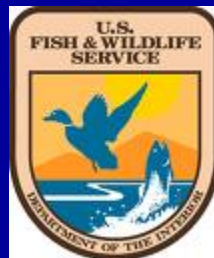


California Constant Fractional Marking (CFM) Program for Fall-run Chinook Salmon

Central Valley and Klamath Basins

Braden Buttars - PSMFC



Central Valley CFM Program

Cooperative program between many agencies-

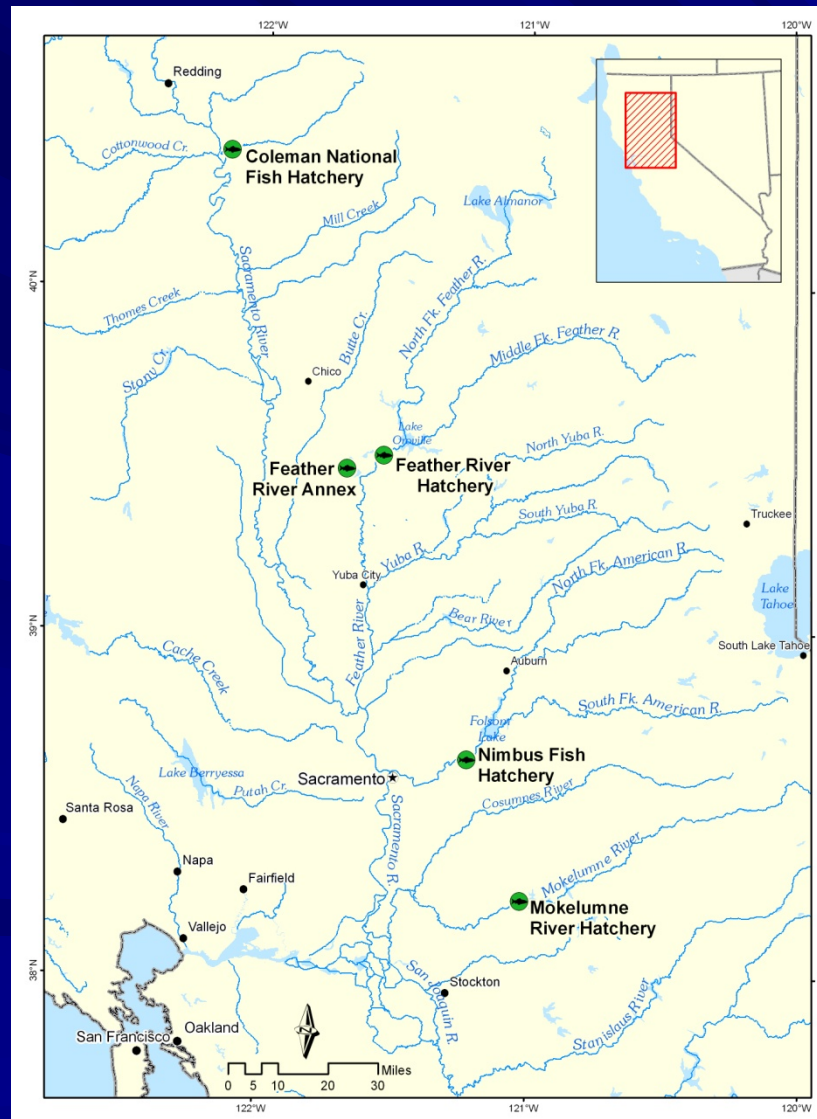
- PSMFC
- California Dept. of Fish and Game
- California Dept. of Water Resources
- USFWS
- US Bureau of Reclamation
- East Bay Municipal Utility District

Central Valley Hatcheries

- Coleman National Hatchery
- Feather River Annex at Thermalito
- Feather River Hatchery
- Mokelumne River Hatchery
- Nimbus Hatchery

4 AutoFish Trailers that begin the 25% CFM in 2007 (Brood year 2006)

Location of Central Valley Hatcheries



Marking timeframe for Central Valley hatcheries

- Trailer operations begin mid-February at the Feather River Annex
- Trailer operations completed the third week of May at Nimbus Hatchery
- 14-15 weeks of trailer operations to complete the Central Valley CFM

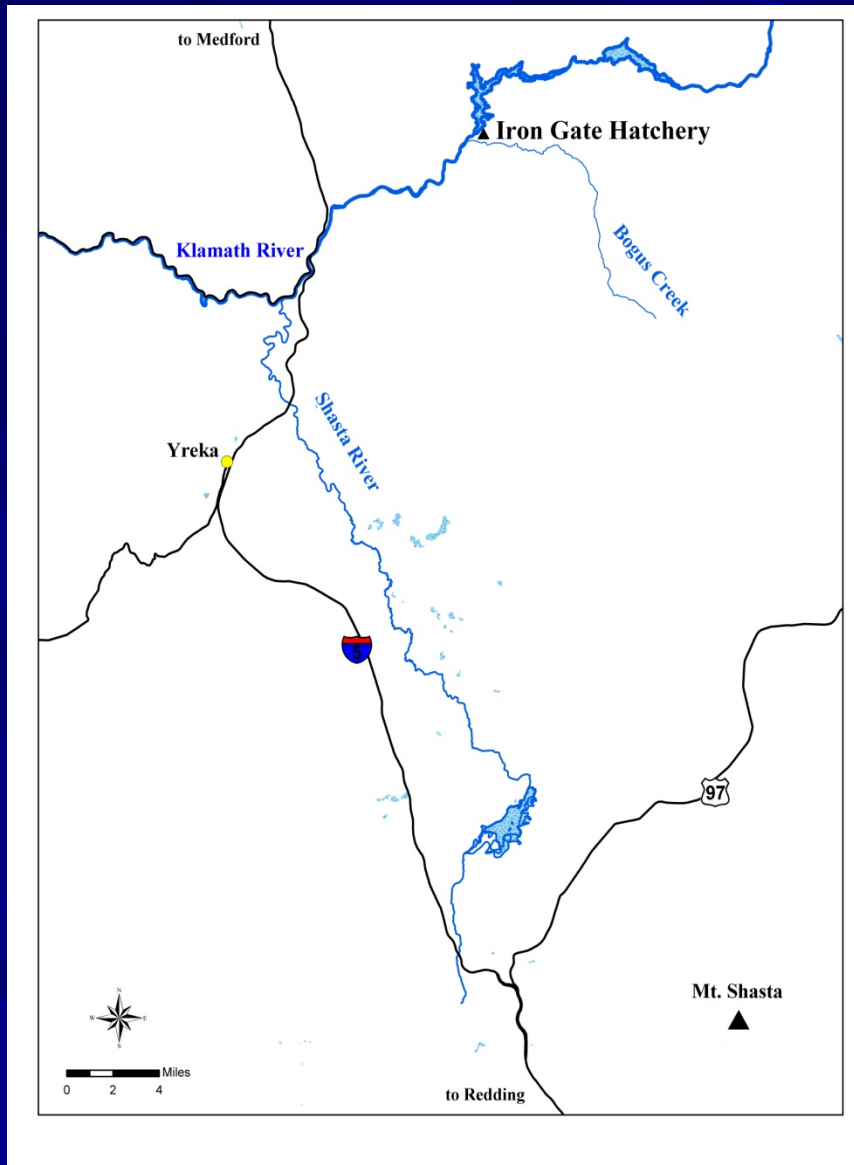
Klamath Basin

■ Iron Gate Hatchery

1 AutoFish Trailer that began the 25% CFM in 2009 (Brood year 2008)

Majority funded by Pacific Corp. with the remainder funded by CDFG

Location of Iron Gate Hatchery



Marking timeframe for Iron Gate Hatchery

- Trailer operation began the end of April
- Trailer operation completed June 1st
- 5 weeks to complete the CFM

(Note: trailer was not in operation more than a week in order to let the fish grow)

Numbers processed annually

Central Valley-

2007- Total fish processed **32,627,376**

8,154,552 CWT'd/ad-clipped

24,472,824 unmarked (counted)

Mark rate of 24.993%

2008- Total fish processed **31,586,303**

7,931,543 CWT'd/ad-clipped

23,654,760 unmarked (counted)

Mark rate of 25.1107%

Numbers processed annually (cont)

2009- Total fish processed **26,326,779**

7,174,719 CWT'd/ad-clipped

19,152,060 unmarked (counted)

Mark rate of 27.253%

Tag retention rates for all facilities have averaged over 99% for all three marking seasons

Klamath Basin

2009- Total fish processed **5,037,090**

1,257,801 CWT'd/ad-clipped

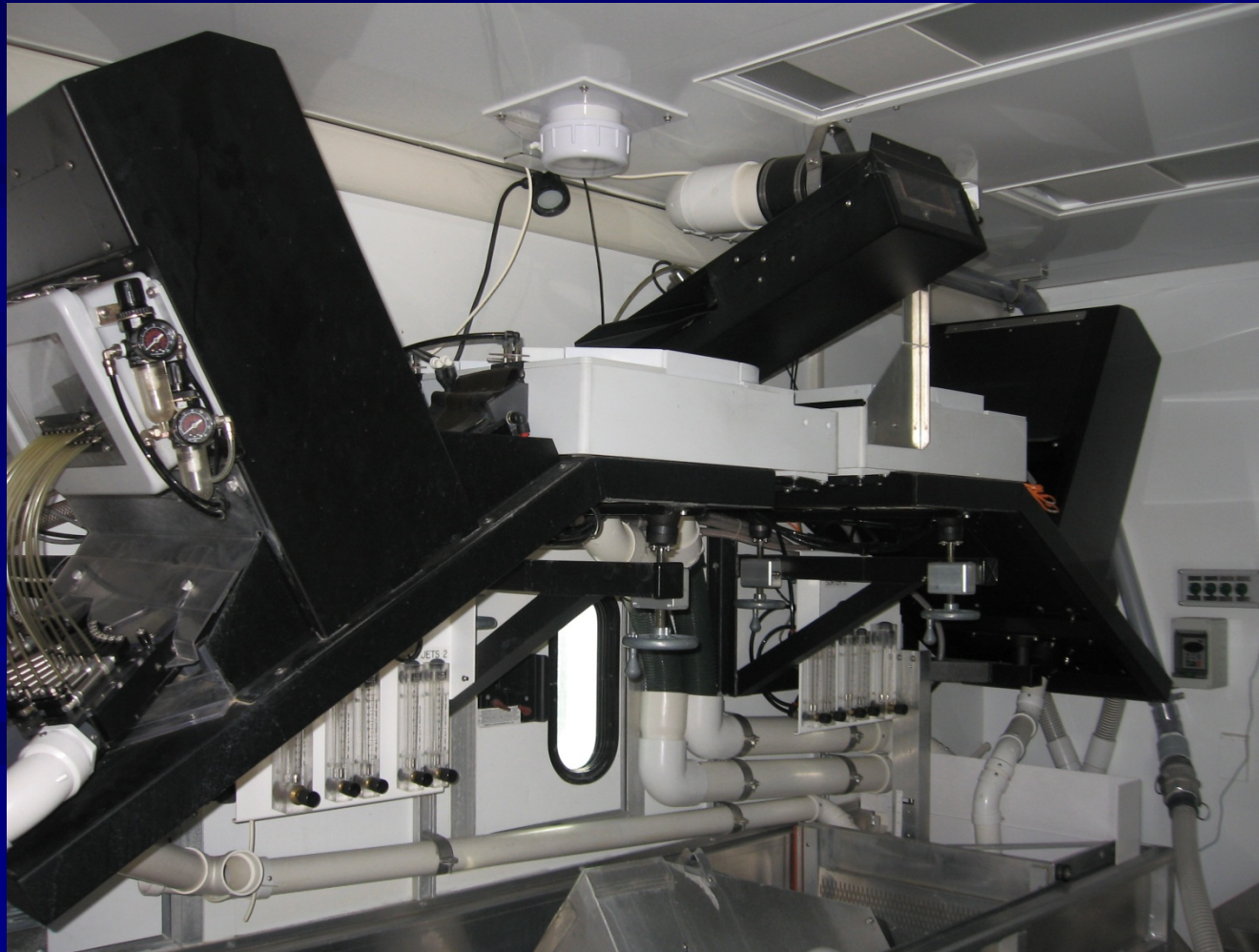
3,779,289 unmarked (counted)

Mark rate of 24.97%

Tag retention rates averaged 99.45%

Unique California AutoFish Trailers

- Two dual port sorters



Back deck for Matsusaka Fish Pump

