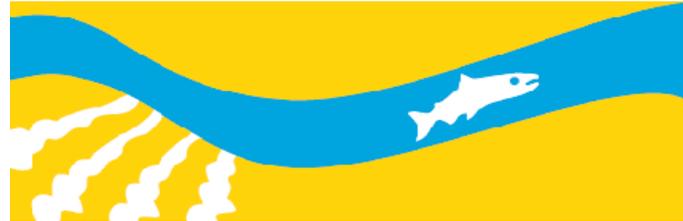


**SAN JOAQUIN RIVER
RESTORATION PROGRAM**



Experimental Population Rules 10(j) and 4(d) for Spring-run Chinook Salmon Reintroduction

NEPA Alternatives

Rhonda Reed
NOAA's National Marine Fisheries Service



SJRRP Salmon Reintroduction

- **Settlement:** reintroduce spring-run and fall-run Chinook salmon (by 2012...).
- **Federal legislation:** spring-run reintroduced under the SJRR Settlement Act shall be as 10(j) experimental population.
- **State law:** new authority - CDFG may concur with NMFS SJR spring-run experimental population designation.



Statutory and Regulatory Framework

Experimental Population 10(j)

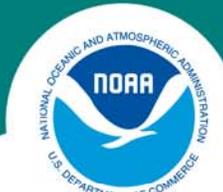
- Delineated area
- Threatened Status
- Section 9: prohibits “take”
- Section 4(d):
 - May exempt “take” prohibition
 - For conservation purposes
 - For Threatened species
 - Applies also to non-federal entities



NEPA Alternatives

- Source Populations
- 10(j) Experimental Population Area
- 10(j) Experimental Population Duration
- 4(d) Rule

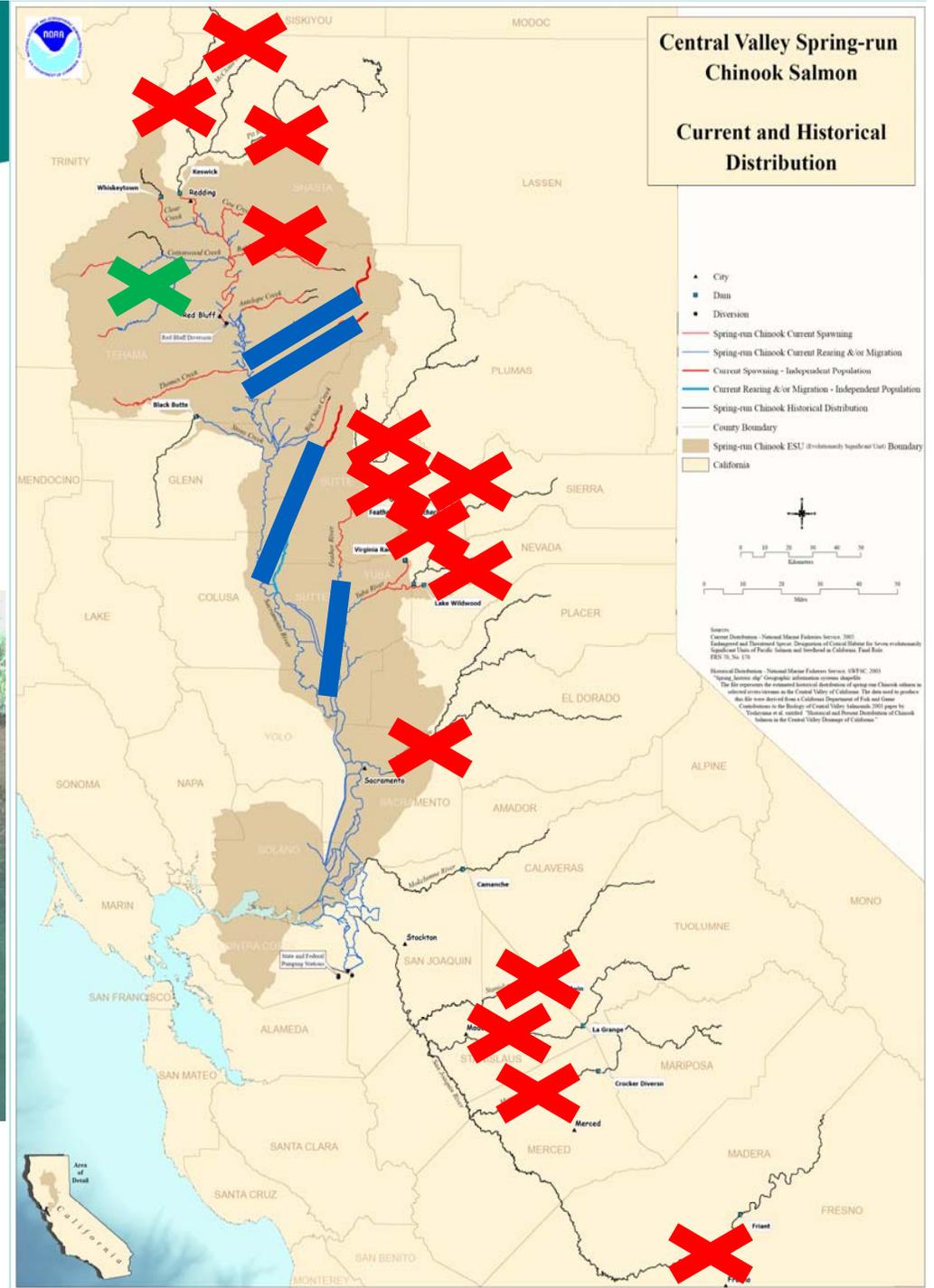
NOAA
FISHERIES
SERVICE



Central Valley Spring-run Chinook salmon (Threatened)



- Historically: ~18 populations
- Currently: 3 wild populations, 1 wild/hatchery population





Source Population Alternatives

- Multiple Source
- Single Source: Wild
- Single Source: Hatchery

- Not Analyzed:
 - Volitional reintroduction





Protect Existing Populations

- Take only allowed through ESA section 10 and section 7 authorities.
- Collection of fish for founding stock will consider source population condition and San Joaquin River habitat condition.
- Conservation fish facility will minimize the number individuals taken from existing populations.



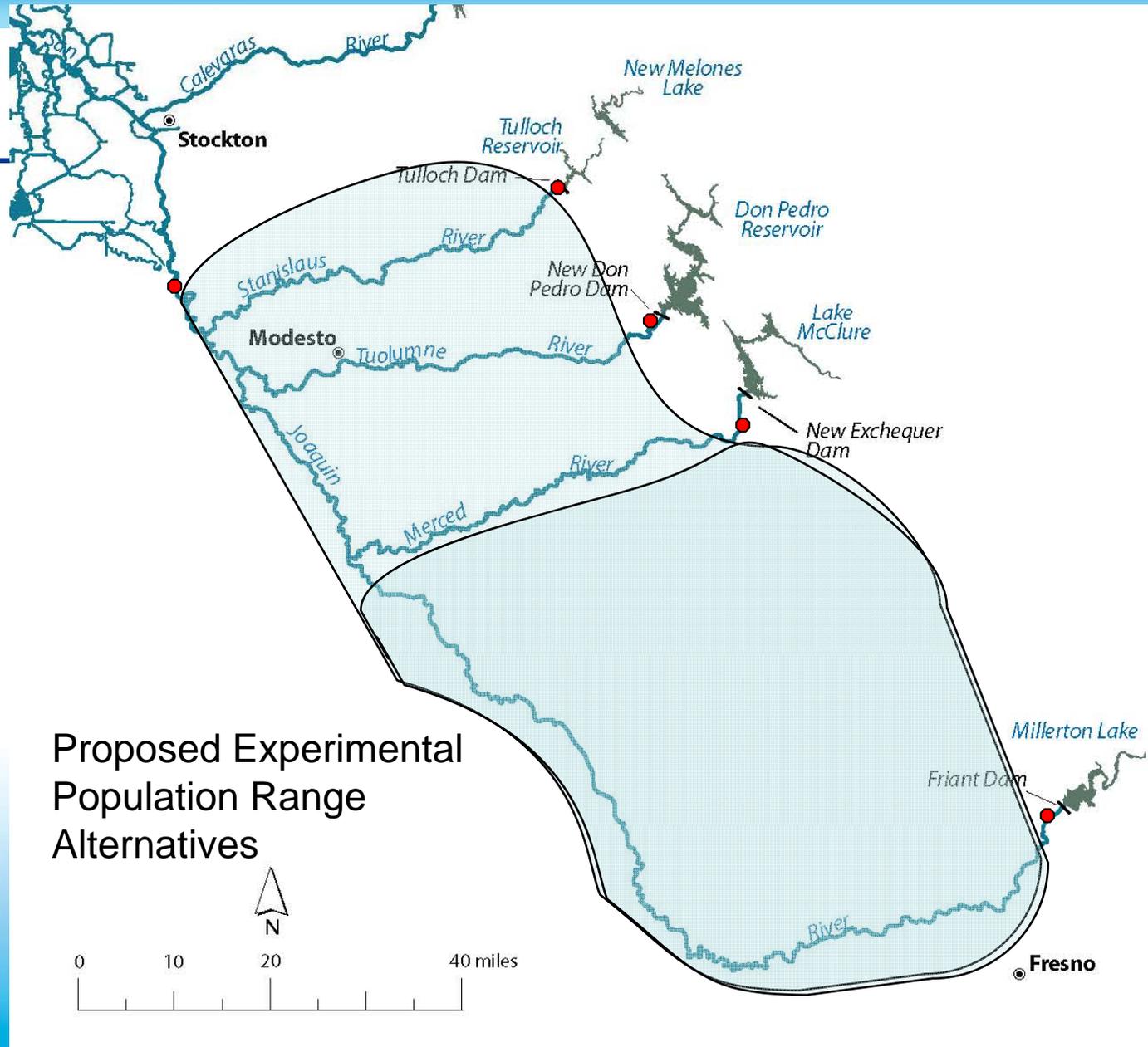


10(j) Alternatives

- 10(j) Experimental Population:

Geographic coverage





Proposed Experimental Population Range Alternatives



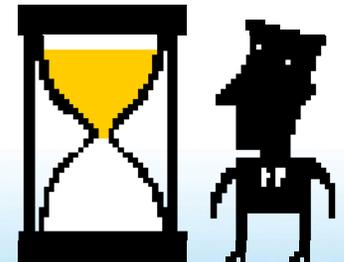
NEPA Alternatives

- 10(j) Experimental Population: Duration

- Sunset 2025

- No sunset

- Required review by 2025



- Not analyzed:

- Review every 5 years with species status review



4(d) rule Alternatives

- Existing (no action)
- De minimis effect on 3rd party water supply, releases, and bypass flows

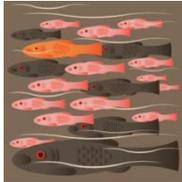
Common to all alternatives:

- Experimental population area take exemptions
 - Incidental to lawful activity: no violation
 - Studies, research: by permits

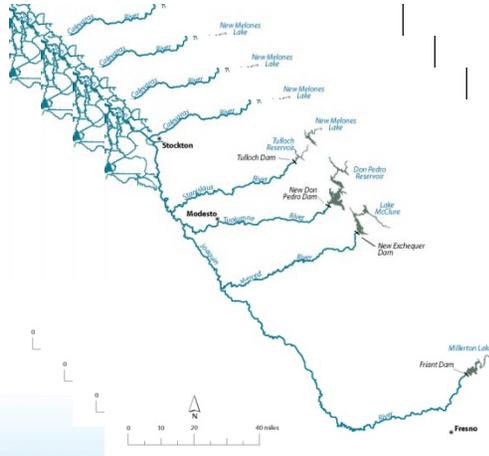


Preferred Alternative Choice

Source
Stock



Area



Duration



4(d) rule





Discussion