

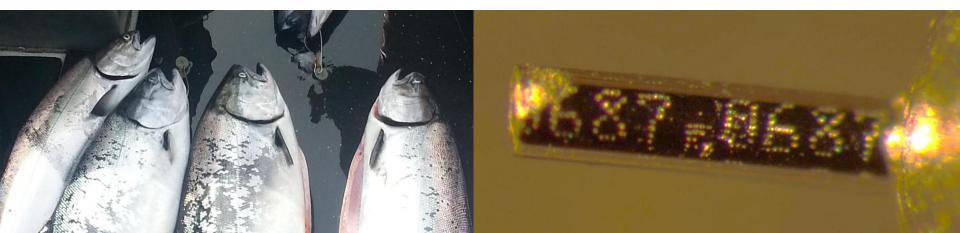
#### Department of Fish and Wildlife Ocean Salmon Project

### 2019 California Ocean Salmon Fisheries

**Presented by Grace Ghrist** 

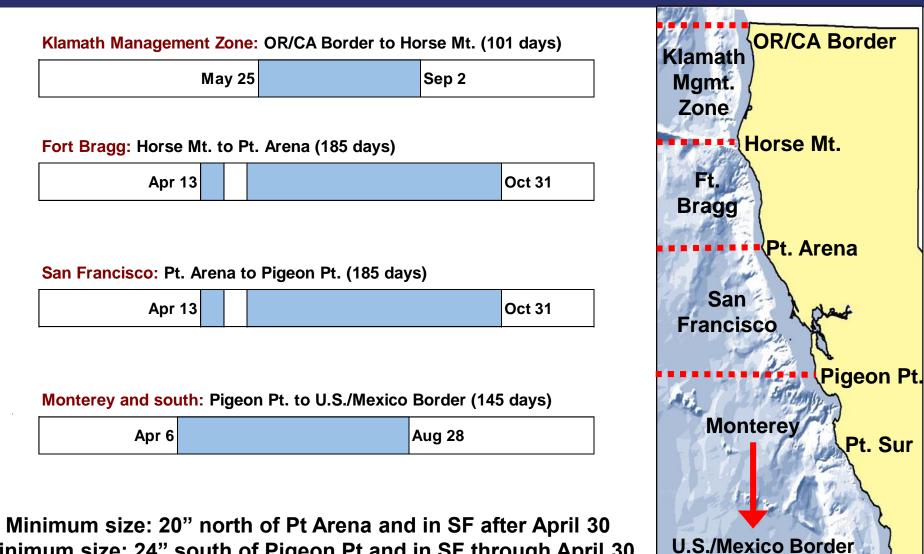
#### **Ocean Salmon Project Objectives**

- 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



### Recreational Salmon Fishery

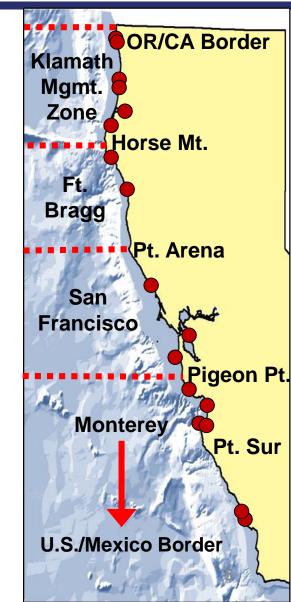
#### **2019 California Recreational Season**



Minimum size: 20" north of Pt Arena and in SF after April 30 Minimum size: 24" south of Pigeon Pt and in SF through April 30 Bag limit: 2 fish per day

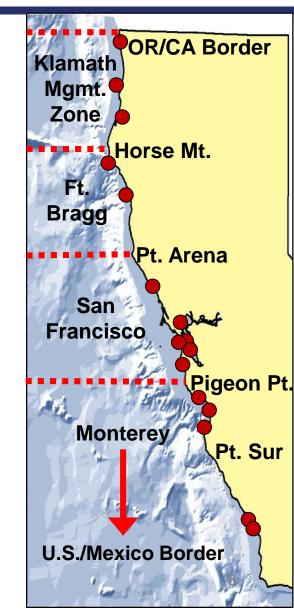
#### Sample Design – Private Skiff Fishery

- 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
  - All the skiff trips made at a sample site for an entire day are sampled
  - 552 skiff days were sampled during the 2019 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

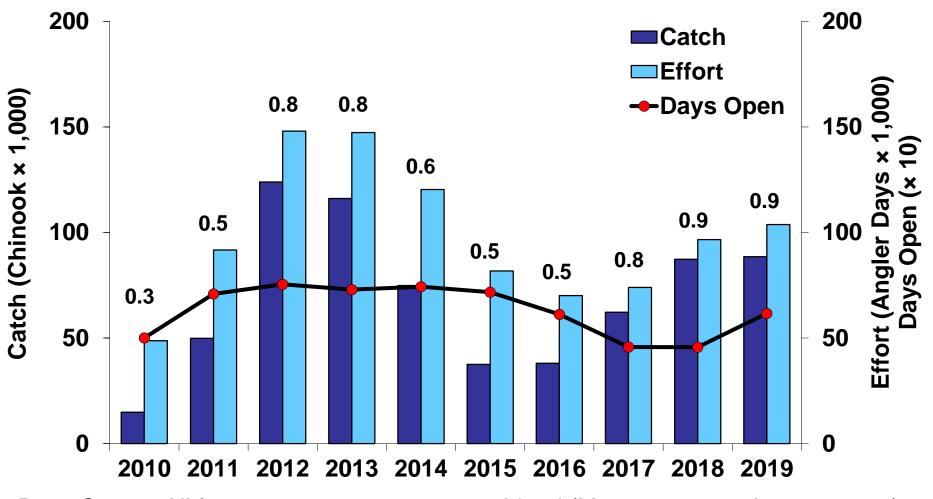


#### Sample Design – CPFV Fishery

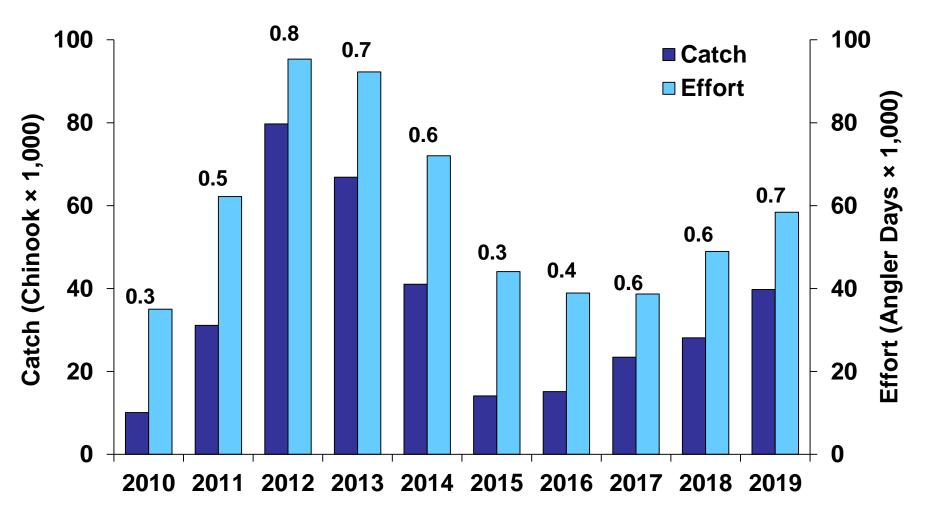
- Sample ≥ 20% of all salmon-targeting CPFV trips in each management area and period
  - 15 primary salmon CPFV sample sites
  - 115 CPFVs participated in the 2019 ocean salmon fishery
  - 1,434 salmon-targeting CPFV trips were sampled during the 2019 ocean salmon season
- Samplers observe, identify 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



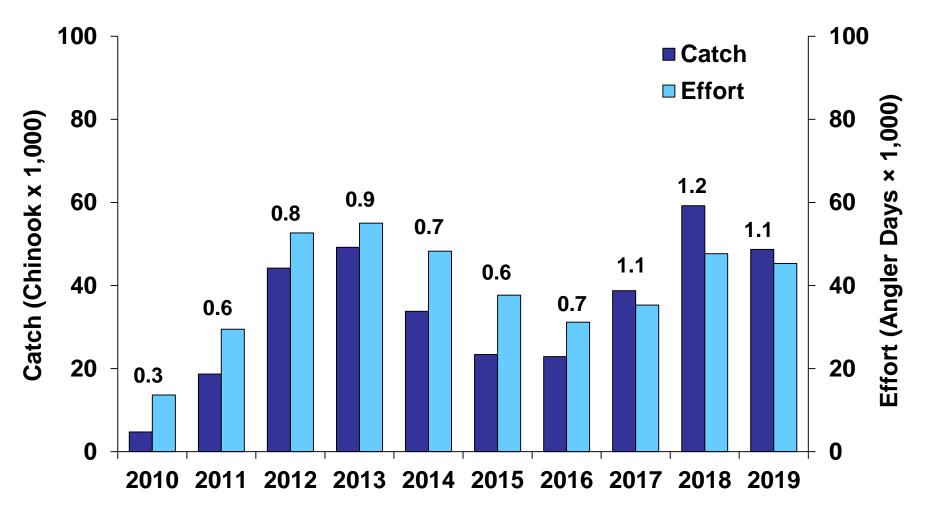
#### **Recreational Catch and Effort, 2010-2019**



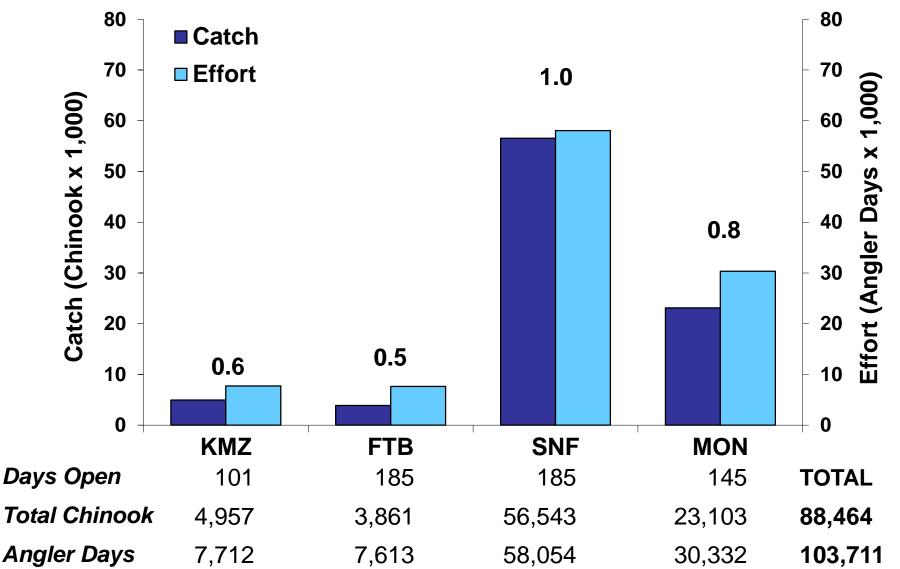
#### Skiff Catch and Effort, 2010-2019



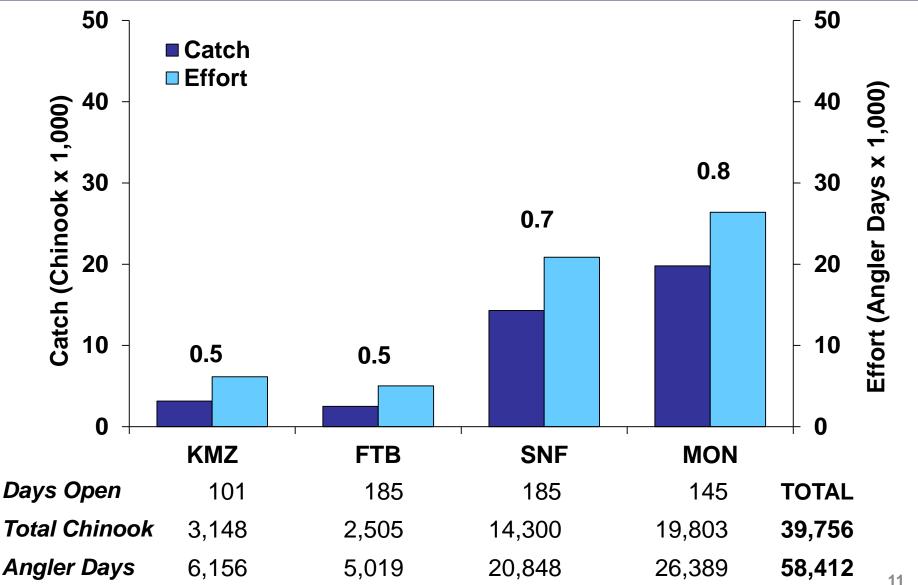
#### CPFV Catch and Effort, 2010-2019



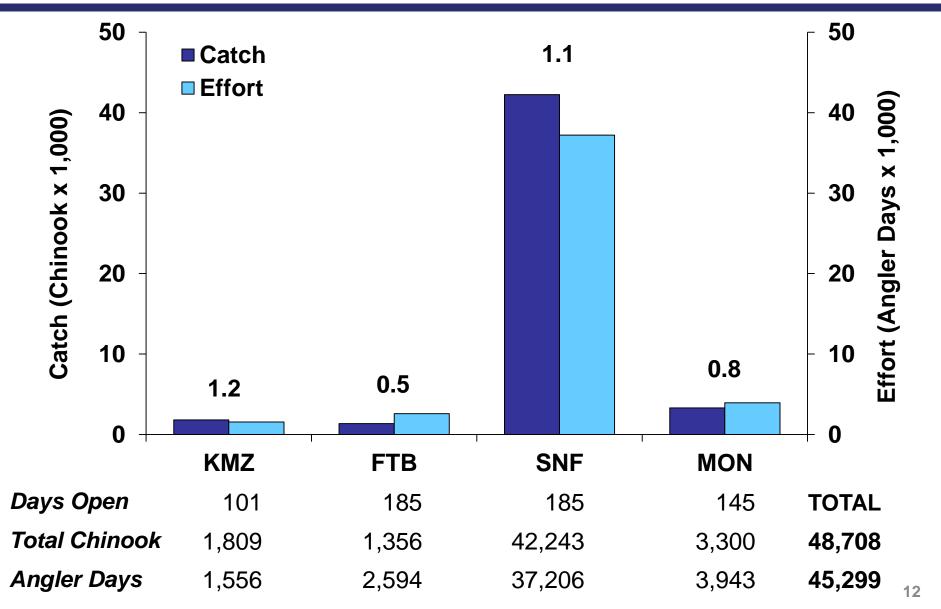
#### 2019 Recreational Catch and Effort by Management Area



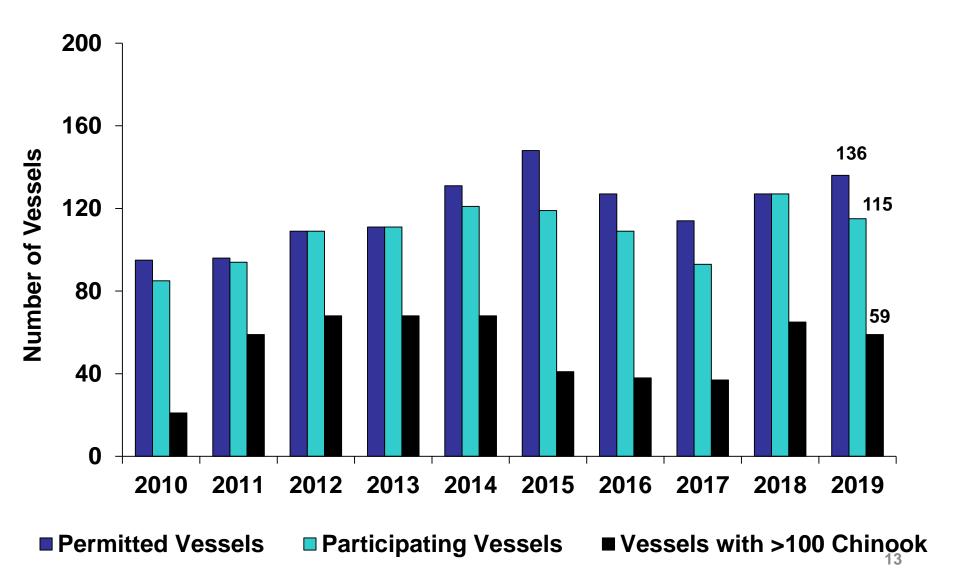
#### 2019 Skiff Catch and Effort by Management Area



#### 2019 CPFV Catch and Effort by Management Area



#### Number of CPFVs Targeting Chinook Compared to Permitted Vessels, 2010-2019

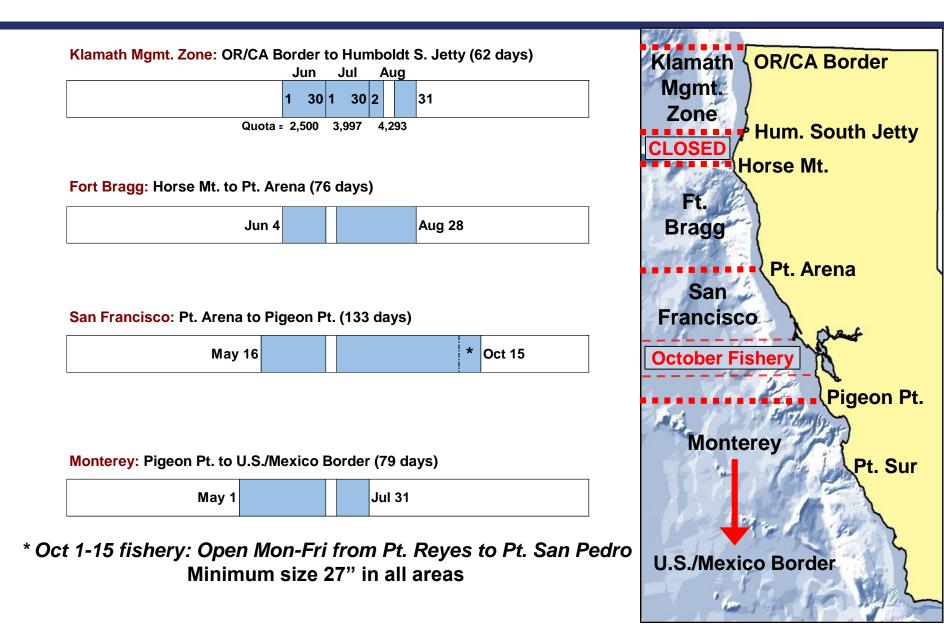


## **Commercial Salmon Fishery**

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#### **2019 California Commercial Season**

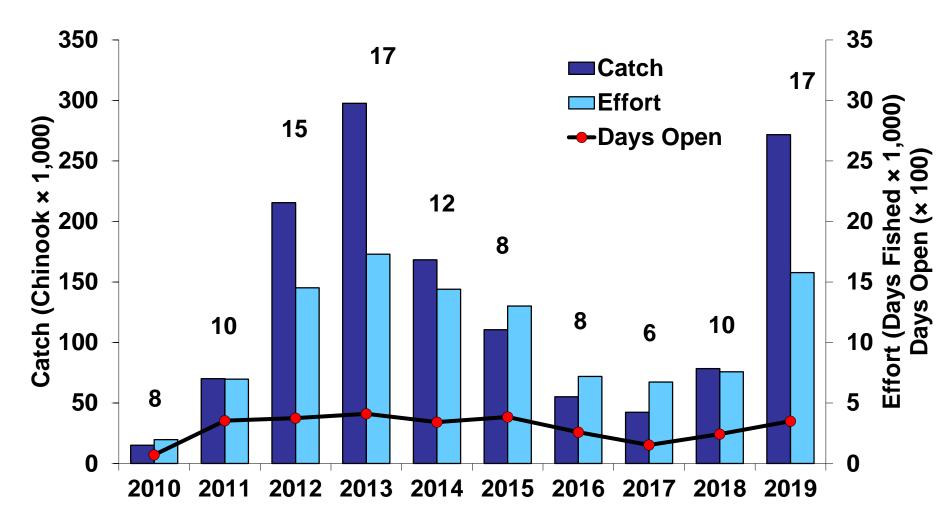


#### **Sample Design – Commercial Fishery**

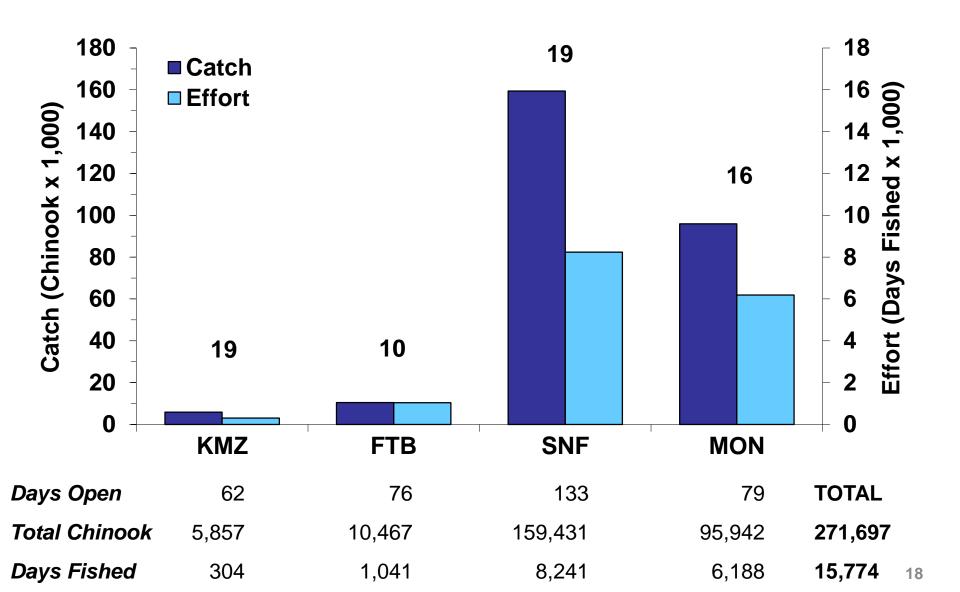
- Sample ≥ 20% of all commercial landings by weight in each management area and period
- Samplers observe, identify to species, and count all salmon being offloaded
- Each salmon inspected for missing adipose fin
- Adipose fin-clipped salmon are set aside and the snouts are collected for coded-wire tag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



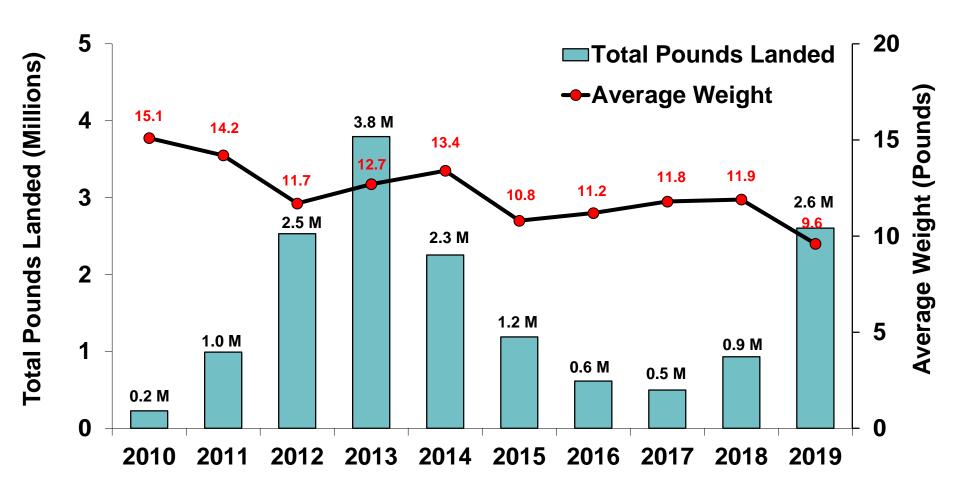
#### **Commercial Catch and Effort, 2010-2019**



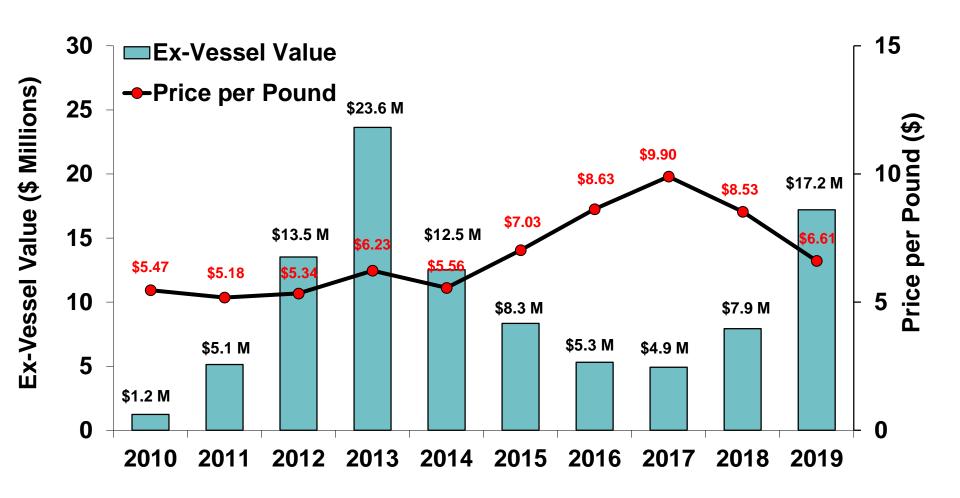
#### 2019 Commercial Catch and Effort by Management Area



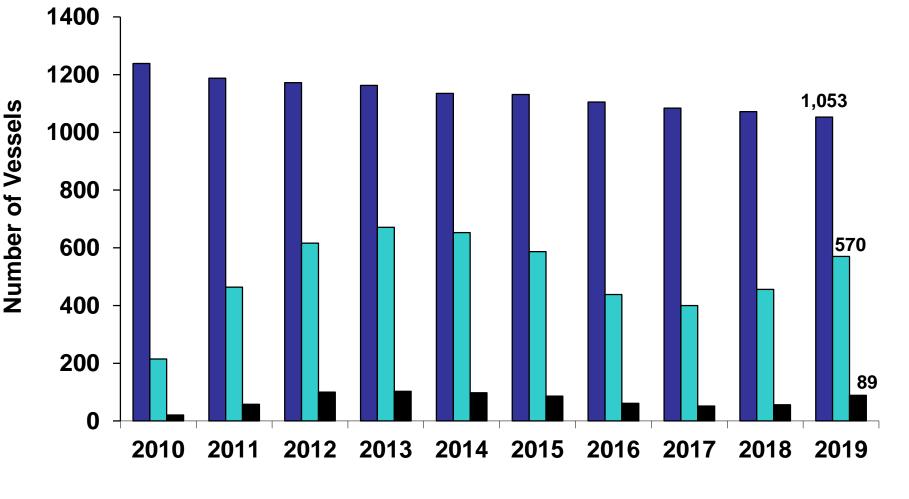
#### Total Commercial Pounds Landed and Average Weight, 2010-2019



#### Commercial Ex-Vessel Value and Price per Pound, 2010-2019



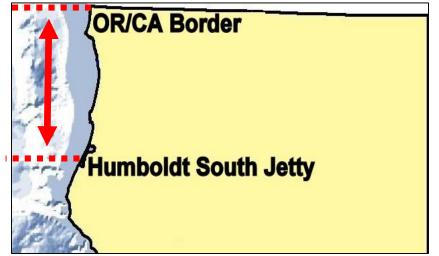
#### Number of Vessels with Landings Compared to Permitted Vessels, 2010-2019



■ Permitted Vessels ■ Participating Vessels ■ Vessels with 50% of Landings

#### **2019 KMZ Quota Fisheries**

- Open 5 days/week (Fri.-Tue.)
- Total boats participating: 61
- Average weight: **9.0 lbs** (state avg. = 9.6)
- Ex-vessel value: \$313,390
- Average price/lb: **\$5.95** (state avg. = \$6.61)



	Jun 1-30	July 1-30	Aug 2-5, 12-31
Quota	2,500	<b>3,997*</b> Preseason = 2,500	<b>4,293*</b> Preseason = 2,000
Catch (% of quota)	737 (29%)	1,475 (37%)	3,645 (85%)
Landing Limit	20	20,50**	50**, 15
Total Participants	29	29	42

\*Includes rollover from previous month \*\*Effective July 19- Aug 5

#### 2019 Fall Ocean Fisheries Impacts on Age-4 Klamath River Fall Chinook

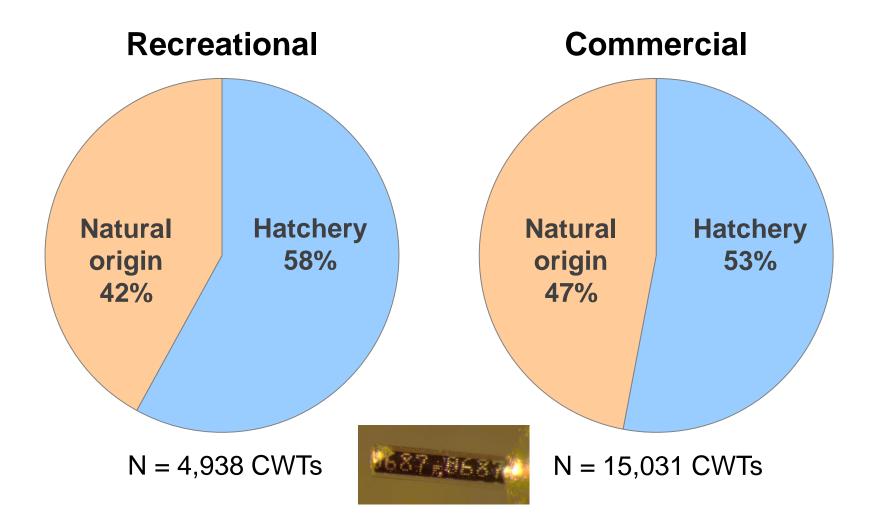
Area	Recreational	Commercial
Northern Oregon	0	26
Coos Bay	0	0
KMZ - Oregon	0	0
KMZ - California	0	0
Fort Bragg	0	0
San Francisco	0	0
Monterey	0	0
Total	0	26

0.07% age-4 ocean harvest rate in fall fisheries, which will be deducted from the 16% allowable ocean harvest rate when determining the 2020 season structure

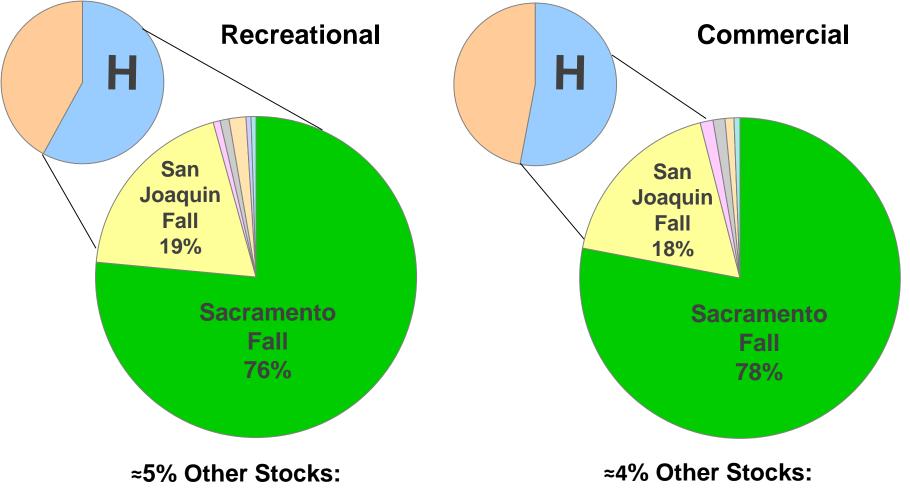


### **Hatchery Contribution**

# Hatchery Contribution to 2019 CA Ocean Fisheries

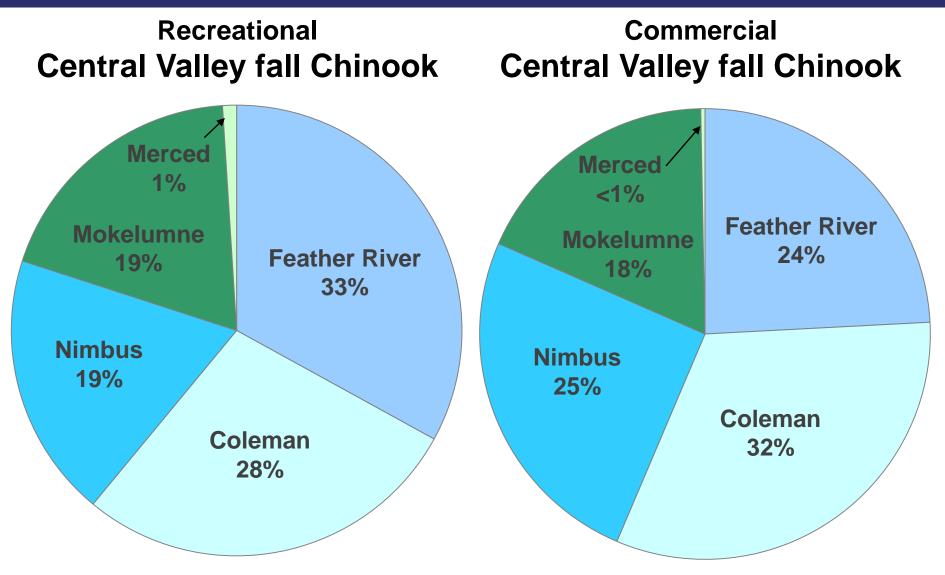


# Hatchery Contribution to 2019 CA Ocean Fisheries



CV Late-Fall (1%), CV Spring (2%), Klamath River Fall (1%), Sacramento Winter (0.5%), Other (<.5%) ≈4% Other Stocks:
CV Late-Fall (1.2%), Klamath River Fall (1.3%), CV Spring (.9%),
Sacramento Winter (0%), Other (0.6%)

# Hatchery Contribution to 2019 CA Ocean Fisheries





#### Department of Fish and Wildlife Ocean Salmon Project

Thank You

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