

## DAT notes for 17 March 2011

Attendees: Angela Llaban, Francine Mejia, Reza Shahcheraghi and Andy Chu (DWR), Geir Aasen and Julio Adib-Samii (DFG), Bruce Oppenheim and Barbara Byrne (NMFS), Jonathan Speegle, Leigh Bartoo and Nick Hindman (USFWS), Owen Lu (MWD), Laura Kimm (KCWA), Tom Boardman (SLDMWA)

### DFG & USFWS TRAP REPORT

At Red Bluff: Feb 26-Mar 11, 2011

Continuing to observe juvenile Chinook passage. Mostly fall-run, peak passage at ~165,000 on 3/4/11. Still spring (3200 bi weekly total) and winter run passage (4038 biweekly total) as well. Passage to date:

Winter run – 1,316,946

Spring run – 105, 099

Fall run – 6,142,464

Late-Fall – 187, 860

Steelhead – 1,032

### Mill and Deer Creek

The Deer Creek trap captured 438 Chinook including 5 spring-run Chinook yearlings in the past week. Juveniles ranged from 30 to 58 mmfl and yearlings ranged from 91-105 mmfl. No Steelhead were captured.

Flows for the previous week (3/8-3/15) ranged between 375 - 587 cfs. Yesterday morning (3/16) flows in Deer Creek peaked at 2020 cfs and are predicted to peak again on Friday.

The Mill Creek trap is awaiting necessary repairs once the flows recede.

### Knight's Landing: March 10-15, 2011

Average flows 14,261 cfs, Ave. temp 56°F, Ave. turbidity 17.6 NTU

Catch at Knight's Landing has decreased. F+S CPUE = 43.4 last week 3/10 and decreased to 1.49 on 3/15. One winter-run caught on 3/10. W+LF CPUE was 0.57, now back to zero. 4 hatchery steelhead, and zero wild steelhead caught.

Chinook monitoring data can be found at: <http://www.water.ca.gov/swp/operationscontrol/calfed/calfedmonitoring.cfm>

### USFWS TRAWL & SEINE REPORT

Salmonids- USFWS Trawl and Seine Report for 03/06/2011 to 03/12/2011				
Species*	Chippis Is MWTR	Sacramento KDTR	Mossdale KDTR	Beach Seines
CHNF	0	26	0	255
CHNLF	0	0	0	0
CHNW	4	0	0	5
CHNS	0	3	0	77
CHN hatchery	1	0	0	1
SH - wild	0	0	0	0
SH - hatchery	7	2	0	1

\*Species based on FL only; Adipose Clips indicates hatchery stock; Non-Adipose Clip indicates in-river origin  
Field sampling seasons for all trawls and seines begins 1 August 2010 and ends 31 July 2011.

Smelts and Others- USFWS Trawl and Seine Report for 03/06/2011 to 03/12/2011								
	Chippis Is		Sacramento		Mossdale		Beach Seine	
Species	#	Size Range	#	Size Range	#	Size Range	#	Size Range
DSM	3	74-80	0	-	0	-	1	
LFS	0		0		0		0	
SPT	0		0		1		0	
GST	0		0		0		0	
WST	0		0		0		0	

## SALVAGE REPORT

Salmonids - Salvage report for 03/07/2011 to 03/13/2011								
Species	CVP Adipose Clip Hatchery		CVP Non-Adipose Clip Wild		SWP Adipose Clip Hatchery		SWP Non-Adipose Clip Wild	
	Salvage	Loss	Salvage	Loss	Salvage	Loss	Salvage	Loss
CHNF	0	0	2	1	0	0	4	17
Total to Date	36	25	535	326	94	401	76	312
CHNLF	0	0	0	0	0	0	0	0
Total to Date	224	154	160	105	469	2009	36	152
CHNW	26	17	137	90	17	76	128	571
Total to Date	133	90	613	413	301	1299	632	2776
CHNS	0	0	16	9	0	0	0	0
Total to Date	0	0	28	16	0	0	4	17
Sum of all Races to Date	393	269	1337	860	864	3710	748	3257
SH	32	-	6	-	32	-	27	-
Total to Date	196	-	73	-	395	-	178	-

\*Species based on FL only; Adipose Clips indicates hatchery stock; Non-Adipose Clip indicates in-river origin

Smelt and Others - Salvage report for 03/07/2011 to 03/13/2011		
Species	CVP Salvage	SWP Salvage
DSM	0	0
Total to Date	12	0
LFS	0	0
Total to Date	4	0
SPT	5	29
Total to Date	226	1253
GST	0	0
Total to Date	0	2
WST	0	0
Total to Date	0	0

Combined season total loss of winter-run length non-clipped Chinook is 3,189. The 2 % incidental take level is 6,640. The combined season total salvage for non-clipped Steelhead is 251. The consultation criterion for non-clipped Steelhead is 3,000.

Smelt salvage data is now posted on the DFG salvage data base at <ftp://ftp.delta.dfg.ca.gov/salvage/>

SWP & CVP Older Juvenile* Chinook Loss Density	
Date	Combined Older Juvenile Loss Density (fish/TAF)
03/07/2011	12.41
03/08/2011	2.73
03/09/2011	2.33
03/10/2011	4.15
03/11/2011	8.30
03/12/2011	8.03
03/13/2011	4.55
*Older juveniles defined as all Chinook above the minimum winter run length (Delta Model); Loss density based on loss data obtained from DFG	

### SMELT MONITORING

Spring Kodiak Trawl Survey 3 completed a full survey (40 stations) last week. Spring Kodiak Trawl data have been posted to <http://www.dfg.ca.gov/delta/projects.asp?ProjectID=SKT>. 20mm Survey 1 began this week. Available data will be posted to <http://www.dfg.ca.gov/delta/projects.asp?ProjectID=20mm> on Monday 3/21. Smelt Larva Survey 5 (the last survey of 2011) is scheduled to begin on Monday 3/21. Data will be posted to <http://www.dfg.ca.gov/delta/projects.asp?ProjectID=SLS>.

### SMELT WORKING GROUP

The SWG made no recommendation for delta smelt or longfin smelt. The 3-day, 3 station temperature average is above 12°C. The biological trigger for Action 3 was also met. There were 2 spent females observed in the SKT #3 (Montezuma Slough and the other in the deep water ship channel). The group estimated that the overall risk of entrainment for larva and adults delta smelt and longfin smelt was low given the distributional data from recent surveys and favorable hydrology and turbidity.

### DOSS

On 3/11/11 the 2<sup>nd</sup> stage trigger for OMR action was exceeded (8.30 fish/TAF). On Monday 3/14/11, the Projects began to target an OMR flow of -2,500 for 5 consecutive days. DOSS advised the Projects to continue operating to no more negative than -2,500cfs, at least through Friday 3/18/11. The OMR restriction may be relaxed when the older juvenile Chinook loss density is below the 6.64fish/TAF trigger for 3 consecutive days.

### OPERATIONS

Summary for March 17, 2011			
SWP		CVP	
Clifton Court (cfs)	3500	Jones Pumping Plant (cfs)	3500
Outflow (cfs)	72100	American- Nimbus (cfs)	25000
Oroville (cfs)	25000	Keswick (cfs)	20000
San Luis Total (TAF)	2034	Goodwin (cfs)	
San Luis Share(TAF)	1067	San Luis Share (TAF)	
X2 (Km)	61.9		
E/I (%)	13.4		
OMR (daily)	-3131		
OMR 5 day (cfs)	-3116		
OMR 14 day (cfs)	-2686		

Daily operations summary can be viewed at: <http://www.water.ca.gov/swp/operationscontrol/docs/delta/deltaops.pdf>

Respectfully submitted,  
Angela Llaban & Cynthia LeDoux-Bloom