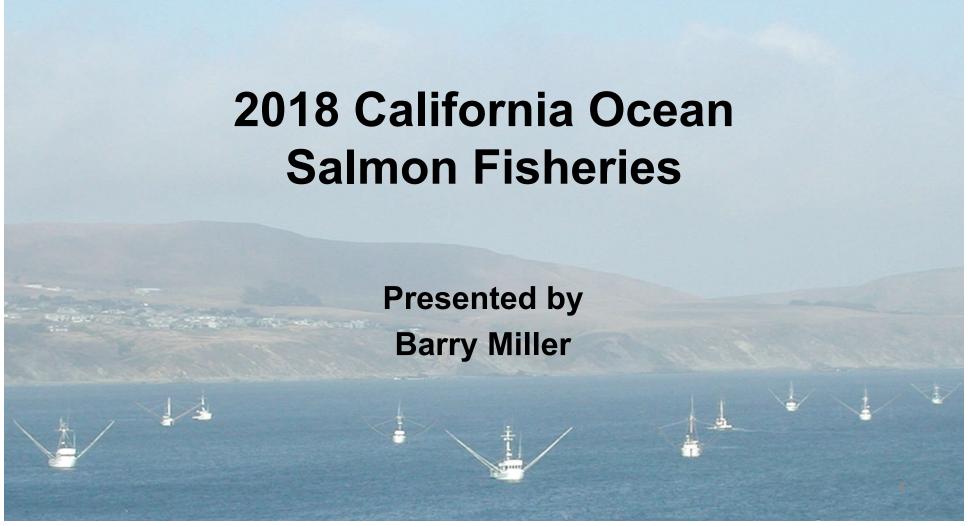
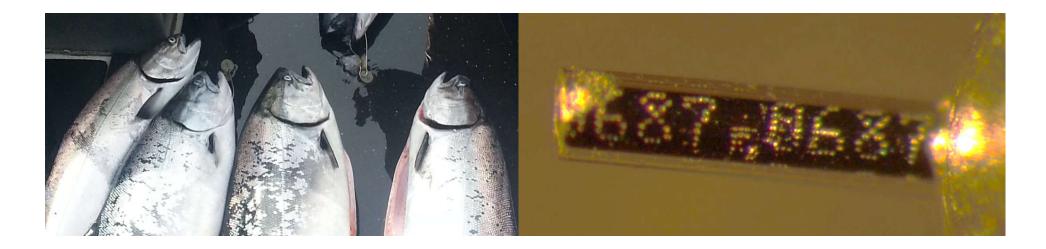


Department of Fish and Wildlife Ocean Salmon Project



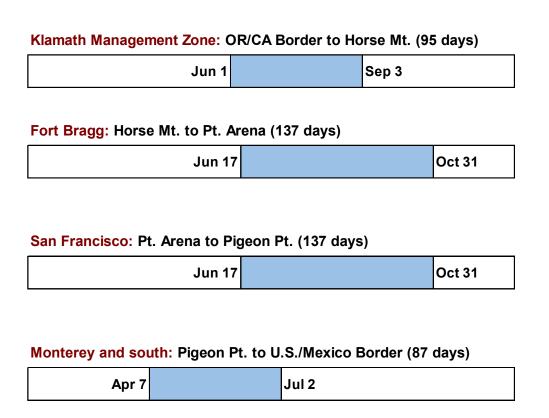
Ocean Salmon Project Objectives

- Estimate ocean salmon catch & fishing effort in CA for each management area by half month periods for both recreational and commercial fisheries
- 2. Determine the contribution rates of specific salmon stocks by fishery, time, and management area using coded-wire tag recoveries

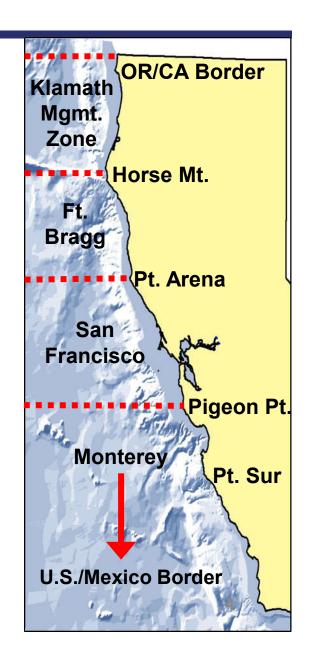




2018 California Recreational Season

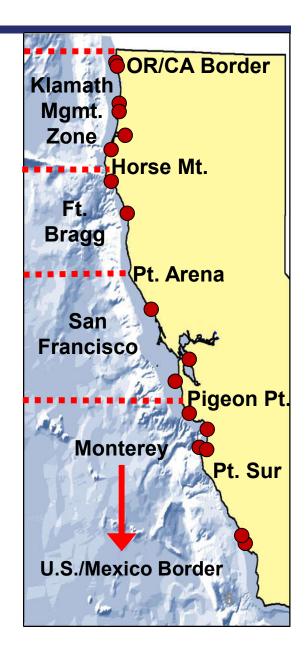


Minimum size: 20" north of Pigeon Pt. Minimum size: 24" south of Pigeon Pt. Bag limit: 2 fish per day



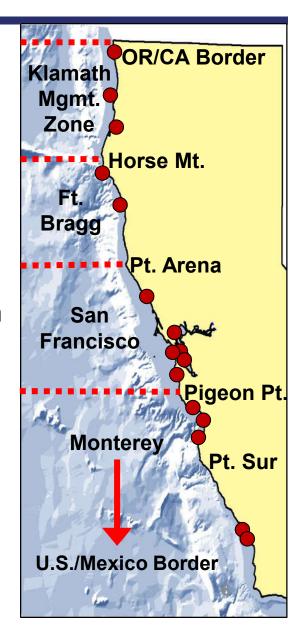
Sample Design – Private Skiff Fishery

- Sampling unit: skiff day (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
 - 409 skiff days were sampled during the 2018 ocean salmon season
 - Random stratified sampling design using weekday and weekend/holiday strata
- 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

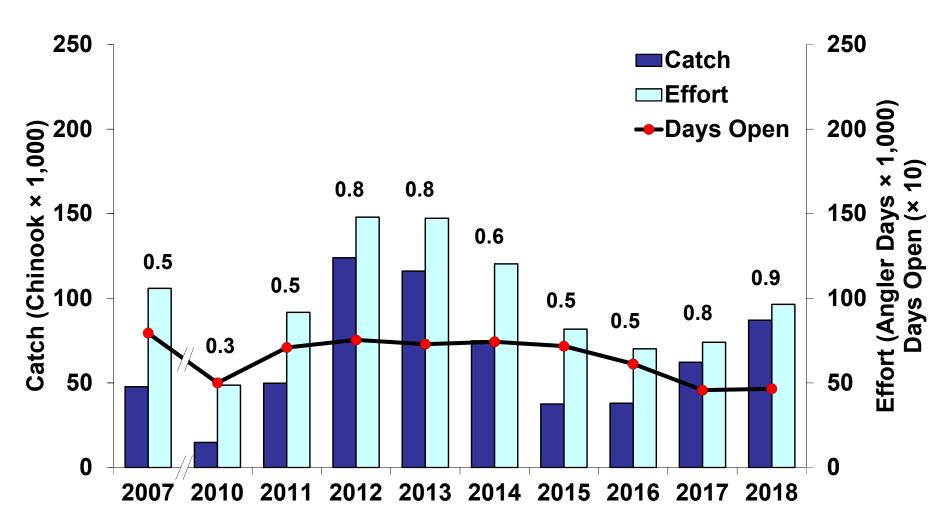


Sample Design – CPFV Fishery

- Sampling unit: each CPFV trip
- Sample ≥ 20% of all salmon-targeting CPFV trips in each management area and period
 - 16 primary salmon CPFV sample sites
 - 125 CPFVs participated in the 2018 ocean salmon fishery
 - 1,340 salmon-targeting CPFV trips were sampled during the 2018 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

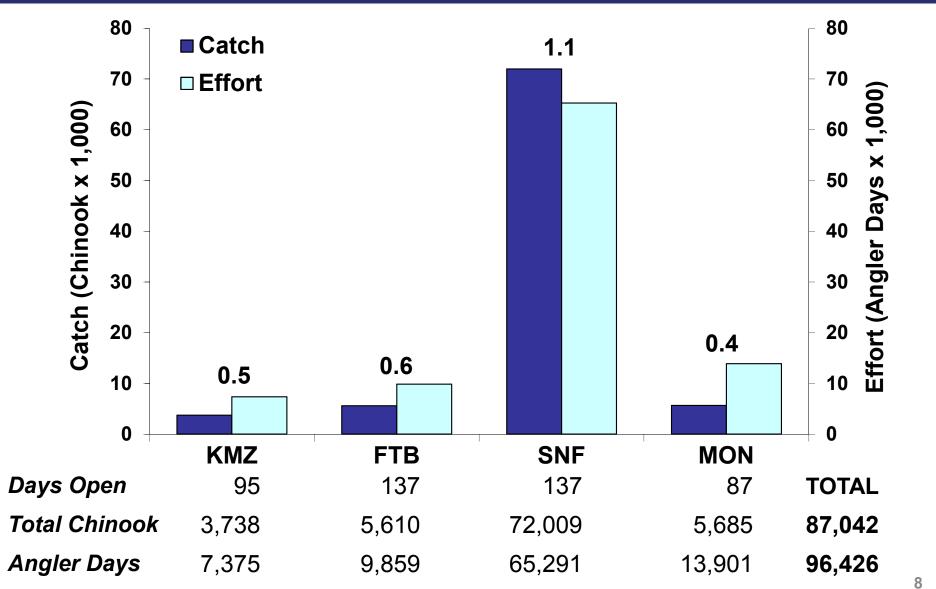


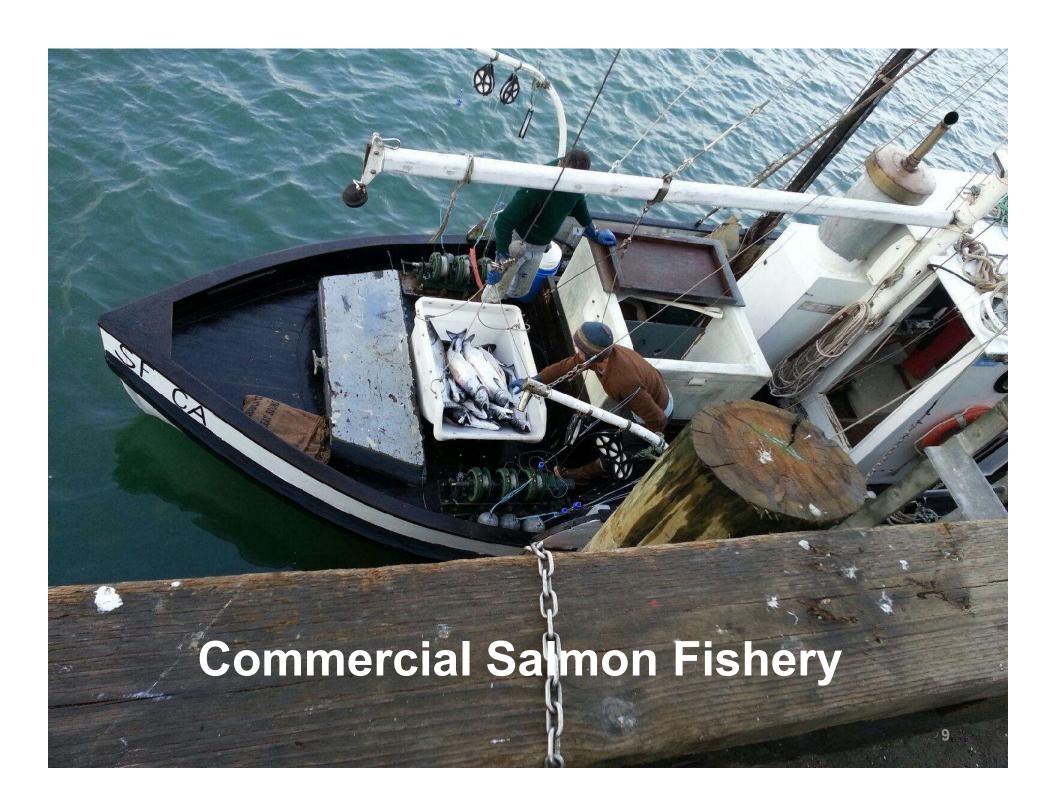
Recreational Catch and Effort, 2007-2018



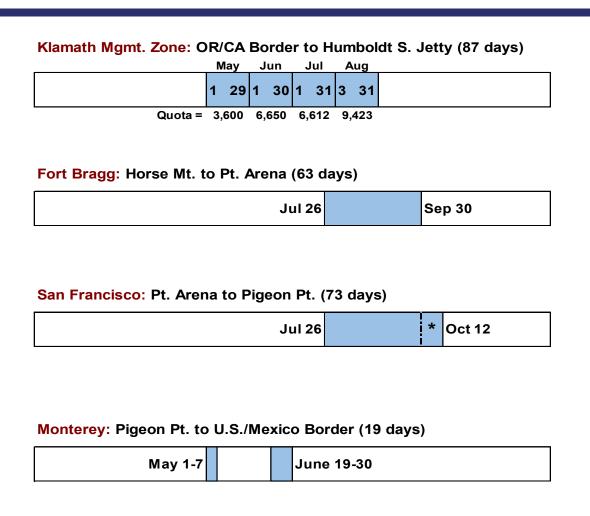
Days Open = All four management areas combined (Monterey treated as one area)

2018 Recreational Catch and Effort by Management Area

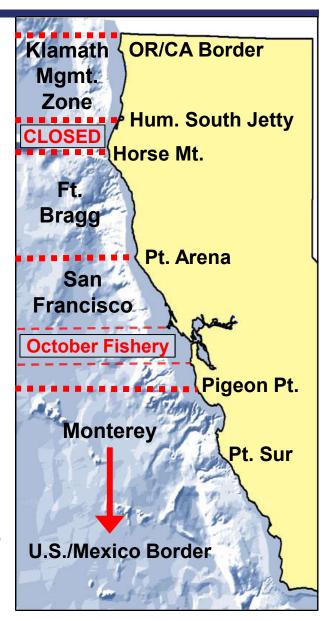




2018 California Commercial Season



^{*} Oct 1-12 fishery: Open Mon-Fri from Pt. Reyes to Pt. San Pedro Minimum size 26"

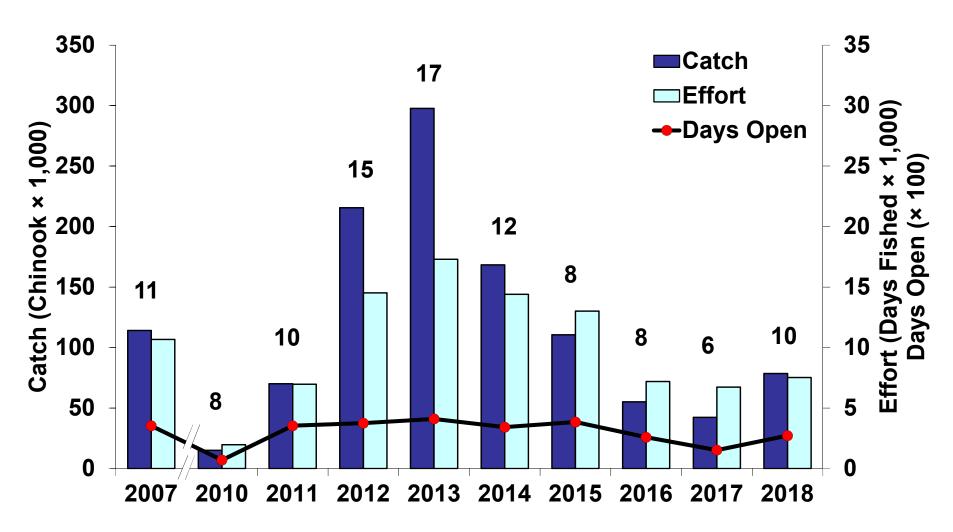


Sample Design – Commercial Fishery

- Sampling unit: each commercial landing
- Sample ≥ 20% of all commercial landings by weight in each management area and period
- Samplers observe, identify to species, and count all salmon being offloaded
- Each salmon inspected for missing adipose fin
- Adipose fin-clipped salmon are set aside and the snouts are collected for coded-wire tag extraction

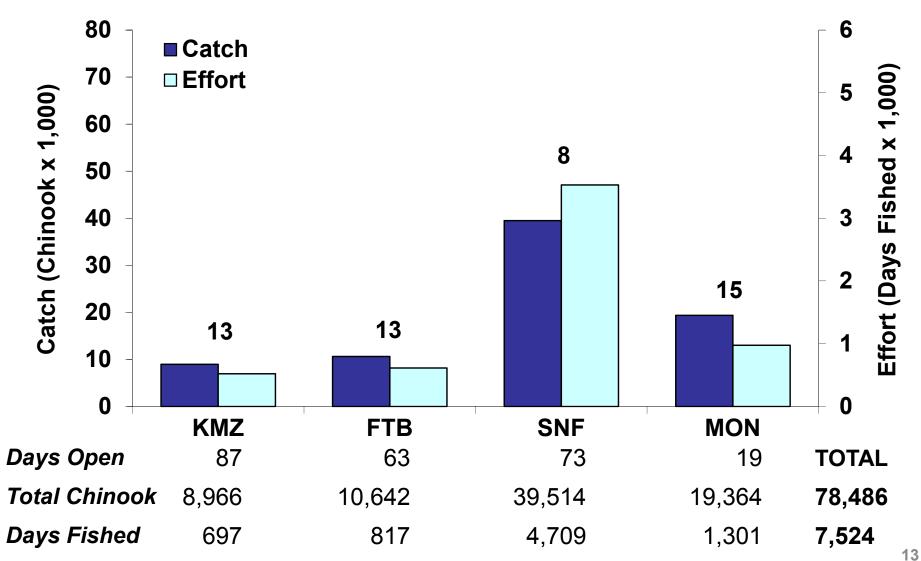


Commercial Catch and Effort, 2007-2018

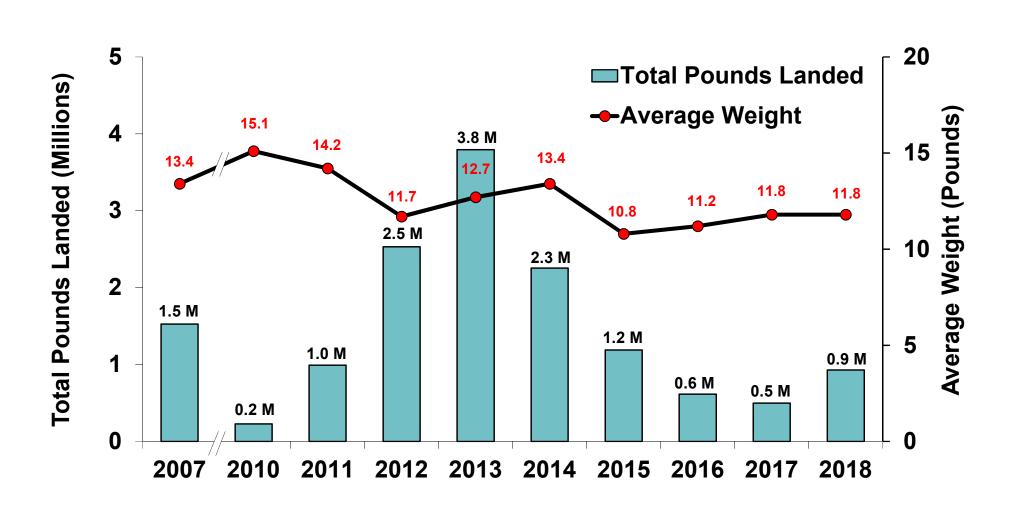


Days Open = All four management areas combined (Monterey treated as one area)

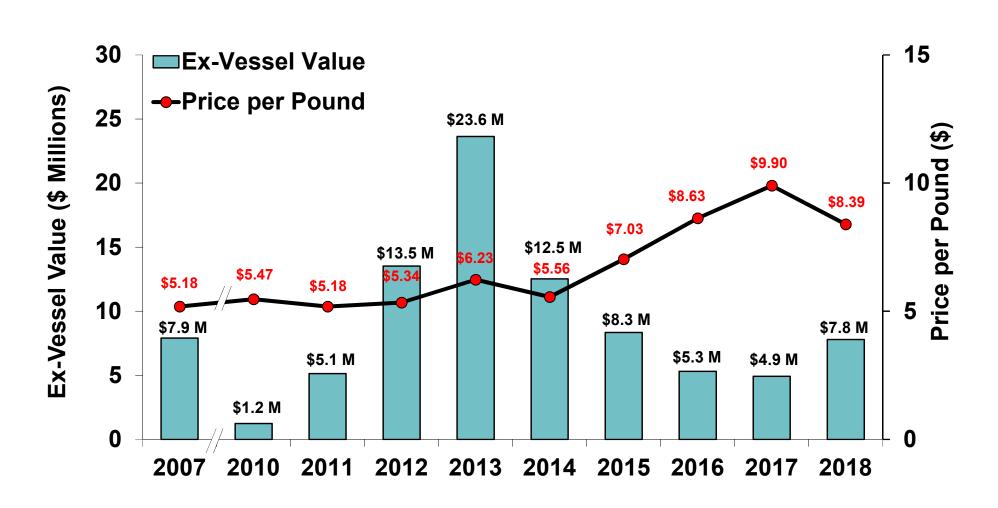
2018 Commercial Catch and Effort by Management Area



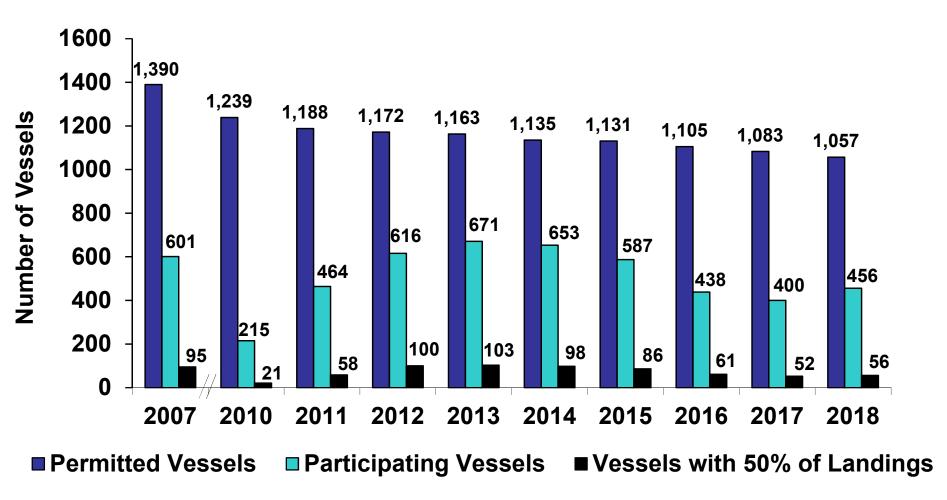
Total Commercial Pounds Landed and Average Weight, 2007-2018



Commercial Ex-Vessel Value and Price per Pound, 2007-2018



Number of Vessels with Landings Compared to Permitted Vessels, 2007-2018



2018 KMZ Quota Fisheries

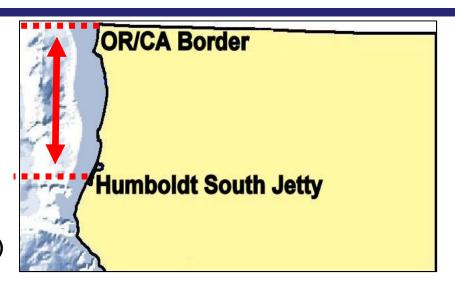
Open 5 days/week (Fri.-Tue.)

Total boats participating: 85

Average weight: 9.5 lbs (state avg. = 11.7)

Ex-vessel value: \$716,400

Average price/lb: \$8.42 (state avg. = \$8.13)



	May 1-29	June 1-30	July 1-31	August 3-31
Quota	3,600	6,650* Preseason = 4,000	6,612* Preseason = 4,000	9,423* Preseason = 4,000
Catch (% of quota)	938 (26%)	2,477 (37%)	1,774 (27%)	3,777 (40%)
Landing Limit	20	20	20, 40**	50
Total Participants	46	58	37	47

^{*}Includes rollover from previous month

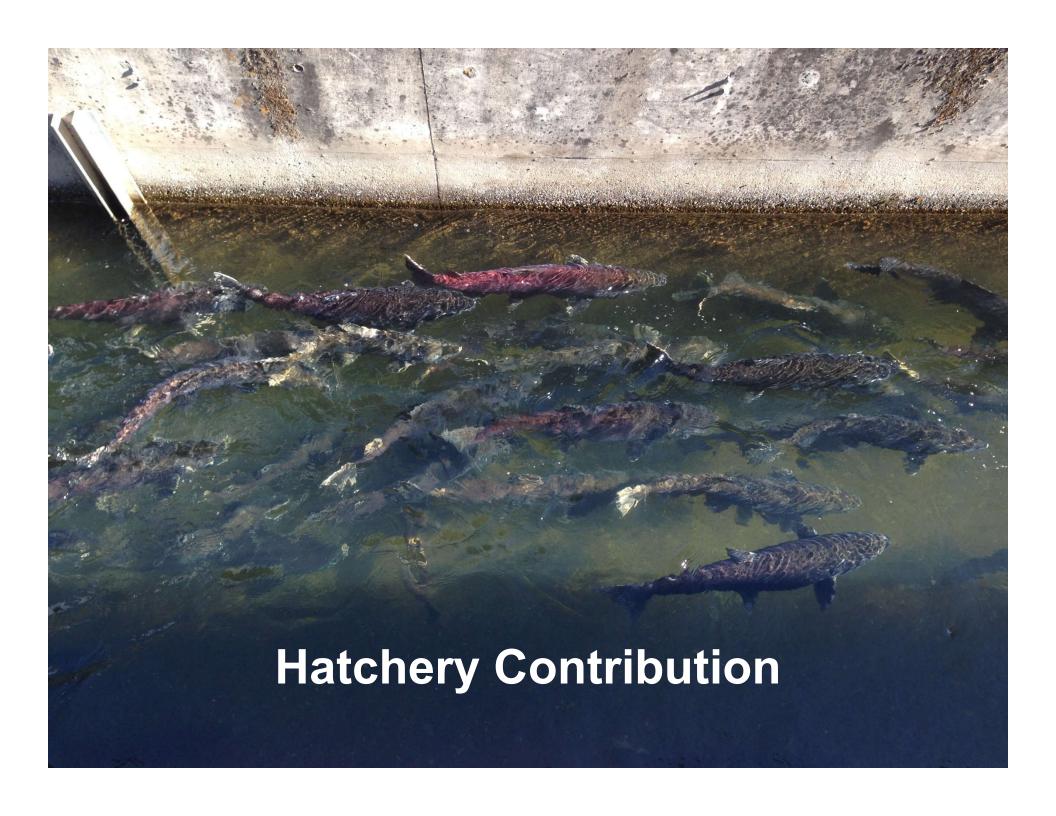
^{**}Effective July 20

2018 Fall Ocean Fisheries Impacts on Age-4 Klamath River Fall Chinook

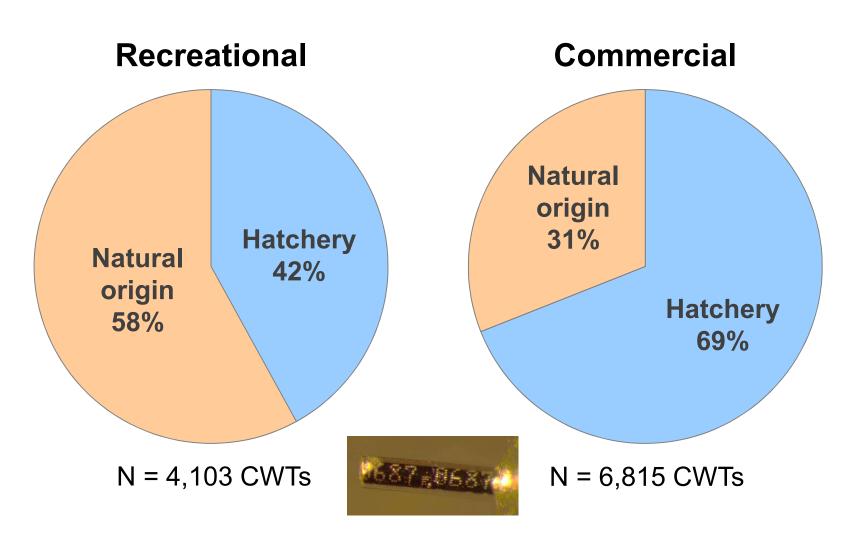
Area	Recreational	Commercial
Northern Oregon	31	85
Coos Bay	0	0
KMZ - Oregon	0	0
KMZ - California	0	-
Fort Bragg	0	44
San Francisco	0	0
Monterey	-	-
Total	31	129

0.2% age-4 ocean harvest rate in fall fisheries, which will be deducted from the 16% allowable ocean harvest rate when determining the 2019 season structure

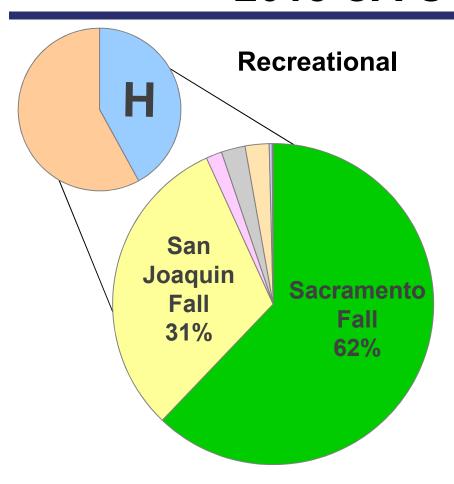




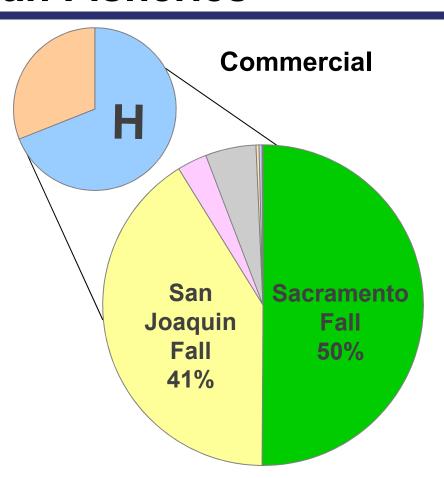
Hatchery Contribution to 2018 CA Ocean Fisheries



Hatchery Contribution to 2018 CA Ocean Fisheries



≈7% Other Stocks:
CV Late-Fall (2.4%), CV Spring (2.4%),
Klamath River Fall (1.6%),
Sacramento Winter (0.3%), Other (<.01%)



≈9% Other Stocks:

CV Late-Fall (5.1%), Klamath River Fall (3%),

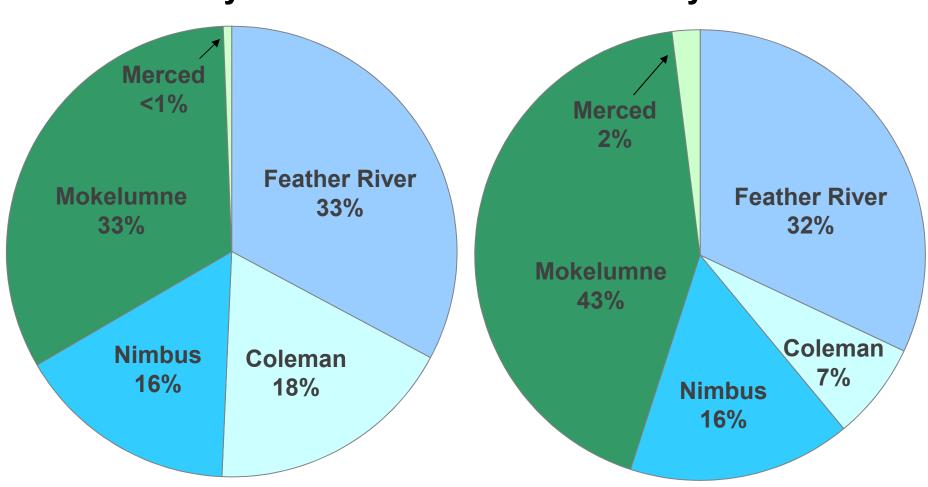
CV Spring (.3%),

Sacramento Winter (0.3%), Other (0.1%)

Hatchery Contribution to 2018 CA Ocean Fisheries



Commercial Central Valley fall Chinook





Department of Fish and Wildlife Ocean Salmon Project

