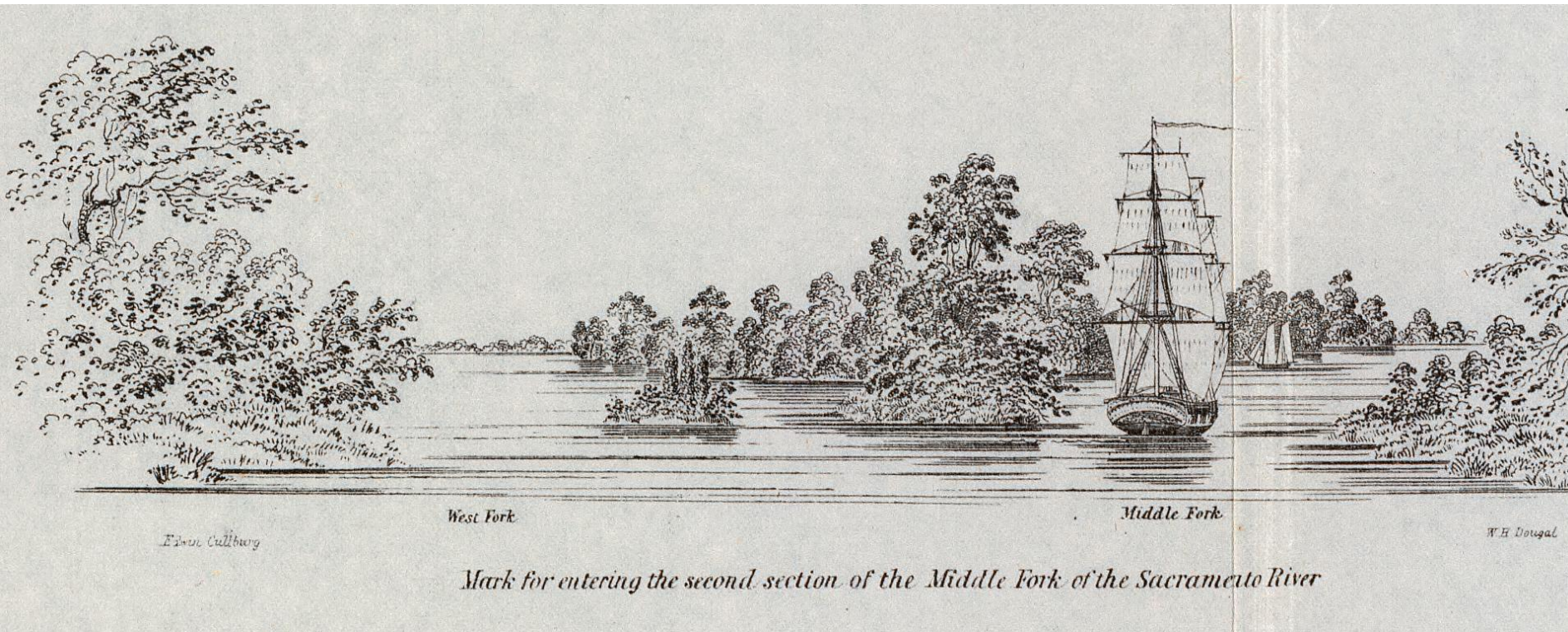


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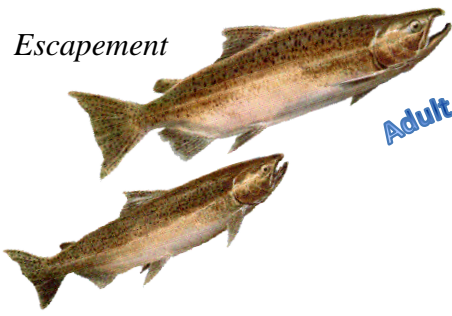


1852 lower Sacramento navigation chart from David Rumsey historical map collection

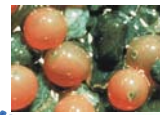
Handouts Prepared for  
Water Education Foundation  
2014 Northern California Tour Oct 22-24



Escapement



Adult salmon return to natal river spawn and die



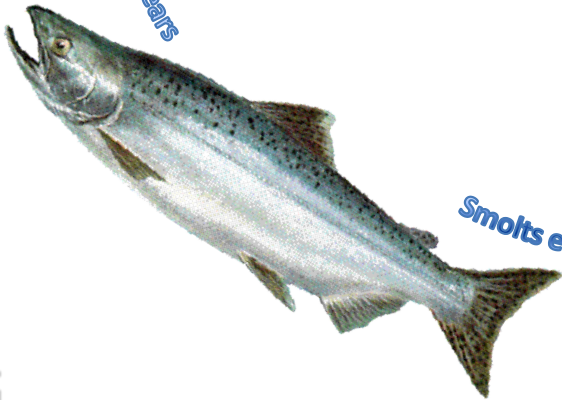
Young hatch, rear in rivers



Young mature into smolts, Migrate out rivers and estuary



Smolts enter ocean



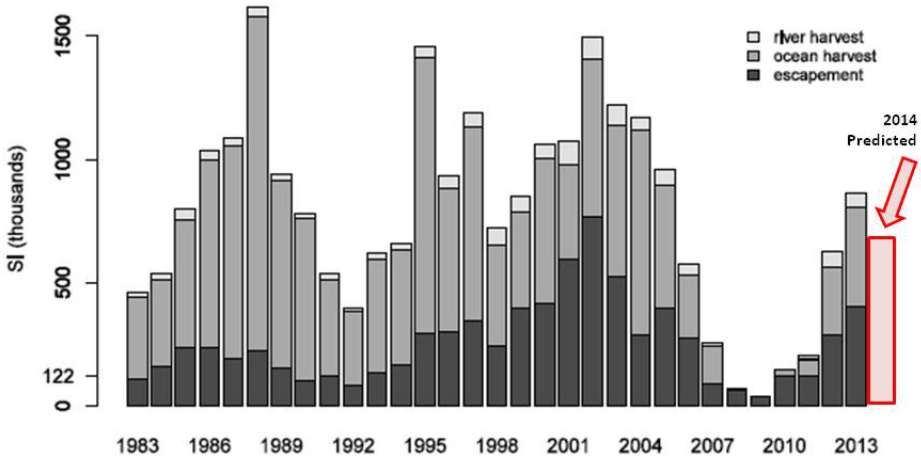
Salmon grown in ocean 1-5 years

The *unique* Sacramento River System:

4 different types of Chinook(King) Salmon:

- Fall Run – primary harvest run
- Late-Fall – Spp. of Concern
- Winter Run - Endangered
- Spring Run - Threatened

Sacramento River Fall Run Chinook– Abundance Trends



\*2014 Season Predicted values. (Pacific Fishery Management Council, 2014)



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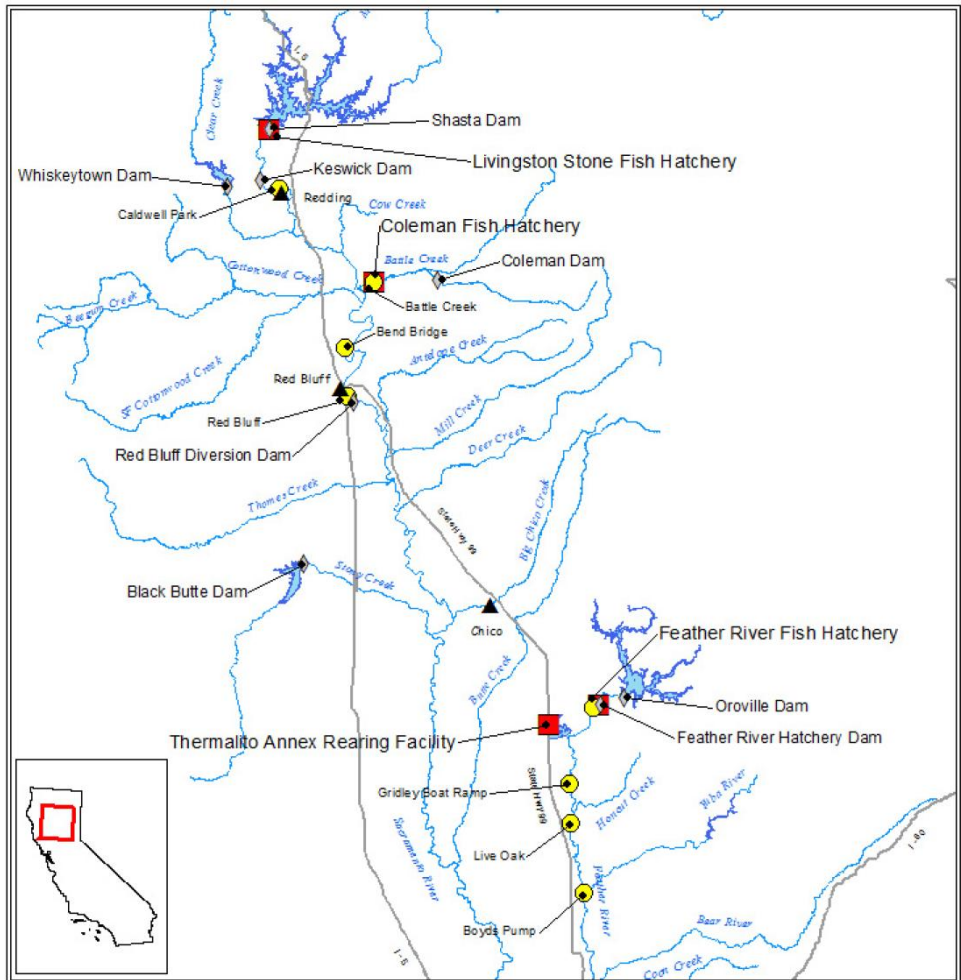
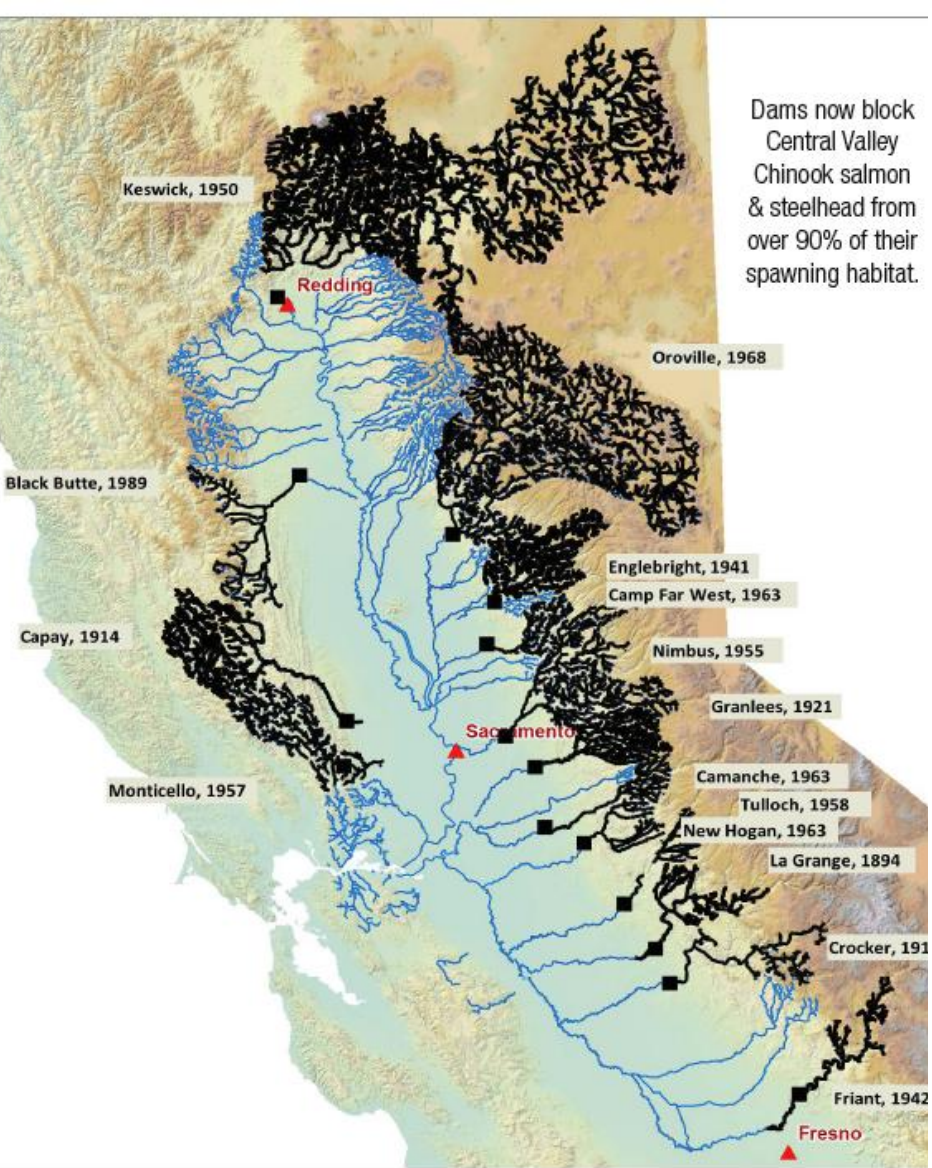
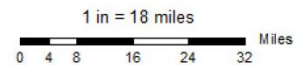


Figure 1-3. Central Valley North Anadromous Fishery Facilities

- Lakes and Other Waterbodies
- Rivers
- Highways
- Cities
- Dams
- Release Sites
- Hatcheries



Source: 2014 NOAA Fisheries Central Valley Chinook Salmon and Steelhead Recovery Plan

Source: 2012 California Hatchery Review Project

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2014 WEF Northern California Tour Oct 22-24

# Sacramento River Riparian Habitat

- Supports over 225 vertebrate wildlife species
- Dominated by deciduous trees and shrubs
- Able to survive flood disturbance
- Needs summer water
- Important input to aquatic habitats(woody debris,bugs)
- Vegetation regenerates with meander, erosion/deposition, flooding;

## Current status and trends :

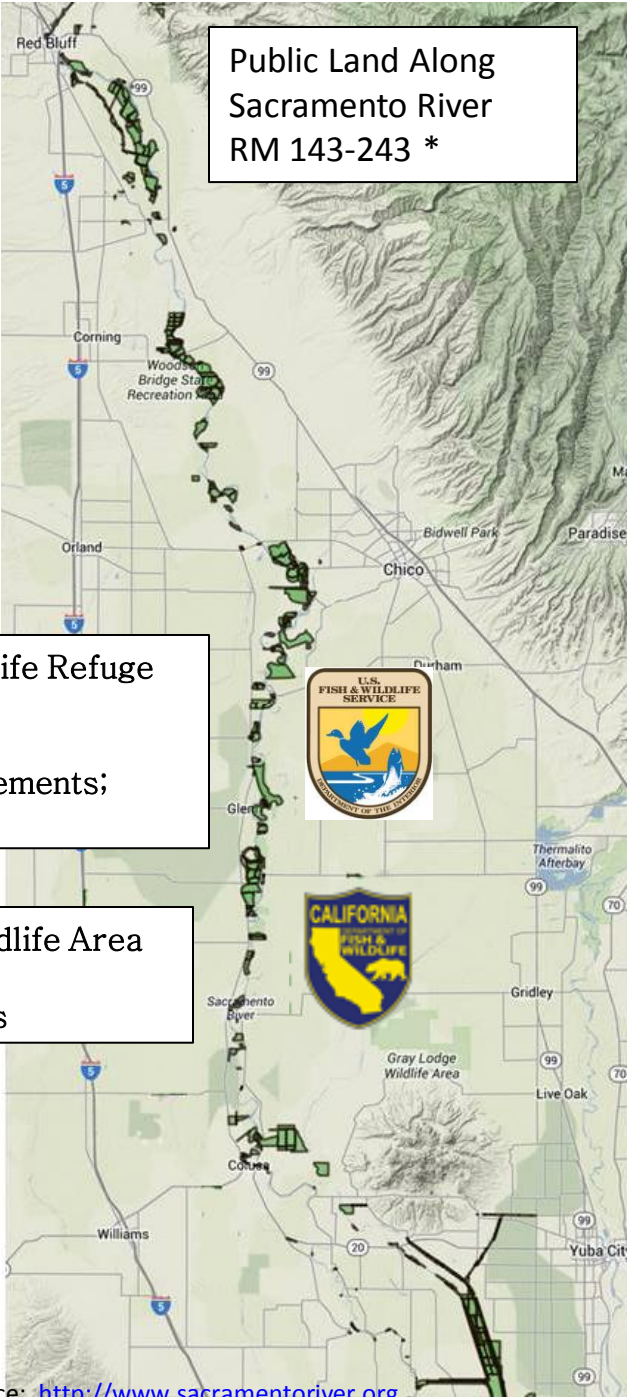
- ↗ increased conservation ownership and restoration plantings
- ↘ decreased natural ecological processes e.g. meander and floodplain dynamics



Illustration by Jennifer Lutz

Sacramento River National Wildlife Refuge  
USFWS  
10,000+ acres;  
1,300 acres in additional easements;

Sacramento River Wildlife Area  
CDFW  
4,000+ acres



Public Land Along Sacramento River RM 143-243 \*



\*Map Source: <http://www.sacramentoriver.org>