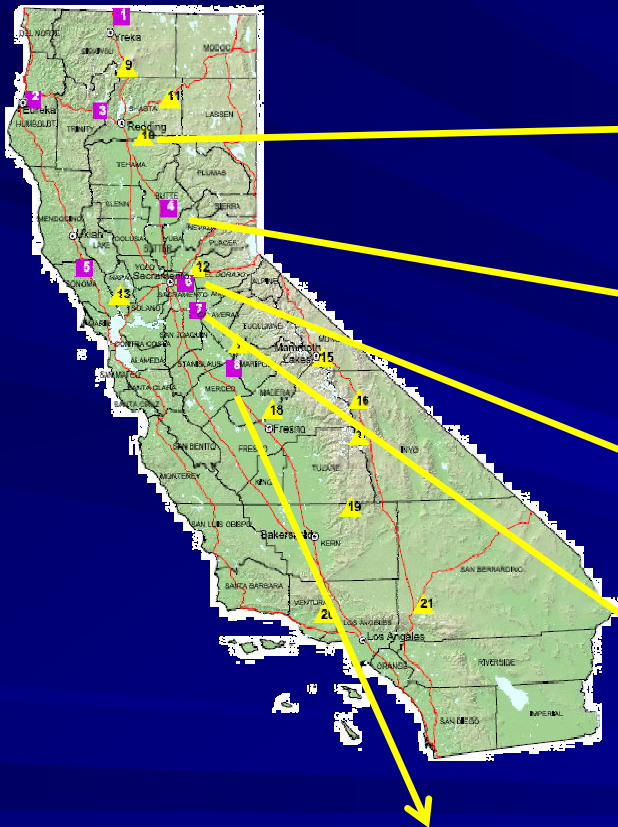


# DEVELOPMENT OF A COORDINATED MARKING/TAGGING PROGRAM FOR CALIFORNIA FALL-RUN CHINOOK SALMON

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*Fisheries Branch*  
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# FALL-RUN CHINOOK PRODUCTION AT CV HATCHERIES



Coleman Hatchery –  
12 million

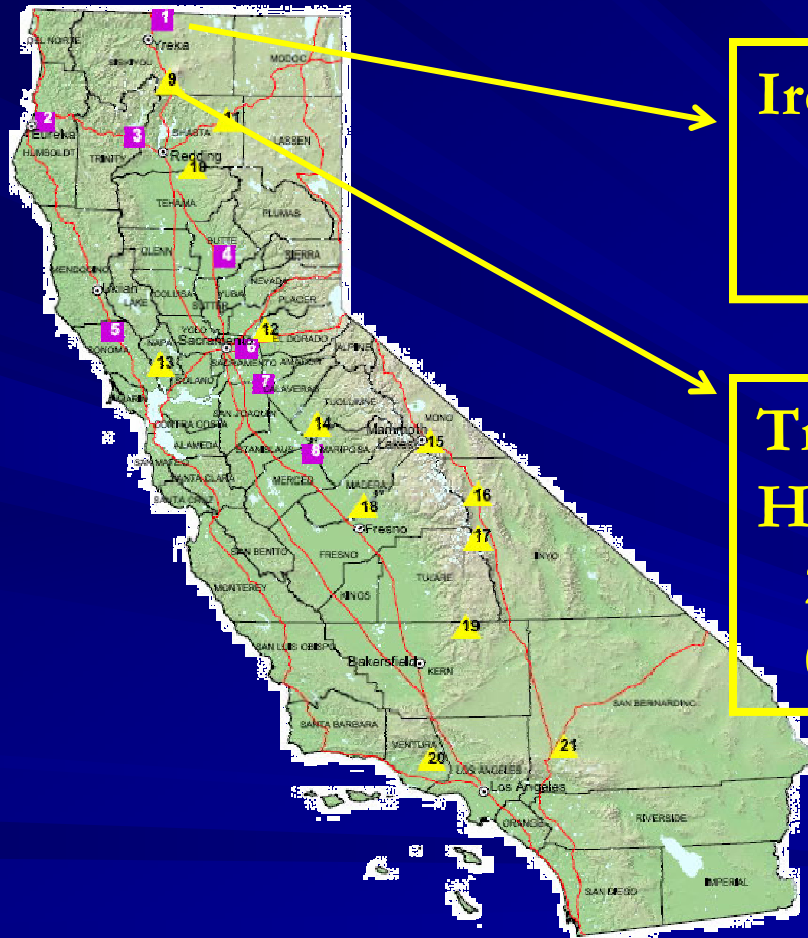
Feather River Hatchery –  
10 million

Nimbus Hatchery –  
4 million

Mokelumne River Hatchery –  
6.4 million

Merced River Hatchery –  
1.0 million

# FALL-RUN CHINOOK PRODUCTION AT KLAMATH/TRINITY HATCHERIES



**Iron Gate Hatchery –**  
5 million smolts  
1 million yearlings

**Trinity River  
Hatchery –**  
2 million smolts  
0.9 million yearlings



# **NEED FOR FALL-RUN CHINOOK MARKING PROGRAM**

- **Over 32 Million fall-run Chinook produced/year at five CV hatcheries; 10 Million fall-run at K/T hatcheries**
- **Until recent years, only experimental releases or low proportions of production releases marked/CWT'd (low, variable numbers)**
- **Long-term need for consistent marking program for production releases for improved management, coordinated with coastwide coded-wire tagging programs**

# WHY TAG HATCHERY RELEASES?

## MANAGEMENT USES OF CWT DATA

- **Fishery Management Evaluations**
  - Estimate and monitor contribution to ocean and inland fisheries
- **Hatchery/Wild Evaluations**
  - Straying rates, hatchery contribution rates, genetic and ecological effects on wild populations
- **Hatchery Evaluations**
  - Time, location of release, rearing studies
- **Habitat Improvement Evaluations**
  - Natural production rates

# **DEVELOPMENT OF CV MARKING PROGRAM**

- **1998 – 2004 - Modeling studies**
- **2000/2001 - CFM pilot program**
  - 5.3 million fish tagged
- **2004 - Implementation Plan completed**
  - 25% rate
- **2006 – Funding for equipment and first 2 years operating obtained through CALFED Bay-Delta Program**

# **DEVELOPMENT OF K/T MARKING PROGRAM**

- **Trinity River Hatchery**
  - 1978 – 2000 – Marking/tagging at 7 – 40%
  - 2001 – Implemented 25% CFM program
- **Iron Gate Hatchery**
  - 1978 – 2008 - Marking/tagging at  
2.5 – 10 % rate
  - 2009 – Implemented 25% CFM program