

DAT Information 2/17/2009

### Highlights

The first adult delta smelt of the season were salvaged at the CVP last week; a total salvage of 8. They were salvaged on 2 different days. One of the delta smelt Action 3 criteria is delta smelt salvaged on 3 different days, so we are close to the criteria.

The larval delta smelt reported last week in the smelt larval survey turned out to be longfin smelt after further lab analysis. Therefore the delta smelt Action 3 criteria have not been exceeded yet, but we are close.

**Next DAT Conference Call Tuesday, 2/24/2009, 9:00 am - 11:00 pm. 916/657-4111.**

### Chinook Monitoring

Upper Sacramento River

Red Bluff Diversion Dam -

Juvenile winter run passage averaged 318/day for the past week.

Late fall Chinook passage averaged 0/day, spring run passage averaged 444/day. Fall run passage averaged 173,811/day. Ad-clipped passage was 10/day.

Steelhead passage was 9/day. And ad-clipped steelhead passage was 8/day.

Red Bluff flow averaged about 6,070 cfs. Flows peaked at 35,000 cfs on 2/16/09. The water is very turbid.

FWS posts biweekly reports on the Bay-Delta and Tributaries Project website, at <http://www.fws.gov/redbluff/rbddjsmp.html>

Mill Creek – DFG caught 4 yearling and 6 fry Chinook up through 2/14 when the cone was raised due to high flow and debris. The flow increased a lot from this storm; from 143 cfs to 1,230 cfs. The maximum hourly flow was 1,650 cfs.

Deer Creek – DFG caught 6 yearling and 19 fry Chinook up through 2/15 when the cone was raised due to high flow and debris. The flow increased a lot from this storm; from 145 cfs to 1,280 cfs. The maximum hourly flow was 1,490 cfs.

Butte Creek – no report

GCID –

Knights Landing – DFG caught 16 fry per trap-week and 0.5 older juvenile per trap-week. They caught 2 ad-clipped steelhead last week. Flow increased to 8,807 cfs as of 2/15/09. Turbidity increased from 8.5 NTU to 24.3 NTU.

Delta Monitoring –

FWS is capturing young of the year Chinook in the north and central Delta now; although not very many. They caught a few Chinook in the trawls, along with adult smelt, and the lower Sacramento seines.

Lower Sacramento Seine - 1 sample day, 4 samples, 10 young of the year Chinook, and 195 ad-clipped Chinook.

Sacramento KDTR - 3 sample days, 30 samples, 1 older juvenile Chinook, 2 ad-clipped Chinook and 8 ad-clipped steelhead.

Chippis Island MWTR - 3 sample days, 40 samples, 1 non-clipped and 4 ad-clipped steelhead, 3 splittail, 15 adult longfin and 6 adult delta smelt.

North Delta Seine - 1 sample day, 10 samples, 1 adult delta smelt at Rio Vista.

Central Delta Seine - 1 sample day, 8 samples, 1 young of the year Chinook.

#### Delta Smelt Monitoring

Smelt larval survey #5 is occurring this week. Results will be available next week, due to the furlough.

<http://www.delta.dfg.ca.gov/data/skt/DisplayMaps.asp>

Spring Kodiak Trawl Survey #3 is scheduled for the first week in March.

[http://www.delta.dfg.ca.gov/data/sls/CPUE\\_map.asp](http://www.delta.dfg.ca.gov/data/sls/CPUE_map.asp).

### Salvage Facilities

Chinook – 4 ad-clipped Chinook were lost at the CVP last week. The season total of non-clipped winter run length Chinook loss is 27, and the season total of ad-clipped Chinook loss is 86.

Steelhead – Non-clipped steelhead salvage at the SWP was 6 and at the CVP was 8 last week. Ad-clipped steelhead salvage was 6 at the SWP and 44 at the CVP. The season total of non-clipped steelhead salvage is 29 and the season total of ad-clipped steelhead is 65.

Delta smelt – 8 adult delta smelt were salvaged at the CVP last week. The season total adult delta smelt salvage is 8.

Splittail – 3 splittail were salvaged at the SWP last week. The season total splittail salvage is 18.

Longfin smelt - None

Green Sturgeon – None

The DFG Salvage Database can be accessed at this ftp site. <ftp://ftp.delta.dfg.ca.gov/salvage/>.

### Operations

#### SWP -

CCFB – 2,000 cfs

Oroville - 950 cfs

X2 > 81 km

E/I – 33.3%

San Luis - ~425 taf, capacity is 1.062 taf

#### CVP -

Jones PP – 1,900 cfs

DCC - closed

Trinity – 300 cfs

Clear Creek – 200 cfs

Keswick – 3,250 cfs

Nimbus – 800 cfs.

Goodwin – 175 cfs

San Luis - 315 taf. Capacity is 966 taf

#### Flows

Sacramento River at Freeport ~ 13,297 cfs

San Joaquin River at Vernalis ~ 1,565 cfs  
Delta Outflow ~ 18,100 cfs, 3-day average = 16,700 cfs.  
OMR 14-day average -1,457 cfs, 5-day average is -2,595 cfs

### Delta Water Quality

Temperature monitoring – Antioch = 9.9 C, Rio Vista = 9.7 C, and Mossdale = 10.6 C. The three station average = 10.1 C.

Turbidity monitoring - The 3-day average at each station is Prisoners Point = 5.9 NTU, Holland Cut = 4.3 NTU, and Victoria Canal = 6.2 NTU. The three station average = 5.5 NTU.

### February Quality Standards –

Habitat Protection - Meeting Collinsville objective for the entire month of February and Chipps Island objective for 24 days.

Salinity Starting Condition - The daily or 14-day running average EC at Collinsville  $\leq$  2.64 mS/cm for at least one day between Feb. 1-14.

Vernalis Base Flow - Minimum monthly average flow  $\Rightarrow$  1,140 cfs, 7-day average  $\Rightarrow$  912 cfs

Delta Cross Channel – Closed

E/I Ratio – 45%

Contra Costa Canal – CI  $\leq$  250 mg/L. In addition, CI  $\leq$  150 mg/L for 165 days per calendar year based on Dry Year Classification.

South Delta – 30-day average EC  $\leq$  1.0 mS/cm.

Western Suisun Marsh -  $\leq$ 15.6 mS/cm.

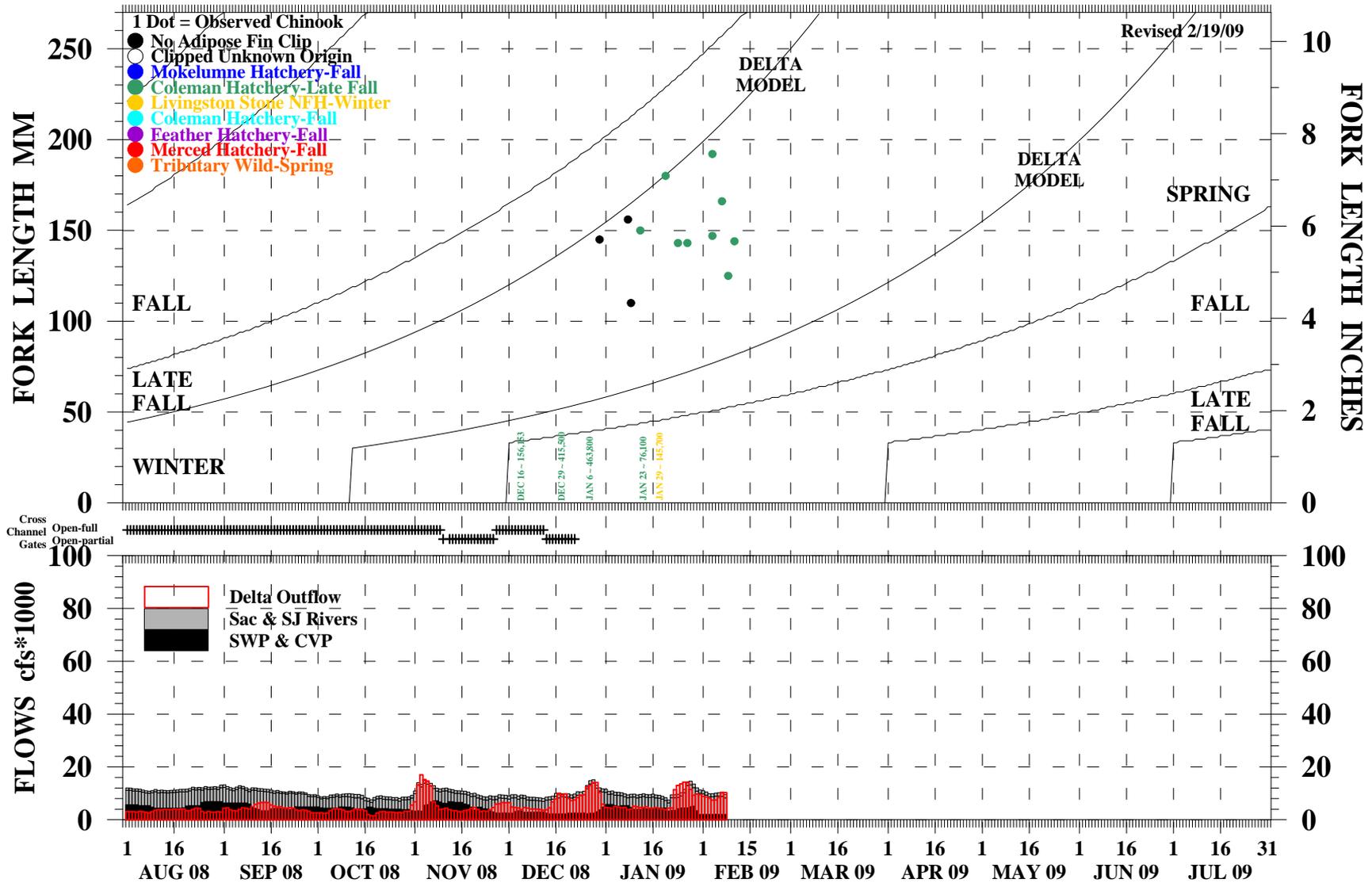
Final copies of the DAT notes are now available on the CALFED Operations website at <http://www.woco.water.ca.gov/calfedops/datsummaries.html>.

*Sheila Greene*

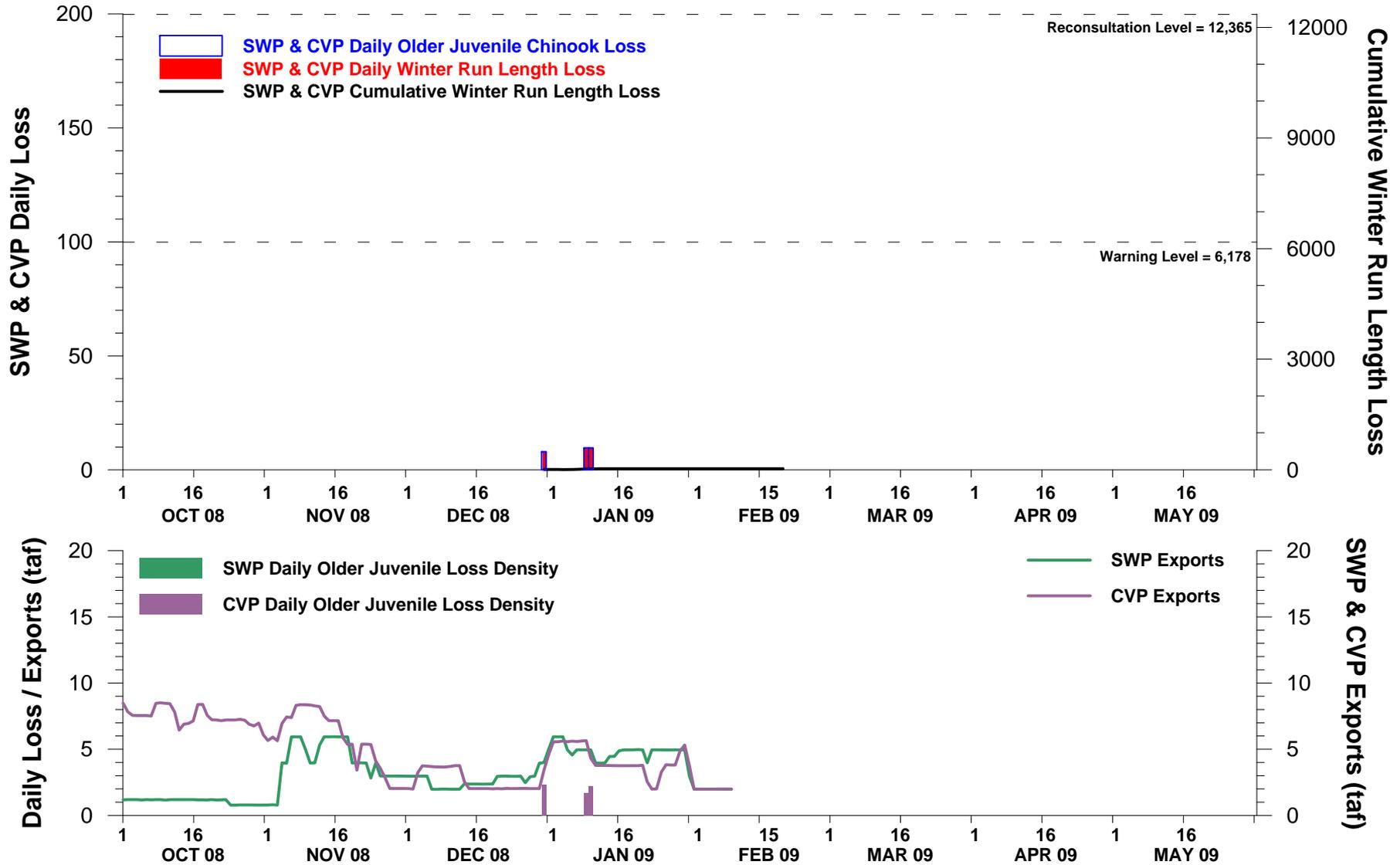
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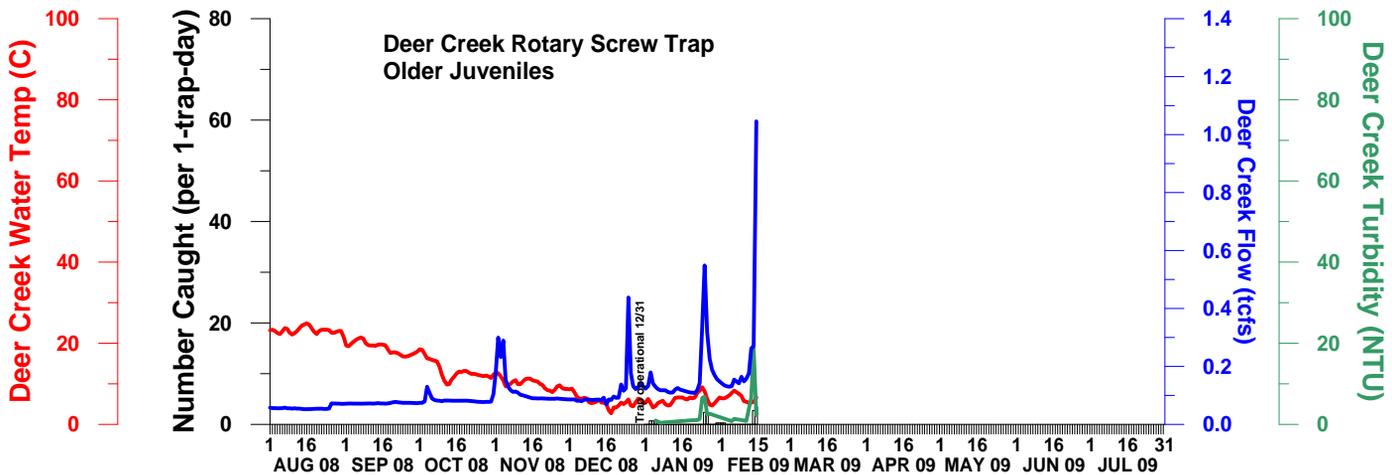
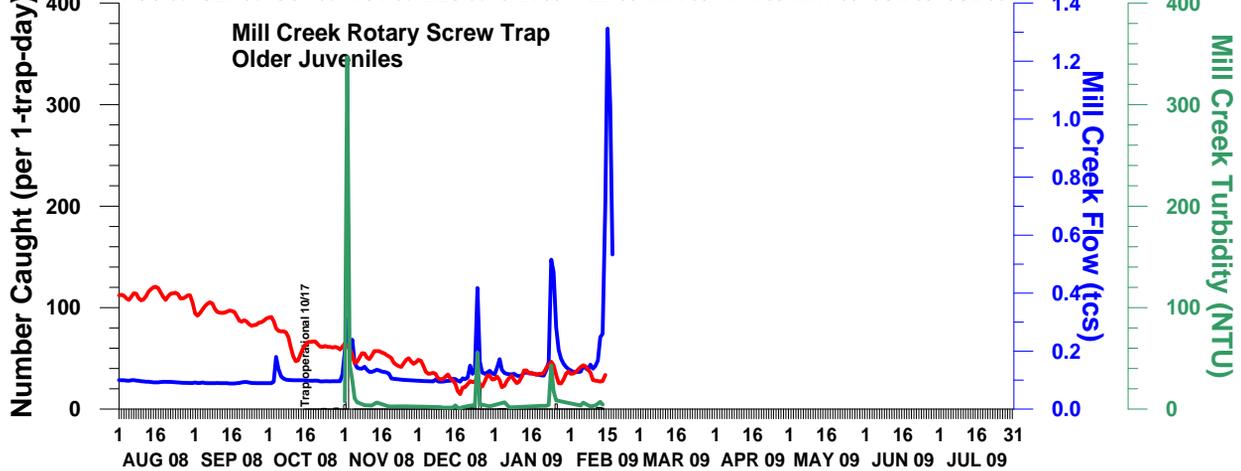
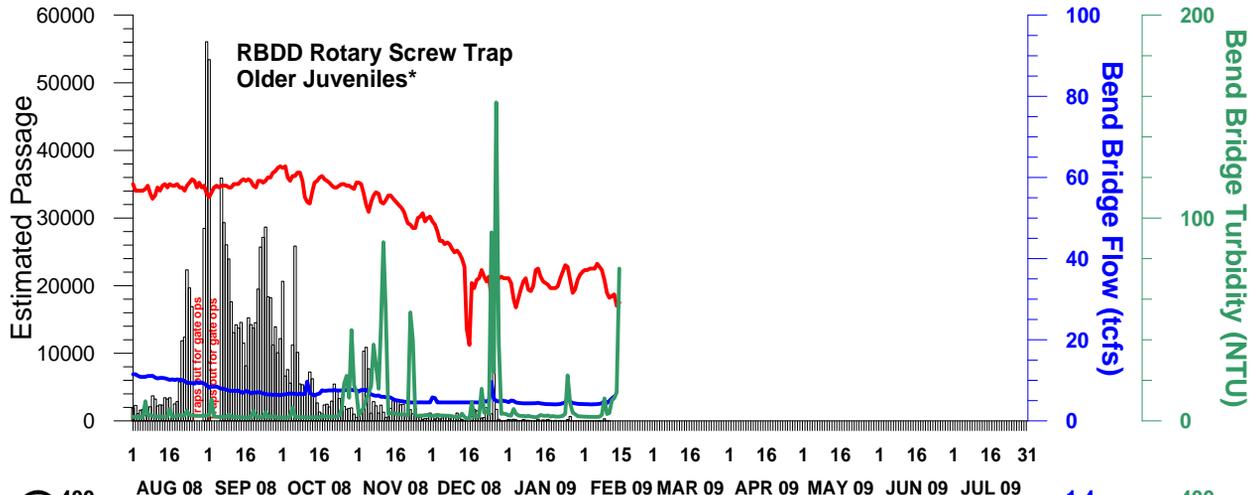
# OBSERVED CHINOOK SALVAGE AT THE SWP & CVP DELTA FISH FACILITIES 8/1/2008 THROUGH 2/17/2009



# WINTER RUN & OLDER JUVENILE CHINOOK LOSS AT THE DELTA FISH FACILITIES 01 OCT 2008 THROUGH 15 FEB 2009



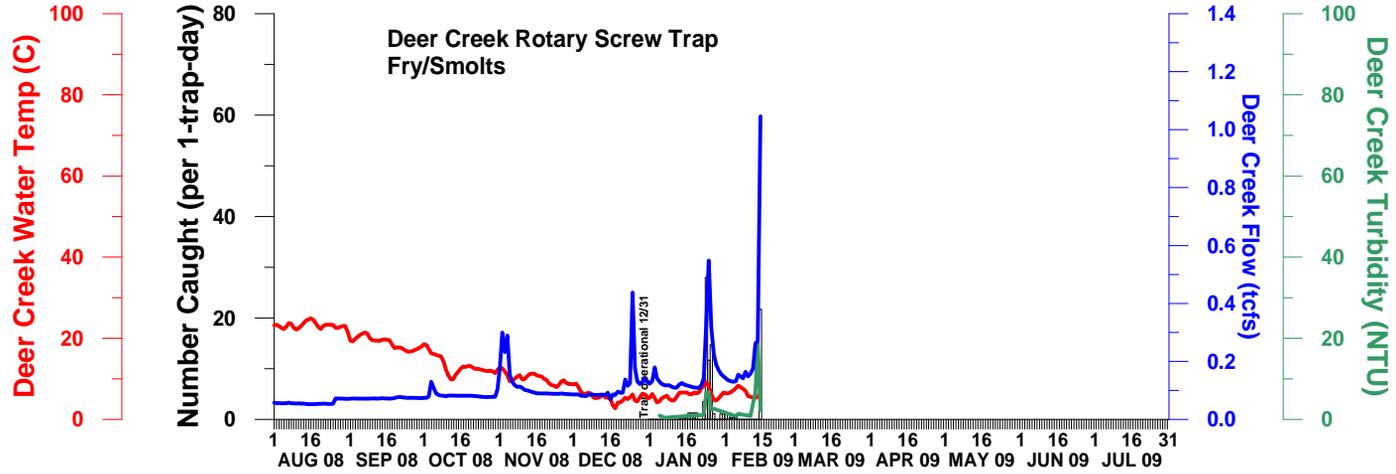
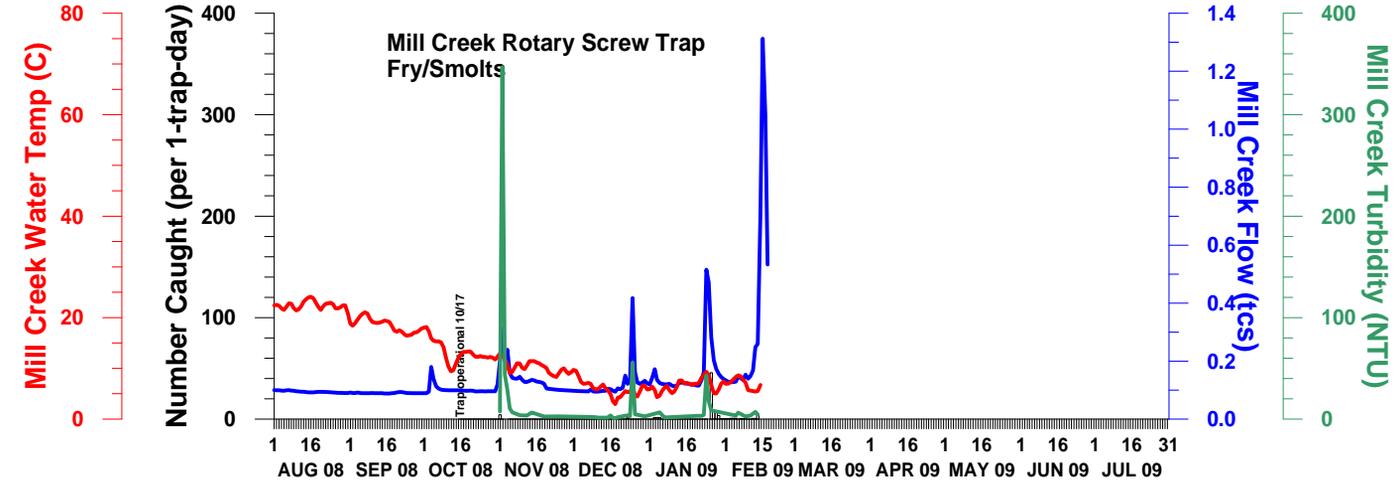
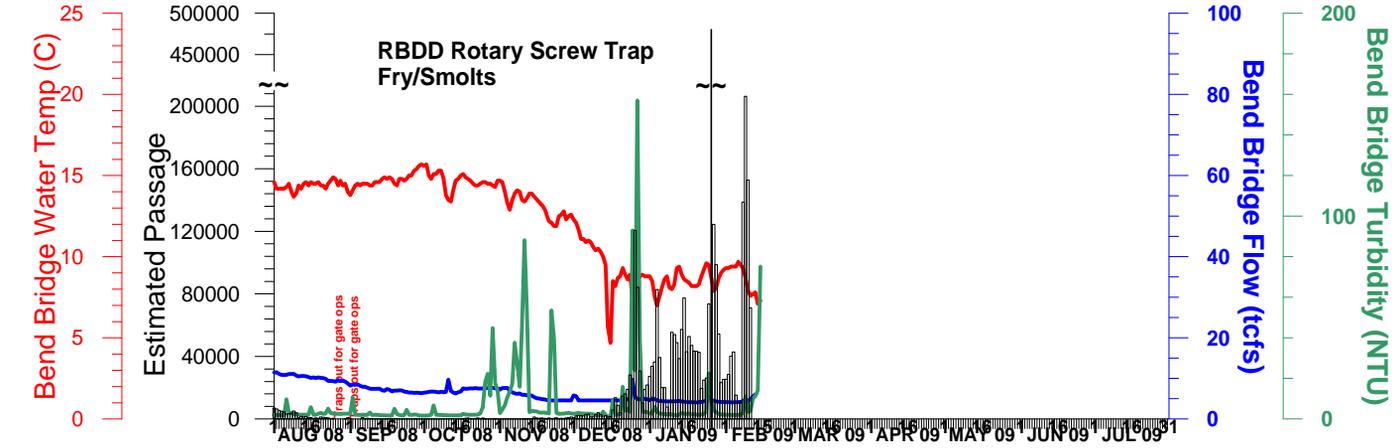
# NUMBER OF JUVENILE CHINOOK MEASURED IN THE UPPER SACRAMENTO RIVER & TRIBUTARIES



DWR-DES 19 Feb 2009  
 Preliminary, subject to revision  
 \*Older juveniles defined as all Chinook above the minimum winter run length line (Frank Fisher model)



# NUMBER OF FRY/SMOLT CHINOOK MEASURED IN THE UPPER SACRAMENTO RIVER & TRIBUTARIES



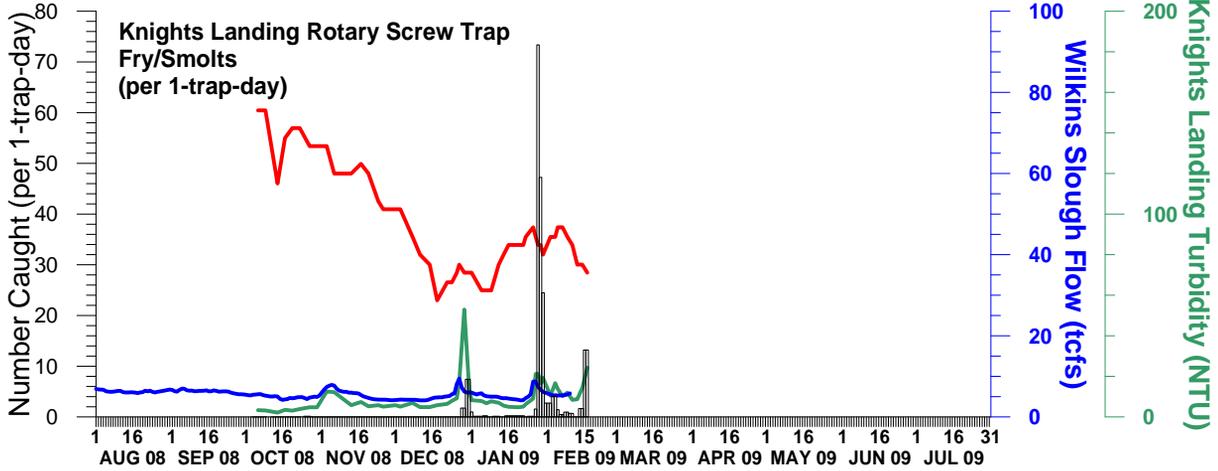
DWR-DES 19 Feb 2009

Preliminary, subject to revision

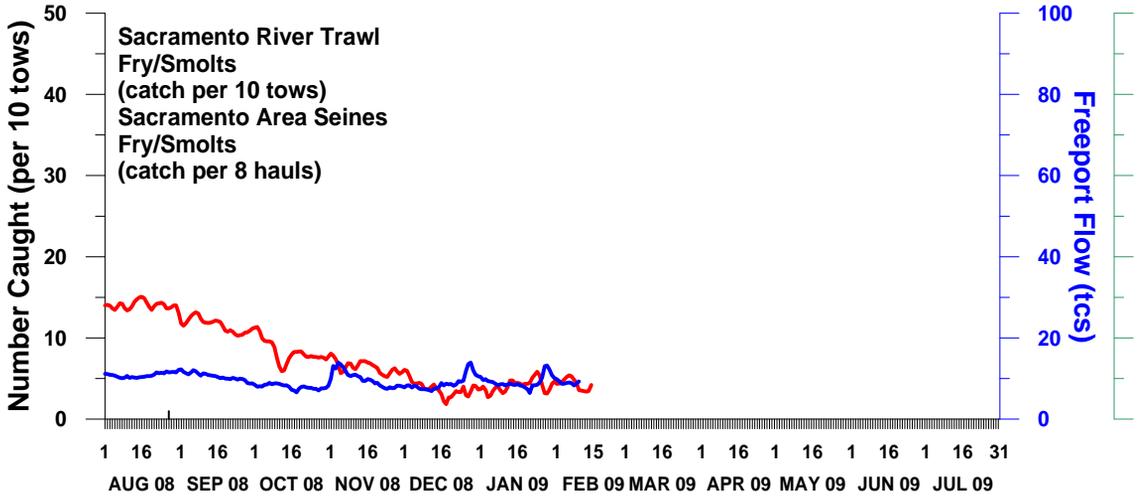
\*Older juveniles defined as all Chinook above the minimum winter run length line (Frank Fisher model)

# NUMBER OF JUVENILE CHINOOK MEASURED IN THE LOWER SACRAMENTO RIVER & TRIBUTARIES

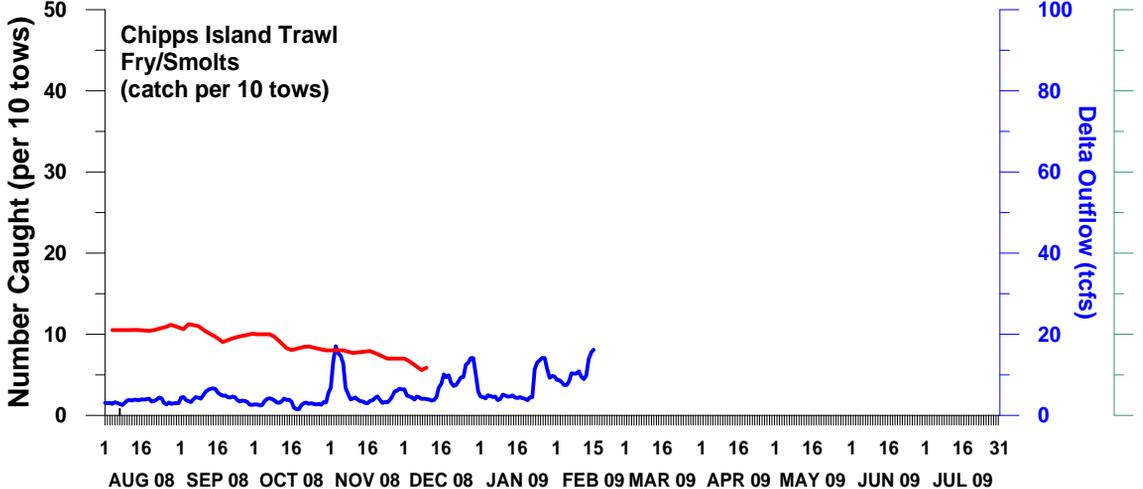
Knights Landing Water Temp (C)



Sacramento @ Hood Water Temp (C)



Chippis Island Water Temp (C)



DWR-DES 19 Feb 2009

Preliminary, subject to revision

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