

**Upper Sacramento River Monitoring**  
**PWT May 16 2002**  
**Meeting Notes**

Kurt Brown- FWS

Kurt discussed fish counting at Red Bluff Diversion Dam. Gates were going down as of May 15<sup>th</sup>. No telemetry was being conducted.

-Green Sturgeon - 2 eggs found, 1 larval at Bend Bridge

-Rotary Screw Traps – ID larval sturgeon between 23-31mm and preserving for U.C. Davis

-Crowning Flow Study with BOR – no center ladder at RBDD

Michael Lacy – CDFG

Tissue Collection

CESA – large projects

Ed Webber – Colorado State University

Wild vs. Hatchery Steelhead Study

Enclosures Downstream of RBDD

Marking fish inside the enclosures

Racing Stripe markings at 2 to 3 weeks

Matt Brown – FWS

Battle Creek

Adult counts since 1995

Barrier Weir for 2 to 3 months (march thru may)

Questions arise on double counting

Punch on caudal fin

In 2001 – 100 Spring Chinook 10 Fall

No winter run identified

May thru Nov snorkel survey

Spring run holding in South Fork

Rotary Screw Traps

1 above weir at Coleman

1 Below the spawning reach

Trap efficiency trials

Bismark Brown

Caudal Fin Clips

Photomic Tags

Problems with tags

Should work better with larger fish

3 to 10% efficiency

Sandy Borthwick – USBR

Research pumping plant

Pumping when gates at RDBB are up

Intakes are 12' deep

Entraining benthic fish and 0.2% of downstream migrants

First two years were year round then during pumping only

Richard Corwin – USBR

Stoney Creek study

In 2<sup>nd</sup> year of 3 yr study

Four Fike nets

44 chinook 34 and 40mm late fall

Beach Seine – 25 ft

8 captured

1 adult with caudal fin cut 1 mile below Hwy 33 bridge - 104mm

1 adult since January

2 Steelhead with fin clips – Jan and March

increase in numbers of White Crappie

Alice Low – CDFG

Improve salmon escapement projects

Accuracy of escapement – coded wire tags

Central Valley salmon genetics

Cal ERP funding

Identify significant population in ESU

Minimum of 50 samples / population

Preference is adult populations

Mike Tucker – NMFS

Water exchange – Yuba River

EWA water

Up to 2,000 cfs for summer

Between June 15 and July 1<sup>st</sup>

Screw Traps

Above Digger Point Dam and near Marysville

Snorkeling

What habitats and density

Temperature probes

Intensive use

Adult Monitoring

Flow influence on upstream migration

Doug Killam – CDFG

RDBB gates in

Salmon estimates for different runs

Killam cont.

- Late fall run excluded
- Floy tags
- Steelhead
  - Population
  - Snorkle and redd
- Late fall carcass
- Snorkel in tribs
- Aerial redd survey

John Hannon – USBR

- Coordination
- Monitoring for abundance of winter run and steelhead
- American River – redd survey
  - Estimate of instream spawning
  - Jan thru the March peak to April 1<sup>ST</sup>
  - 159 total redd
  - 14000 fish to hatchery
  - ½ the previous years number
  - 1 to 2 redds per female

Sheila Green – DWR

- Environmental Water Account
- Budgeting and Scheduling this account
- Contract manager on genetic studies
  - 2wk average turn-around on tissue samples
  - High confidence on winter run ID
  - Lower confidence on spring run

Tricia Parker – FWS

- [www.delta.dfg.ca.gov/afrp](http://www.delta.dfg.ca.gov/afrp)
  - Genetic Maintenance of Hatchery and Natural Origin of Winter Run
  - Chinook 1998- 2001
- AFRP funded project
  - Four-year project (initiated by Scott Hamelberg) working with BML for captive broodstock selection

Ken Lentz – USBR

- Fund provider
- 3406b13 – CVPIA
  - Gravel restoration
    - 3 sites – Keswick, Salt Creek, Tobiason riffle
  - Riparian restoration
  - Winter run captive broodstock

Kevin Niemala – FWS  
Hatchery evaluation program  
Coleman  
Livingston Stone

Jim Smith – FWS  
RBDD screw trapping  
Trapping will be different with crowning flow study  
Report is available for last five years  
Rotary screw trapping of winter run

David Grant – CDFG  
Off stream water storage investigation  
Sites – west of Maxwell

Colleen Havey Arrison  
Tributary adult salmon counts  
Clear Creek and Battle Creek  
Genetic tissue and Otolith  
Snorkel known holding areas  
Mill Creek – turbidity problem doing redd counts  
Juvenile spring run life history  
Deer and Mill Creeks

Russell Smith – USBR  
Trinity River  
Adaptive management  
Monitoring techniques

Mike Barry – CDFG  
Management Plans  
Clear Creek  
Battle Creek