



NMFS 2013 Salmon Fishery Guidance

**California Department of Fish and Wildlife
Salmon Information Meeting
February 28, 2013**

**Heidi Taylor, Sustainable Fisheries Division
Dan Lawson, Protected Resources Division**

Preliminary NMFS guidance for salmon stocks off California; final guidance will be provided at the March 2013 Pacific Fishery Management Council meeting.



Central Valley Chinook Stock Complex **Sacramento River Fall Chinook (SRFC)-Indicator**

- Overfished in 2010
- Rebuilt for 2013 salmon season
- Exceeded S_{ACL} in 2012

Southern Oregon/Northern California Chinook Stock Complex **Klamath River Fall Chinook (KRFC)-Indicator**

- Not overfished/no overfishing
- Exceeded S_{ACL} in 2012

Guidance for 2013

- The 2013 ocean fishery designed to meet/exceed:

Stock		2013 S_{ACL}
SRFC	250, 262 natural and hatchery spawners	
KRFC	73, 751 natural spawners	

A large, faint, light gray illustration of a salmon is positioned in the background, facing right. It serves as a backdrop for the title text.

Endangered Species Act (ESA) Listed Stocks



Sacramento River Winter Chinook

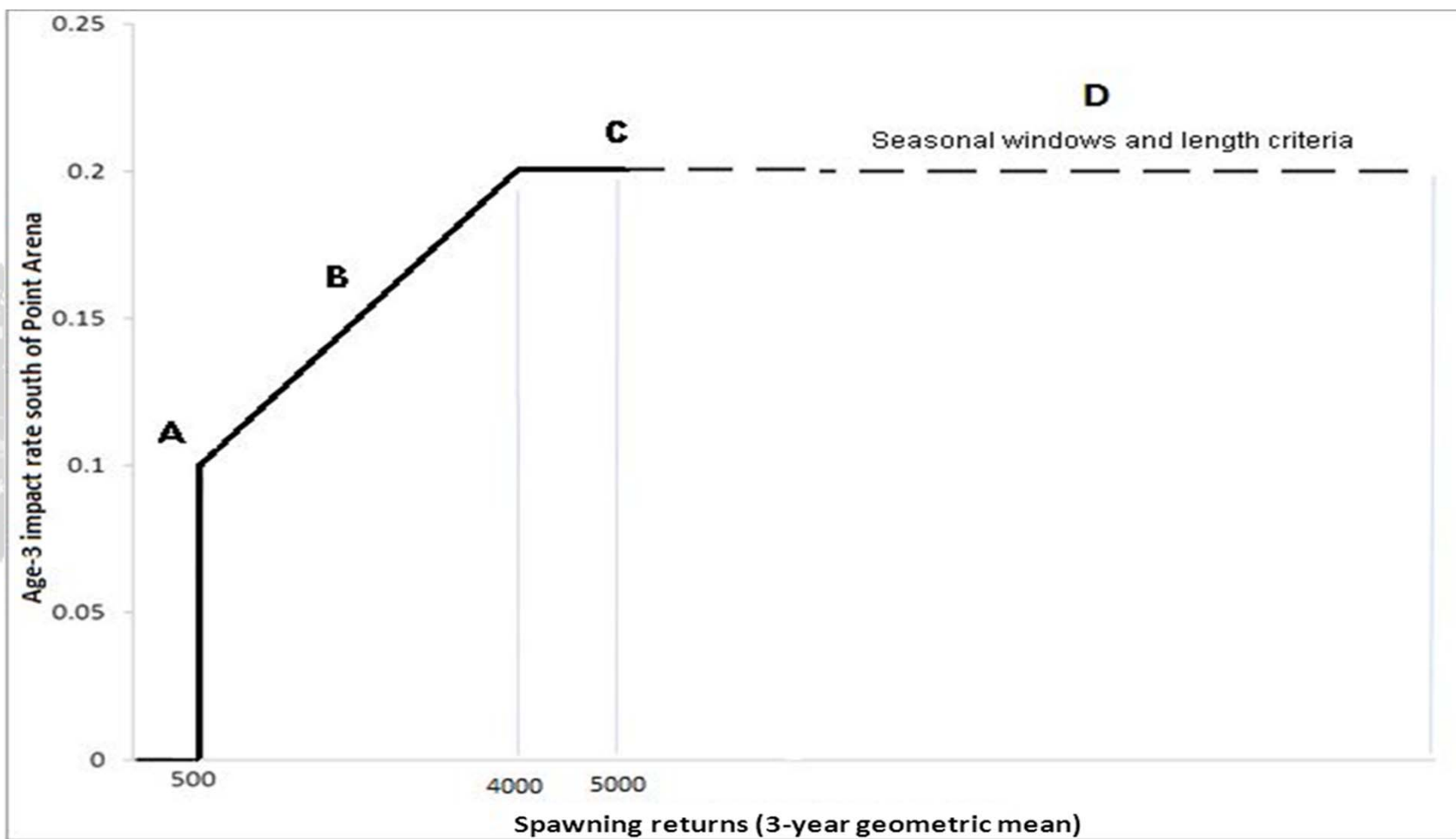
- ESA – Endangered
- Jeopardy Biological Opinion completed on April 30, 2010
- RPA required a new management framework for fishery impacts by the start of the 2012 fishing year
- Guidance for 2013 includes:
 - Continuation of previous consultation standards on minimum size limits and seasonal windows
 - Impact rate cap (preseason impact rate prediction not to be exceeded) on age-3 winter-run using the winter-run harvest model (WRHM)
 - Similar to harvest models for Klamath and Sacramento
 - Circle hook restrictions while mooching in the recreational fishery between Horse Mountain and Point Conception should continue
- Impact rate cap for 2013 = 12.9%



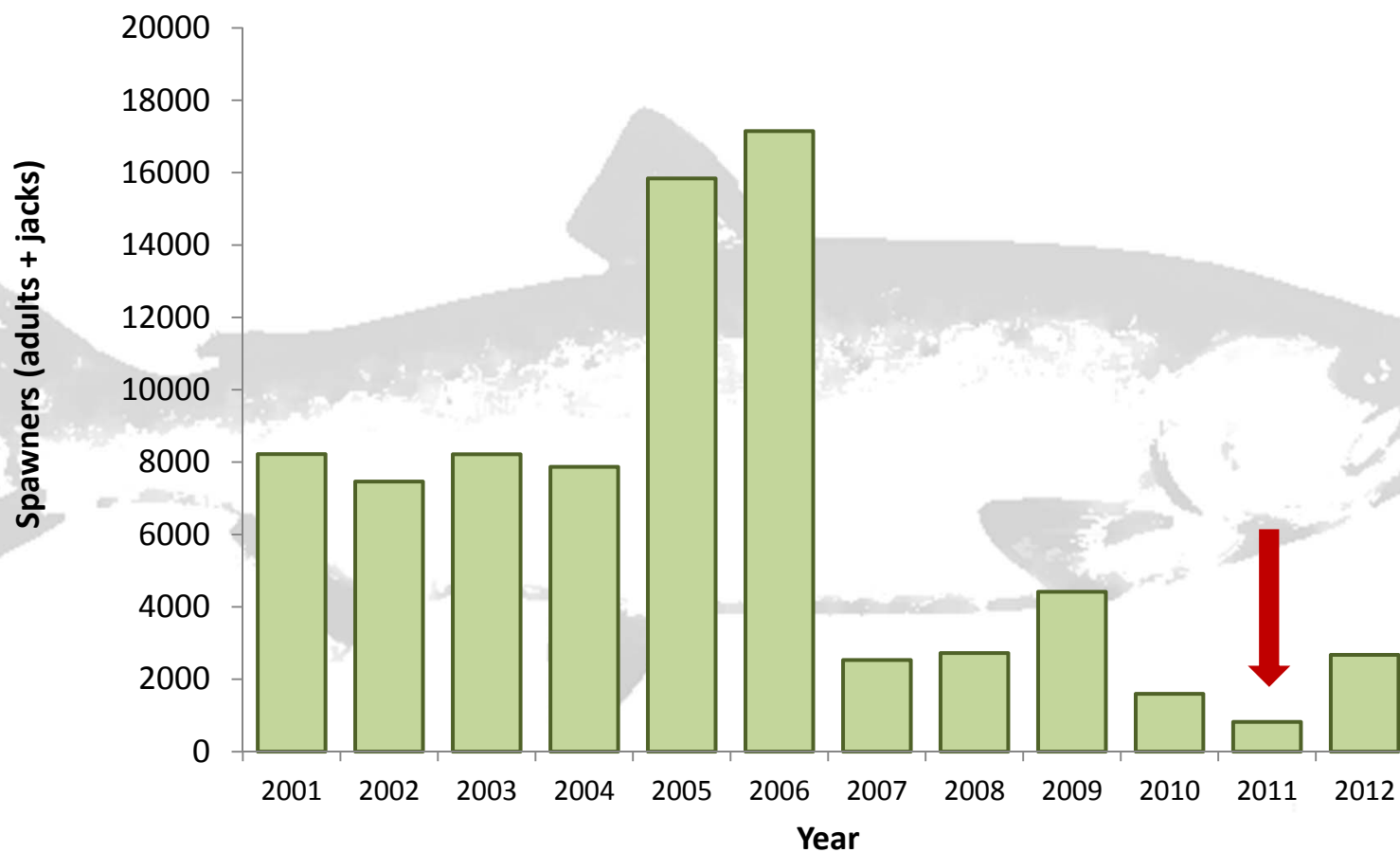
Framework Key Points

- Framework impact rate cap applies to fisheries south of Point Arena
- Framework is designed to limit exploitation of winter-run when at low abundance
- Data Sources
 - Winter-run abundance and trend data
 - Simulation and harvest management strategy evaluations (MSE)
 - Viability criteria for Central Valley salmon (Lindley *et al.* 2007)
 - Precautionary principals associated with endangered salmonid species.

Winter-run Management Framework



Geometric mean of last 3-years of spawning
escapement: (2010-2012) = 1,521



Winter-run spawner escapement from carcass surveys

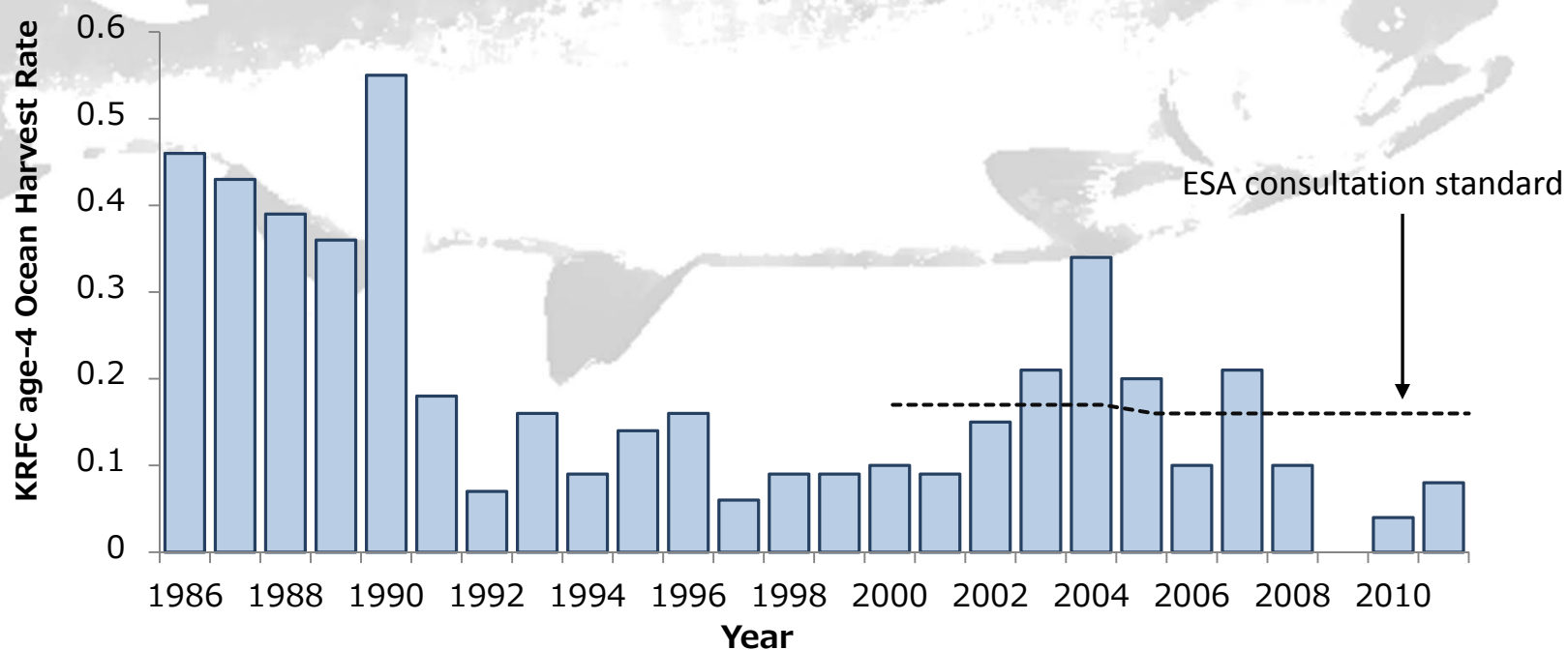


Central Valley Spring Chinook stock

- ESA – Threatened, 2000 Biological Opinion
- Abundance trends from Deer, Mill, Butte Creeks
 - Increasing last 2 years
- Based on Opinion, NMFS concludes new 2012 management guidance for Sacramento winter run and Salmon FMP provides sufficient protection for 2013 season

California Coastal Chinook

- ESA – Threatened, 2000 Biological Opinion
- Indicator stock – Klamath River Fall Chinook (KRFC)
- **Consultation standard**-forecast KRFC age-4 ocean harvest rate $\leq 16\%$





California Coastal Chinook

- Tech memo released in 2012 from SWFSC:
 - Current data
 - Considerations for future changes in management
- April 2013 joint session between the STT and SAS
 - Consider information for improvements to management strategy
 - Sacramento winter-run
 - California Coastal Chinook



Coho

- Prohibit coho-directed fisheries off CA
- Prohibit coho retention in Chinook-directed fisheries off CA
- **Southern Oregon/ Northern California Coho**
 - ESA – Threatened
 - Indicator stock – Rogue/Klamath coho hatchery stock
 - 1999 supplemental Biological Opinion
 - Ocean exploitation rate $\leq 13\%$ on Rogue/Klamath coho hatchery stock
- **Central California Coastal (CCC) Coho**
 - ESA – Endangered
 - Limited info on harvest rates or hooking mortality
 - incidental to Chinook fisheries