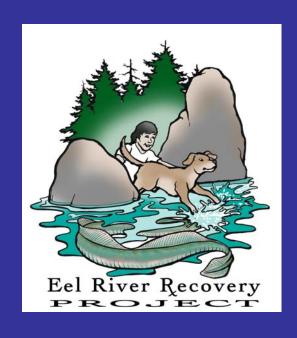
Chinook Impressions



Eel River Recovery Project Late Lower Eel River Dive 12/05/13

Photos and Slide Show by:

Patrick Higgins

ERRP Volunteer Coordinator

Sponsored & Supported by:

Salmon Restoration
Association



and

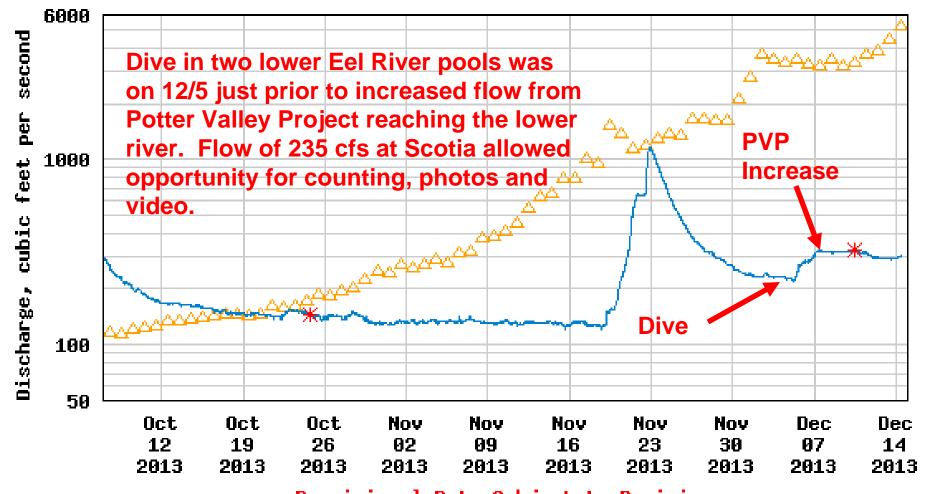




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Flow at Scotia

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---- Provisional Data Subject to Revision ----

- △ Median daily statistic (101 years) ※ Measured discharge
- Discharge

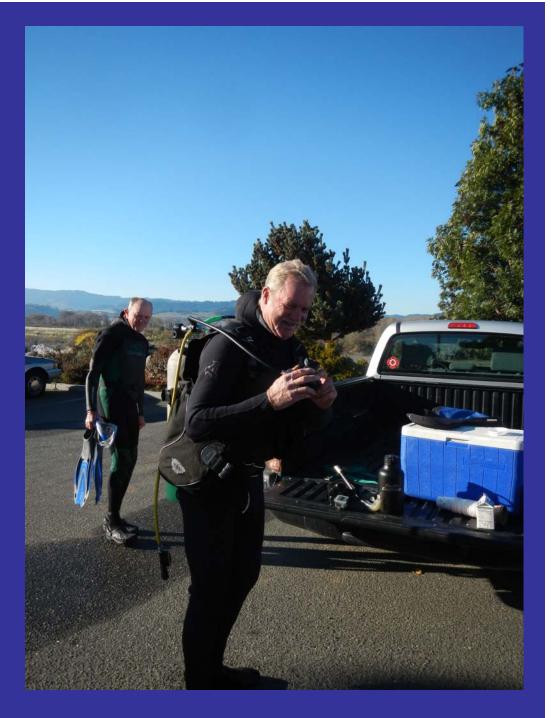
Purpose of December 5 Dive

- Historic salmon counts at Benbow Dam found that half the Chinook salmon run passed upstream before December 1 and half afterward.
- Since 2013 low flow conditions extended into December, ERRP decided to see if we could document the late run of Chinook and capture video in lower Eel River pools.
- Because of limited dive team size, complete count on December 5 dive was not expected, but late run Chinook could be confirmed and video documentation using scuba gear might later be used to estimate abundance.

Scuba!

ERRP volunteer Jeff Wells has mastered capturing beautiful images salmon underwater with video. He was frustrated by having to go up and down to video fish in deep pools like the 12th Street. ERRP rented him scuba gear from Pacific Outfitters in Eureka and equipped him so that he could swim deep amongst the late run fall Chinook salmon. Jeff (r) gets his scuba gear ready as David Wagner of Fernbridge looks on.

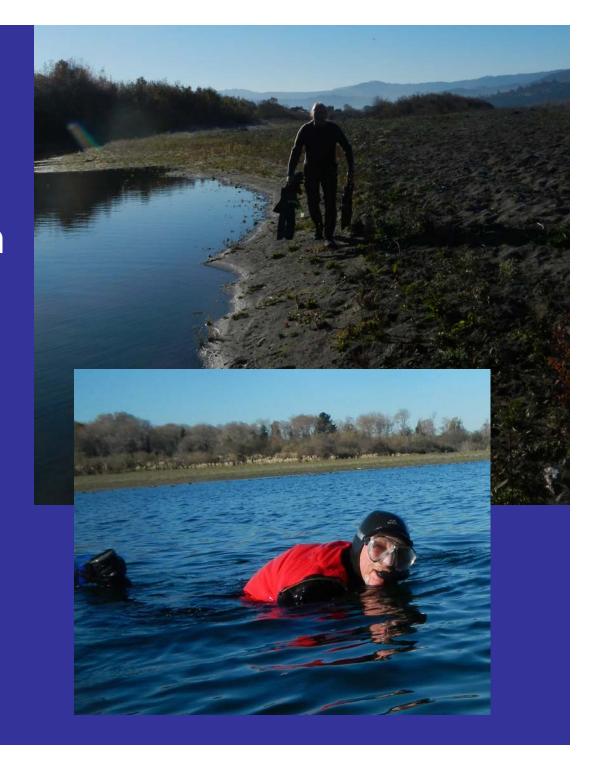
We appreciate the discount given by Pacific Outfitters and the support of other community businesses.

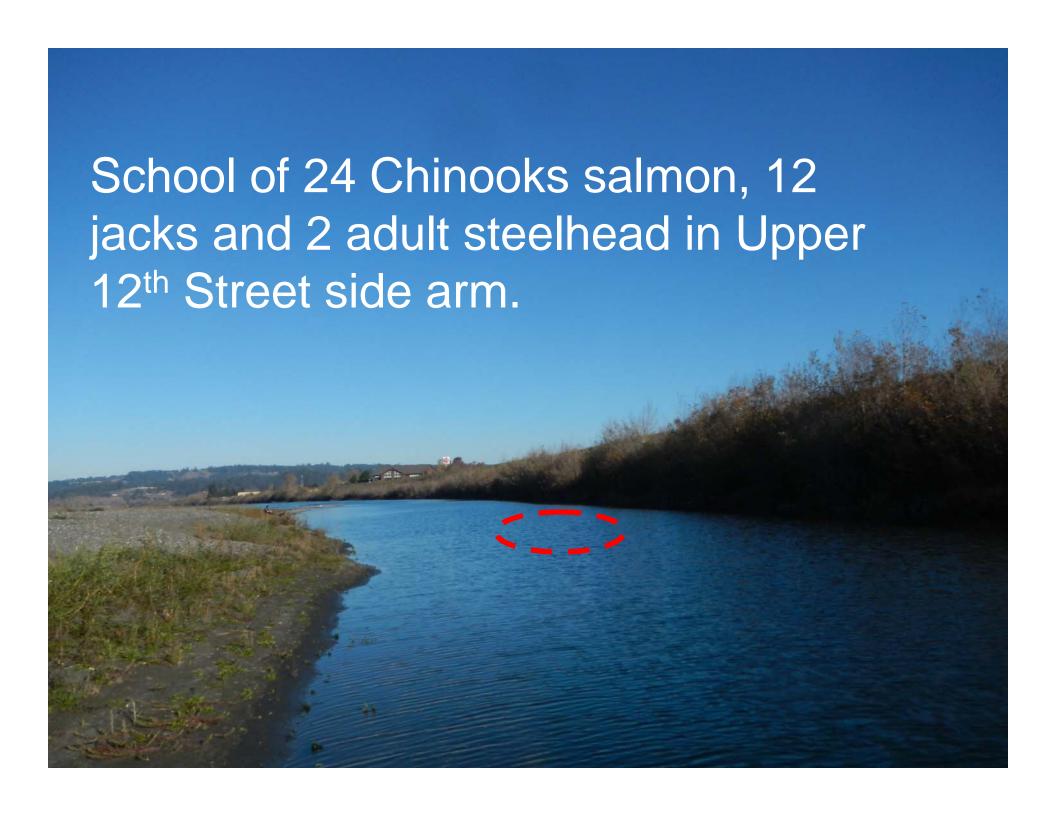


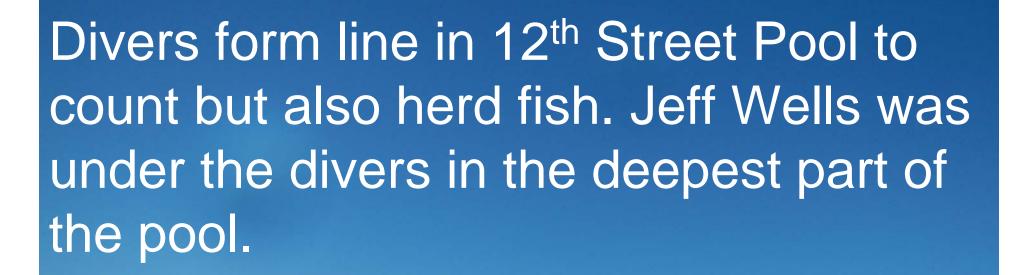


Volunteer Patrick
Ruell getting ready
to help count fish in
12th Street upstream
side arm.

David Sopjes in the back of the 12th
Street Pool in a dry suit, which is a very good strategy when the water is cold.







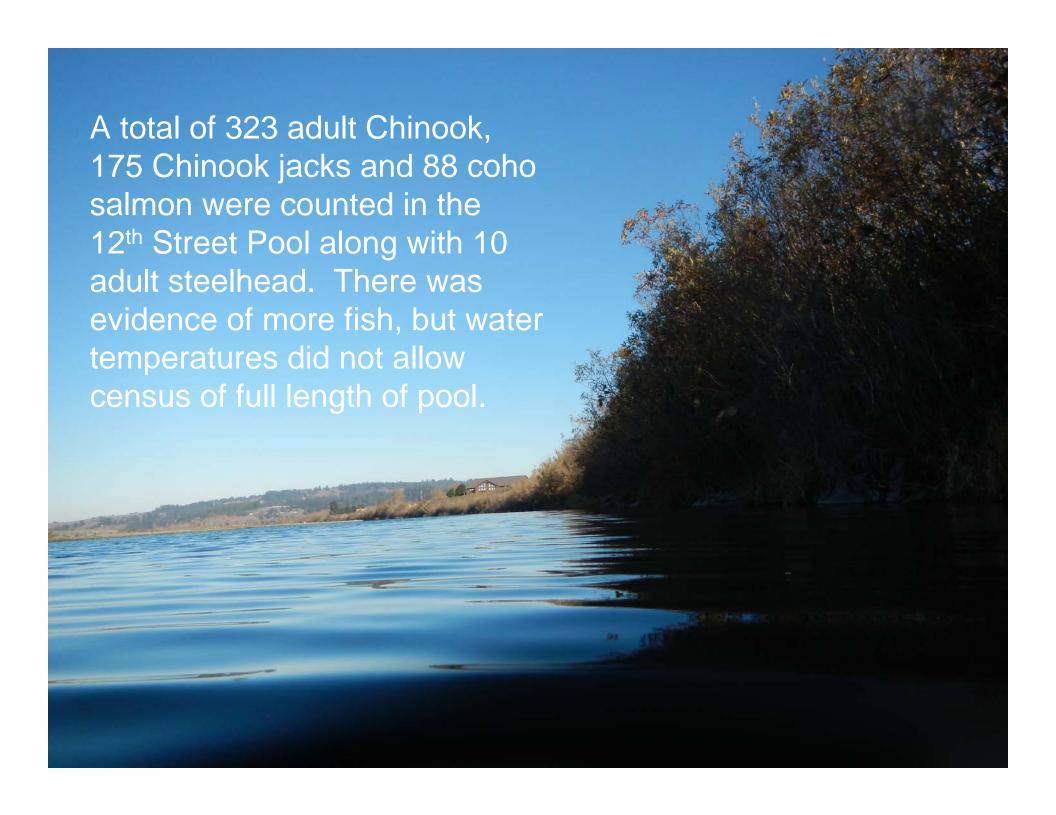


As divers moved to near River Lodge in a line, the water became cloudy indicating that they were pushing a school of Chinook salmon. And then they came into view.

Bright Chinook salmon visible in foreground, but school of Chinook salmon is obscured by sediment and algae stirred up by fish as divers advance.

Chinook adult female and jack salmon in 12th Street Pool. Scuba diver was able to swim forward out of the murky water with fish and good video will be available on ERRP website soon.



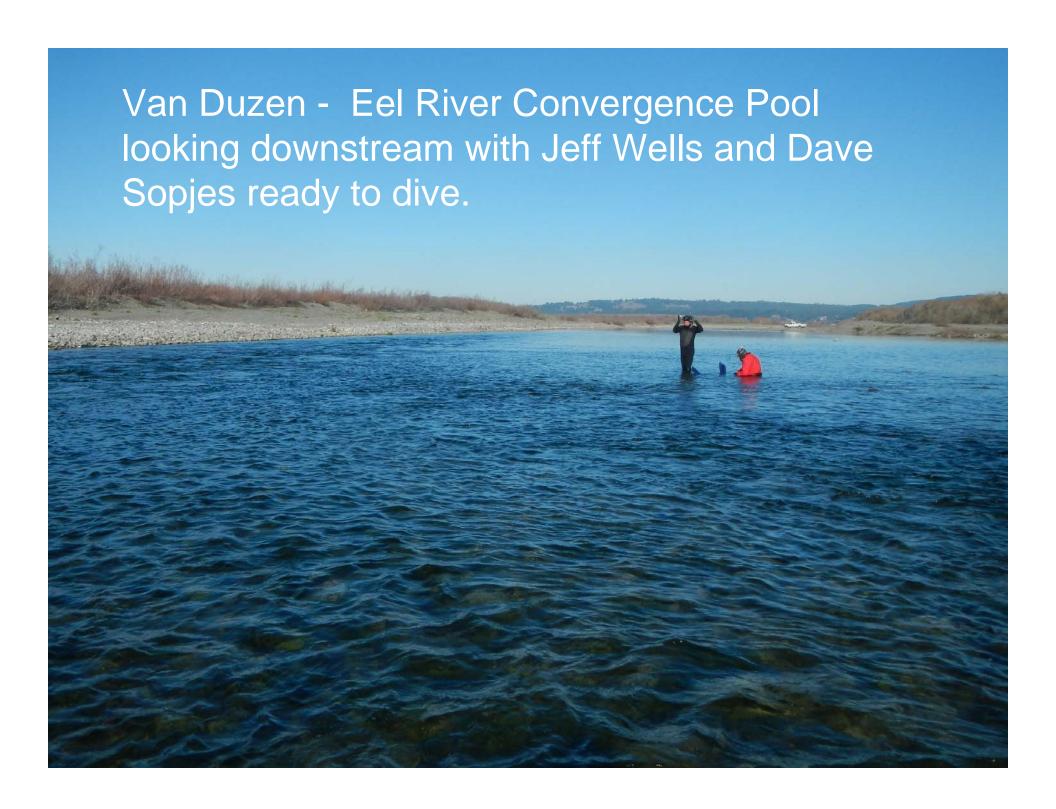


Three sturgeon were seen on 12/5 in 12th Street Pool ranging in length from 3 feet, four feet, and six feet or more. Most sturgeon in the Eel are green sturgeon, but the larger white sturgeon are also sometimes seen.

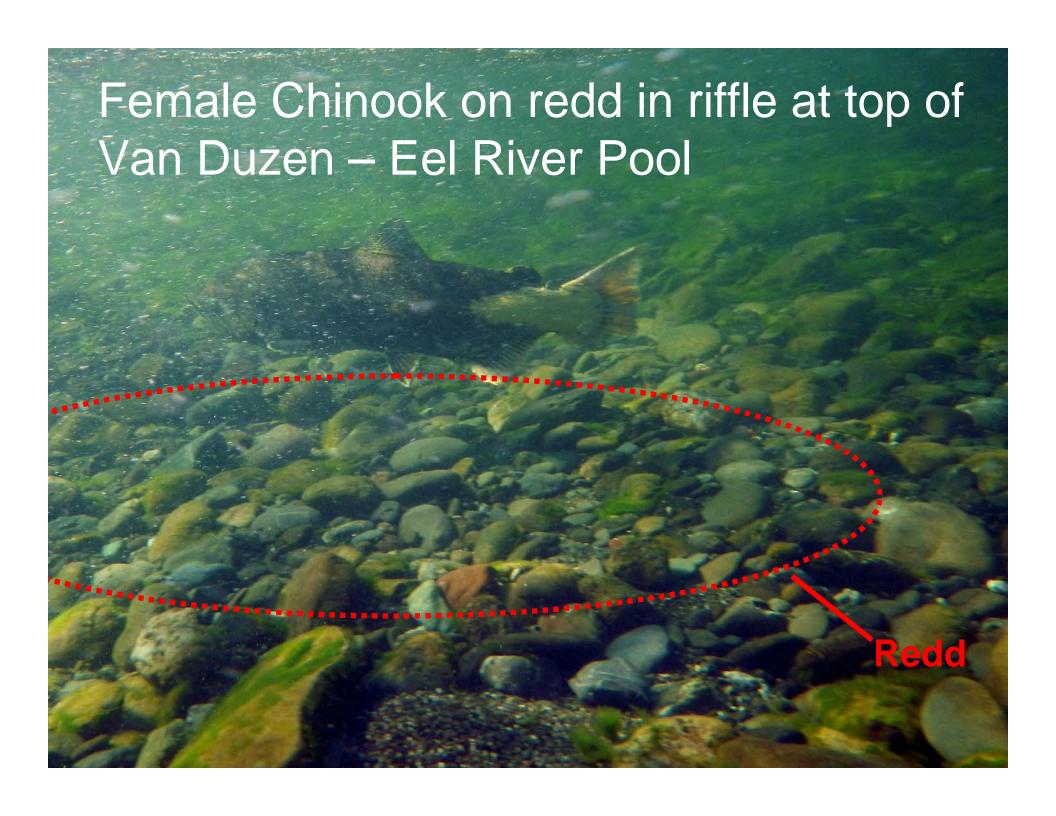
One 4 foot sturgeon was also sighted on 10/26 and 11/9.



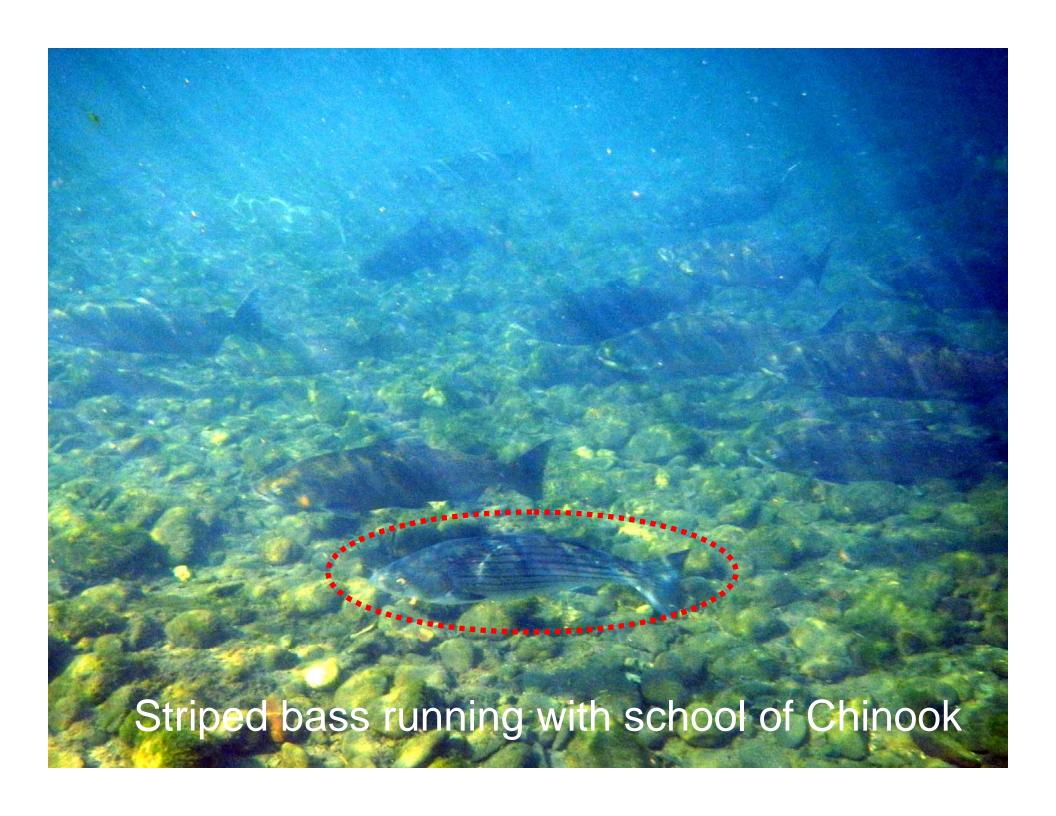














Pikeminnow in foreground with steelhead adult at upper left. Coho and steelhead numbers will be analyzed using video.



What Did We Learn

- Late run of Chinook in the lower Eel River was clearly evident on December 5 with many fish in a very bright, fresh condition.
- The order of magnitude of run is in the low thousands at least, with number counted by small team only partial.
- Use of scuba to capture video in deeper pools is safe and feasible
- Winter dives when flow conditions are low are feasible but water temperature was around lower limit for wetsuits and dry suits are recommended for future late season dives.
- Coho salmon and adult steelhead present as expected at lower numbers than Chinook.
- Three sturgeon (3 feet, 4 feet and one 6+ feet long) in 12th Street
- The pilot use of scuba gear to get down amongst fish shows promise for helping cross check diver observations in deep pools.