3%	98	-4%
10/22/2016	119	-2%	97	-1%
10/23/2016	117	-2%	95	-1%
10/24/2016	120	3%	95	0%

- The first alert (triggered if either component is met) was triggered based on Mill Creek and Deer Creek flows >95 cfs (either or both creeks; see table above for details) on 10/18-10/24.
- The second alert (triggered only if both components are met) was not been triggered this week.

Action IV.1.2² (DCC gate operations):

- Since 10/1/16, none of the criteria requiring DCC gate closure have been met.

Agenda Item 3.

Current Operations (10/25/16)

SWP		CVP	
Exports (cfs)			
Clifton Court Forebay	2,750*	Jones Pumping Plant	4,000
Reservoir Releases (cfs)			
Feather - Oroville	2,450	American - Nimbus	1,000
		Sacramento - Keswick	5,750**
		Stanislaus - Goodwin	1,100***
		Trinity - Lewiston	300
Reservoir Storage (in TAF)			
San Luis (SWP)	404	San Luis (CVP)	120
Oroville	1,550	Shasta	2,666
New Melones	516	Folsom	319
Delta Operations			
DCC	Open	Sacramento River at Freeport (cfs)	8,651
Outflow Index (cfs)	3,000	San Joaquin River at Vernalis (cfs)	2,130

² 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

E:I	59.6% (3-day avg.)	X2	>81 km
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*Exports may increase dependent on next storm

**After the DOSS call, a change order stated Keswick release will drop to 5,500 cfs on 10/26.

***Releases are ramping down from second pulse and will continue to decrease throughout the week. Flows will increase for the third and final pulse this weekend.

Factor controlling Delta exports:

10/18/16-10/24/16: Seasonal salinity management

Agenda Item 4.

Fish Monitoring: Salvage

No species of management concern have been salvaged.

Agenda Item 5.

Fish Monitoring: The following table presents fish monitoring data summarized over the identified sampling dates. Unless otherwise noted, reported sizes are fork length.

Location	Chippis Is. Midwater Trawl ^A	Sacramento Trawl ^A	Beach Seines ^A	Knights Landing RST ^B	Tisdale RST ^C	GCID RST ^D	Mossdale Kodiak Trawl ^A
Sample Date	10/17, 19, 21	10/17, 19, 21	10/17-10/21	10/16-10/24	10/16-10/24	10/16-10/24	10/17, 19, 21
Total Catch							
FR Chinook						6 smolts	
WR Chinook				10	2	73 juveniles	
SR Chinook				1		12 juveniles	
LFR Chinook						16 juveniles 6 smolts	
Adult Chinook	1						
Ad-Clipped Chinook							
Delta Smelt							
Splittail							
Longfin Smelt							
Steelhead (ad-clip)							
Steelhead (wild)							
Green Sturgeon							
Flows (avg. cfs)				5190	5481	947	

W. Temp. (avg. °F)				62	59	58	
Turbidity (avg. NTU)				8.2	13.2	14.9	

^AData reported in the 10/17 to 10/21 DJFMP sampling summary.

^BKnights Landing RST Sampling period was from 10/16 at 10:30 am to 10/24 at 9:45 am.

^CTisdale RST sampling period was from 10/16 at 8 am to 10/24 at 11:30 am.

^DGCID RST sampling period was from 10/16 at 12 am to 10/24 at 8 am. On 10/17, 4-hr trap operations were cancelled due to extremely heavy debris. On 10/19 cone lowered at 9 am to resume sampling.

Red Bluff Diversion Dam (RBDD)

USFWS biweekly report (10/7/16-10/20/16) for preliminary estimates of passage by brood-year and run for unmarked juvenile Chinook salmon captured by rotary screw traps at RBDD included:

Run and Species	Biweekly Total	Brood Year Total (90% CI)
Winter-run Chinook (BY2016)	88,482	363,832 (281,659-446,005)

Agenda Item 6.

DOSS Estimates of Fish Distribution

DOSS estimates of the current distribution of listed Chinook and steelhead, as a percentage of the population, are based on recent monitoring data and historical migration timing patterns.

Location	Yet to Enter Delta (Upstream of Knights Landing)	In the Delta	Exited the Delta (Past Chippis Island)
<i>Wild young-of-year (YOY) winter-run Chinook salmon</i>	95% - 98% (Last week: 96-99%)	2% - 5% (Last week: 1-4%)	0% (Last week: same)

Rationale for changes in distribution

Wild winter-run Chinook: Over the past week, 73 wild winter-run were observed at GCID, indicating that winter-run are moving downstream towards the Delta. 10 wild winter-run were observed at the Knights Landing RST and 2 at Tisdale, which DOSS interpreted as indication that another incremental fraction of the winter-run population moved into the Delta. Winter-run are not expected to exit the Delta at Chipps Island until later in the season, and no young-of-year winter-run-sized fish have been observed exiting the Delta at Chipps Island.

Agenda Item 7.

DOSS Advice to WOMT and NMFS: None

Agenda Item 8.

Next Meeting: The next DOSS conference call will be on **11/1/16 at 9am.**