



Department of Fish and Wildlife Ocean Salmon Project

2013 California Ocean Salmon Fisheries

Presented by
Jennifer Simon

Ocean Salmon Project Objectives

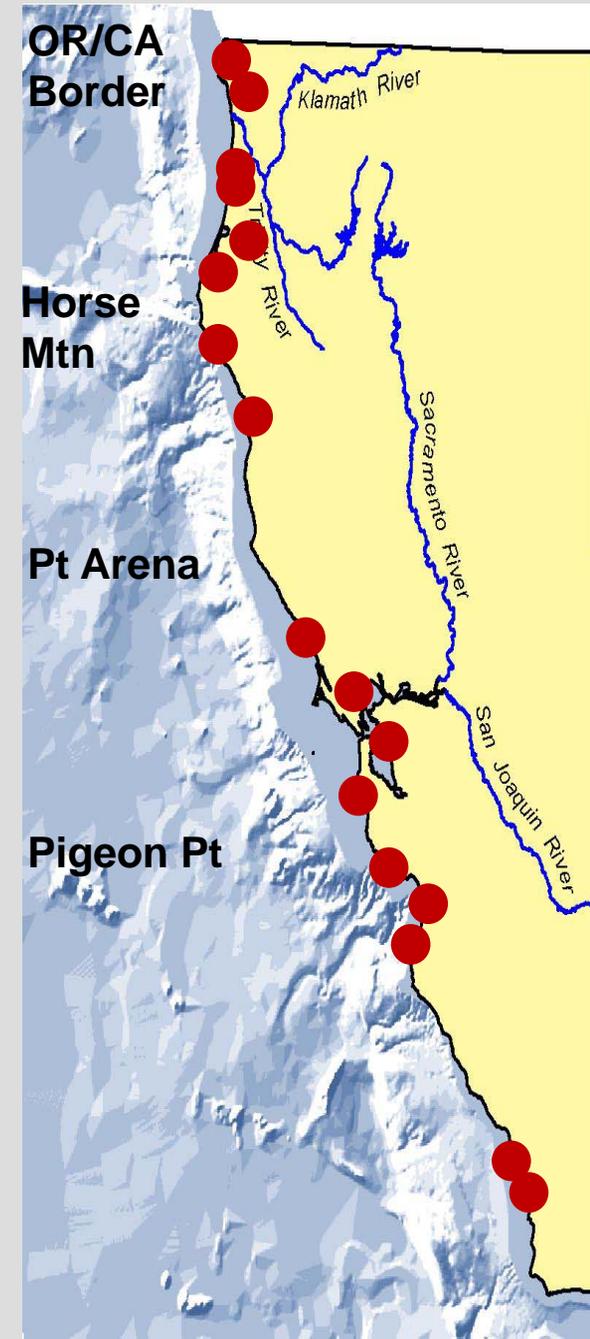
1. Estimate salmon harvest & fishing effort for each management area by half month periods for all California ocean salmon fisheries.
2. Determine contribution rates of specific salmon stocks by age using coded-wire tag recoveries by fishery, time, and management area.

Recreational Salmon Fishery



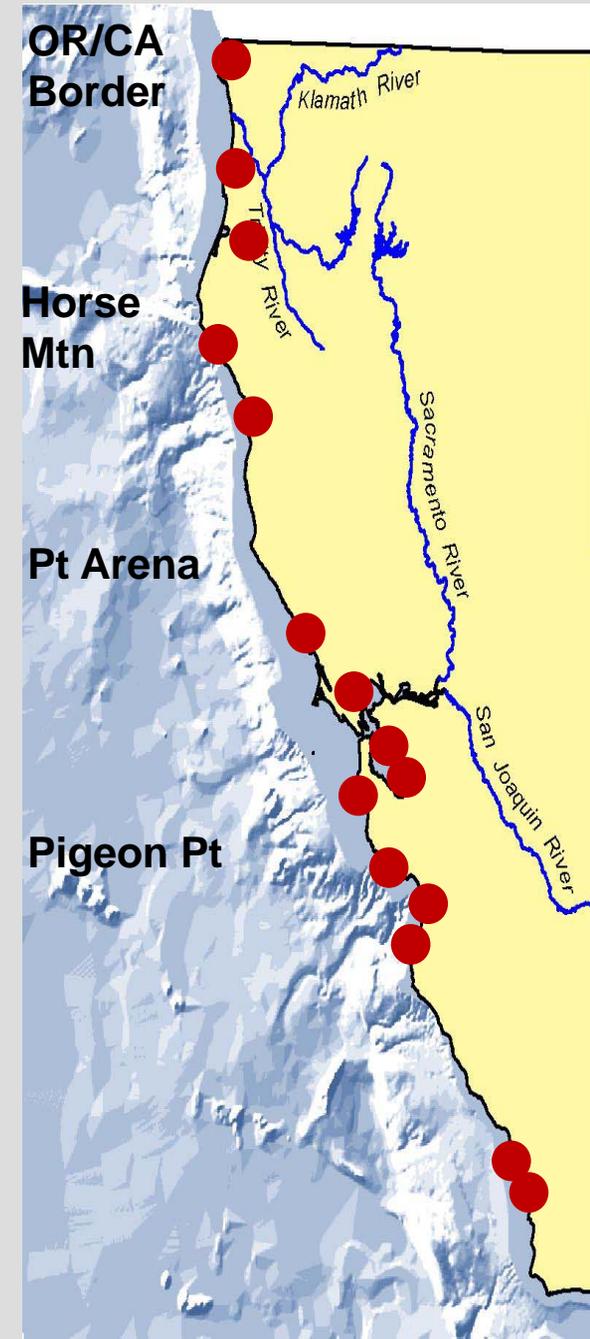
Sample Design – Private Skiff Fishery

- Random stratified sampling design using weekday and weekend/holiday strata (i.e. skiff days)
- 20-25 primary salmon skiff sample sites
- CRFS samples at least 20% of all skiff days in each management area
 - Average 7 sample days per month at each site
 - 684 skiff days sampled in 2013
- Sampling unit: all skiff trips made at a sample site for an entire day
- Samplers observe 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)**
 - Sample 20% or more of all salmon-targeting CPFV trips in each management area
 - Over 100 CPFVs target salmon at 16 primary sample sites
 - Sampling unit: each CPFV trip
 - Samplers observe 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



2013 California Recreational Season

Klamath Mgt Zone: OR/CA Border to Horse Mt. (131 days)

	May 1	Sept 8	
--	-------	--------	--

Fort Bragg: Horse Mt. to Pt. Arena (219 days)

	April 6	Nov 10	
--	---------	--------	--

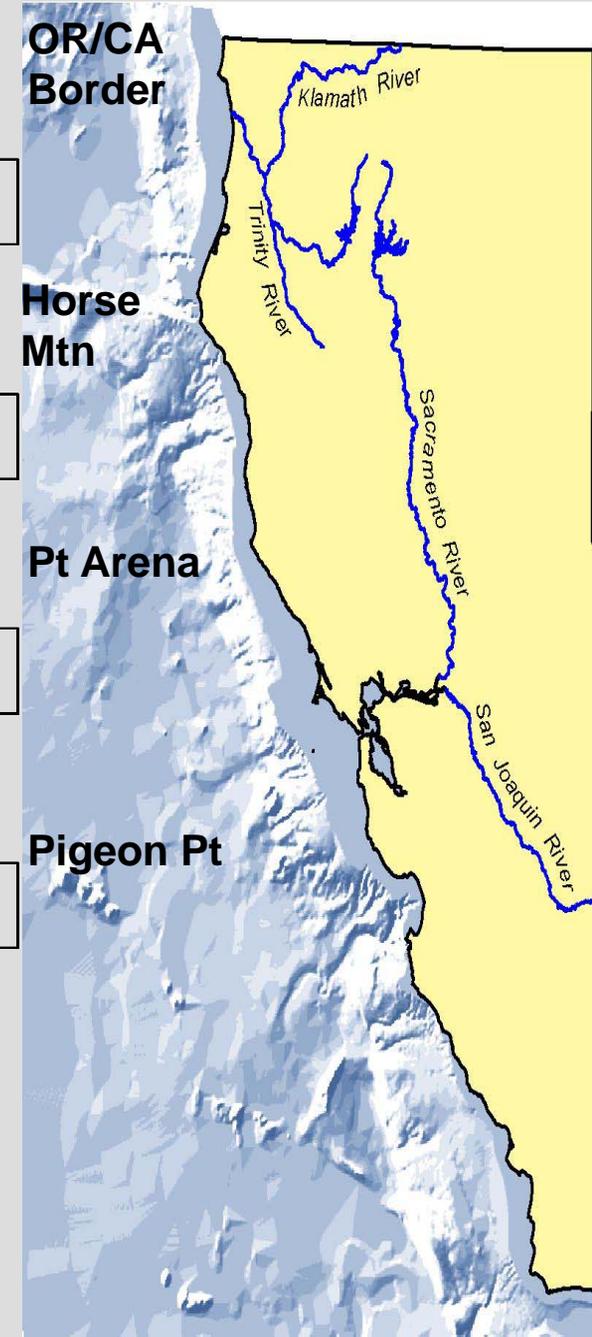
San Francisco: Pt. Arena to Pigeon Pt. (207 days)

	April 6	June 1 - July 9	Nov 10	
Closed Mo-Tu				

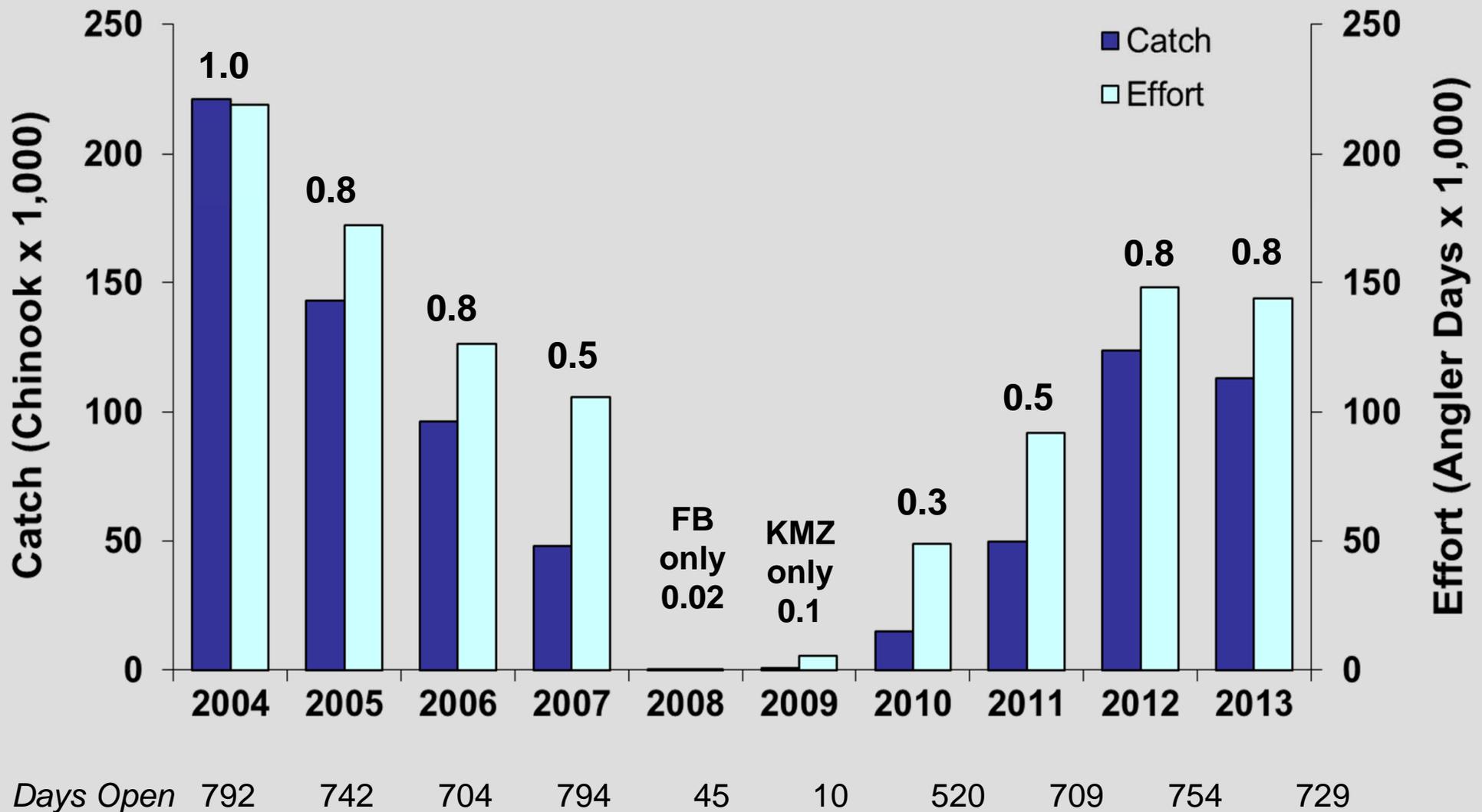
Monterey South: Pigeon Pt. to US/Mexico Border (172 days)

	April 6	June 1 - July 9	Oct 6	
Closed Mo-Tu				

Minimum size limit 20" north of Pt. Arena, 24" in SF through July, 20" thereafter; 24" south of Pigeon the entire season; 2 fish per day

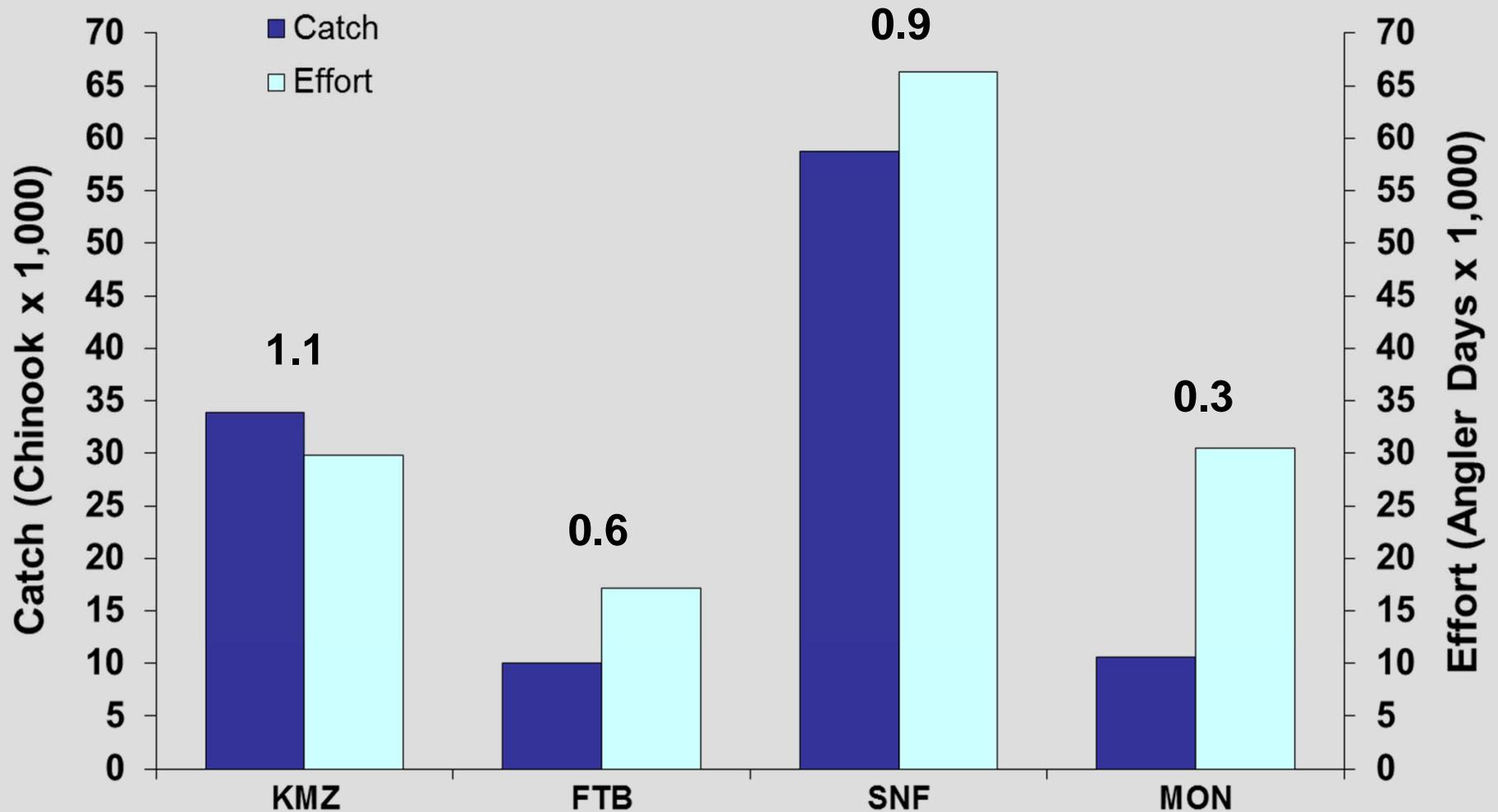


Recreational Catch and Effort, 2004-2013



Days Open = All four management areas combined

2013 Recreational Catch and Effort by Management Area



<i>Days Open</i>	131	219	207	172
<i>Chinook Sampled</i>	8,451	2,362	17,671	2,395
<i>Anglers Interviewed</i>	7,052	3,760	19,575	7,374
TOTAL				30,879
				37,761

Commercial Salmon Fishery



Sample Design – Commercial Fishery

- **Sampling unit: each commercial landing**
- **Ocean Salmon Project samples >20% all landings by weight in each management area**
- **Samplers observe and count all salmon being unloaded**

- **Adipose fin clipped salmon**
 - Each salmon inspected for missing adipose fin
 - Adipose fin-clipped salmon are set aside and the snouts are collected for coded-wire-tag extraction

2013 California Commercial Season

Klamath Mgt Zone: OR/CA Border to Humboldt S. Jetty (45 days)

May 1-10	June 1-9, 11	July 15-21	Aug 1-3	Sep 16-30
3,000	3,352	2,547	1,692	6,000

Fort Bragg: Horse Mt. to Pt. Arena (104 days)

May 22-June 8	June 21-30	July 15 - Sep 30	
---------------	------------	------------------	--

San Francisco: Pt. Arena to Pigeon Pt. (136 days)

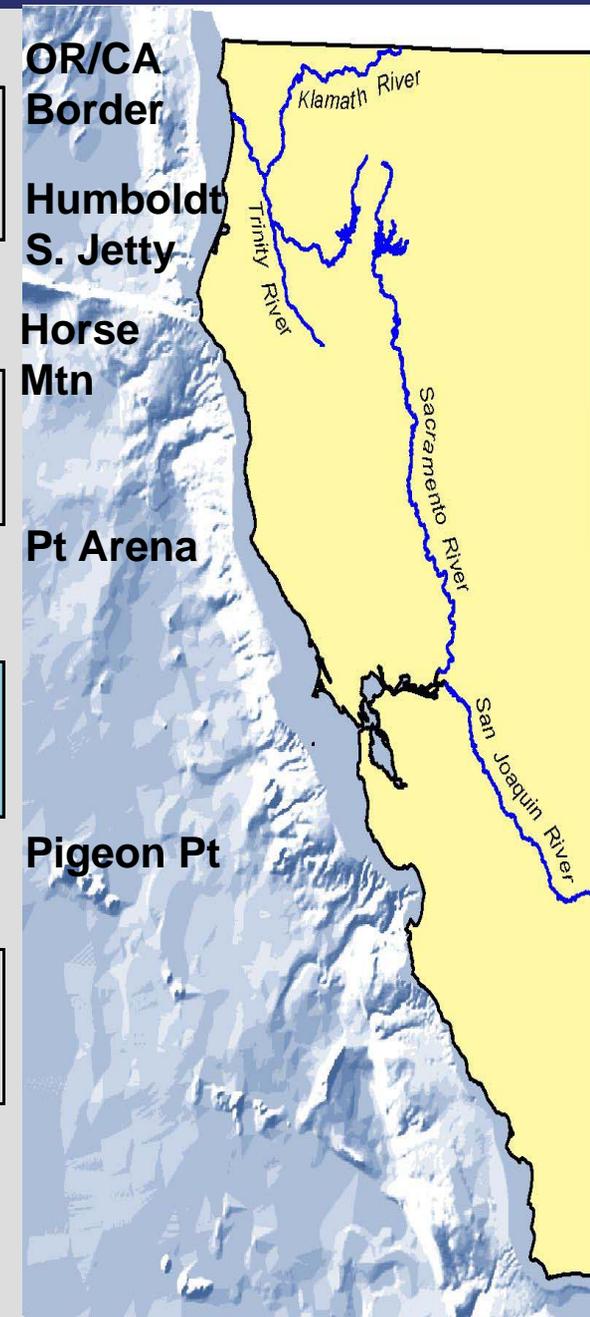
May 1 - June 8	June 21-30	July 15 - Sep 30	Oct 1-15 (M-F)
----------------	------------	------------------	----------------

Monterey South: Pigeon Pt. to US/Mexico Border (125 days)

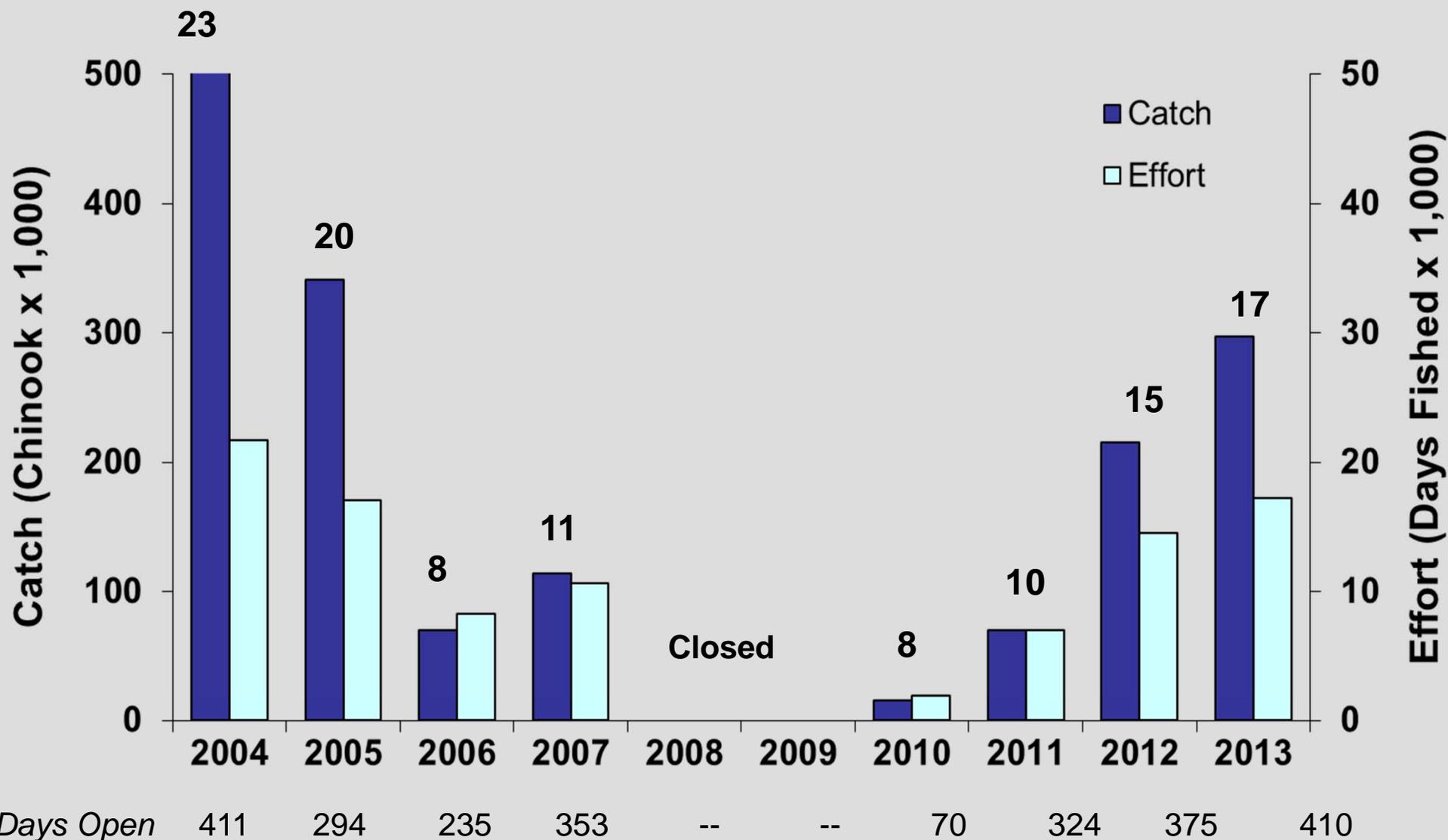
May 1 - June 8	June 21-30	July 15 - Sep 30	
----------------	------------	------------------	--

Minimum size limit 27" north of Pt. Arena

SF and MON minimum size limit 27" through August, 26" thereafter

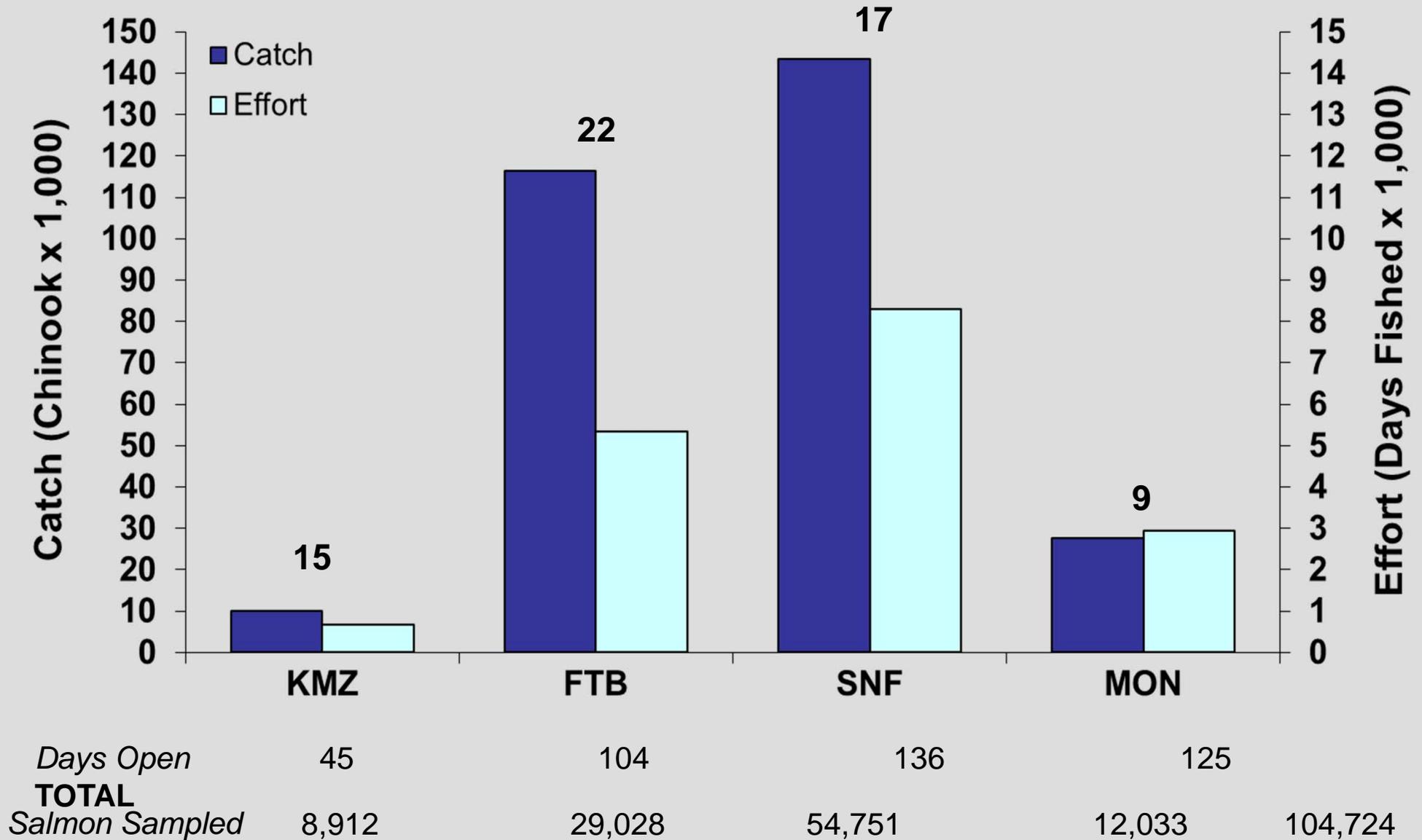


Commercial Catch and Effort, 2004-2013



Days Open = Actual days open in all four management areas combined

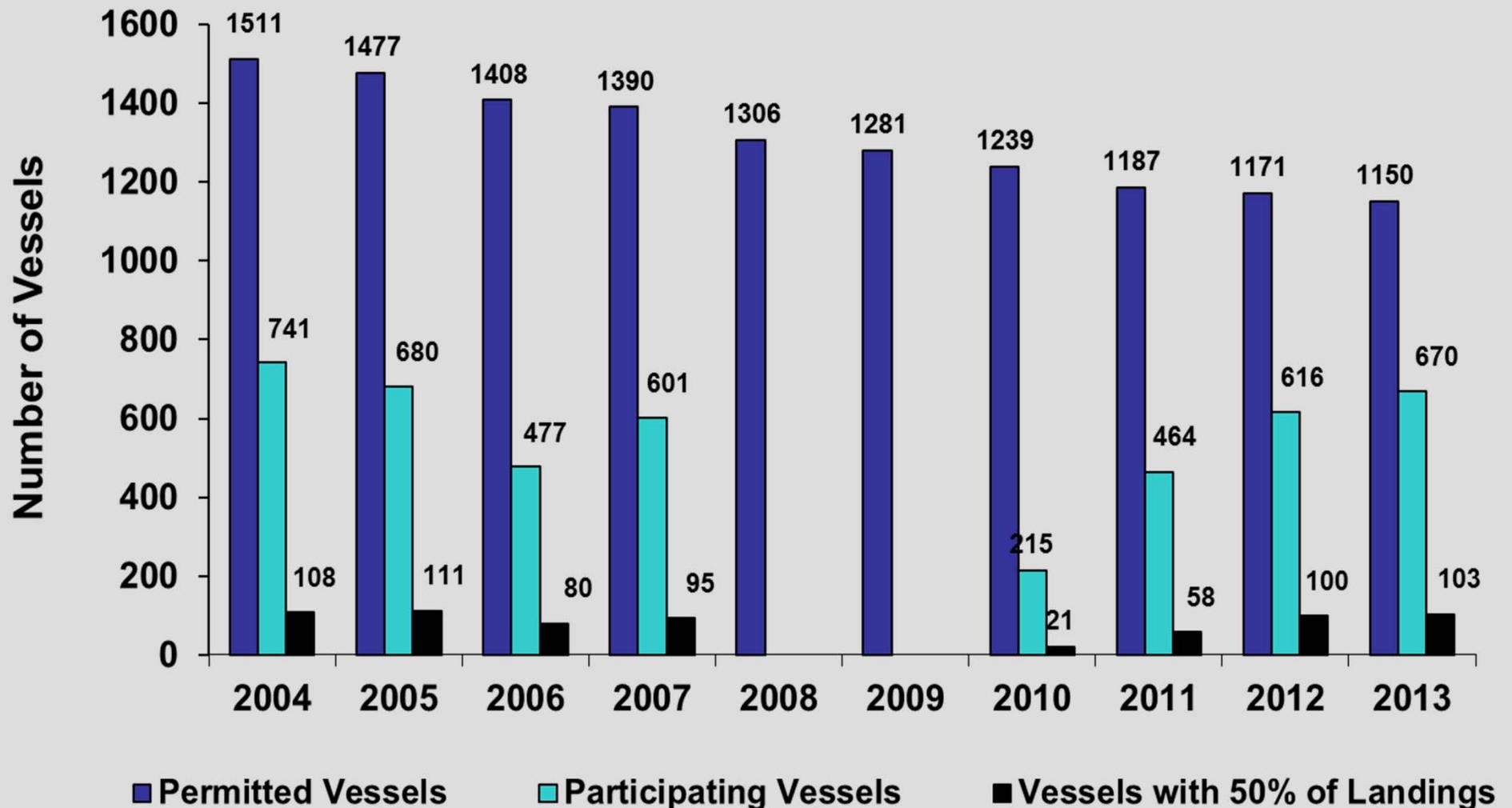
2013 Commercial Catch and Effort by Management Area



Commercial Ex-Vessel Value and Price per Pound, 2004-2013



Number of Vessels with Landings Compared to Permitted Vessels, 2004-2013



2013 KMZ Quota Fisheries

Season Dates	Original Quota	Inseason Quota	# Chinook	# vessels	Avg \$ price	Total \$ Value
May 1-10	3,000	3,000	2,688	37	\$8.44	\$209,000
June 1-9, 11	3,000	3,352	2,888	52	\$6.46	\$211,000
July 15-21	2,000	2,547	2,374	36	\$5.34	\$149,000
Aug 1-3	1,500	1,692	1,991	43	\$5.35	\$128,000
Sep 16-30	6,000	6,000	184	48	\$6.22	\$13,000
				93	\$6.38	\$710,000

Hatchery Contribution to 2013 CA Ocean Fisheries

Hatchery Chinook Stock	Recreational (57%) N = 5,964 CWTs	Commercial (47%) N=17,018 CWTs
Sacramento River Fall	82%	81%
San Joaquin River Fall	7%	7%
Klamath River Fall	6%	8%
Central Valley Spring	3%	2%
Central Valley Late-Fall	1%	1%
Klamath River Spring	0.5%	0.3%
OR/WA stocks	0.3%	0.5%

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

<u>Sacramento Hatchery</u>	Recreational	Commercial
Feather River Hatchery	48%	46%
Coleman National Fish Hatchery	37%	37%
Nimbus Fish Hatchery	15%	17%