Agenda

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE 2016 SALMON INFORMATION MEETING

Sonoma County Water Agency Office 404 Aviation Boulevard Santa Rosa, California 95403

> Wednesday, March 2, 2016 9:30 a.m. – 3:30 p.m.

| Welcome - Moderator Opening Comments and Review Agenda | Brett Kormos, CDFW (9:30 a.m.) |
|---|---|
| 2015 Central Valley Chinook Spawner Escapement | Vanessa Gusman, CDFW (9:45 a.m.) |
| Central Valley Winter Run Chinook Current Status and Overview | Dan Kratville, CDFW (10:05 a.m.) |
| 2015 Central Valley Chinook River Sport Fisheries | Erin Ferguson, CDFW (10:30 a.m.) |
| BREAK (15 minutes) | (10:50 a.m.) |
| 2015 Klamath Basin Chinook Spawner Escapement, Harvest and Age Composition | Morgan Knechtle, CDFW (11:05 a.m.) |
| 2015 California Ocean Salmon Sport and Commercial Fisheries Overview | Alex Letvin, CDFW (11:25 a.m.) |
| LUNCH BREAK (1 hour) | (11:45 p.m.) |
| NMFS 2016 Ocean Salmon Fishery Guidance | Jeromy Jording, NMFS (12:45 p.m.) |
| Abundance Forecasts and Harvest Model Results | Dr. Michael O'Farrell, NMFS (1:00 p.m.) |

Introduction of California Salmon Management Panel

Brett Kormos, CDFW (1:30 p.m.)

Panel members:

Ms. Marci Yaremko, CDFW Marine Region, PFMC-CDFW Designee

Mr. Dan Wolford, CA PFMC member

Mr. David Crabbe, CA PFMC member

Mr. Dave Bitts, PFMC-SAS, CA Troll Representative

Mr. Marc Gorelnik, PFMC-SAS, CA Sport – Private Skiff Representative

Mr. John Atkinson, PFMC-SAS, CA Sport - Charter Boat Representative

Mr. Jim Hie, PFMC-SAS, Conservation

Dr. Michael O'Farrell, NMFS SWFSC, PFMC-STT, Vice-Chair

Mr. Brett Kormos, CDFW Marine Region, PFMC-STT

Public Comment to California Salmon Management Panel

(1:40 p.m.)

- 2016 Ocean Sport Fishery Regulations
- 2016 Ocean Commercial Fishery Regulations
- 2016 Inland Fishery Regulations
 - Klamath River Basin
 - Sacramento River Basin and Delta

Closing Comments and Evaluation Form

Brett Kormos, CDFW (3:15 p.m.)

Acronyms:

CDFW: California Department of Fish and Wildlife

NMFS: National Marine Fisheries Service PFMC: Pacific Fishery Management Council SAS: PFMC Salmon Advisory Subpanel STT: PFMC Salmon Technical Team

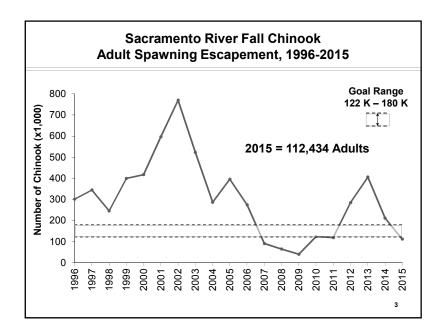
SWFSC: NMFS Southwest Fisheries Science Center, Santa Cruz, CA

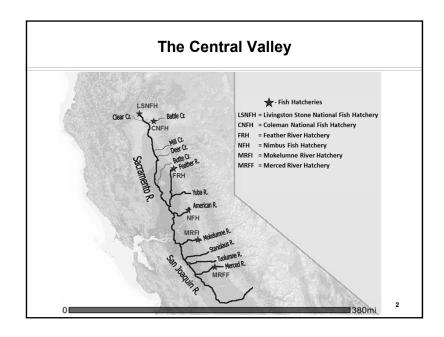


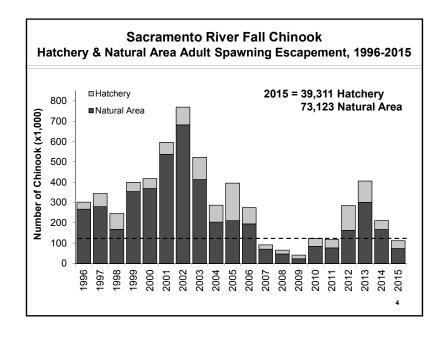
Department of Fish and Wildlife Ocean Salmon Project

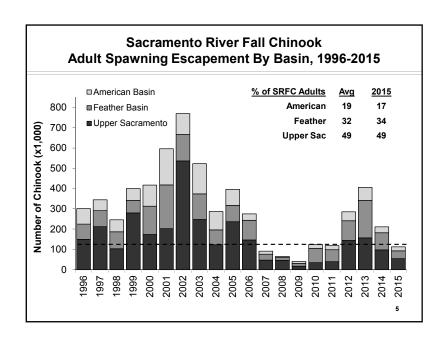
2015 Central Valley Chinook Salmon Spawning Escapement

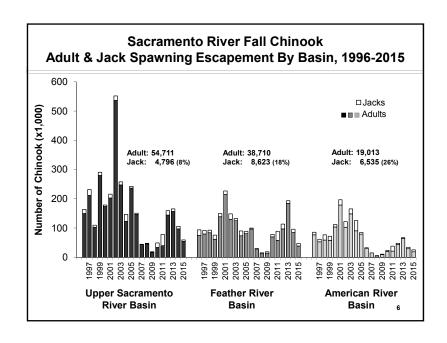
Presented by Vanessa Gusman

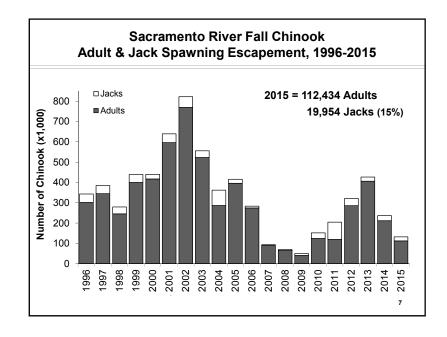


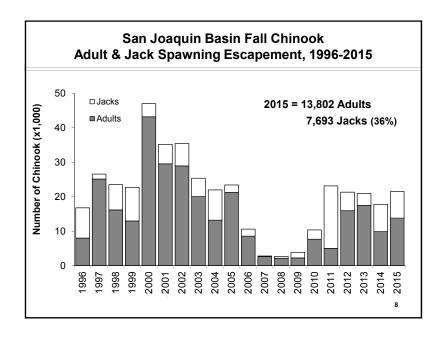


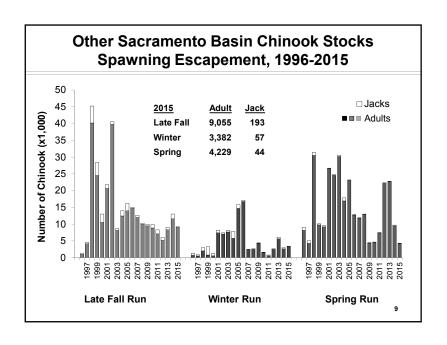














Department of Fish and Wildlife Ocean Salmon Project



Thank You

Vanessa Gusman **Environmental Scientist** Vanessa.Gusman@wildlife.ca.gov (707) 576-2375

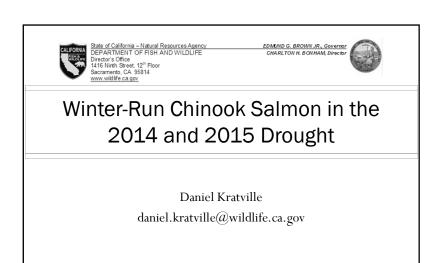
More information available at: www.pcouncil.org/salmon

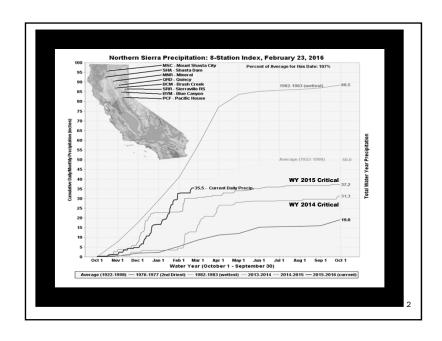
2015 Sacramento River Fall Chinook **Hatchery and Natural Area Escapement**

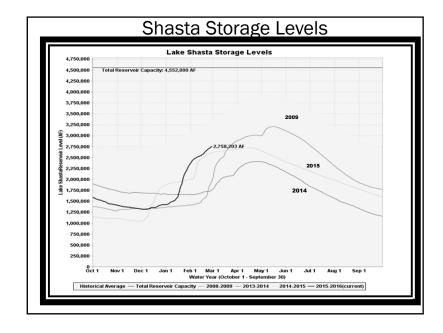
| | | Jacks | Adults | Total | % Jack | % Nat | % SRFC Total |
|--|----------|--------------|---------------|---------------|------------|-------|-----------------|
| | Hatchery | 1,895 | 13,817 | 15,712 | 12% | | 12% |
| Upper Sacramento River Basin | Natural | <u>2,901</u> | 40,894 | <u>43,795</u> | <u>7%</u> | 74% | <u>33%</u> |
| | | 4,796 | 54,711 | 59,507 | 8% | | 45% |
| | Hatchery | 2,612 | 17,648 | 20,260 | 13% | | 15% |
| Feather River Basin (including Yuba River) | Natural | <u>6,011</u> | 21,062 | 27,073 | 22% | 57% | <u>21%</u> |
| | | 8,623 | 38,710 | 47,333 | 18% | | 36% |
| | Hatchery | 3,916 | 7,846 | 11,762 | 33% | | 9% |
| American River Basin | Natural | <u>2,619</u> | <u>11,167</u> | <u>13,786</u> | <u>19%</u> | 54% | <u>10%</u> |
| | | 6,535 | 19,013 | 25,548 | 26% | | 19% |
| Total 2015 SRFC Es | capement | 19,954 | 112,434 | 132,388 | 15% | 64% | 100% |

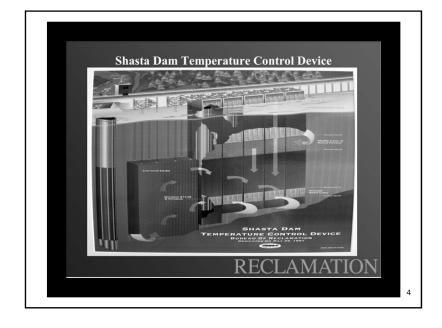
2015 Other Central Valley Chinook Stocks **Hatchery and Natural Area Escapement**

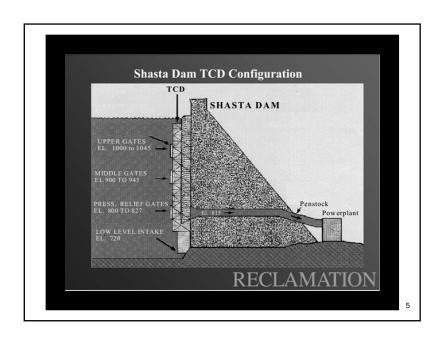
| | | Jacks | Adults | Total | % Jack | % Nat |
|------------------------------------|----------|--------------|--------------|--------------|-------------|-------|
| | Hatchery | 191 | 6,528 | 6,719 | 3% | |
| Central Valley Late Fall Chinook | Natural | <u>2</u> | 2,527 | <u>2,529</u> | <u>0.1%</u> | 27% |
| | | 193 | 9,055 | 9,248 | 2% | |
| Sacramento River Winter Chinook | Natural | <u>57</u> | 3,382 | 3,439 | <u>2%</u> | 100% |
| Transcr Crimicon | | 57 | 3,382 | 3,439 | 2% | |
| | Hatchery | 44 | 3,190 | 3,234 | 1% | |
| Central Valley Spring Chinook | Natural | <u></u> | <u>1,039</u> | <u>1,039</u> | === | 24% |
| | | 44 | 4,229 | 4,273 | | |
| San Joaquin Fall Chinook | Hatchery | 3,719 | 5,761 | 9,480 | 39% | |
| | Natural | <u>3,974</u> | <u>8,041</u> | 12,015 | <u>33%</u> | 56% |
| | | 7,693 | 13,802 | 21,495 | 36% | |
| | | | | | | 12 |

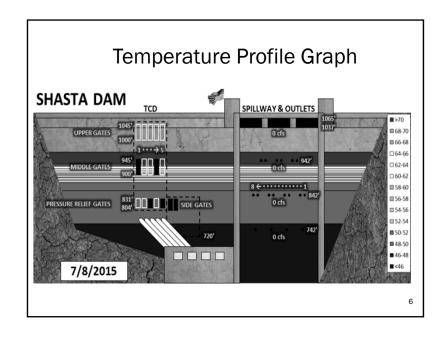




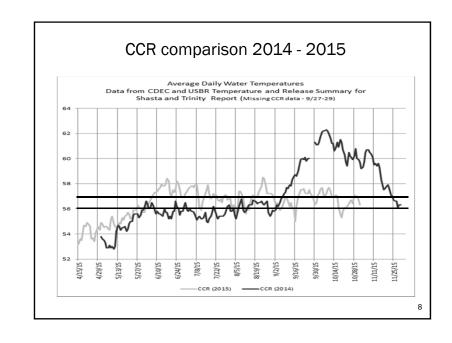


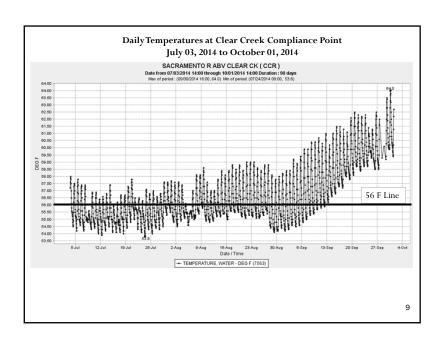


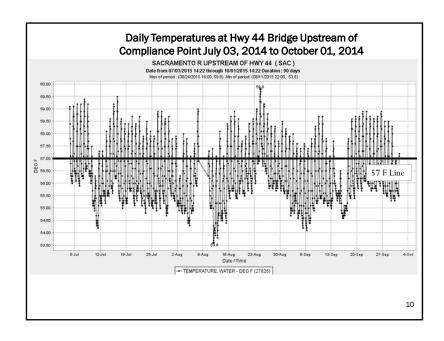


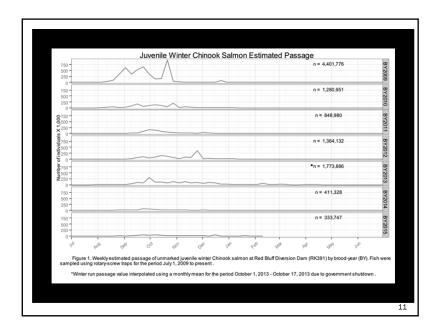


USBR Operations Shasta Reservoir 2014 CCR 56 F CCR 57 F Flow CFS Month Flow CFS Month 9000-10000 7250 June June 7250 July 9000-10000 July August 7000-8000 August 7250 September 4000-5000 September 6500 October 4000 October 5000









Hypothesized Causes of Cohort Collapse

- 2014: We think that the loss of temperature control by the USBR was the major cause of the loss from egg to juvenile life stages.
- 2015: While the USBR never fully lost control of temperature, we believe that the average temperatures were too high, resulting in similar losses as 2014.

Livingston Stone National Fish Hatchery

- In 2014 and in 2015 the fish agencies began preparing various contingency plans. One part of those plans was to increase the LSNFH production to maximum.
- Reinstate Captive Broodstock Program

Hatchery Production

- 2014: Approximately 600,000
- 2015: Approximately 400,000 (lower number this year due to disease issues with the adult broodstock and lower numbers of adults trapped)

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Juvenile Production Estimate (JPE) Entering the Delta

• 2015: 257,116

• 2014: 331,021

• 2013: 1,227,267

In-River Recreational Fishing Closures

- In 2015, the CDFW enacted a recreational fishing closure on the Sacramento River from the Highway 44 Bridge to the Keswick Dam.
- In 2016, a second closure has been approved by the Fish and Game Commission.

Monitoring

- The fish agencies have greatly increased our monitoring efforts over the last three years.
- Increased temperature monitoring in the Sacramento and the tributaries.
- Increased stranding monitoring.
- Increased rescue efforts.

Questions?

Daniel Kratville daniel.kratville@wildlife.ca.gov

CENTRAL VALLEY ANGLER SURVEY: 2015 Recreational Harvest of Chinook Salmon



Erin Ferguson, James Lyons & Rob Titus

California Department of Fish and Wildlife Fisheries Branch Anadromous Resource Assessment Sacramento, California



2015 Central Valley Salmon Season

Open July 16th-December 16th

Exceptions:

Lower American River

July 16th –December 31

Upper Sacramento River

August 1st to December 16th
RBDD to Deschutes Road Bridge

Feather River

July 16th to October 15th Low flow channel closed



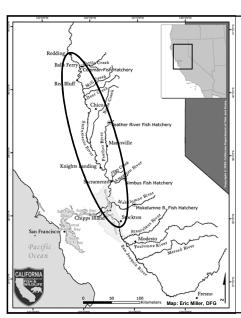
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Central Valley Angler Survey



- Estimate angler effort targeting Chinook salmon
- Estimate catch-per-uniteffort (CPUE)
- Estimate harvest of Chinook salmon
- Collect biological information on the catch
- Recover coded-wire tags

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Sampling Design:

- 25 survey sections:
 - Sacramento River:
 Carquinez Bridge to
 Deschutes Rd
 Bridge
 - Feather River
 - American River
 - Mokelumne River
- Eight randomly selected sampling days per month:
 - four weekdays
 - four weekend days

Estimates of Chinook Salmon Effort, Catch, and Harvest



Data collection via:

- Roving angler counts
- Roving angler interviews
- Access point interviews
- Coded Wire Tag (CWT) Recovery

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Overview of 2015 Central Valley Sport Fishery for Chinook Salmon*

Effort: 733,921 angler hours

Trips: 148,718 angling days

Total catch: 42,486 salmon

Harvest: 24,362 salmon

Release: 18,124 salmon

Pct retention: 58 %

Harvest rate: 3 salmon per 100 angler hours

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Raw Statistics

Contacted over 6,158 fishing parties

1,601 salmon reported kept

1,497 Salmon observed

- or 6.1% of the Estimated Harvest

359 adipose fin-clipped salmon, or 24%

345 heads taken for CWT recovery, or 96%



Coded Wire Tag Recoveries

340 CWTs successfully recovered and read

30.0% Feather River Hatchery fall run

28.0% Coleman National Fish Hatchery fall run

• 13.0% Nimbus Hatchery fall run

13.0% Mokelumne River Hatchery fall run

• 8.0% Feather River spring run

• 5.0% Coleman National Fish Hatchery late-fall run

• 3.0% Merced River Fish Facility fall run

0.0% Winter run

^{*} Based on fishery statistics for the American, Feather, Mokelumne and Sacramento rivers, July – December 2015.

Sacramento River Fall-Run Chinook Salmon (SRFC) Harvest

Defined as any harvest of Chinook salmon in the American, Feather and Sacramento rivers.



Excludes
Harvest in the Mokelumne River.
Harvest in the Late-fall-run Chinook salmon fishery
Known non-SRFC from the recovery of coded wire tags

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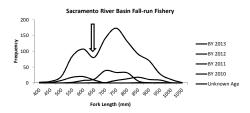
SRFC Inland Harvest

18,619 SRFC in 2015, or 76% of all Chinook salmon harvest in the Central Valley



Fork Length Frequency Analysis

Conducted for each management zone to determine the delineation between two year old (grilse) and older SRFC Chinook salmon.



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Grilse Composition Varied Between Management Zones

40% Lower Sacramento

36% American River

4% Feather River

13% Upper Sacramento



Final SRFC Harvest Estimate

Overall 24% of the harvest were grilse

14,070 adult SRFC **4,549** grilse SRFC



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2015 Sacramento River Late-Fall-Run Chinook Salmon Season

 Restricted to the Upper Sacramento River

Knights Landing to Deschutes Road Bridge

- Open November 1st December 16th
- Daily bag limit of 2 Chinook salmon, 4 possession limit



Sacramento River Late-Fall-Run Chinook Salmon Fishery



Effort: 14,761 angler hoursTrips: 2,350 angler tripsHarvest: 133 salmon*

Harvest rate: 0.9 salmon per 100 angler hours
 Additional Harvest*: 186 salmon caught downstream

SRLFC Summary Statistics

- Expanded estimate: 319 salmon
- 61% Catch was of known hatchery origin
 - 53% SRLFC
- Fork Length Frequency Analysis
 - Grilse cutoff difficult to determine (n = 27 fish)



2015 Mokelumne River Fall-Run **Chinook Salmon Season**

- Camanche Dam to **Highway 12 overcrossing**
 - Survey excluded Lake Lodi and a middle reach.
- Open July 16st -December 16th
- Daily bag limit of 2 Chinook salmon, possession was 4 salmon



Mokelumne River Fishery San Joaquin Fall-Run Chinook Salmon (SJRFC)



29,002 angler hours • Effort: • Trips: 4,723 angler trips 1,281 salmon* Harvest:

 Harvest rate: 4 salmon per 100 angler hours •Additional Harvest*: 3,127 salmon harvested out of basin

Mokelumne River Summary Statistics

- Expanded estimate: 4,408 salmon
- 26% Catch was of known hatchery origin
 - 78% San Joaquin River Fall-run Chinook Salmon
 - 21% SRFC
 - 1% SRLFC
- Fork Length Frequency Analysis
 - Grilse cutoff at 600 mm or 14% grilse

Chinook salmon harvested in the Lower Mokelumne River Management Zone

• Final SJRFC Estimate: 3,791 adult, 617 grilse

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Contact Information

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 James Lyons DFW / Central Valley Angler Survey –Red Bluff (530) 529-3295 James.Lyons@Wildlife.Ca.Gov



SUMMARY OF THE 2015 CENTRAL VALLEY CHINOOK SALMON SPORT FISHERY

Prepared by Erin Ferguson and James Lyons California Department of Fish and Wildlife Fisheries Branch 8175 Alpine Avenue, Suite F Sacramento, CA 95826

contact: Erin.Ferguson@Wildlife.Ca.Gov

Season

Fishing for Chinook salmon in Central Valley rivers opened on 16 July 2015 on the Feather, American, and Mokelumne rivers, and on the Sacramento River from the Carquinez Bridge to the Red Bluff Diversion Dam. An additional Sacramento River reach, from the Red Bluff Diversion Dam to the Deschutes Road Bridge, opened on 1 August 2015. Closing dates varied from 16 December through 31 December 2015. The varied closing dates were chosen to avoid contact with endangered winter-run Chinook salmon. The daily bag limit was 2 Chinook salmon with a 4 Chinook salmon possession limit for each licensed angler.

Methods

The fishery was monitored by California Department of Fish and Wildlife's Central Valley Angler Survey using a three-stage random-stratified sampling design that consisted of two roving counts, roving interviews, and access point interviews. The fishery area was divided into 25 survey sections that were sampled 8 times a month, resulting in a sampling rate of 27% of total available fishing days. Biological data were collected on all harvested Chinook salmon. Coded-wire tags (CWT) from adipose finclipped salmon were used for stock identification and to determine age structure of the catch.

Fishery Results

Estimated angling effort in the Central Valley Chinook salmon fishery totaled 733,921 hours, corresponding to about 148,718 fishing trips. This level of effort was 24% lower than that estimated in 2014 (969,496 hours or 187,887 trips) and 49% of the average observed prior to the fall-run Chinook salmon decline in 2007. Total harvest in the Central Valley river fishery was estimated at 24,362 salmon with an additional 18,124 salmon caught and released. Retention rate of salmon was approximately 58% of the catch. Based on observed catch, 24% of the Chinook salmon harvested were adipose fin clipped and coded wire tagged. Of the 340 CWTs recovered and read, 71% were Sacramento Basin fall-run Chinook salmon, 5% were Coleman National Fish Hatchery late-fall-run Chinook salmon, 16% were San Joaquin Basin fall-run Chinook salmon, and 8.0% were Feather River Hatchery spring-run Chinook salmon. No known-origin winter-run Chinook salmon were observed in angler survey sampling.

Estimated harvest of Chinook salmon in the Sacramento River fall-run season was 22,829*. Fork length (FL) frequency analysis (see figure below) was used to determine the delineation between 2-year-old (grilse) and older (adult) Sacramento Basin fall-run Chinook. The size break between the two age groups ranged from 600 to 650 mm FL in different parts of the basin, resulting in 22% of the overall harvest consisting of grilse. Grilse percentage ranged from 4% to 40% in sub-basins. The total estimated harvest of Sacramento Basin fall-run Chinook consisted of 5,114 grilse and 17,715 adults.

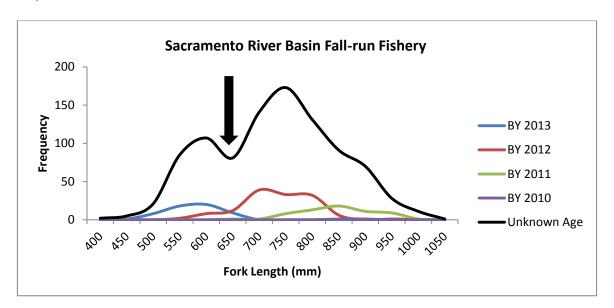


Figure. Fork length frequency distribution of Chinook salmon harvested in the 2015 Sacramento River Basin fall-run Chinook salmon fishery. Brood year was determined from CWT recoveries and was used for age class determination.

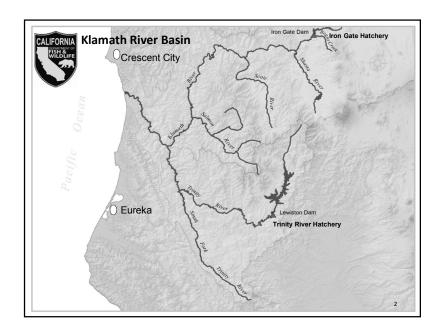
Acknowledgment

The California Department of Fish and Wildlife would like to thank the angling public for their cooperation in working with the Central Valley Angler Survey to provide data on their angling effort and catch, and for surrendering salmon heads for tag recovery.

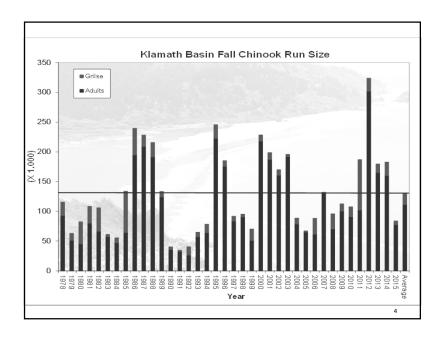
Note: All statistics presented in this summary are preliminary and subject to change as they are finalized.

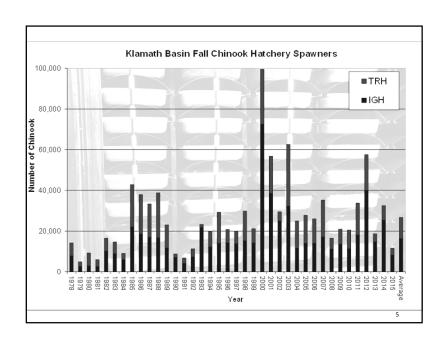
*This number corresponds to total Chinook salmon harvested in the Sacramento River fall Chinook fishery and excludes harvest in the Mokelumne River and the latefall management zone, regardless of CWT origin.

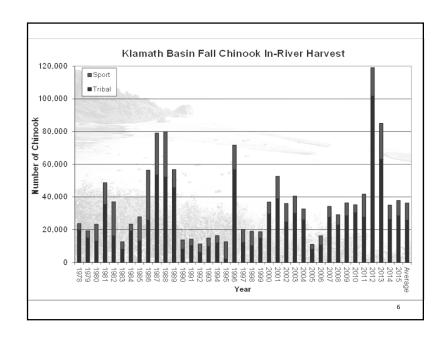


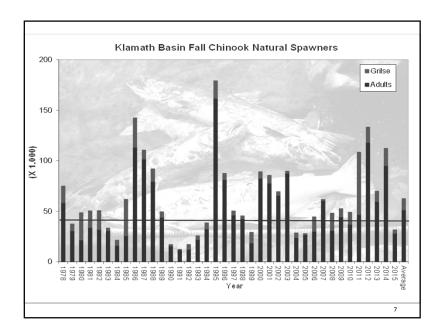












| | | AG | Ε | | Total | Total |
|-------------------------------|-------|-----------------|-----------------|---------------|--------|--------|
| Escapement & Harvest | 2 | 3 | 4 | 5 | Adults | Run |
| Hatchery Spawners | | | | | | |
| Iron Gate Hatchery | 220 | 3,657 | 4,073 | 226 | 7,956 | 8,176 |
| Trinity River Hatchery | 224 | 1,832 | 1,258 | 39 | 3,129 | 3,353 |
| Hatchery Spawner subtotal | 444 | 5,489 | 5,331 | 265 | 11,085 | 11,529 |
| Natural Spawners | | | | | 14% | 14% |
| Klamath River subtotal | 749 | 13,542 | 8,665 | 1,065 | 23,272 | 24,022 |
| Trininty River subtotal | 2,727 | 1,549 | 2,829 | 470 | 4.848 | 7.574 |
| Natural Spawners subtotal | 3,476 | 15,091 | 11,494 | 1,535 | 28,120 | 31,596 |
| | | | | | 36% | 38% |
| Recreational Harvest | | | | | | |
| Klamath River harvest | 1,580 | 4,450 | 2,645 | 640 | 7,735 | 9,315 |
| Trininty River harvest | 24 | 32 | 31 | 0 | 63 | 87 |
| Recreational Harvest subtotal | 1,604 | 4,482 | 2,676 | 640 | 7,798 | 9,402 |
| | | | | | 10% | 11% |
| Tribal Harvest | | | | | | |
| Klamath River harvest | 449 | 9,978 | 11,852 | 4167 | 25,997 | 26,446 |
| Trininty River harvest | 47 | 614 | 1,294 | 112 | 2,020 | 2,067 |
| Tribal Harvest subtotal | 496 | 10,592 | 13,146 | 4,279 | 28,017 | 28,513 |
| | | | | | 36% | 34% |
| Dropoff Mortality | 76 | 1,012 | 1,198 | 396 | 2,606 | 2,682 |
| Disease Monitoring | 1 | 36 | 69 | 17 | 122 | 123 |
| | | | | | 4% | 3% |
| Total River Run | 6.097 | 36,702 | 33,914 | 7,133 | 77,749 | 83,846 |
| Total River Run | 6,097 | 36,702 43.8% | 33,914 40.4% | 7,133 8.5% | 77,749 | 83,84 |
| *KRTAT 2016 | | | | | | · · |

2015 Preliminary results/findings

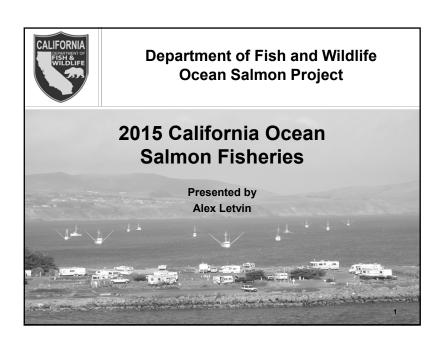
The 2015 Klamath Basin fall Chinook run estimate ranks 12th lowest in the 38 year time series.

The adult Chinook returns to the basin were 65 percent of the projected forecast (119,800 pre vs. 77,700 post).

The adult fall Chinook natural escapement conservation threshold of 40,700 was not met this season.

The number of jacks (6,097) is the 8^{th} lowest for the 38 year time series.

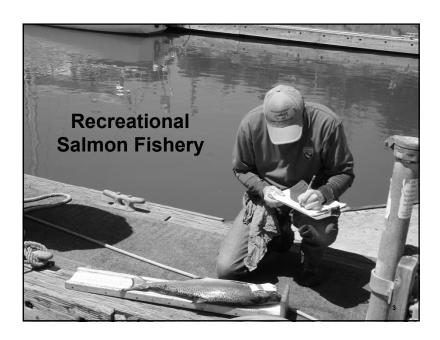




Ocean Salmon Project Objectives

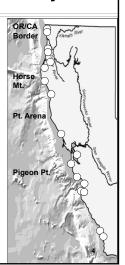
- 1. Estimate salmon harvest & fishing effort for each management area by half month periods for all California ocean salmon fisheries
- 2. Determine contribution rates of specific salmon stocks by age using coded-wire tag recoveries by fishery, time, and management area

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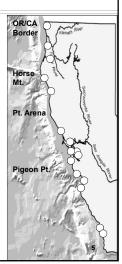
Sample Design - Private Skiff Fishery

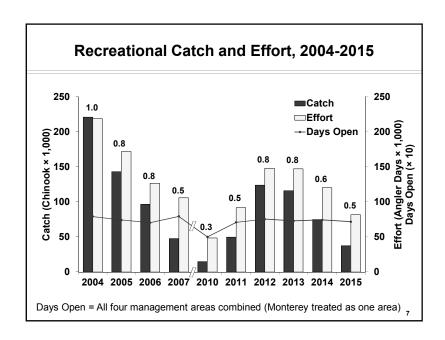
- Random stratified sampling design using weekday and weekend/holiday strata (i.e., skiff days)
- Sampling unit: all skiff trips made at a sample site for an entire day
- CRFS samples ≥ 20% of all skiff days in each management area and period
 - 17 primary salmon skiff sample sites
 - · Average 7 sample days per month at each site
 - 617 skiff days sampled during the 2015 ocean salmon season
- Samplers observe, identify to species, and count all salmon landed
- Each salmon inspected for missing adipose fin
- Adipose fin-clipped salmon are set aside and the heads are collected for coded-wire tag extraction

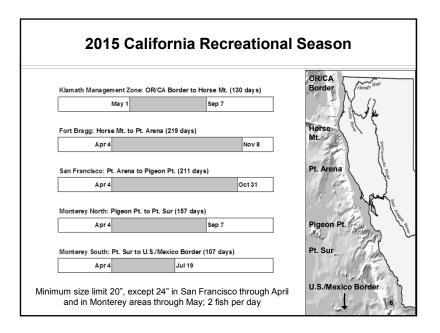


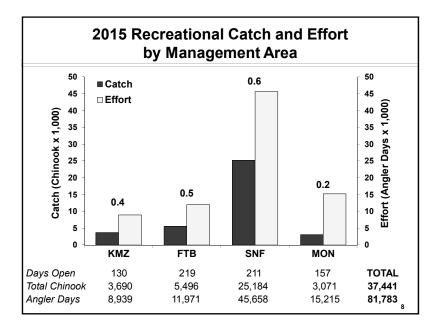
Sample Design - CPFV Fishery

- Commercial Passenger Fishing Vessels (CPFV)
 - · Sampling unit: each CPFV trip
 - Sample ≥ 20% of all salmon-targeting CPFV trips in each management area and period
 - Approximately 100 CPFVs target salmon at 16 primary sample sites
 - Samplers observe, identify to species, and count all salmon landed
 - Each salmon inspected for missing adipose fin
 - Adipose fin-clipped salmon are set aside and the heads are collected for coded-wire tag extraction





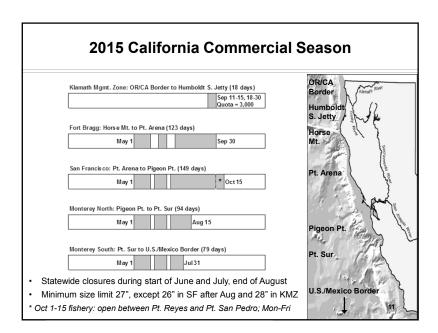


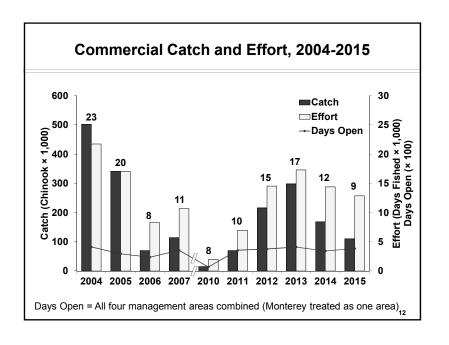


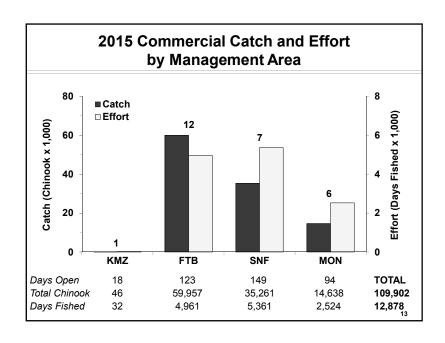


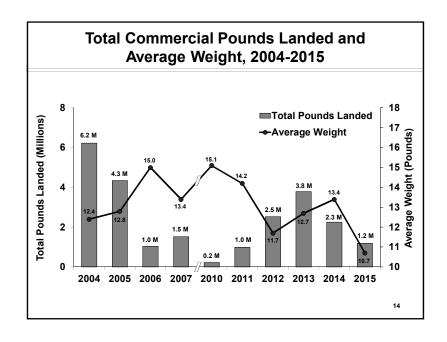
Sample Design - Commercial Fishery

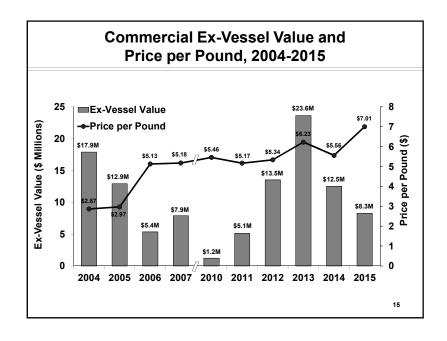
- Sample ≥ 20% of all landings by weight in each management area and period
- · Sampling unit: each commercial landing
- Samplers observe, identify to species, and count all salmon being offloaded
- Each salmon inspected for missing adipose fin and all marked fish are set aside and the heads are taken for coded-wire tag recovery
- Determine average weight and days fished from sampled landings by catch area and sample period

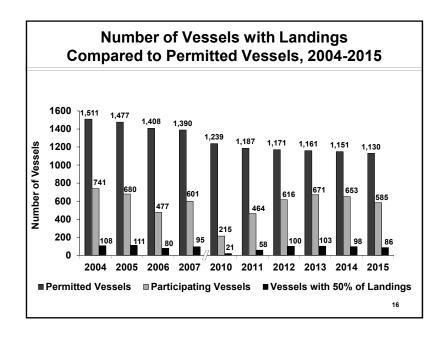












2015 Klamath Management Zone September Quota Fishery

| Season | Chinook Quota | Total Chinook Landed | Average Chinook Landed Per Day |
|----------------------------------|------------------|-------------------------|---|
| Sep 11-15, 18-30 (18 Days) | 3,000 | 46 | 3 |



| Average Boats Participating Per Day | Average Daily Catch Per Boat |
|---|---------------------------------|
| 2 | 1 |

2015 Fall Ocean Fisheries Impacts on Age-4 Klamath River Fall Chinook

| Recreational | Commercial |
|--------------|----------------------------|
| 0 | 0 |
| 0 | 24 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | - |
| 0 | 24 |
| | 0 0 0 0 0 0 |

- 24 age-4 Klamath River fall Chinook were harvested during 2015 fall ocean fisheries (September – November)
- Equates to a 0.1% age-4 harvest rate, which will be deducted from the 16.0% allowable harvest rate when determining the 2016 season structure

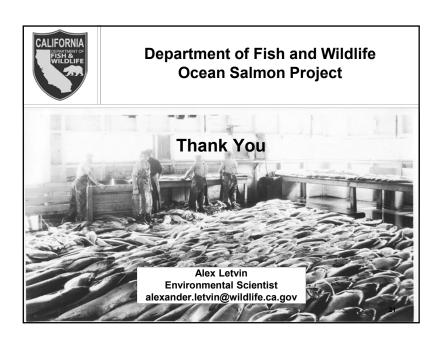
18

Hatchery Contribution to 2015 CA Ocean Fisheries

| Hatchery Chinook Stock | Recreational (69%) N = 3,099 CWTs | Commercial (55%) N = 7,401 CWTs |
|----------------------------------|--------------------------------------|------------------------------------|
| Sacramento River Fall | 76% | 73% |
| San Joaquin River Fall | 18% | 16% |
| Klamath River Fall | 1% | 4% |
| Central Valley Spring | 4% | 3% |
| Pacific Northwest Stocks | 1% | 2% |
| Central Valley Late-Fall | 0.3% | 1% |
| Other Northern California Stocks | 0.3% | 1% |
| Sacramento River Winter | 0.01% | 0.005% 19 |
| | | |

Sacramento River Hatchery Fall Chinook, Contribution by Hatchery – CA Ocean Fisheries

| Sacramento River Hatchery | Recreational | Commercial |
|--|--------------|------------|
| Feather River Hatchery ~7 million fall Chinook released annually | 63% | 76% |
| Coleman National Fish Hatchery ~12 million fall Chinook released annually | 23% | 14% |
| Nimbus Fish Hatchery ~4 million fall Chinook released annually | 14% | 10% |
| | | 20 |



2016 Ocean Salmon Fishery Information

West Coast Regional Office California Department of Fish and Wildlife Salmon Informational Meeting March 2, 2016

> Jeromy Jording Sustainable Fisheries Division West Coast Region

Endangered Species Act (ESA) Listed Stocks

NOAA FISHERIES

U.S. Department of Commerce | National Oceanic and Atmospheric Administration | NOAA Fisheries | Page 3

All Guidance Preliminary; final at March Council Meeting

| Indicator Stock | NOAA Guidance will achieve these escapement levels |
|-------------------------------|--|
| Sacramento River fall Chinook | 122,000 hatchery and natural area adult spawners |
| Klamath River fall Chinook | 30,909 natural area adult spawners |

Coho Salmon

NOAA FISHERIES

- · Prohibit coho-directed fisheries off CA:
- Prohibit coho retention in Chinook-directed fisheries off CA
- Southern Oregon/Northern California Coho
 - ESA Threatened
 - Recovery plan released September 2014 (79 FR 58750) Next Steps: workshops to develop implementation plan
- Central California Coastal Coho
 - · ESA Endangered
 - Final recovery plan released 2012 Next Steps: Species in the Spotlight designation with NOAA Fisheries and the CDFW formed a "Priority Action Coho Team" to assemble State and Federal recovery plan priorities and actions



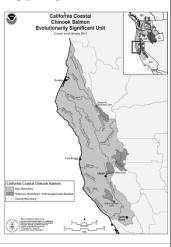




U.S. Department of Commerce | National Oceanic and Atmospheric Administration | NOAA Fisheries | Page 4

California Coastal Chinook Salmon

- ESA-threatened
- Draft multi-species recovery plan available for public comment through January 2016 (80 FR 75066)
- A maximum Klamath River fall Chinook age-4 ocean harvest rate of 16.0%

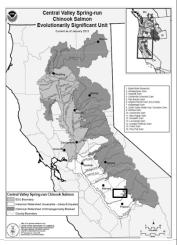




ILS Department of Commerce | National Oceanic and Atmospheric Administration | LNOAA Fisheries | Page 5

Central Valley Spring Chinook Salmon

- ESA-threatened
- Recovery plan adopted July 2014 (79 FR 42504)
- Management constraints for other species continue to provide sufficient protection





S Denartment of Commerce | National Oceanic and Atmospheric Administration | NOAA Fisheries | Page 6

Sacramento River Winter Chinook Salmon

- ESA Endangered
- Recovery plan adopted July 2014 (79 FR 42504)
- Guidance for 2016:
 - Continuation of consultation standards on minimum size limits and seasonal windows
 - Circle hook restrictions while mooching in the recreational fishery between Horse Mountain and Point Conception
 - Impact rate cap for 2016 = 19.9 %*
 - * : Council took a more conservative approach in 2015



U.S. Department of Commerce | National Oceanic and Atmospheric Administration | NOAA Fisheries | Page

Sacramento River Winter Chinook Salmon

- NMFS issued a Notice of Availability and Request for Comment on January 23, 2014 (79 FR 3783)
- NMFS will not be reconsidering the control rule prior to 2016 fisheries, other than precaution due to CA drought and recent ocean conditions
- NMFS review and consideration of winter Chinook ocean fishery management is a work in progress and in 2015 the Council decided to form an ad hoc SRWCWorkgroup to develop and explore possible alternatives



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Thank You

Jeromy.Jording@noaa.gov

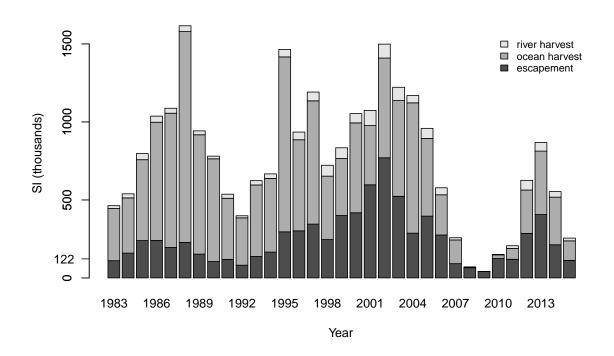
Peter.Dygert@noaa.gov

Special thanks to: Heidi Taylor SFD WCR & Michael O'Farrell SWFSC

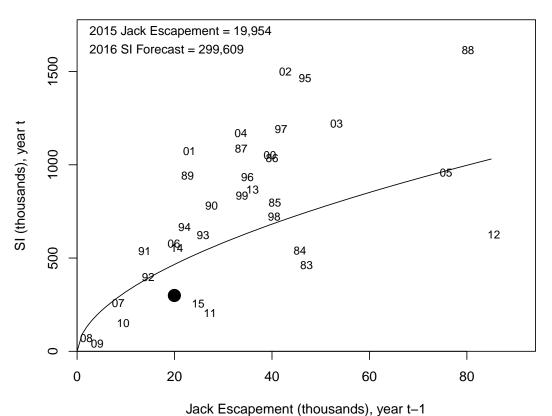


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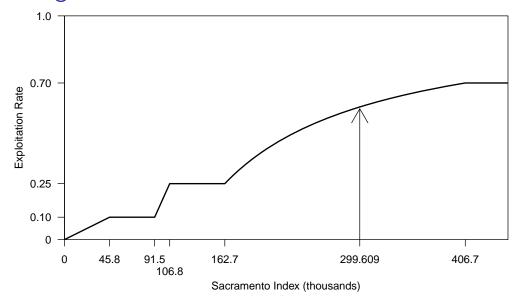
2015 Sacramento Index (SI): 255,287



2016 SI forecast: 299,609

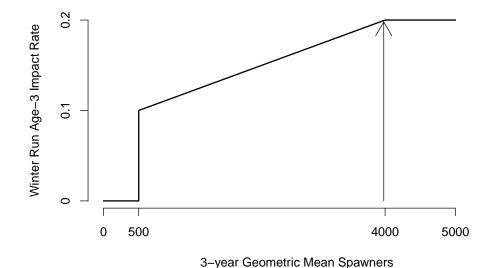


2016 management



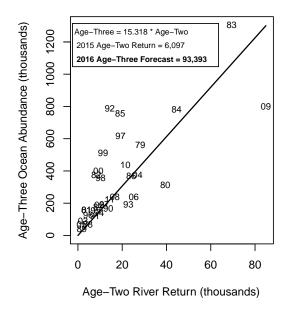
- Abundance forecast reduced substantially from 2015
- Must target an escapement of at least 122,000 (59% exploitation rate)
- ▶ 2015 regs: preliminary escapement prediction of 153,300
- Unlikely to constrain 2016 fisheries

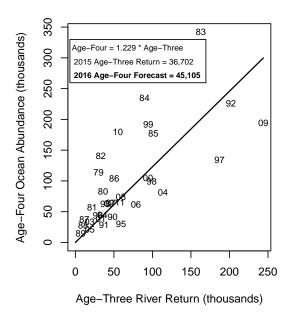
2016 winter Chinook management



- ▶ Geometric mean: 3981
- ► Maximum allowable age-3 impact rate: 19.9%
- ▶ 2015 regs: preliminary prediction of 17.1%
- ▶ Likely to constrain 2016 fisheries south of Point Arena

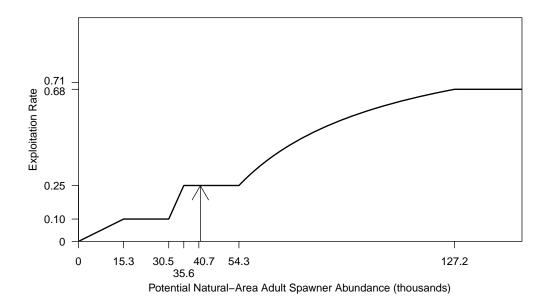
2016 Klamath abundance forecast





age-3: 93,393 age-4: 45,105 age-5: 3,671

2016 management



- ▶ Potential spawner abundance forecast: 41,211
- Must target an escapement of at least 30,909 (25% exploitation rate)

2016 management, contd.

- ▶ 2015 regs:
 - ▶ Tribal allocation: 50% of total harvest
 - ▶ River recreational allocation: 32.4% of non-tribal harvest
 - ▶ Natural-area adult spawners prediction: 14,540
 - ► Exploitation Rate: 65%
- ▶ Will constrain 2016 fisheries south of Cape Falcon, OR

2016 California Coastal Chinook

- ▶ Max allowable KRFC age-4 ocean harvest rate of 16%
- ▶ 2015 fisheries: preliminary prediction of 17.4%
- ▶ Unlikely to constrain 2016 fisheries

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2016 California Ocean Salmon Preseason Process: Calendar of Events

March 9-14, 2016 - Pacific Fishery Management Council Meeting

DoubleTree by Hilton Sacramento, 2001 Point West Way, Sacramento, CA 95815

The Council will determine if any in-season action for fisheries scheduled to open in April is needed. They will also adopt three regulatory alternatives for ocean salmon fisheries in effect on or after May 1. Final alternatives for public review will be decided on March 14.

March 15-21, 2016 - Pacific Fishery Management Council Workshop
The Salmon Technical Team (STT) completes *Preseason Report II: Proposed*Alternatives and Environmental Assessment Part 2 for 2016 Ocean Salmon Fishery
Regulations, available online March 22, 2016 at: www.pcouncil.org

March 15, 2016 - California Fish and Game Commission Meeting - Teleconference

Commission Conference Room 1320, 1416 9th St., Sacramento, CA 95814
Proposed changes to Ocean Salmon Sport Fishing Regulations for 2016 will be addressed at this meeting. The Commission will take final action on Ocean Salmon Sport Fishery Regulations in effect during April 2016. The public may address and/or ask questions of the Commission relating to the implementation of its policies or any other matter within the jurisdiction of the Commission. Agenda and audio available online at: www.fgc.ca.gov.

March 29, 2016 (7 p.m.) - Pacific Fishery Management Council Public Hearing - California

Motel 6 Convention Room, 400 S. Main St., Fort Bragg, CA 95437
The Council will receive comments from the public on the three California ocean salmon fishery management regulatory alternatives adopted by the Council in March. More information is available at: www.pcouncil.org.

April 9-14, 2016 - Pacific Fishery Management Council Meeting
Hilton Vancouver Washington, 301 W. Sixth Street, Vancouver, WA 98660
The Council will tentatively adopt final regulatory measures for analysis by the STT during this meeting. Final adoption of recommendations to the National Marine Fisheries Service (NMFS) is scheduled to be completed by April 13.

April 15-22, 2016 - Pacific Fishery Management Council Workshop
The PFMC and STT complete Preseason Report III: Analysis of Council-Adopted
Management Measures and Environmental Assessment Part 3 for 2016 Ocean
Salmon Fishery Regulations, available online April 22 at: www.pcouncil.org

April 18, 2016 - California Fish and Game Commission Meeting - Teleconference

Commission Conference Room 1320, 1416 9th St., Sacramento, CA 95814
The Commission will take final action on Ocean Salmon Sport Fishery Regulations in effect on or after May 1, 2016. The public may address and/or ask questions of the Commission relating to the implementation of its policies or any other matter within the jurisdiction of the Commission. Agenda and audio available online at: www.fgc.ca.gov.

Who Can I Contact Regarding the Upcoming Salmon Season?

Contact a member of the Pacific Fishery Management Council's **Salmon Advisory Subpanel**:

| Jim Hie | Pacific Marine | Telephone: (707) 695-8661 |
|--------------------|-------------------------------|-------------------------------|
| Conservation | Conservation Council | Email: jnahie@att.net |
| | 1423 Vista Ave. | |
| | Napa, CA 94559 | |
| George Kautsky | Hoopa Valley Tribal Fisheries | Telephone: (530) 625-4267 |
| California Tribes | PO Box 417 | ext. 15 |
| | Hoopa, CA 95546 | Email: hupafish@hoopa-nsn.gov |
| Dave Bitts | Pacific Coast Federation of | Telephone: (707) 498-3512 |
| California Troll | Fishermen's Associations | Email: dbitts@suddenlink.net |
| | 2679 Sunnygrove | |
| | McKinleyville, CA 95519 | |
| Marc Gorelnik | Coastside Fishing Club | Telephone: (415) 409-9529 |
| California Sport | 8042 Terrace Drive | Email: marc@gorelniklaw.com |
| Fisheries | El Cerrito, CA 94530 | |
| John Atkinson | Golden Gate Fisherman's | Telephone: (415) 924-6851 |
| California Charter | Association | Email: newrayann@comcast.net |
| Boat | 42 Seawolf Passage | |
| | Corte Madera, CA 94925 | |

To make comments directly to the **Pacific Fishery Management Council** regarding the upcoming salmon season, please visit the Council's website at www.pcouncil.org/contact, or contact the PFMC staff officer for salmon: Mike Burner (Mike.Burner@noaa.gov).

To make comments directly to the **Fish and Game Commission** regarding the upcoming salmon season, please visit the Commission's website at: www.fgc.ca.gov/contact.

Online Resources:

Review of 2015 Ocean Salmon Fisheries (includes in-river escapement data)

Available online at:

<u>www.pcouncil.org/salmon/stock-assessment-and-fishery-evaluation-safe-documents/</u>

Preseason Report I: Stock Abundance Analysis for 2016 Ocean Salmon Fishery Regulations Available online at: www.pcouncil.org/salmon/stock-assessment-and-fishery-evaluation-safe-documents/preseason-reports/

Klamath Basin Age Composition and Stock Projection Reports Available online in March at: www.pcouncil.org/salmon/background/document-library/



State of California Department of Fish and Wildlife Ocean Salmon Project – Marine Region



www.dfg.ca.gov/marine/oceansalmon.asp

2015 Ocean Salmon Sport Regulations

Humbua Mt

OR/CA Border to Horse Mountain:

- ◆ May 1 September 7
 - minimum size limit: 20 inches total length
 - Klamath Control Zone* (KCZ) closed in August
 - additional closures around mouth of Klamath, Smith and Eel rivers (see CDFW regulation §27.75)

Horse Mountain to Point Arena (Fort Bragg):

- ◆ April 4 November 8
 - minimum size limit: 20 inches total length

Point Arena to Pigeon Point (San Francisco):

- April 4 October 31
 - minimum size limit: 24 inches total length through April 30
 - 20 inches total length thereafter

Pigeon Point to Point Sur (Monterey North):

- ◆ April 4 September 7
 - minimum size limit: 24 inches total length through May 31 20 inches total length thereafter

Point Sur to U.S./Mexico Border (Monterey South):

- ◆ April 4 July 19
 - minimum size limit: 24 inches total length through May 31
 - 20 inches total length thereafter

General Sport Regulations

- Daily bag limit: 2 salmon of any species except coho.
- Possession limit: No more than two daily bag limits may be possessed when on land. On a vessel in ocean waters, no person shall possess or bring ashore more than one daily bag limit.
- · Retention of coho salmon or steelhead trout is prohibited in any ocean fishery.
- Salmon may not be filleted on any boat or prior to being brought ashore.
- Salmon may only be taken by angling as defined in Section 1.05. No sinkers or weights exceeding 4 lbs may be used, except that a fishing line may be attached to a sinker or weight of any size if such sinker or weight is suspended by a separate line & the fishing line is released automatically by a mechanical device from the sinker or weight when any fish is hooked.
- North of Point Conception: No more than two single-point, single-shank barbless hooks shall be used & no more than one rod per angler when fishing for salmon or fishing from a boat with salmon on board.
- Horse Mountain to Point Conception: When fishing with bait and angling by any means other than TROLLING¹, no more than two single-point, single-shank barbless circle hooks² shall be used. The distance between the two hooks must not exceed 5 inches when measured from the top of the eye of the top hook to the inner base of the curve of the lower hook and both hooks must be permanently tied in place (hard tied).

Note: These special gear restrictions apply to each angler fishing for salmon or fishing from any boat or floating device with salmon on board.

- 1. TROLLING is defined as angling from a boat or floating device that is making way by means of a source of power, other than drifting by means of the prevailing water current or weather conditions.
- 2. A CIRCLE HOOK is defined as a hook with a generally circular shape and a point which turns inwards, pointing directly to the shank at a 90-degree angle.

Recovery of coded-wire tag from salmon head: Any person in possession of a recreationally taken salmon with a missing adipose fin (the small, fleshy fin on the back of the fish between the back fin and tail) shall immediately relinquish the head of the salmon, upon request by an authorized agent or employee of the Department, to facilitate the recovery of any coded-wire tag (§1.73).

* Klamath Control Zone: The ocean area at the Klamath River mouth bounded on the north by 41°38'48" N. lat. (approximately 6 nautical miles north of the Klamath River mouth); on the west, by 124°23'00" W. long. (approximately 12 nautical miles off shore); and on the south, by 41°26'48" N. lat. (approximately 6 nautical miles south of the Klamath River mouth).





State of California Department of Fish and Wildlife Ocean Salmon Project – Marine Region



MEXICO

www.dfg.ca.gov/marine/oceansalmon.asp

2015 Commercial Ocean Salmon Regulations

OR/CA Border to Humboldt South Jetty (KMZ):

- September 11-30 or 3,000 Chinook quota
 - five days per week, open Friday through Tuesday
 - minimum size limit: 28 inches total length
 - landing and possession limit of 20 Chinook per day
 - all salmon caught must be landed within the area and within 24 hours of any closure of the fishery
 - Klamath Control Zone (KCZ) closed (12 mile square centered on Klamath River mouth)

Horse Mountain to Point Arena:

- May 1-31; June 15-30; July 12 August 26*; September 1-30
 - minimum size limit: 27 inches total length
 - during September, all fish caught in the area must be landed north of Point Arena
 - when the KMZ quota is open, all fish caught in the area must be landed south of Horse Mountain

Point Arena to Pigeon Point:

- May 1-31; June 7-30; July 8 August 29*
- minimum size limit: 27 inches total length
- September 1-30
 - minimum size limit: 26 inches total length
 - during September, all fish caught in the area must be landed south of Point Arena

Point Reyes to Point San Pedro:

- October 1-2, 5-9, and 12-15 (Monday through Friday)
- minimum size limit: 26 inches total length
- all salmon caught must be landed between Point Arena and Pigeon Point

Pigeon Point to Point Sur:

- May 1-31; June 7-30; July 8-31; August 1-15*
 - minimum size limit: 27 inches total length

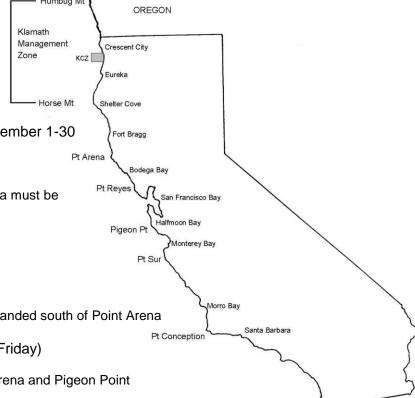
Point Sur to U.S./Mexico Border:

- May 1-31; June 7-30; July 8-31*
 - minimum size limit: 27 inches total length
 - * All salmon must be offloaded and landed by 11:59pm August 30th

General Commercial Regulations

- · All salmon except coho; all commercial salmon must be landed in California
- . Single point, single shank barbless hooks are required
- . No more than 6 lines are allowed per vessel
- Compliance with minimum size or other special restrictions: All salmon on board a vessel must meet the minimum size and other special requirements for the area being fished and the area in which they are landed if that area is open or has been closed less than 48 hours. Salmon may be landed in an area that is closed more than 48 hours only if they meet the minimum size and other special requirements for the area in which they were caught AND it is not otherwise prohibited in the regulations.
- Transit through closed area with salmon on board: It is unlawful for a vessel to have troll gear in the water while transiting any area closed to salmon fishing while possessing salmon.
- Barbless circle hooks¹ required when fishing with bait and fishing by any means other than trolling²
 - A CIRCLE HOOK is defined as a hook with a generally circular shape and a point which turns inwards, pointing directly to the shank at a 90degree angle.
 - 2. TROLLING is defined as angling from a boat or floating device that is making way by means of a source of power, other than drifting by means of the prevailing water current or weather conditions.

NOTE: Any person required to complete a landing receipt shall accurately record the total number of Chinook salmon landed in the "Note Pad" field of the landing receipt (Fish & Game Code § 8043, Title 14, §182). Federal regulations also require the total number of Pacific Halibut be recorded if caught and landed incidentally during commercial salmon fishing. 38



EVALUATION

To improve future *Ocean Salmon Information Meetings* and to better meet your needs, please take a few minutes to complete this evaluation. Your input is useful and appreciated.

| 1. | Indicate the interest group with which | ch you are affiliated. |
|----|---|--|
| | Fishing Dependent Business Ocean Commercial Ocean Sport River Sport | ☐ Tribal☐ Conservation☐ Resource Management☐ Other (please describe) |
| 2. | What information did you find most | useful? |
| | Review of 2015 Central Valley Chinook Spawner Escapement Central Valley Winter Run Chinook Current Status and Overview Review of 2015 Central Valley Chinook River Sport Fisheries Review of 2015 Klamath Basin Chinook Spawner Escapement, Harvest and Age Composition | Review of 2015 Ocean Salmon Sport and Commercial Fisheries NMFS 2016 Ocean Salmon Fishery Guidance Abundance Forecasts and Harvest Model Results Public Comment to California Salmon Management Panel |
| 3. | What information would you like pre | esented in the future? |
| 4. | What meeting organization comme | nts or suggestions do you have? |
| 5. | Additional comments or suggestion | s about the meeting are appreciated. |

Any formal recommendations or comments that you would like forwarded to your representatives for the 2016 salmon management process?

| Name | Affiliation |
|---|---|
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| (Optional) Please provide yo follow up questions. | our contact information so your representatives can ask |
| | |
| E-mail: | Phone: |