



NOAA
FISHERIES

**Gulf of Alaska
Inseason Management Report
December 2015**

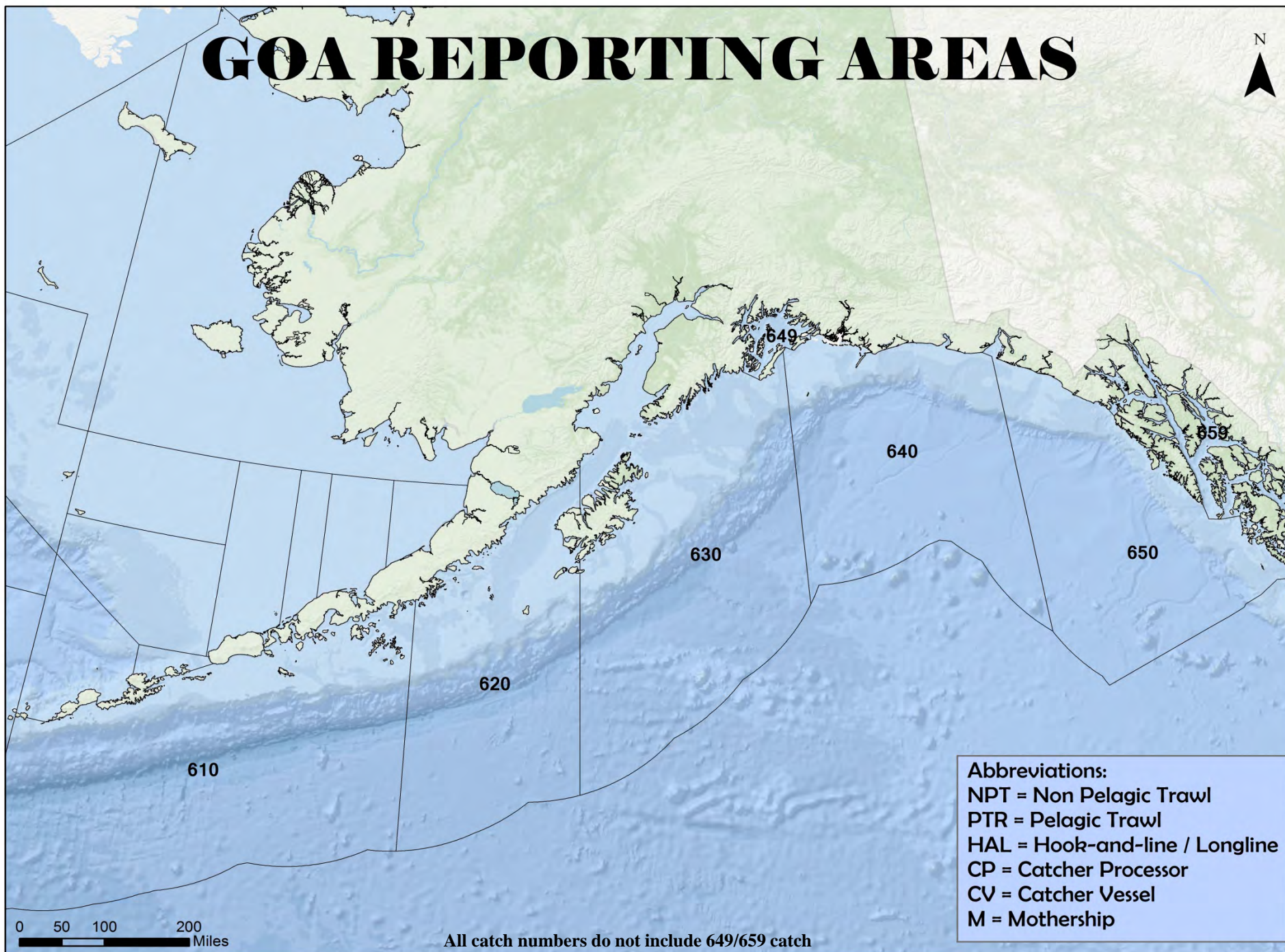
Catch data are through November 21, 2015

Management reports can be found at:

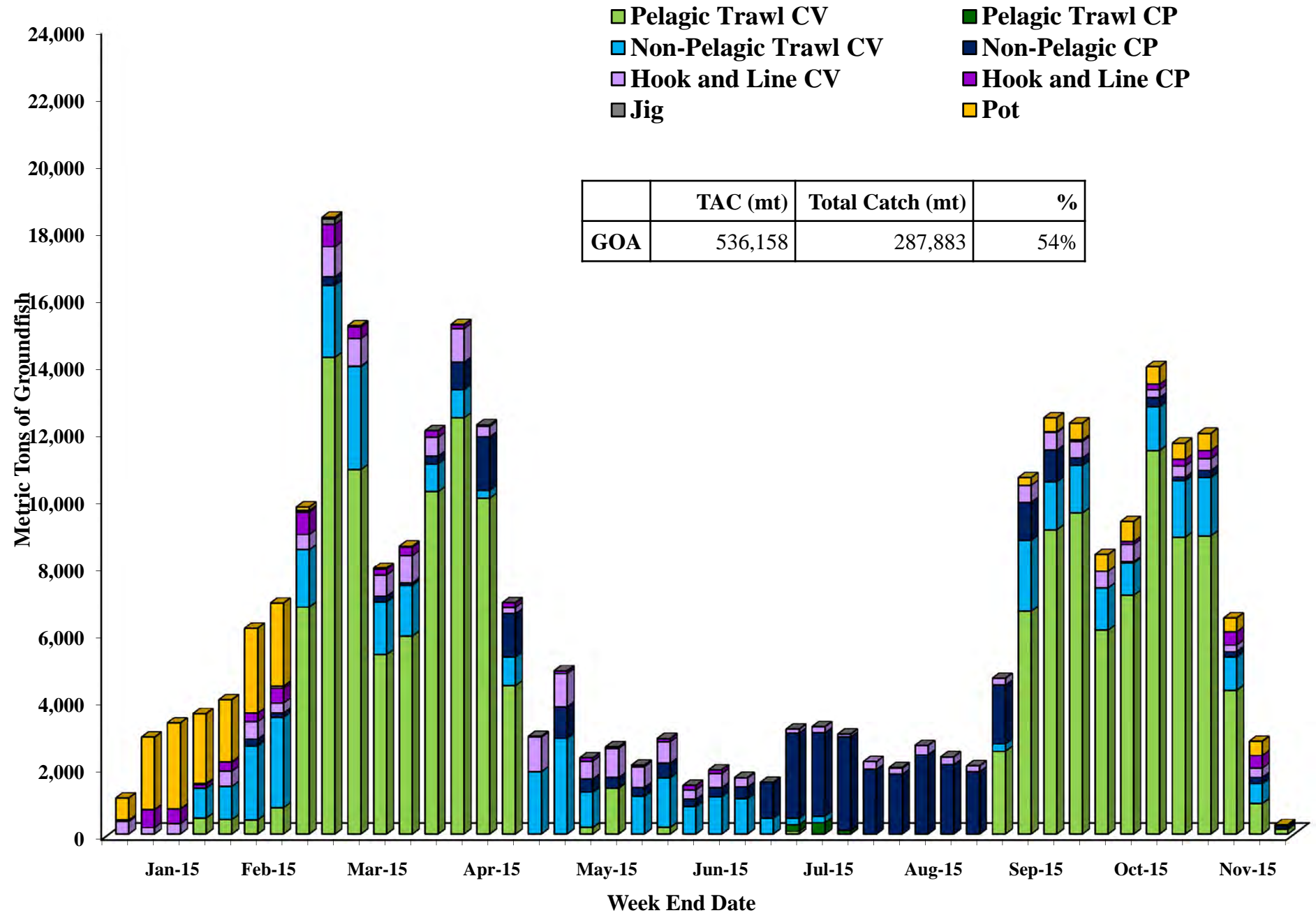
<http://alaskafisheries.noaa.gov/sustainablefisheries/inseason/default.htm>

**Report Prepared by:
Josh Keaton
November 2015**

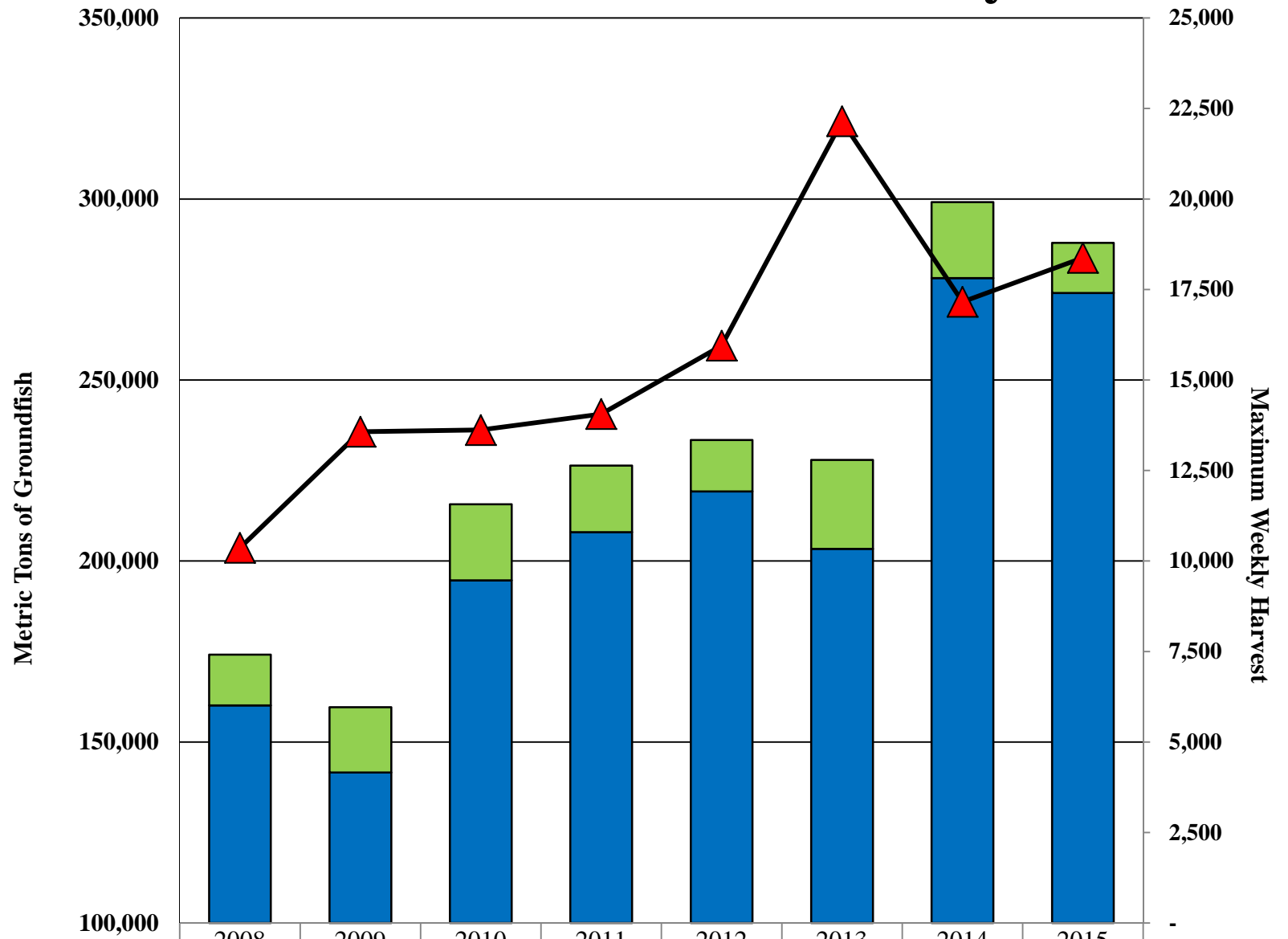
GOA REPORTING AREAS



2015 GOA Total Groundfish Catch by Gear & Sector



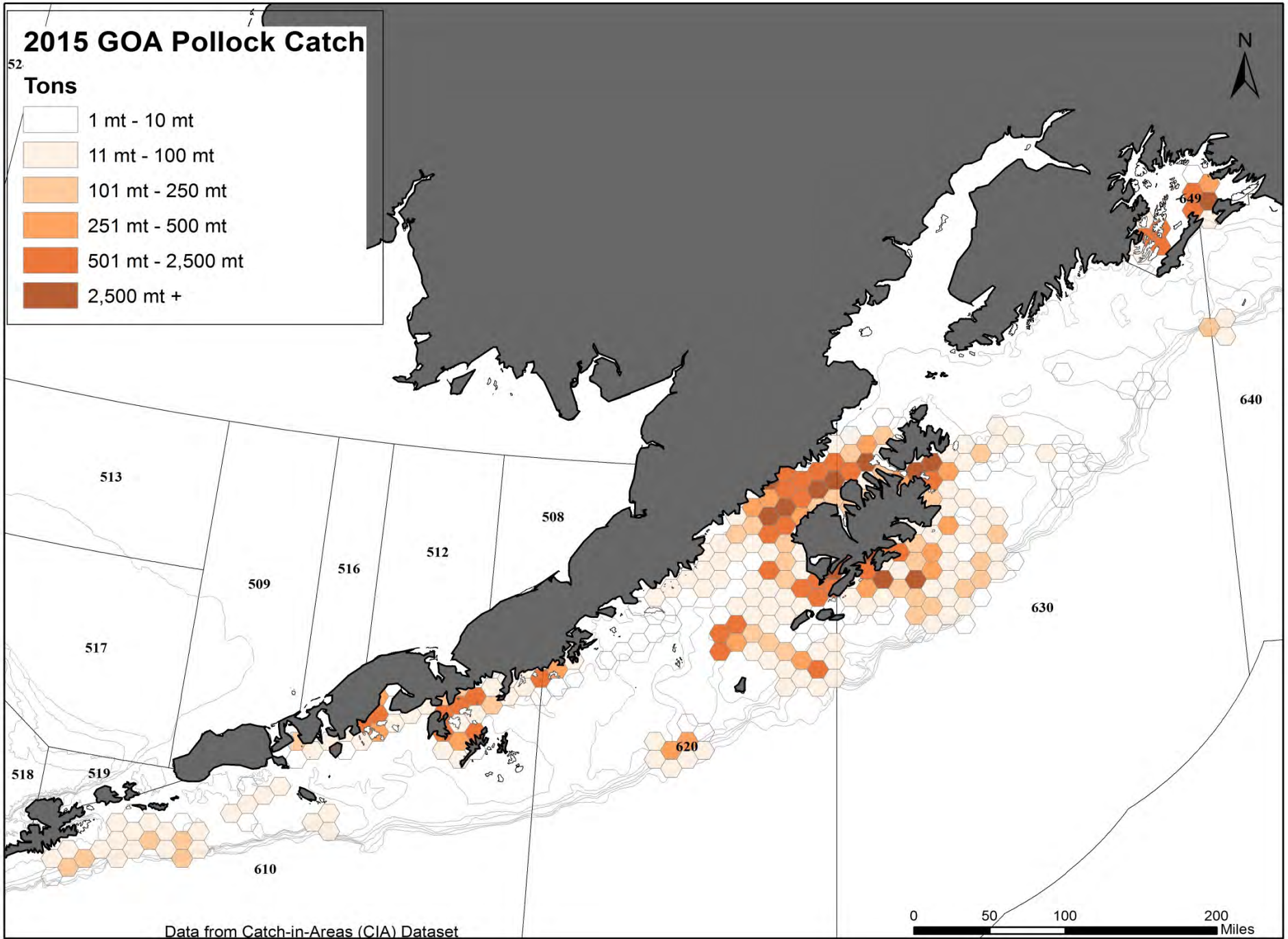
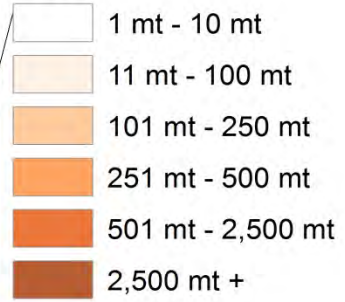
GOA Total Groundfish Catch and Max Weekly Harvest



Discarded Catch	14,023	18,028	21,009	18,384	14,191	24,543	20,977	13,853
Retained Catch	160,114	141,591	194,666	207,982	219,230	203,362	278,147	274,030
maximum Weekly Harvest	10,365	13,571	13,619	14,060	15,948	22,150	17,159	18,375

2015 GOA Pollock Catch

Tons



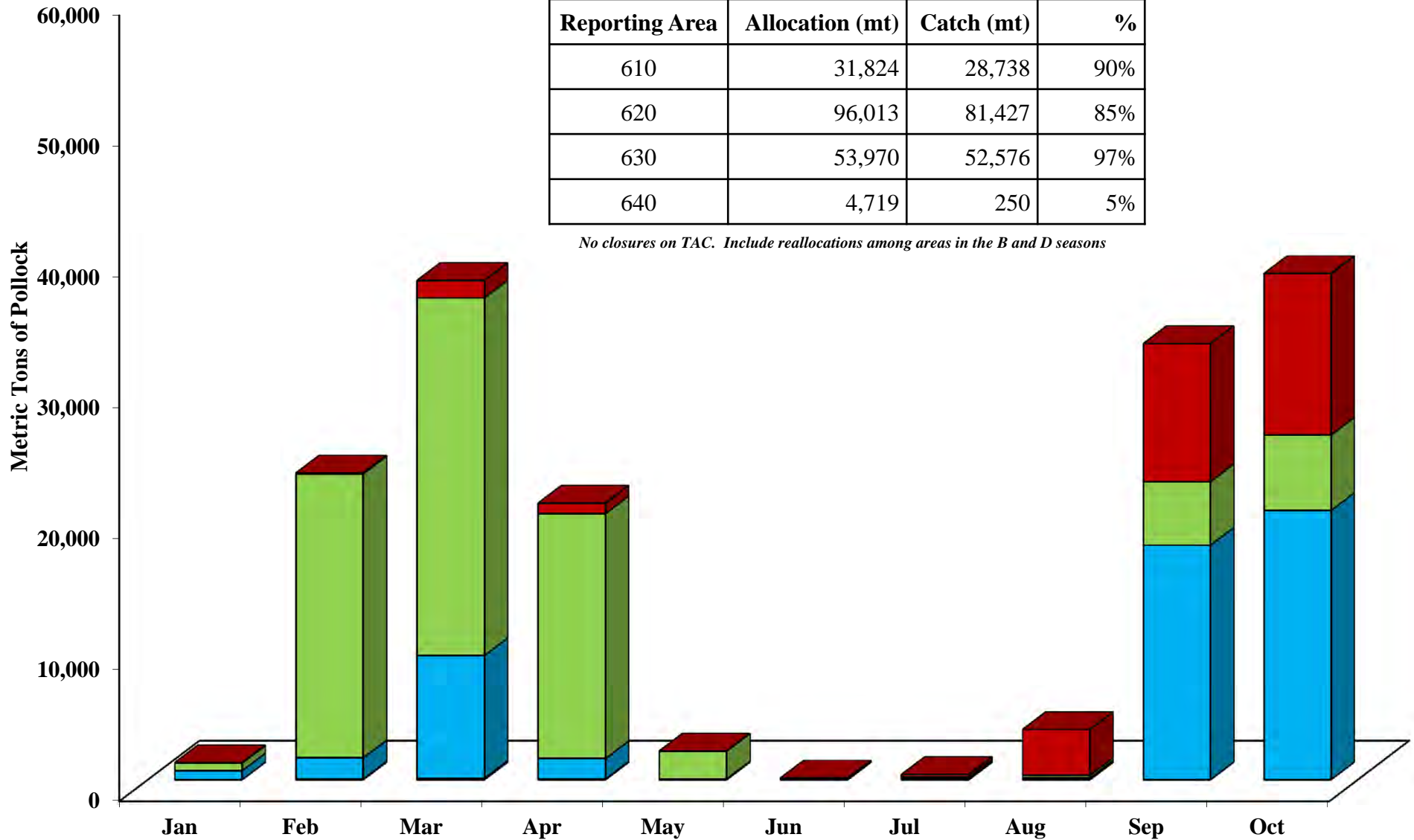
Data from Catch-in-Areas (CIA) Dataset

2015 Pollock Catch in GOA

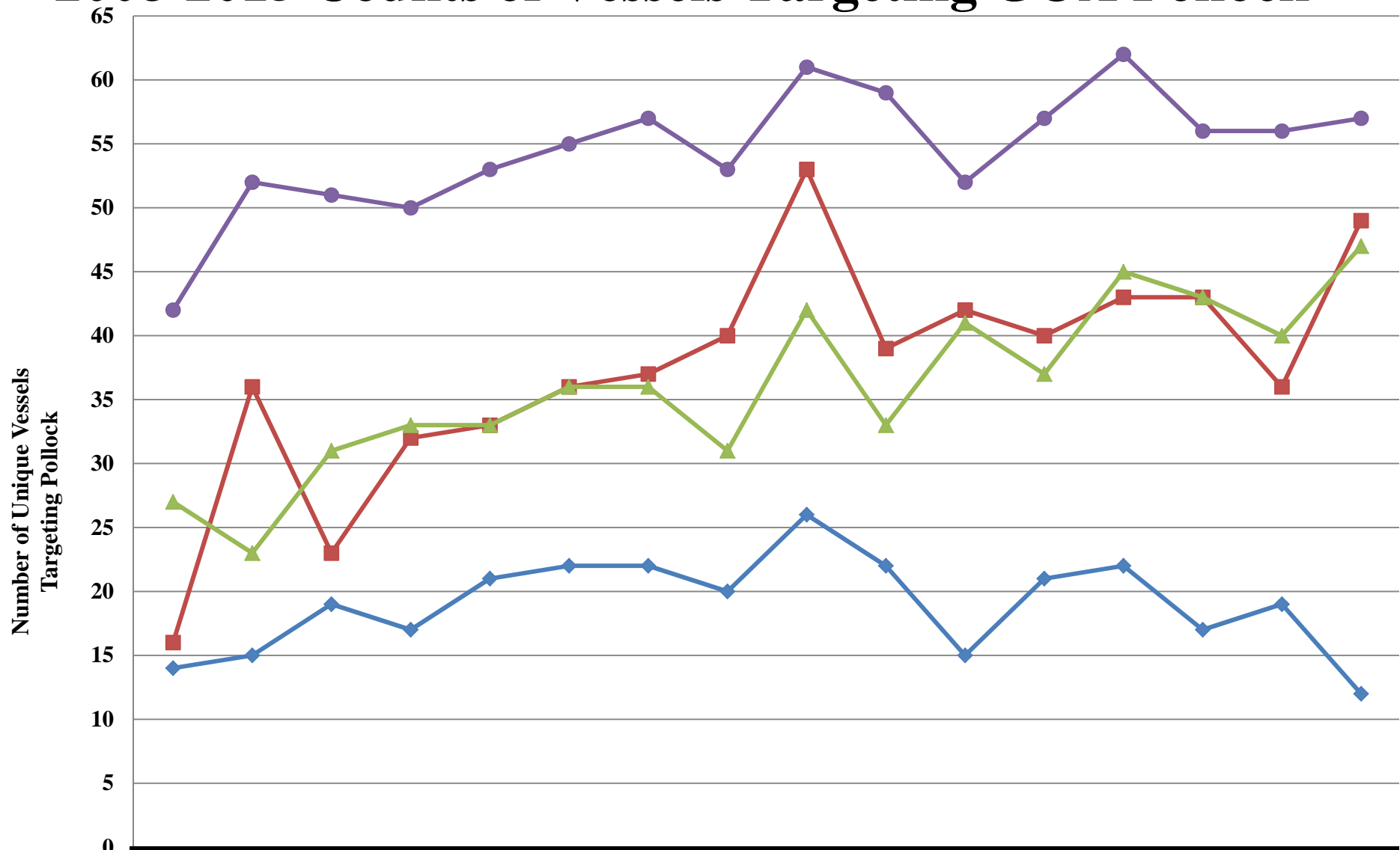
■ 610 ■ 620 ■ 630 ■ 640

Reporting Area	Allocation (mt)	Catch (mt)	%
610	31,824	28,738	90%
620	96,013	81,427	85%
630	53,970	52,576	97%
640	4,719	250	5%

No closures on TAC. Include reallocations among areas in the B and D seasons



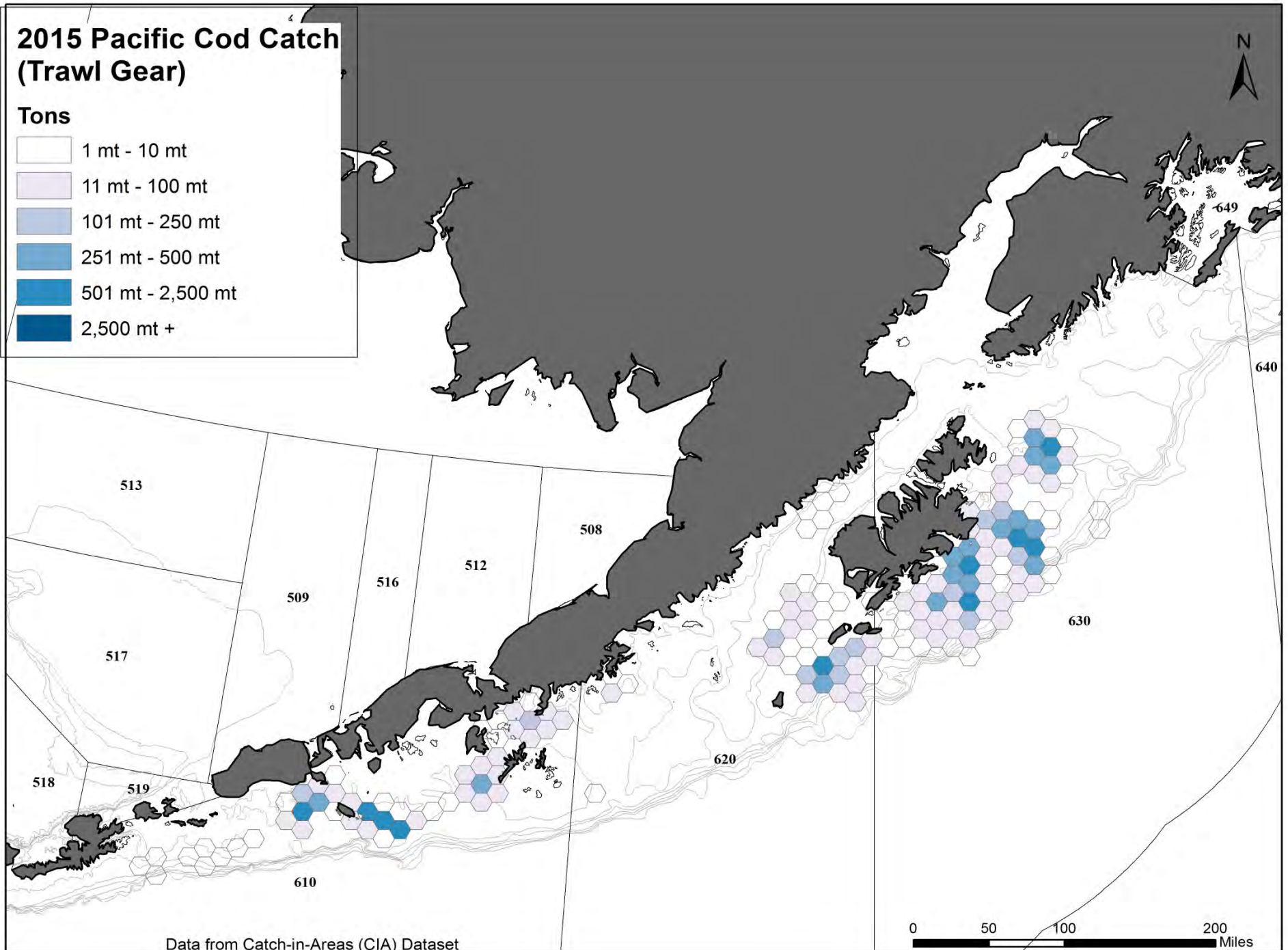
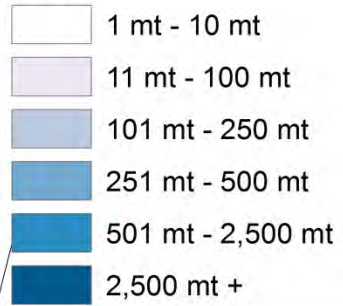
2008-2015 Counts of Vessels Targeting GOA Pollock



	Spring 2008	Fall 2008	Spring 2009	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015
610	14	15	19	17	21	22	22	20	26	22	15	21	22	17	19	12
620	16	36	23	32	33	36	37	40	53	39	42	40	43	43	36	49
630	27	23	31	33	33	36	36	31	42	33	41	37	45	43	40	47
All Areas	42	52	51	50	53	55	57	53	61	59	52	57	62	56	56	57

2015 Pacific Cod Catch (Trawl Gear)

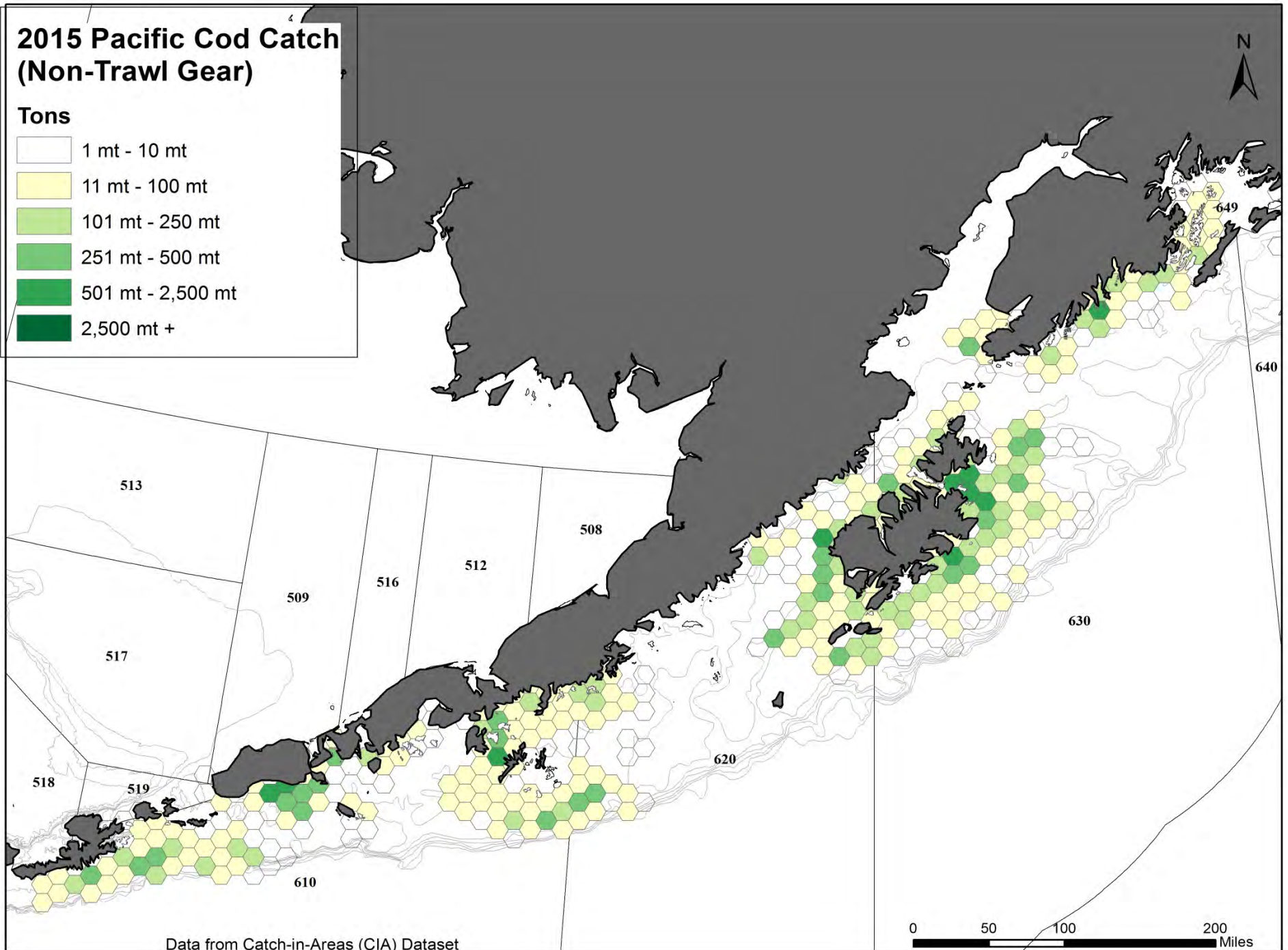
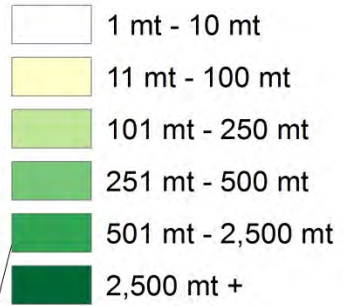
Tons



Data from Catch-in-Areas (CIA) Dataset

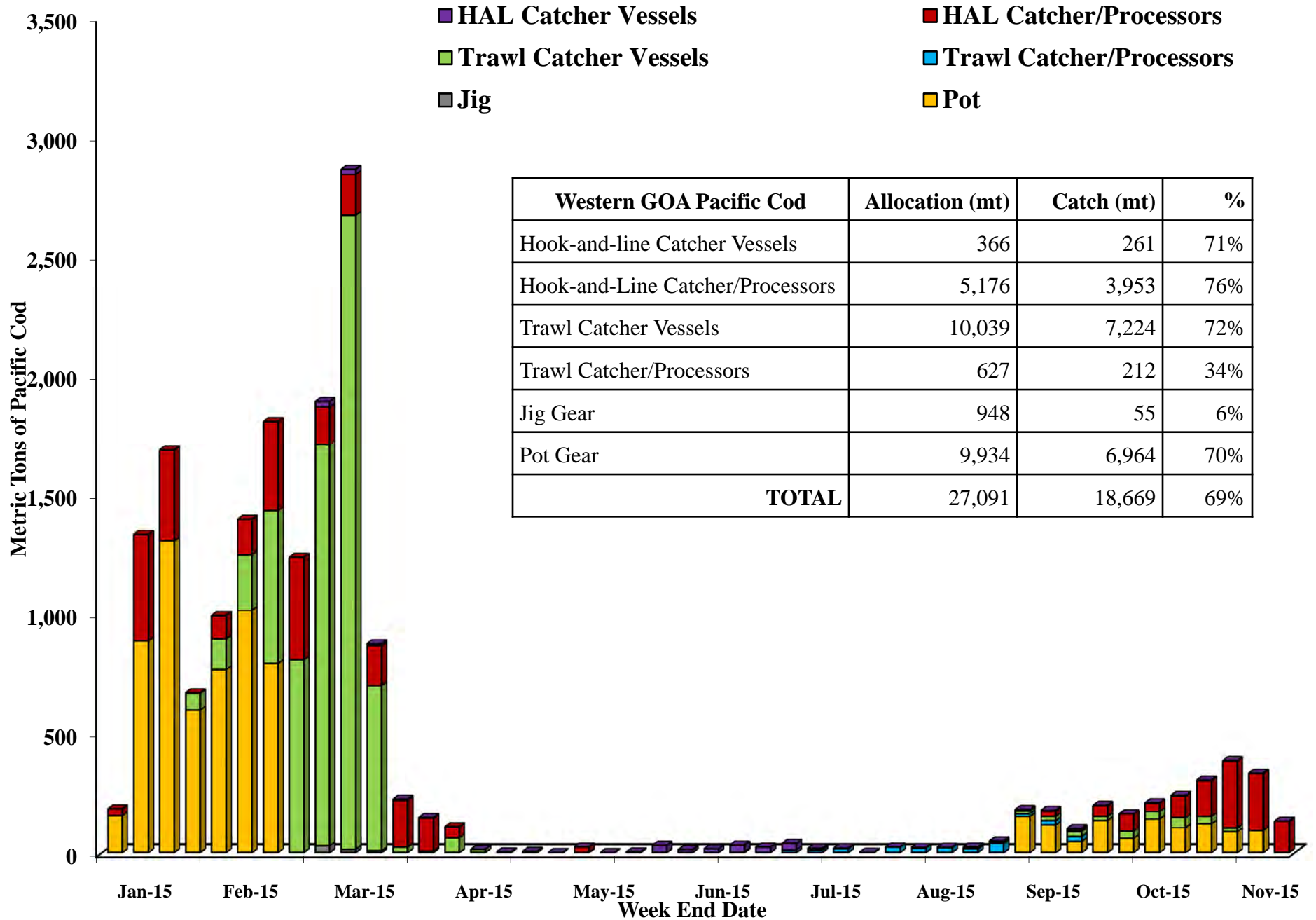
2015 Pacific Cod Catch (Non-Trawl Gear)

Tons



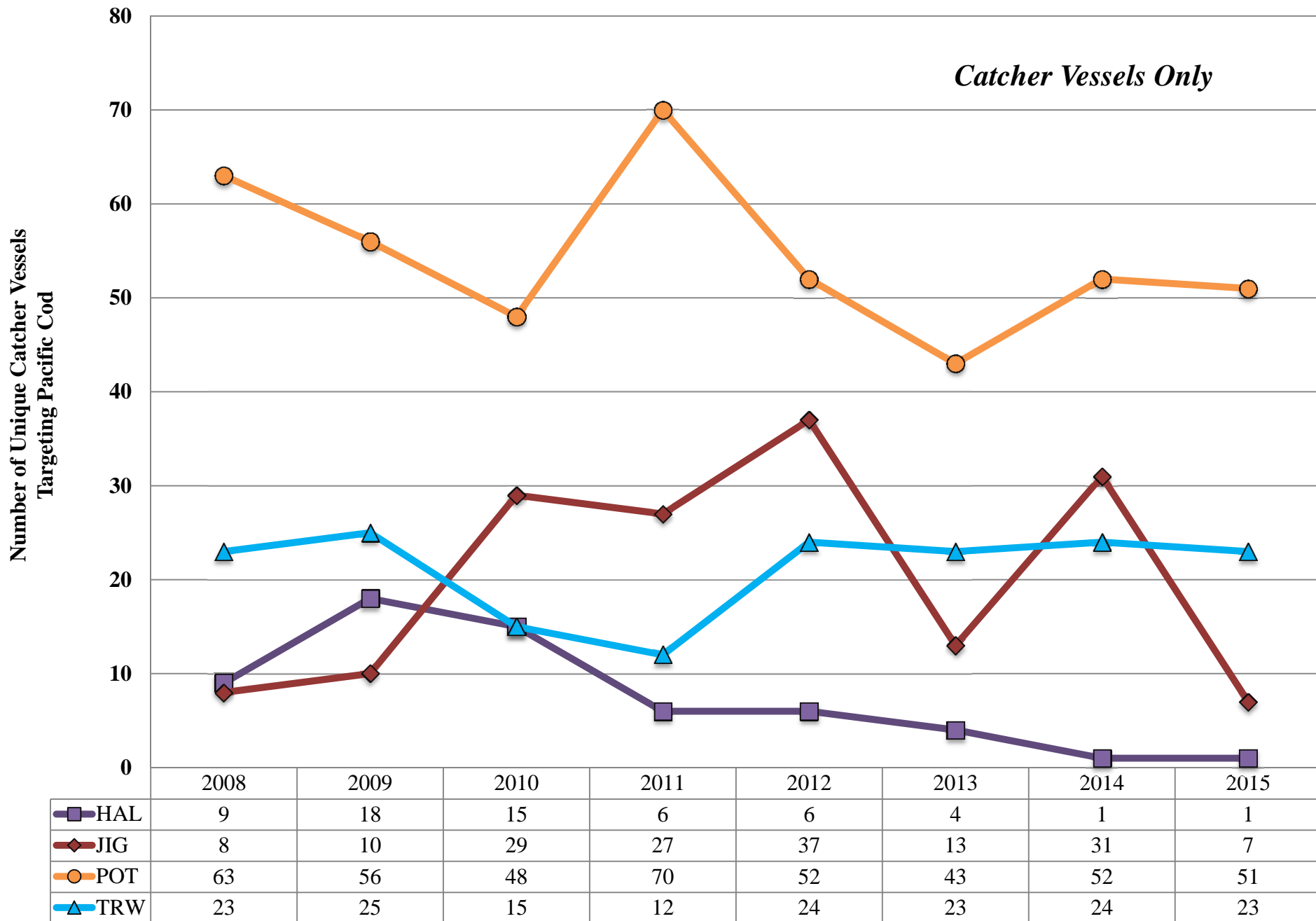
Data from Catch-in-Areas (CIA) Dataset

2015 Western Gulf Pacific Cod Catch by Week and Sector

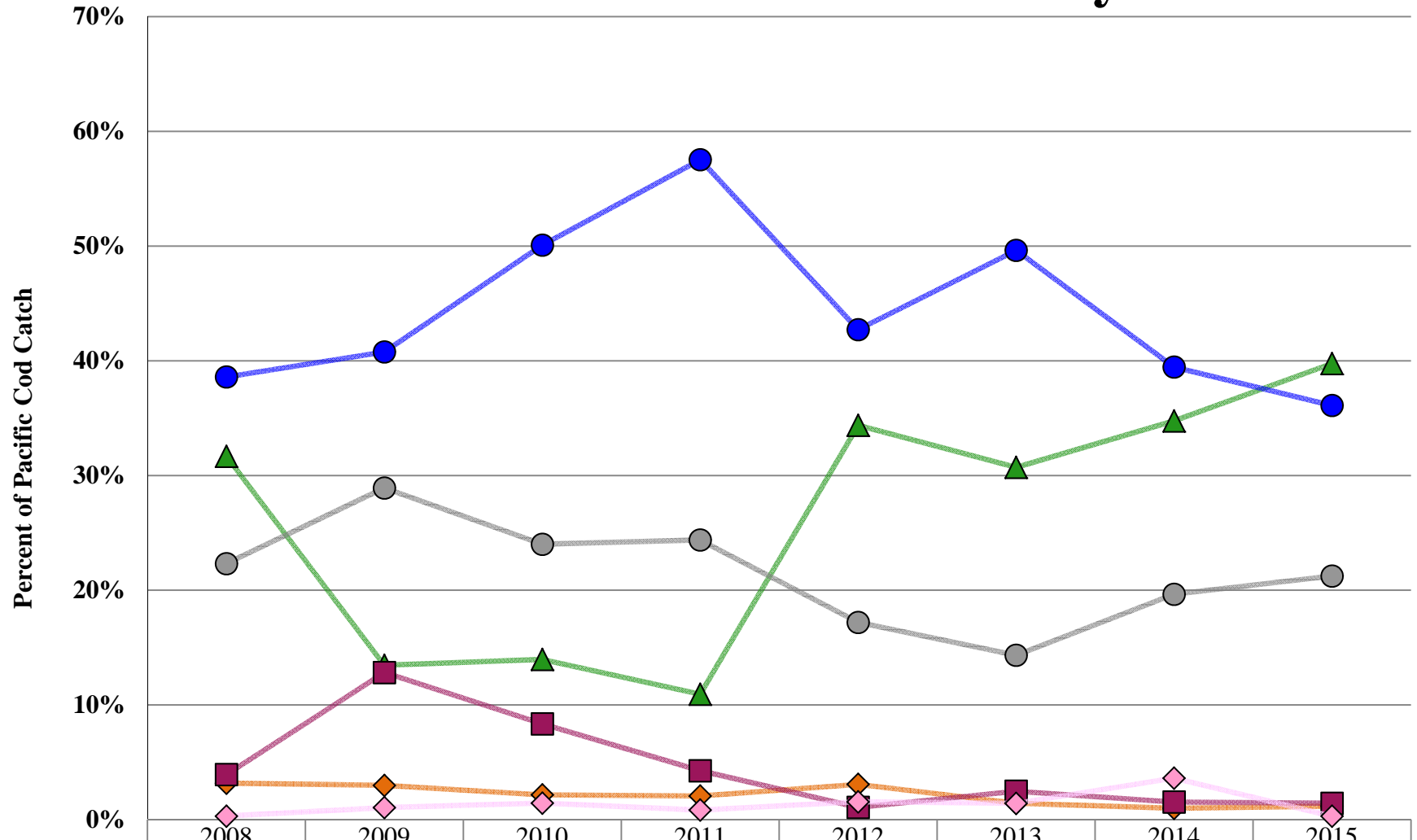


Western GOA Pacific Cod	Allocation (mt)	Catch (mt)	%
Hook-and-line Catcher Vessels	366	261	71%
Hook-and-Line Catcher/Processors	5,176	3,953	76%
Trawl Catcher Vessels	10,039	7,224	72%
Trawl Catcher/Processors	627	212	34%
Jig Gear	948	55	6%
Pot Gear	9,934	6,964	70%
TOTAL	27,091	18,669	69%

2008-2015 Counts of Vessels Targeting WGOA Pacific Cod

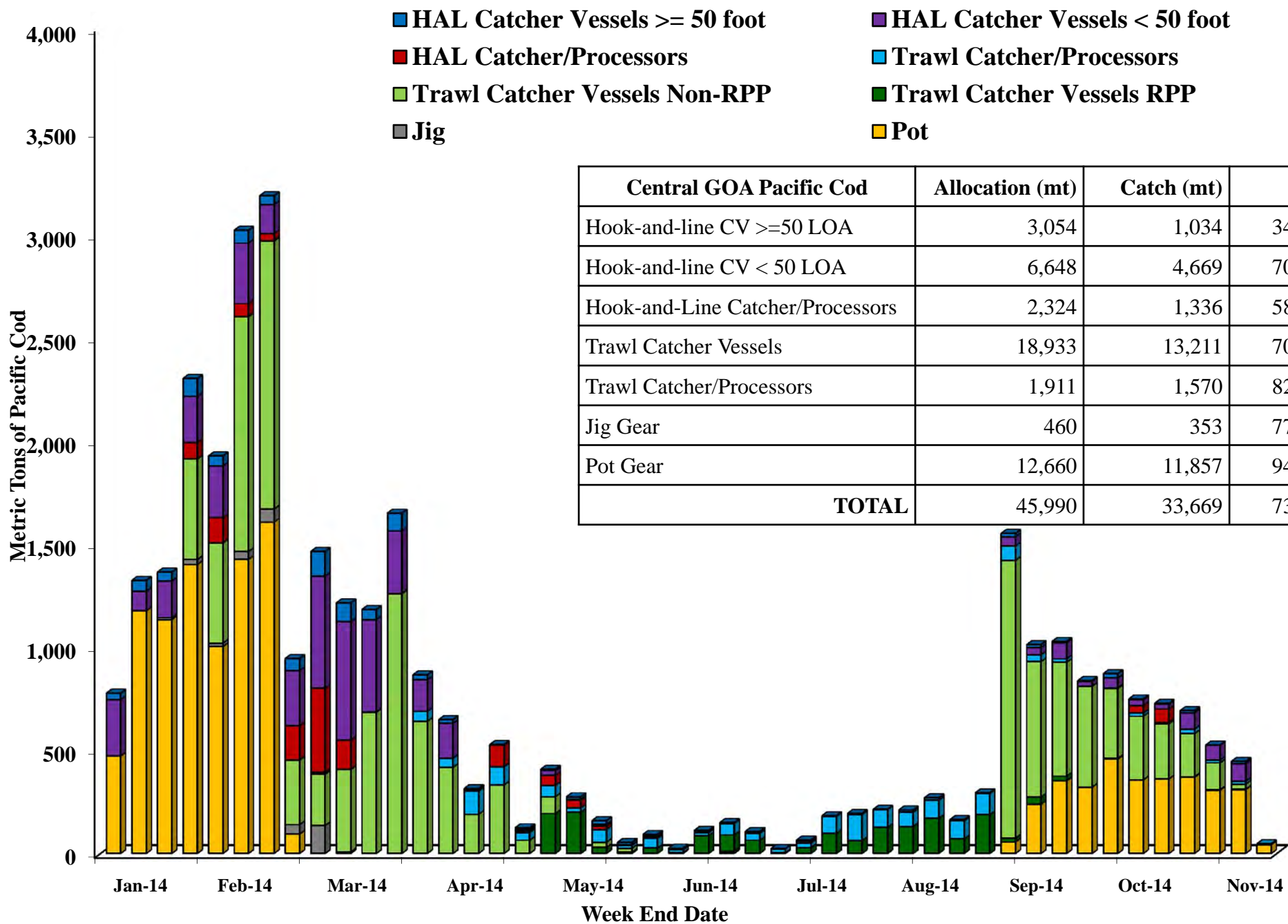


Annual Western Gulf Pacific Cod Catch by Sector

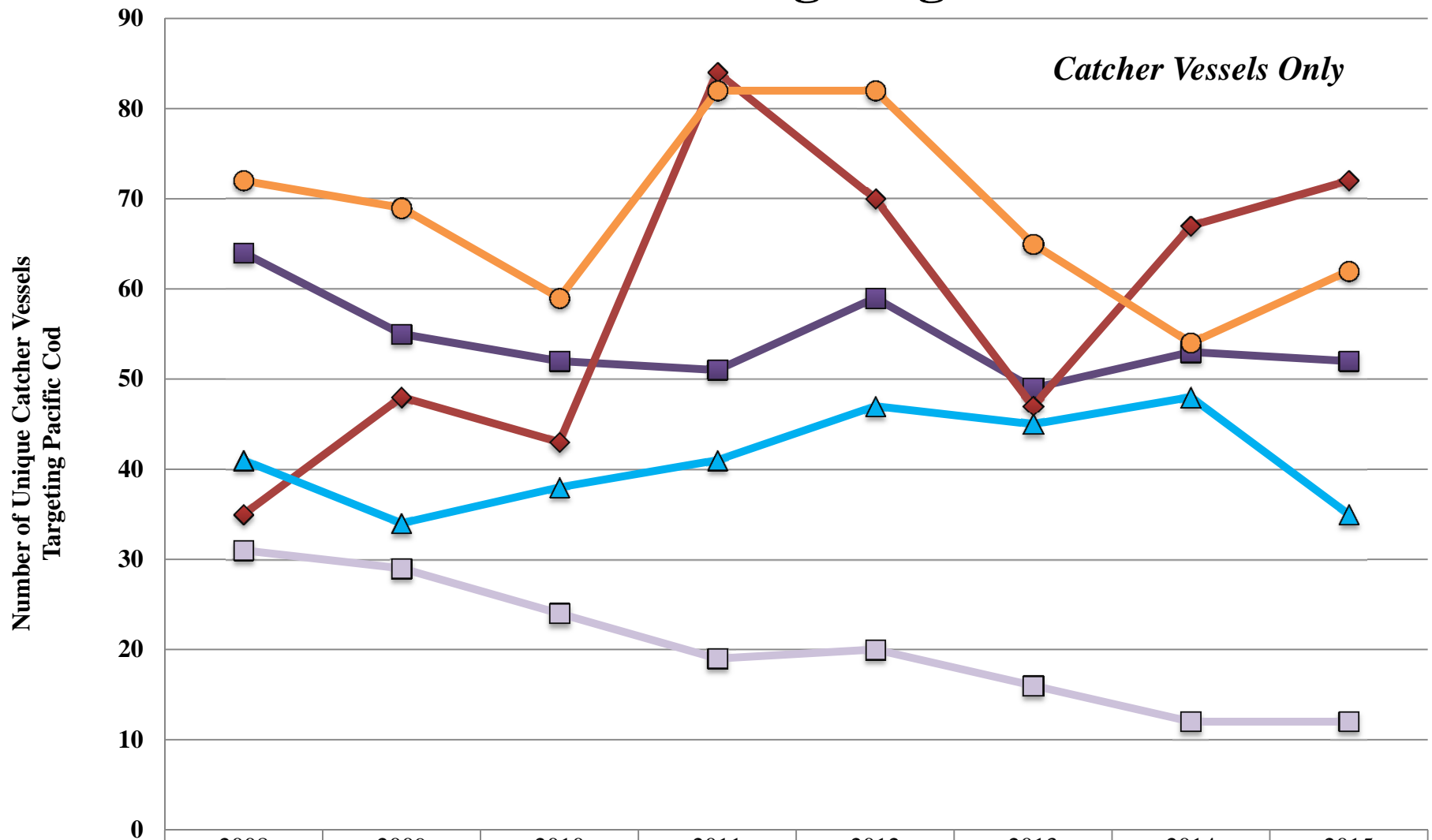


	2008	2009	2010	2011	2012	2013	2014	2015
▲ Trawl (CV)	32%	13%	14%	11%	34%	31%	35%	40%
◆ Trawl (CP)	3%	3%	2%	2%	3%	1%	1%	1%
■ HAL (CV)	4%	13%	8%	4%	1%	2%	2%	1%
● Pot (CV)	39%	41%	50%	58%	43%	50%	39%	36%
◇ Jig (CV)	0%	1%	1%	1%	2%	1%	4%	0%
● Fixed Gear CP	22%	29%	24%	24%	17%	14%	20%	21%

2015 Central Gulf Pacific Cod Catch by Week and Sector

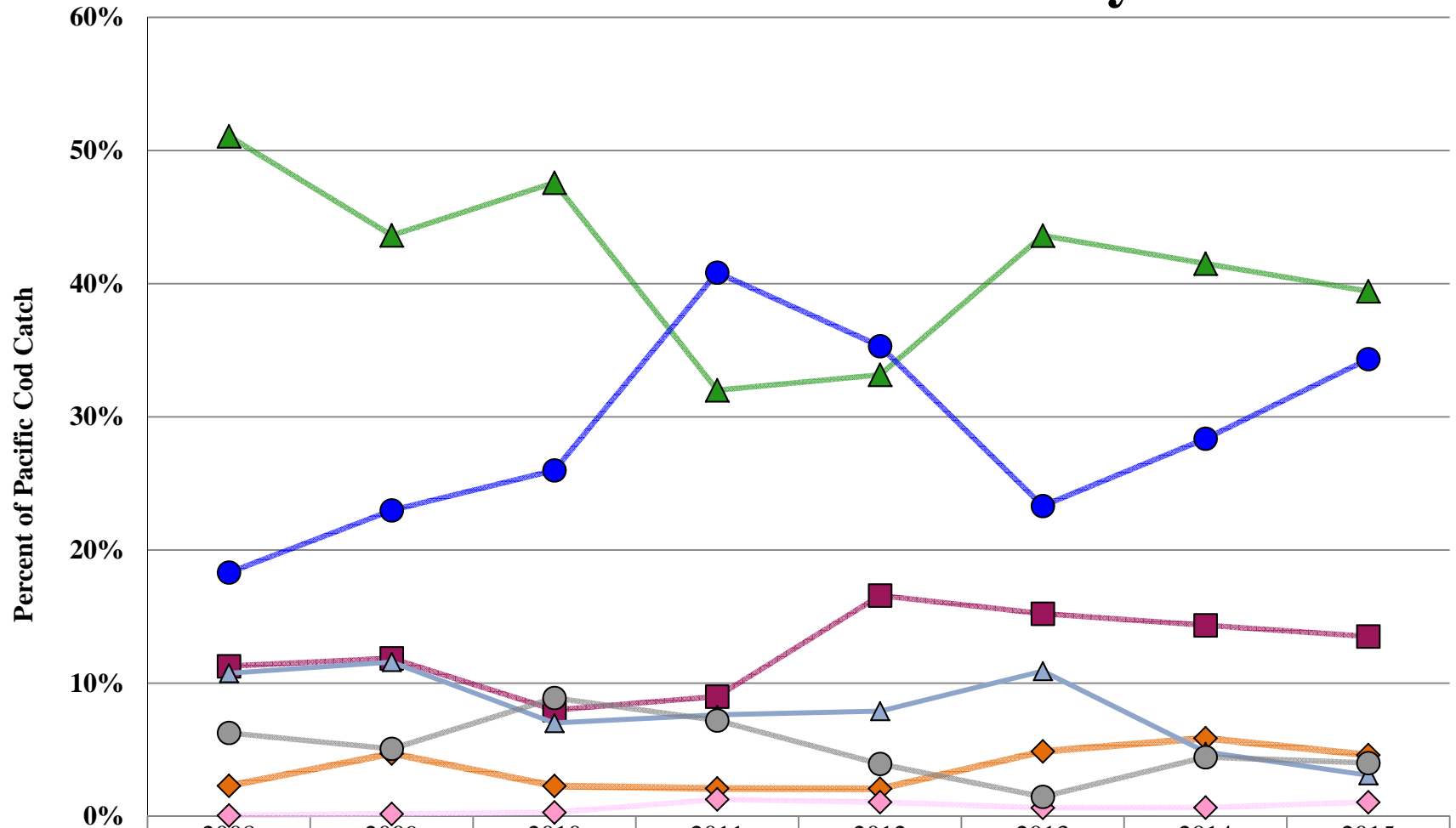


2008 - 2015 Counts of Vessels Targeting CGOA Pacific Cod



	2008	2009	2010	2011	2012	2013	2014	2015
■ HAL <50	64	55	52	51	59	49	53	52
■ HAL >=50	31	29	24	19	20	16	12	12
◆ JIG	35	48	43	84	70	47	67	72
○ POT	72	69	59	82	82	65	54	62
▲ TRW	41	34	38	41	47	45	48	35

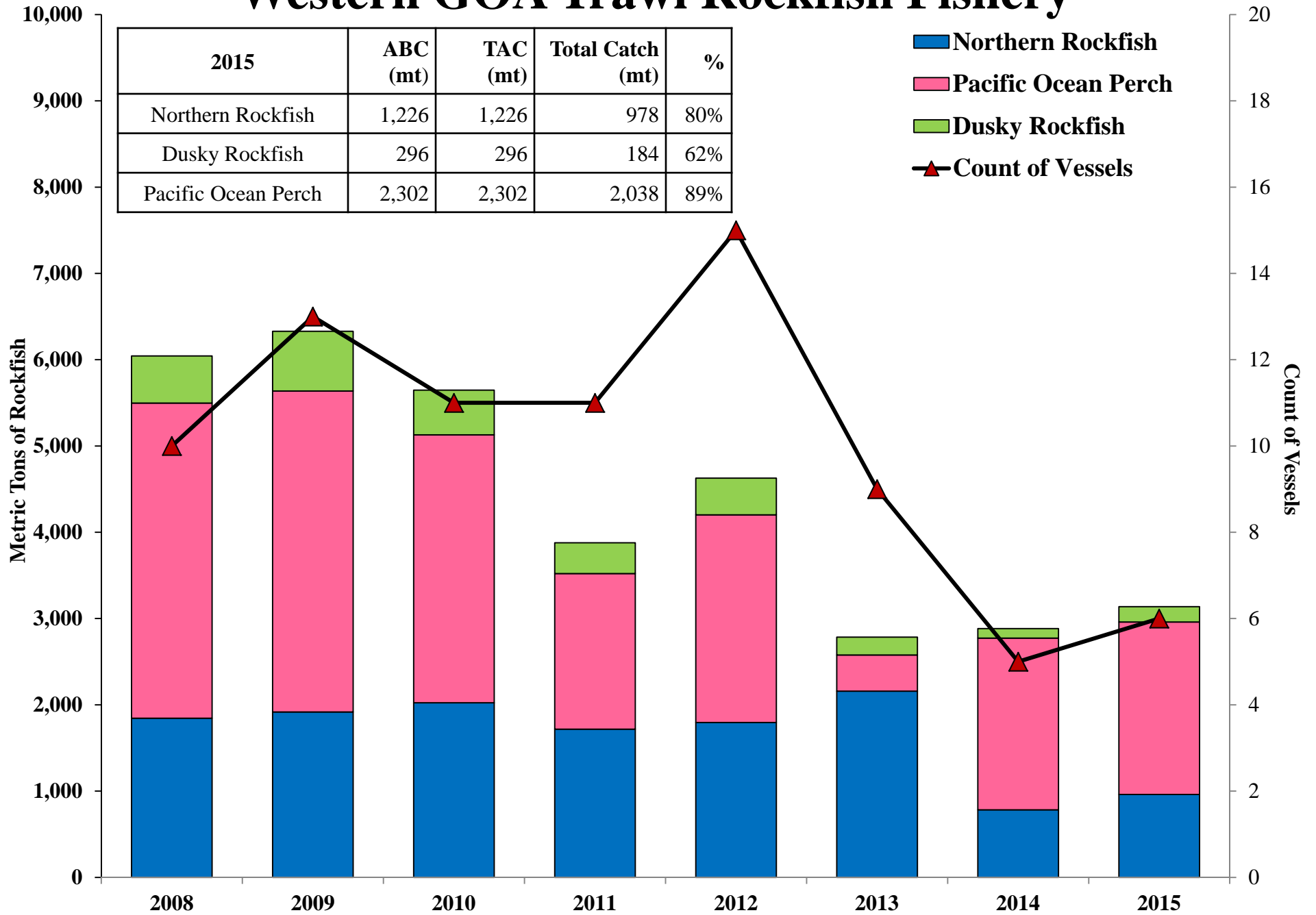
Annual Central Gulf Pacific Cod Catch by Sector



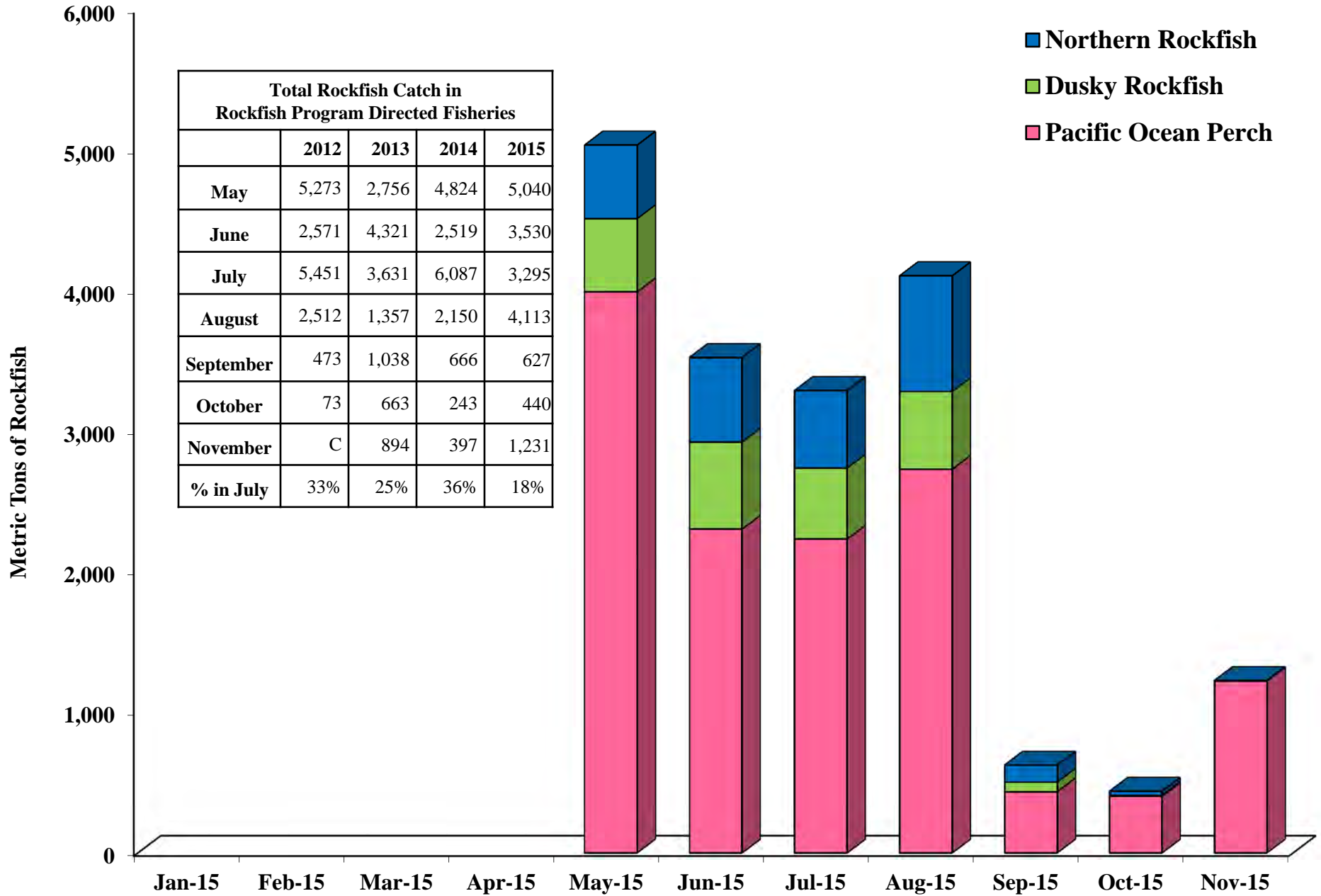
	2008	2009	2010	2011	2012	2013	2014	2015
▲ Trawl (CV)	51%	44%	48%	32%	33%	44%	42%	39%
◆ Trawl (CP)	2%	5%	2%	2%	2%	5%	6%	5%
● Pot (CV)	18%	23%	26%	41%	35%	23%	28%	34%
◇ Jig (CV)	0%	0%	0%	1%	1%	1%	1%	1%
■ HAL <50 CV	11%	12%	8%	9%	17%	15%	14%	14%
▲ HAL >= 50 CV	11%	12%	7%	8%	8%	11%	5%	3%
● Fixed Gear (CP)	6%	5%	9%	7%	4%	1%	4%	4%

Western GOA Trawl Rockfish Fishery

2015	ABC (mt)	TAC (mt)	Total Catch (mt)	%
Northern Rockfish	1,226	1,226	978	80%
Dusky Rockfish	296	296	184	62%
Pacific Ocean Perch	2,302	2,302	2,038	89%



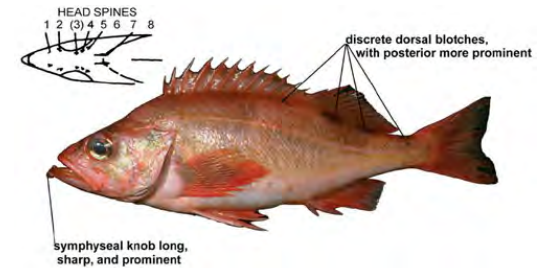
2015 Central GOA Targeted Rockfish Catch by Month



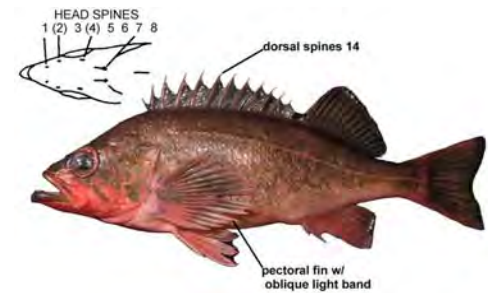
Total Rockfish Catch in Rockfish Program Directed Fisheries				
	2012	2013	2014	2015
May	5,273	2,756	4,824	5,040
June	2,571	4,321	2,519	3,530
July	5,451	3,631	6,087	3,295
August	2,512	1,357	2,150	4,113
September	473	1,038	666	627
October	73	663	243	440
November	C	894	397	1,231
% in July	33%	25%	36%	18%

2015 Rockfish Program Allocations and Catch

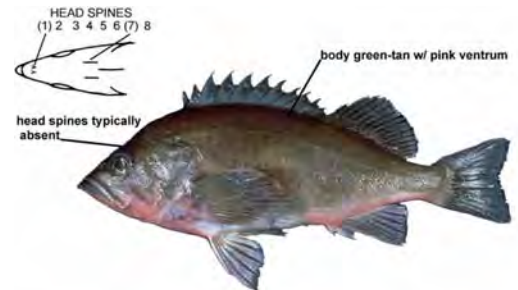
	Limit	Catch	% Caught
Entry Level			
Pacific Ocean Perch	5	0	0%
Northern Rockfish	5	0	0%
Dusky Rockfish	30	15	50%
Cooperatives			
Pacific Ocean Perch	13,868	13,771	99%
Northern Rockfish	3,567	2,769	75%
Dusky Rockfish	3,056	2,325	76%
Pacific Cod	1,752	791	45%
Sablefish	479	456	95%
Thornyhead Rockfish	300	205	68%
Shortraker Rockfish	159	confidential	
Rougheye Rockfish	372	confidential	
Pacific Halibut PSC	191	96	50%
Primary Species Totals Including Central GOA Incidental Catch			
Pacific Ocean Perch	15,873	14,704	93%
Northern Rockfish	3,772	2,978	79%
Dusky Rockfish	3,336	2,582	77%



Pacific Ocean Perch

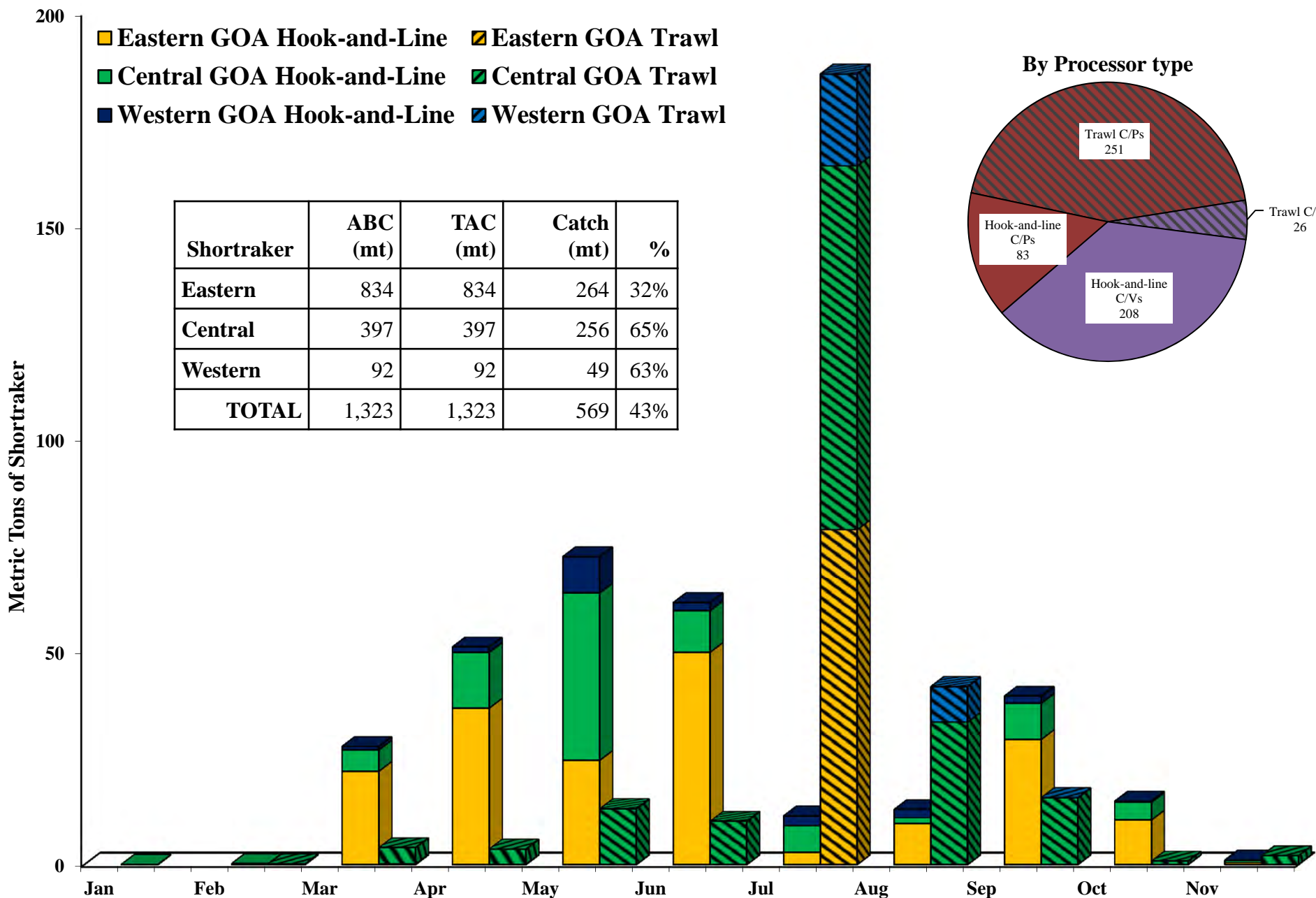


Northern Rockfish

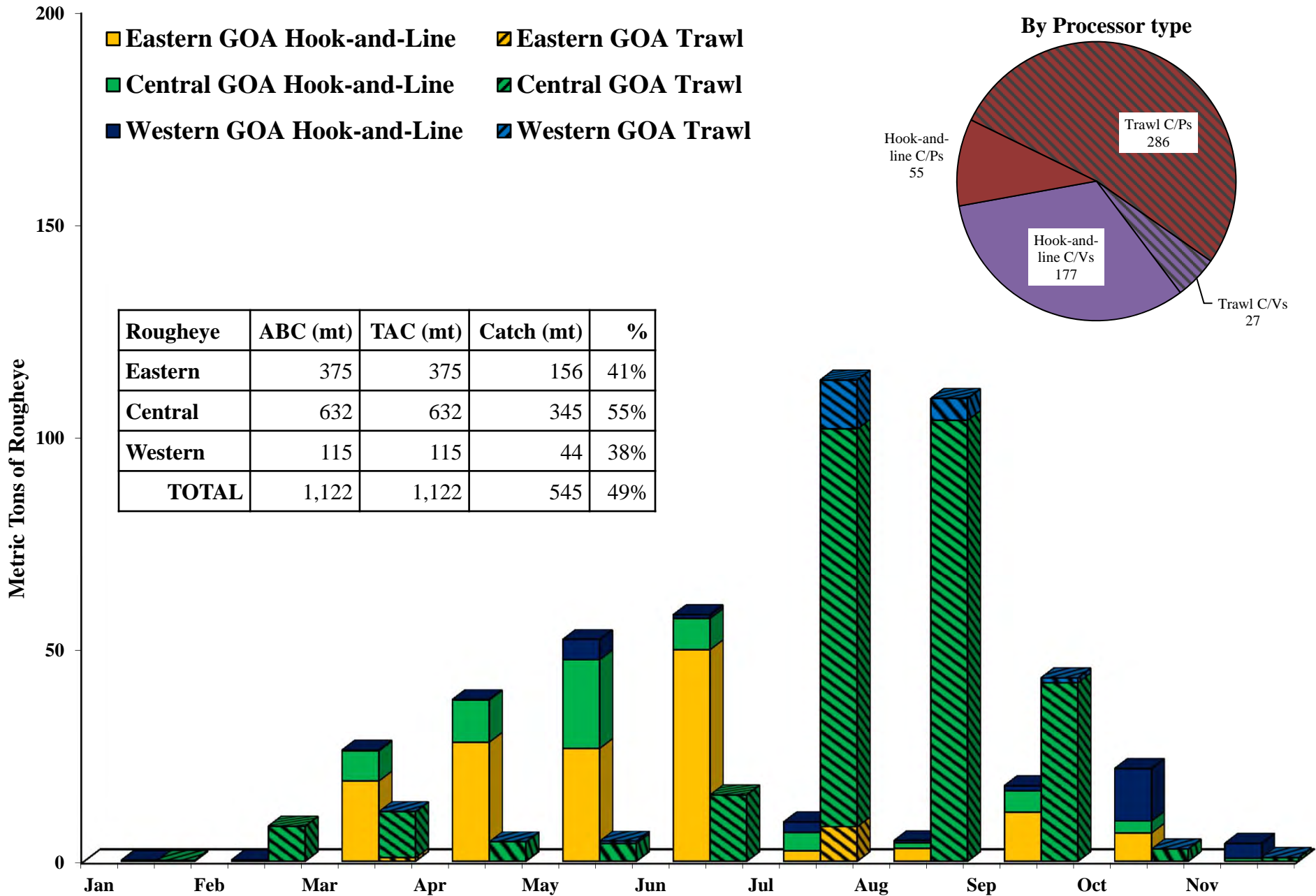


Dusky Rockfish

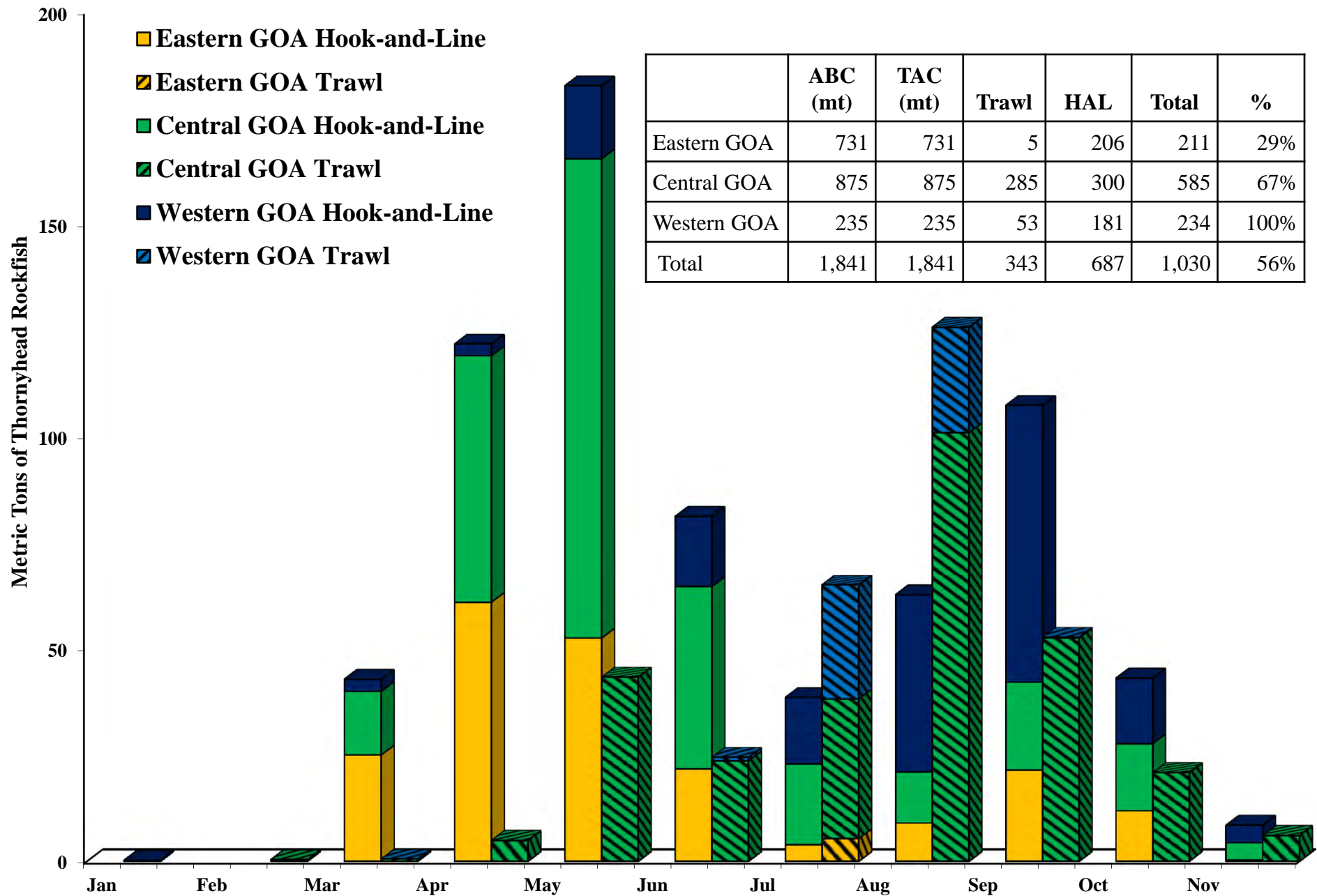
2015 GOA Shortraker Rockfish Catch



2015 GOA Rougheye Rockfish Catch



2015 GOA Thornyhead Rockfish Catch



2015 GOA Other Rockfish Catch by Gear and Target

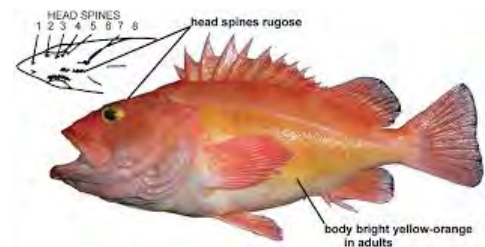
Gear	Area	TAC (mt)	Trawl	Fixed Gear	Total Catch (mt)	%
	Western/Central GOA	1,031	904	148	1,052	102%
	Central GOA		731	110	841	na
	Western GOA		174	38	212	na
	West Yakutat	580	2	31	33	6%
	SE Outside	200	0	19	19	9%
	TOTAL	1,811	898	126	1,024	57%

Target	Area	Arrowtooth Flounder & Rex Sole	IFQ	Pacific Cod	Rockfish	Other Targets
	Western/Central GOA Other Rockfish	52	87	66	846	2
	West Yakutat Other Rockfish	0	31	< 1	2	0
	SE Outside Other Rockfish	0	16	0	1	1



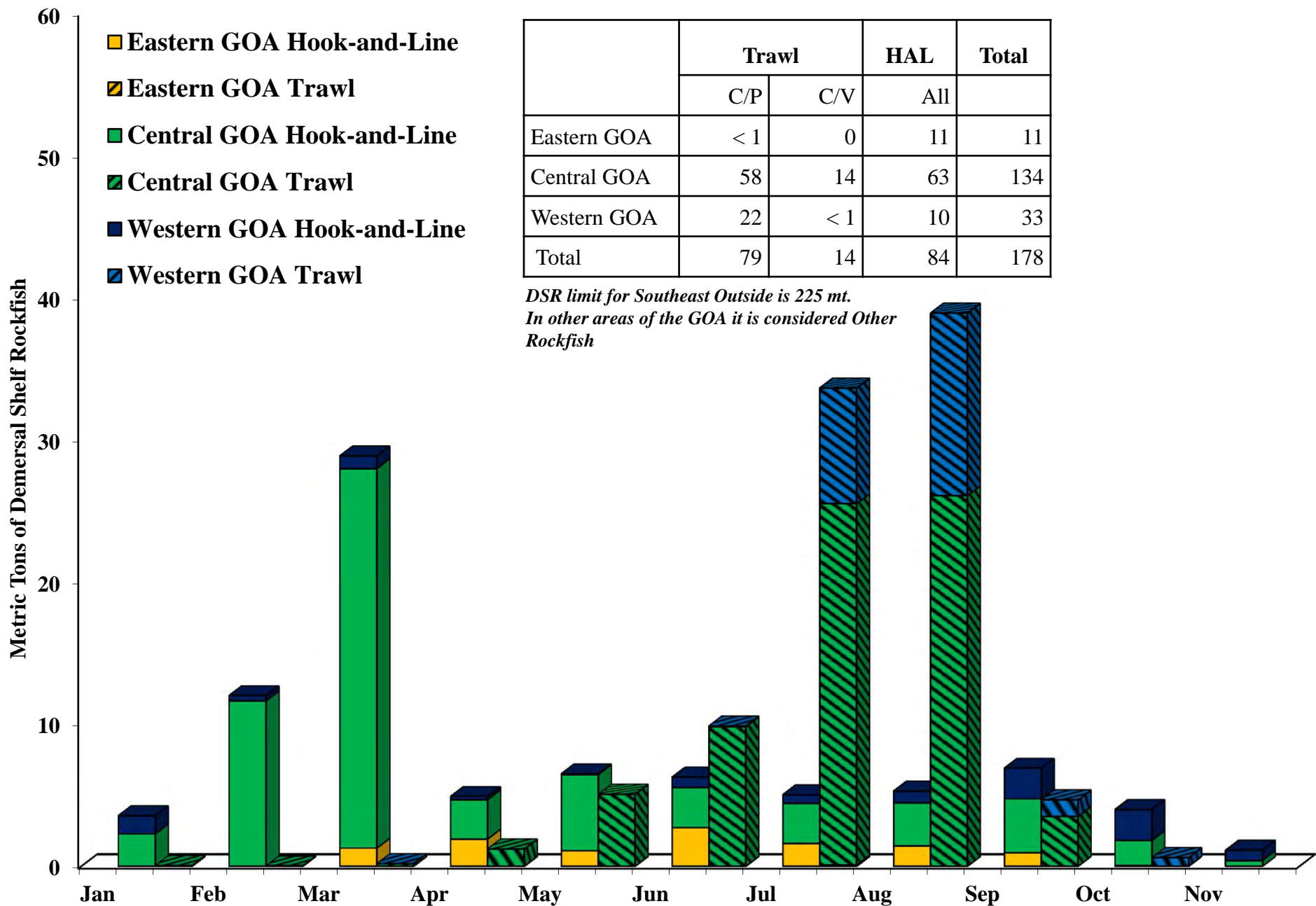
Harlequin rockfish

Predominate Species		
Trawl	Harlequin Rockfish	64%
	Sharpchin Rockfish	12%
	Yelloweye Rockfish	9%
Hook-and-Line	Yelloweye Rockfish	57%
	Quillback Rockfish	20%
	Redbanded Rockfish	12%

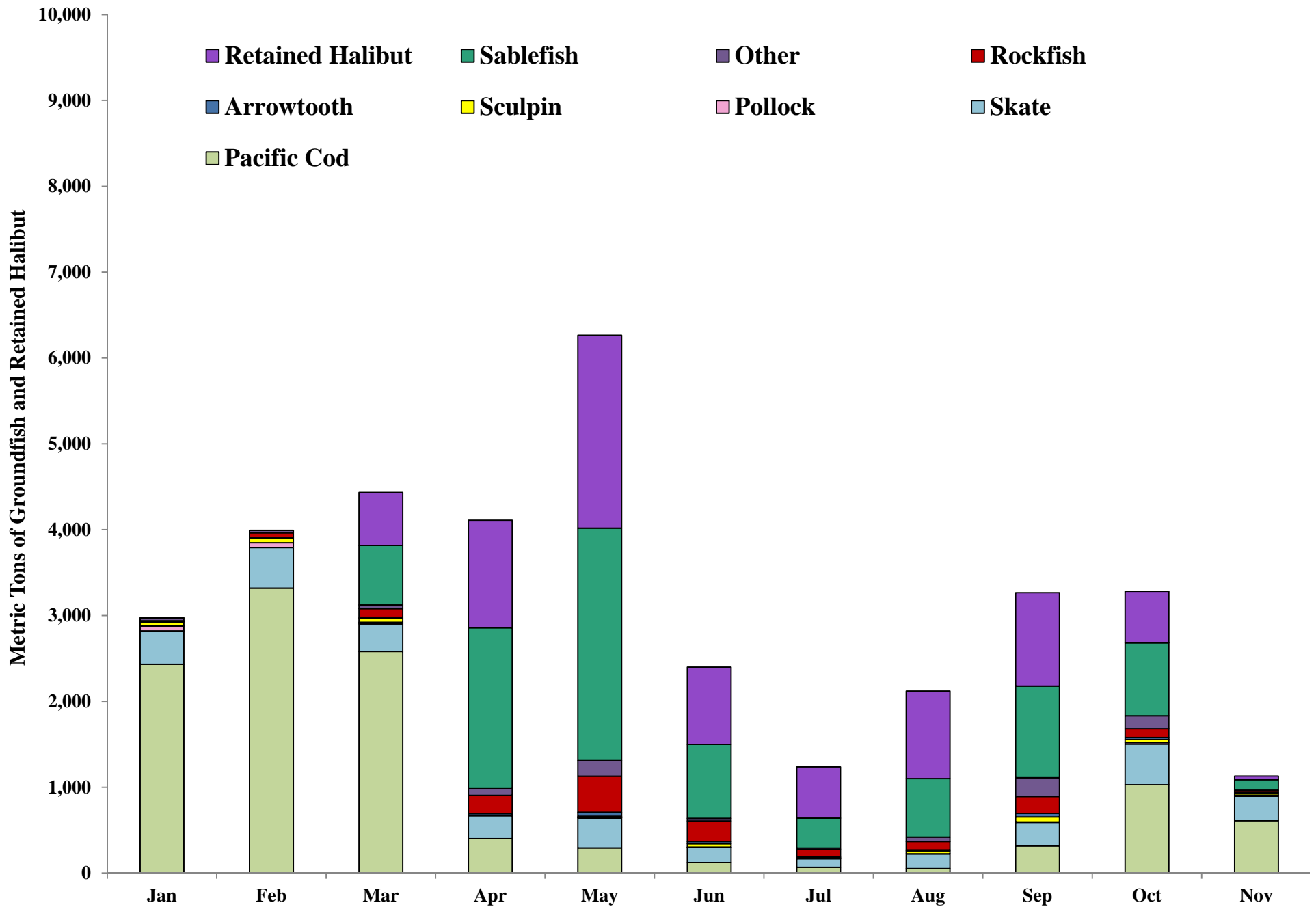


Yelloweye rockfish

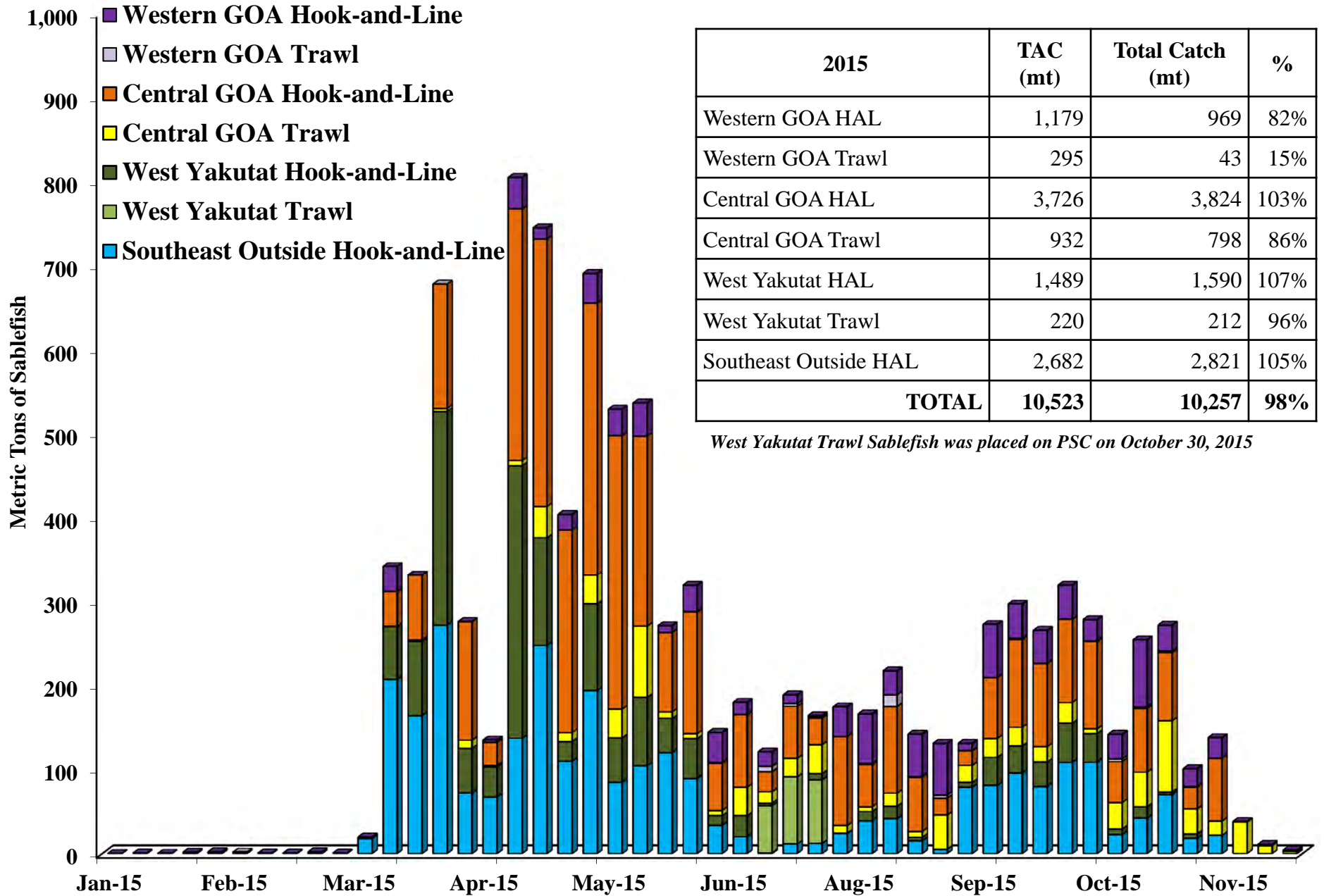
2015 GOA Demersal Shelf Rockfish Catch



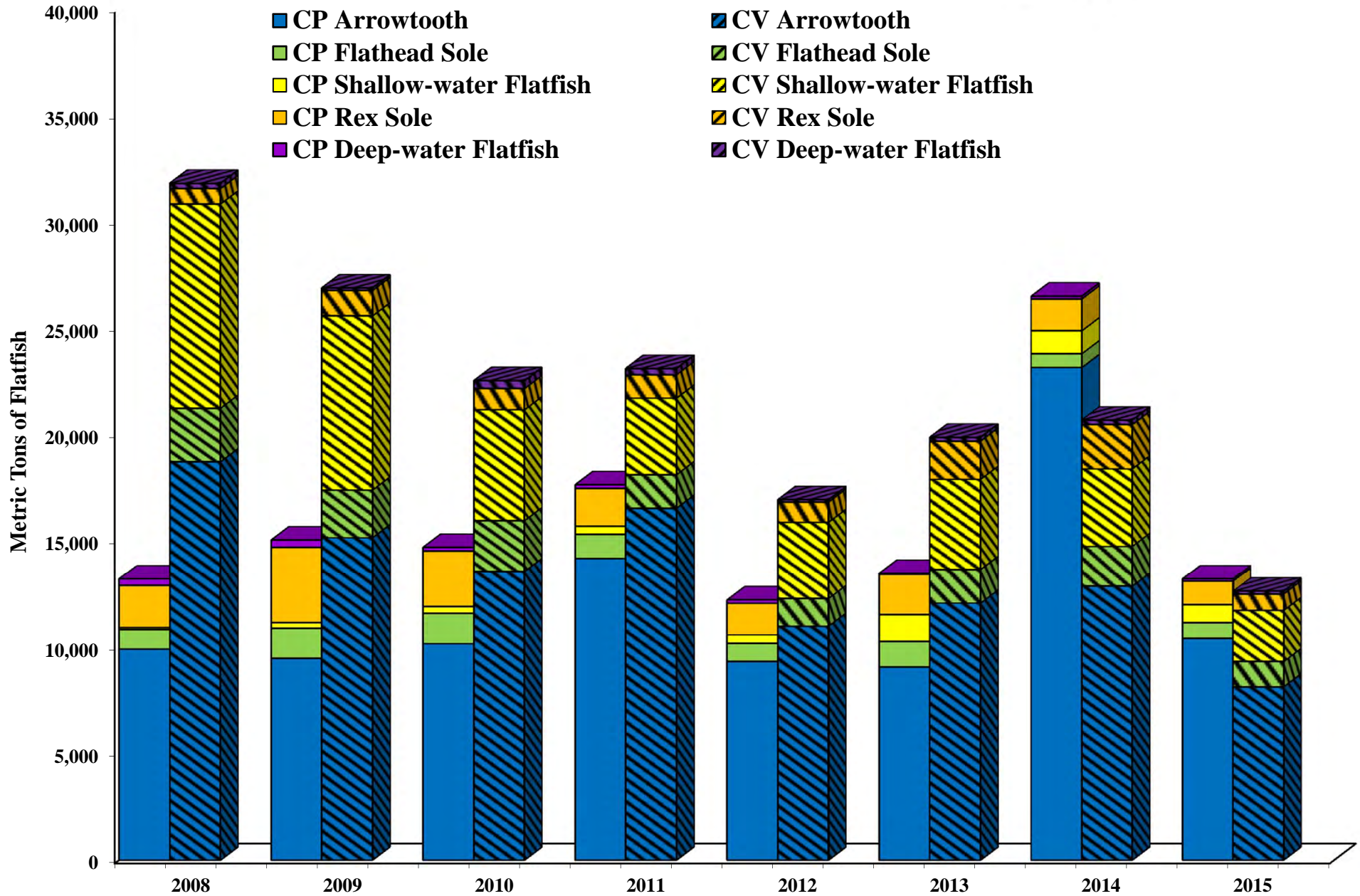
2015 GOA Hook-and-Line Catch



2015 GOA Sablefish Catch



2008-2015 GOA Trawl Flatfish Catch by Species



2015 Flatfish and Skate Catch in the GOA

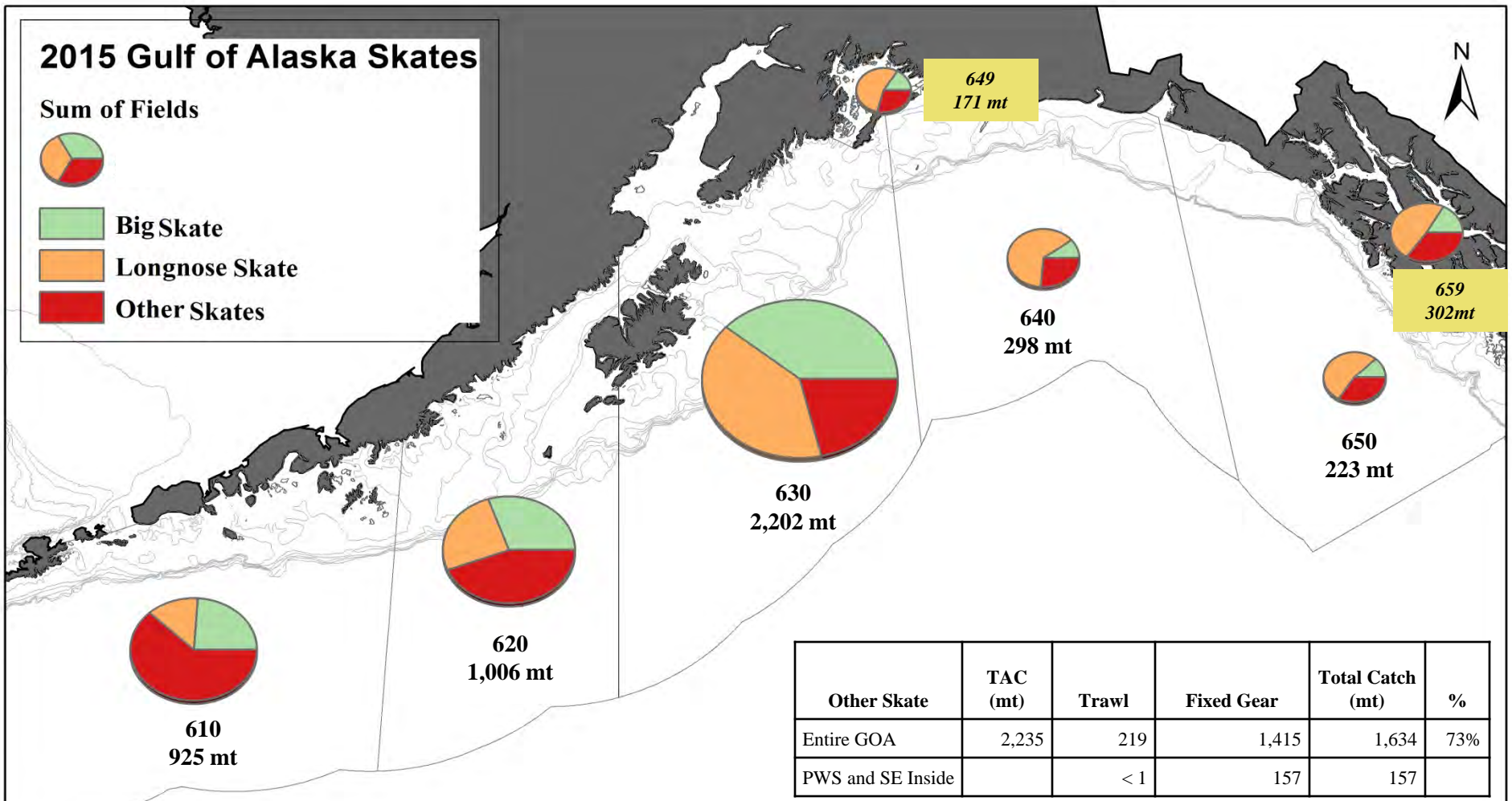
Species	Area	TAC (mt)	Total Catch (mt)	%
Arrowtooth Flounder	Central	75,000	18,287	24%
	Western	14,500	562	4%
Flathead Sole	Central	15,400	1,793	12%
	Western	8,650	199	2%
Rex Sole	Central	5,816	1,860	32%
	Western	1,258	76	6%
Shallow Water Flatfish	Central	19,297	3,019	16%
	Western	13,250	274	2%
Deep Water Flatfish	Central	3,689	194	5%
	Western	301	54	18%
Big Skate	Eastern	1,267	55	4%
	Central	1,257	1,180	94%
	Western	731	221	30%
Longnose Skate	Eastern	976	310	32%
	Central	2,090	1,109	53%
	Western	152	135	89%
Other Skate	GOA	2,235	1,589	71%

2015 Gulf of Alaska Skates

Sum of Fields



- Big Skate
- Longnose Skate
- Other Skates



Other Skate	TAC (mt)	Trawl	Fixed Gear	Total Catch (mt)	%
Entire GOA	2,235	219	1,415	1,634	73%
PWS and SE Inside		< 1	157	157	

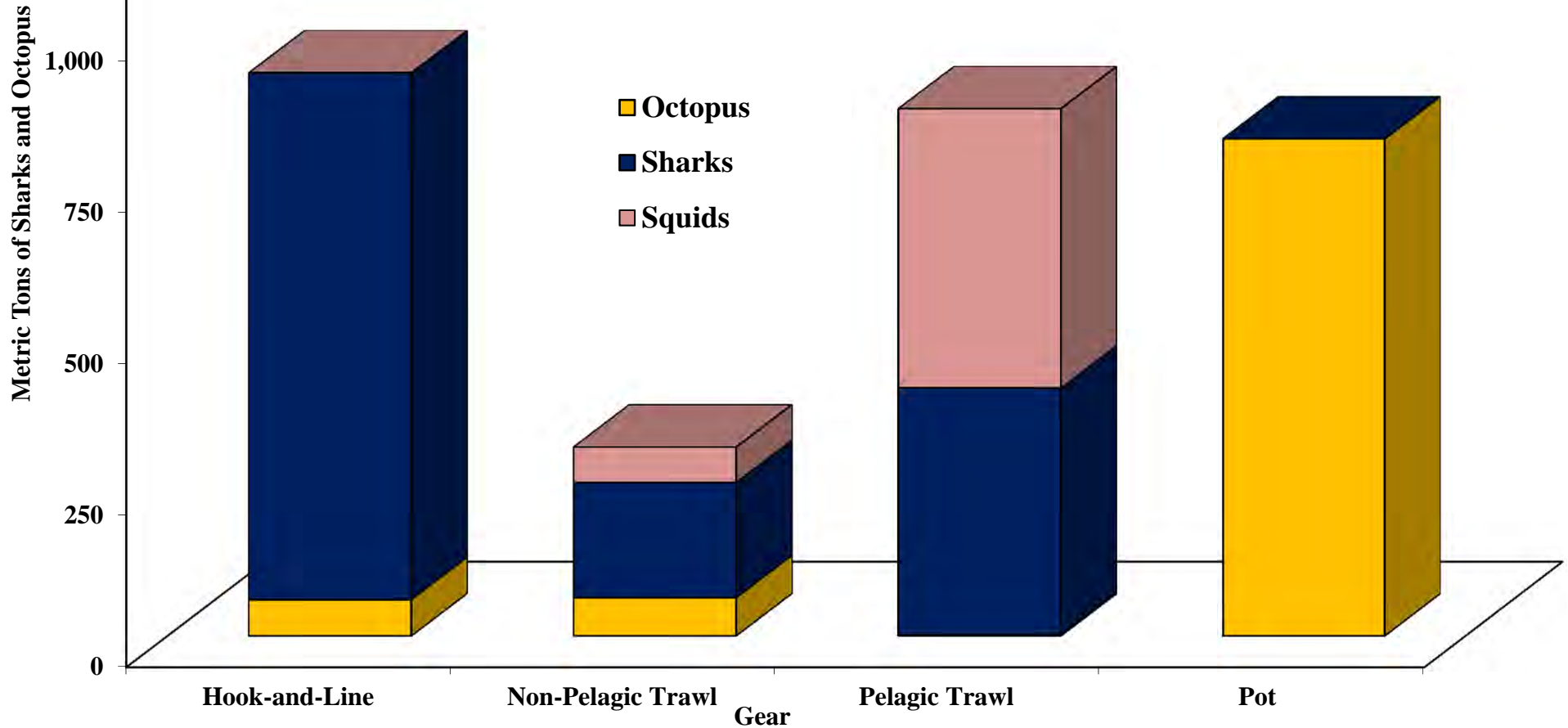
Big Skate	TAC (mt)	Trawl	Fixed Gear	Total Catch (mt)	%
Eastern GOA	1,267	0	55	55	4%
Central GOA	1,257	599	586	1,185	94%
Western GOA	731	21	200	221	30%
TOTAL	3,255	620	841	1,461	45%
PWS and SE Inside		< 1	76	76	

Longnose Skate	TAC (mt)	Trawl	Fixed Gear	Total Catch (mt)	%
Eastern GOA	976	1	309	310	32%
Central GOA	2,090	468	646	1,113	53%
Western GOA	152	9	126	135	89%
TOTAL	3,218	478	1,081	1,558	48%
PWS and SE Inside		< 1	240	240	

2015 GOA Sharks, Octopus, and Squids

Gear (catch in mt)	Salmon Sharks	Sleeper Sharks	Spiny Dogfish	Other Sharks	Octopus	Squids
Hook-and-line	0	75	782	12	60	<1
Non-Pelagic Trawl	2	20	166	<1	63	58
Pelagic Trawl	369	12	18	6	2	462
Pot	0	0	<1	0	819	0
TOTAL	371	106	966	18	943	520

2015	ABC (mt)	TAC (mt)	Total Catch (mt)	%
Octopus	1,507	1,507	934	60%
Sharks	5,989	5,989	1,589	71%
Squids	1,148	1,148	411	36%



GOA Trawl Groundfish Total Catch and Discards

2014 Trawl	Retained	Discards	% retained
Pollock	138,605	1,387	99%
Pacific Cod*	23,257	3,544	87%
Pacific Ocean Perch*	15,988	1,677	91%
Arrowtooth Flounder	32,817	3,225	91%
Northern Rockfish	4,113	151	96%
Shallow-water Flatfish	4,308	418	91%
Dusky Rockfish	2,946	77	97%
Flathead Sole	2,398	139	95%
Rex Sole	3,531	46	99%
Skates*	841	600	58%
Atka Mackerel	965	68	93%
Sablefish	888	76	92%
Other Species	82	428	16%
Other Rockfish	513	287	64%
Thornyhead Rockfish*	461	16	97%
Sculpins	37	533	7%
Rougheye Rockfish	510	26	95%
Shortraker Rockfish	317	19	94%
Deep-water Flatfish	237	105	69%
TOTAL	232,815	12,822	95%

2015 Trawl	Retained	Discards	% retained
Pollock	161,581	1,111	99%
Pacific Cod	21,428	777	97%
Pacific Ocean Perch	18,016	705	96%
Arrowtooth Flounder	17,085	1,614	91%
Northern Rockfish	3,778	164	96%
Shallow-water Flatfish	2,880	362	89%
Dusky Rockfish	2,611	96	96%
Flathead Sole	1,831	117	94%
Rex Sole	1,880	31	98%
Skates*	534	763	41%
Atka Mackerel	893	309	74%
Sablefish*	863	186	82%
Other Species	357	692	34%
Other Rockfish*	415	485	46%
Thornyhead Rockfish	315	28	92%
Sculpins	9	314	3%
Rougheye Rockfish	306	7	98%
Shortraker Rockfish	265	13	95%
Deep-water Flatfish	110	127	47%
TOTAL	235,159	7,899	97%

* Species placed on Prohibited Species Status (see Prohibited species status slide)

GOA Hook-and-Line Groundfish Total Catch and Discards

2014

Hook-and-line Gear	Retained	Discards	% retained
Pacific Cod	13,040	1,370	90%
Sablefish	9,022	436	95%
Skates	547	3,170	15%
Sharks	0	1,201	0%
Thornyhead	469	185	72%
Sculpins	1	386	0%
Shortraker Rockfish	125	224	36%
Other Species	148	162	48%
Rougheye Rockfish	100	101	50%
Other Rockfish	70	140	33%
Arrowtooth Flounder	12	238	5%
Demersal Shelf Rockfish	93	9	91%
Other Flatfish	0	50	0%
TOTAL	23,627	7,671	75%

Pot Gear	Retained	Discards	% retained
Pacific Cod	19,745	211	99%
Octopus	509	625	45%
Other Species	36	262	12%
TOTAL	20,290	1,098	95%

2015

Hook-and-line Gear	Retained	Discards	% retained
Pacific Cod	10,637	597	95%
Sablefish	8,652	551	94%
Skates	604	2,674	18%
Sharks	0	735	0%
Thornyhead	475	213	69%
Sculpins	1	379	0%
Shortraker Rockfish	124	168	42%
Other Species	138	99	58%
Rougheye Rockfish	107	125	46%
Other Rockfish	102	113	47%
Arrowtooth Flounder	22	188	10%
Demersal Shelf Rockfish	97	4	96%
Other Flatfish	0	51	0%
TOTAL	20,956	5,897	78%

Pot Gear	Retained	Discards	% retained
Pacific Cod	18,230	220	99%
Octopus	333	469	42%
Other Species	46	308	13%
TOTAL	18,609	998	95%

* Species placed on Prohibited Species Status (see Prohibited species status slide)

GOA Groundfish Species placed on Prohibited Species Status

2014	Prohibit retention
Big Skate in the Central GOA	5-Feb-14
Pacific Ocean Perch ICA in Central GOA	19-Aug-14
Pacific Cod by Trawl Catcher Processors in Central GOA	19-Aug-14
Thornyhead Rockfish in the Western GOA	13-Nov-14
2015	
Big Skate in the Central GOA	11-Feb-15
Other Rockfish in Central GOA	30-Sep-15
Other Rockfish in Western GOA	30-Sep-15
Trawl Sablefish in West Yakutat District	30-Oct-15



2015 GOA Salmon, Crab, and Herring PSC

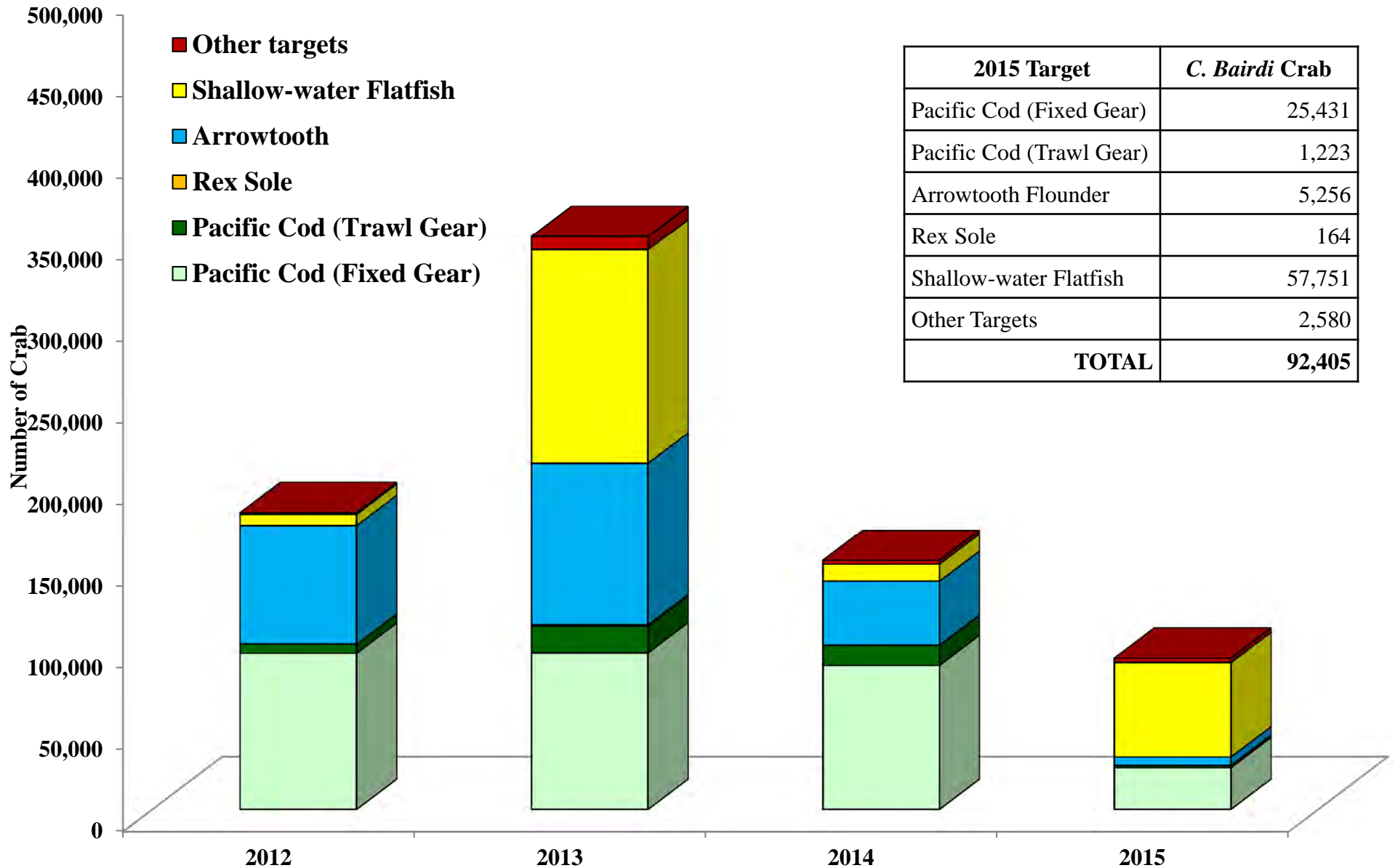
Chinook Salmon	Total Catch	Limit	%
Pollock Western GOA (#)	4,119	6,684	62%
Pollock Central GOA (#)	8,915	18,316	49%
Pollock 640 (#)	19	<i>na</i>	<i>na</i>
Catcher Vessel Non-pollock/ Non-Rockfish Program (#)	2,870	2,700	106%
Catcher Vessel Non-pollock / Non-Rockfish Program Emergency Rule (#)	12	1,600	1%
Catcher Vessel Rockfish Program (#)	1,784	1,200	149%
Catcher Processors (#)	696	3,600	19%
Non-trawl Gear (#)	26	<i>na</i>	<i>na</i>
TOTAL (#)	18,441	<i>na</i>	<i>na</i>

Other PSC Species	Total Catch	Limit	%
Non-Chinook Salmon (#)	1,929	<i>na</i>	<i>na</i>
Trawl Bairdi Tanner (#)	66,644	<i>na</i>	<i>na</i>
Fixed Gear Bairdi Tanner (#)	25,835	<i>na</i>	<i>na</i>
Red King Crab (#)	21	<i>na</i>	<i>na</i>
Golden King Crab (#)	184	<i>na</i>	<i>na</i>
Herring (mt)	76	<i>na</i>	<i>na</i>

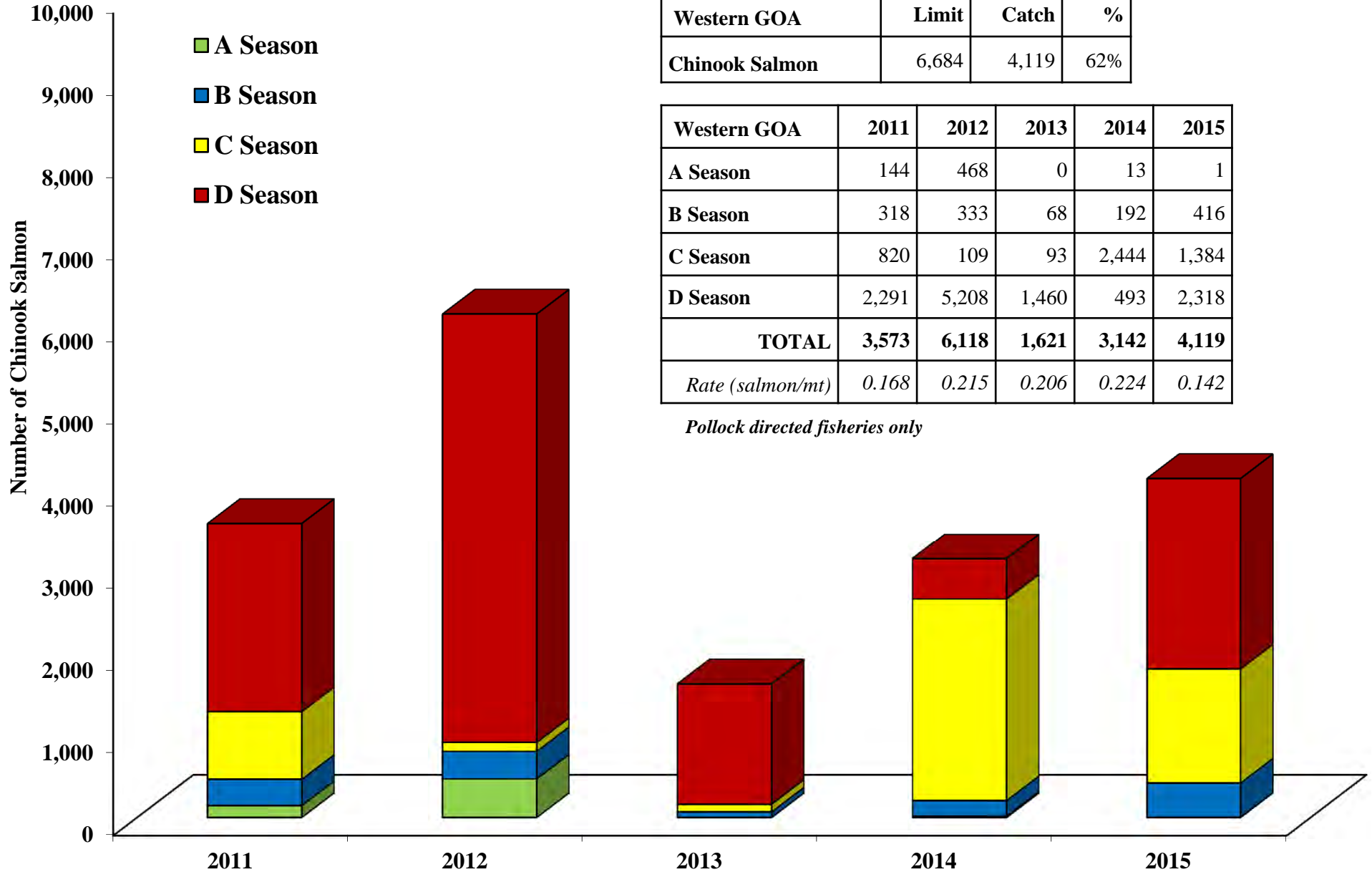


Crab and Salmon PSC is reported in number of animals

2012-2015 GOA *C. Bairdi* Tanner Crab Incidental Catch by Target



Chinook Salmon PSC in Western GOA Pollock Fisheries



Western GOA	Limit	Catch	%
Chinook Salmon	6,684	4,119	62%

Western GOA	2011	2012	2013	2014	2015
A Season	144	468	0	13	1
B Season	318	333	68	192	416
C Season	820	109	93	2,444	1,384
D Season	2,291	5,208	1,460	493	2,318
TOTAL	3,573	6,118	1,621	3,142	4,119
<i>Rate (salmon/mt)</i>	<i>0.168</i>	<i>0.215</i>	<i>0.206</i>	<i>0.224</i>	<i>0.142</i>

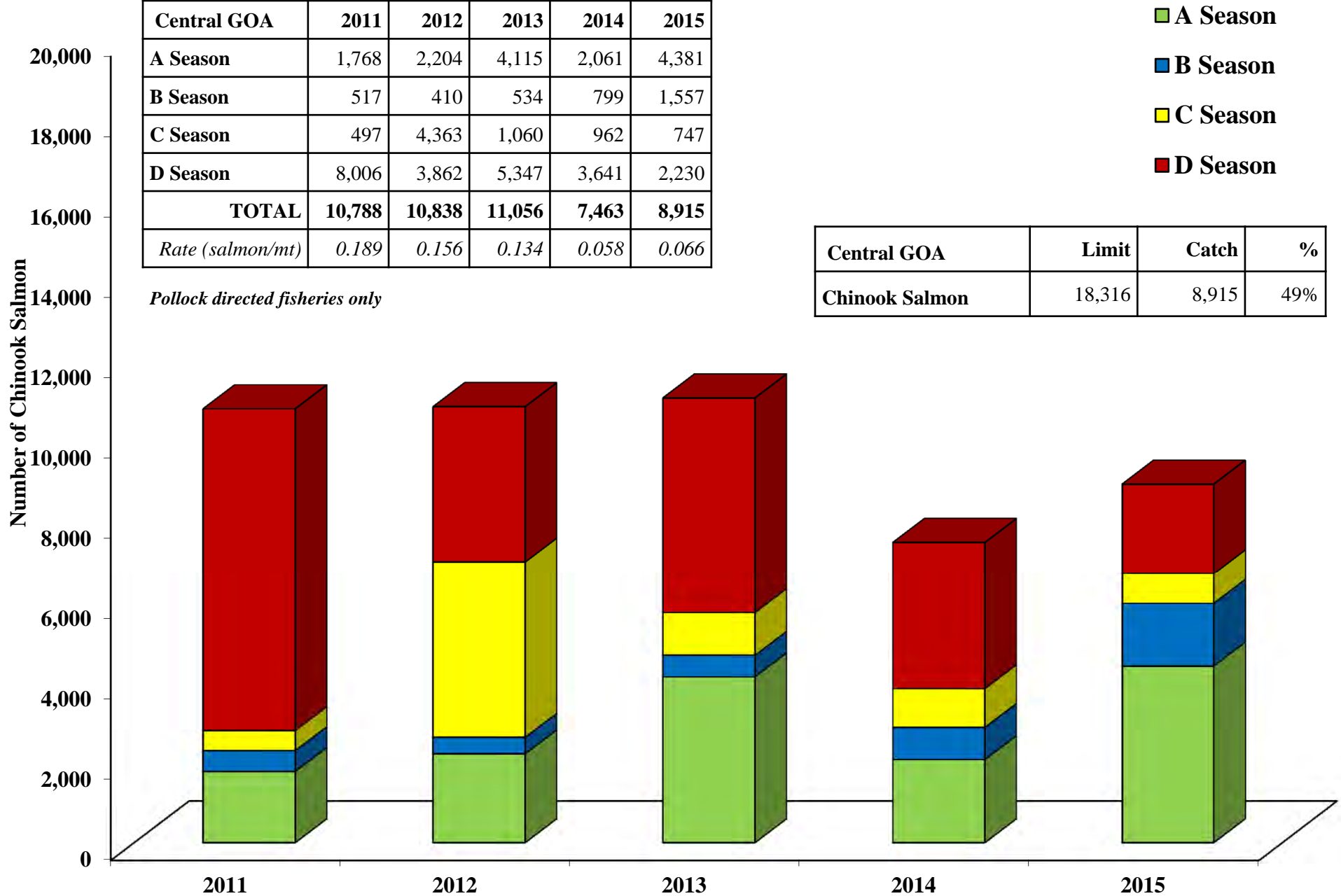
Pollock directed fisheries only

Chinook Salmon PSC in Central GOA Pollock Fisheries

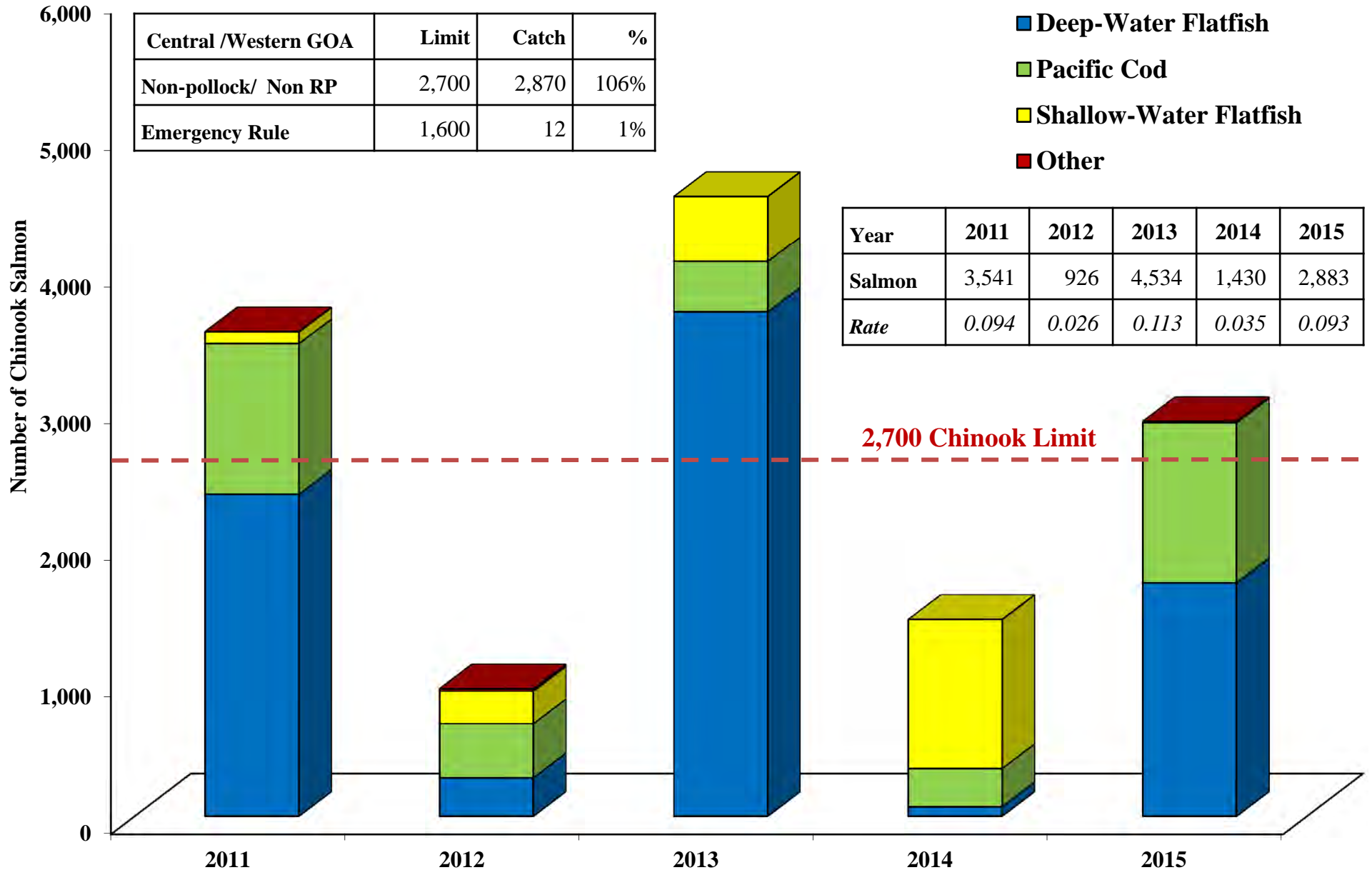
Central GOA	2011	2012	2013	2014	2015
A Season	1,768	2,204	4,115	2,061	4,381
B Season	517	410	534	799	1,557
C Season	497	4,363	1,060	962	747
D Season	8,006	3,862	5,347	3,641	2,230
TOTAL	10,788	10,838	11,056	7,463	8,915
<i>Rate (salmon/mt)</i>	<i>0.189</i>	<i>0.156</i>	<i>0.134</i>	<i>0.058</i>	<i>0.066</i>

Pollock directed fisheries only

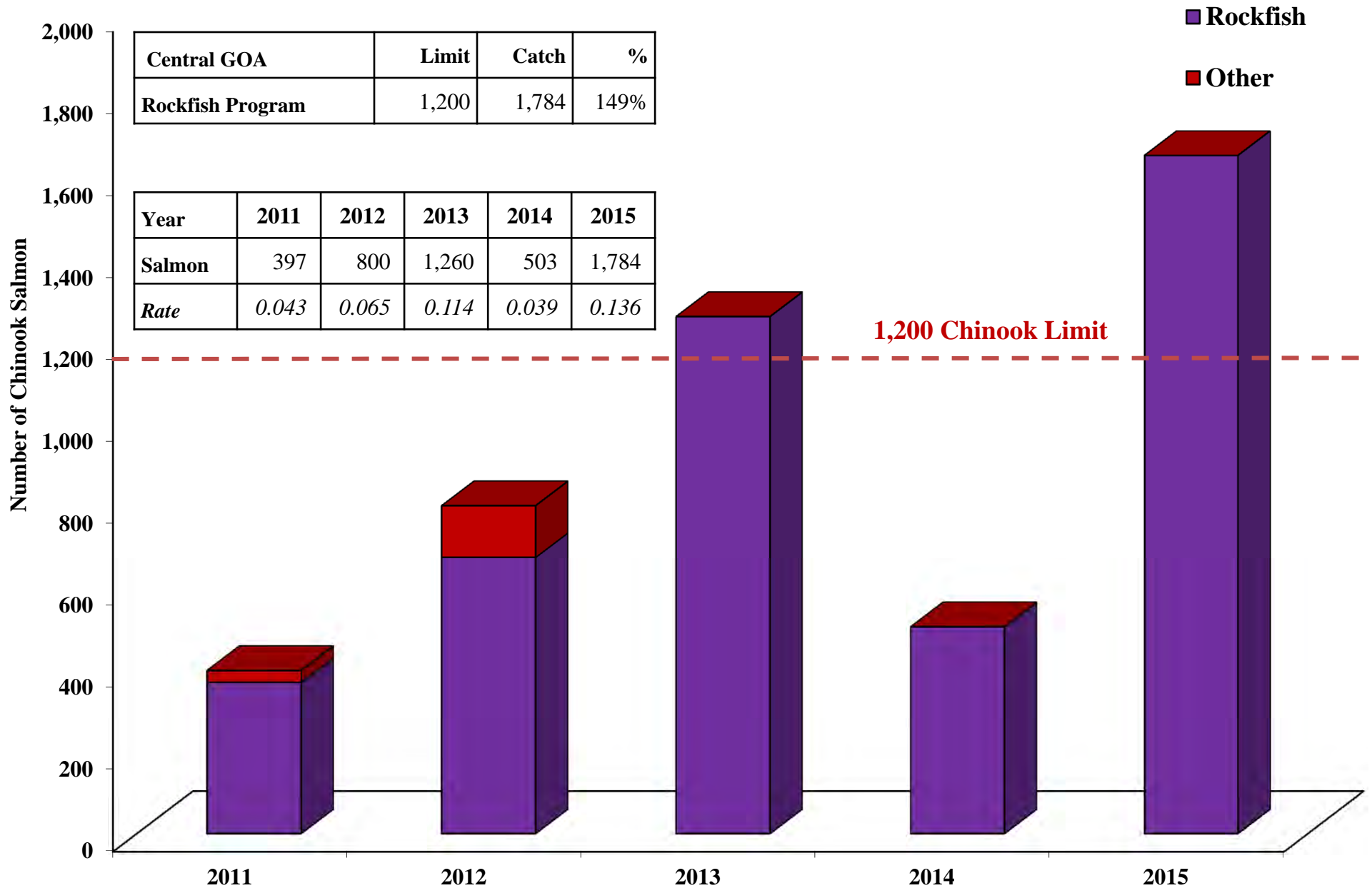
Central GOA	Limit	Catch	%
Chinook Salmon	18,316	8,915	49%



Chinook Salmon PSC in Non-Pollock / Non-Rockfish Program Fisheries



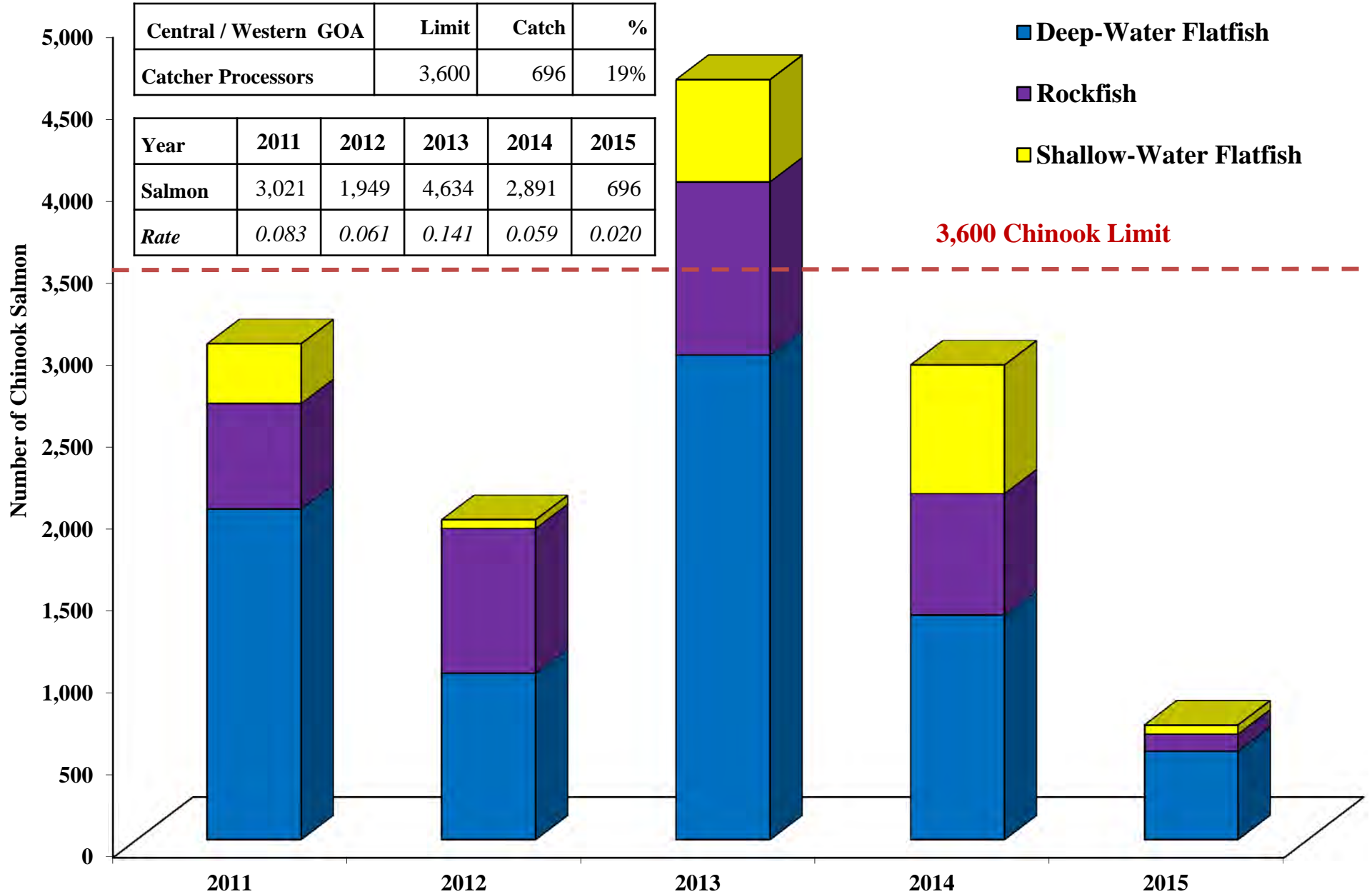
Chinook Salmon PSC in Rockfish Program



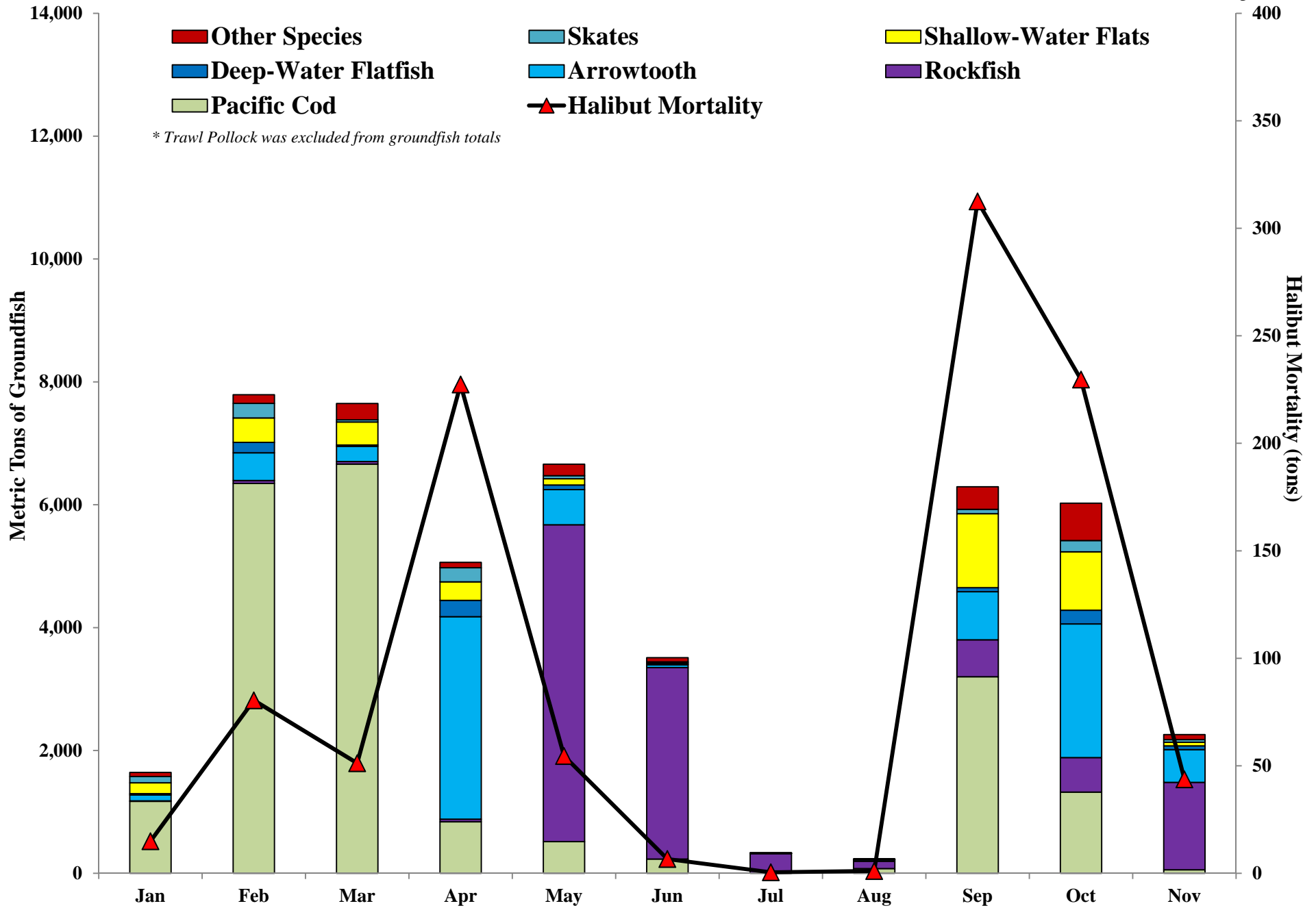
Chinook Salmon PSC by Catcher Processors

Central / Western GOA	Limit	Catch	%
Catcher Processors	3,600	696	19%

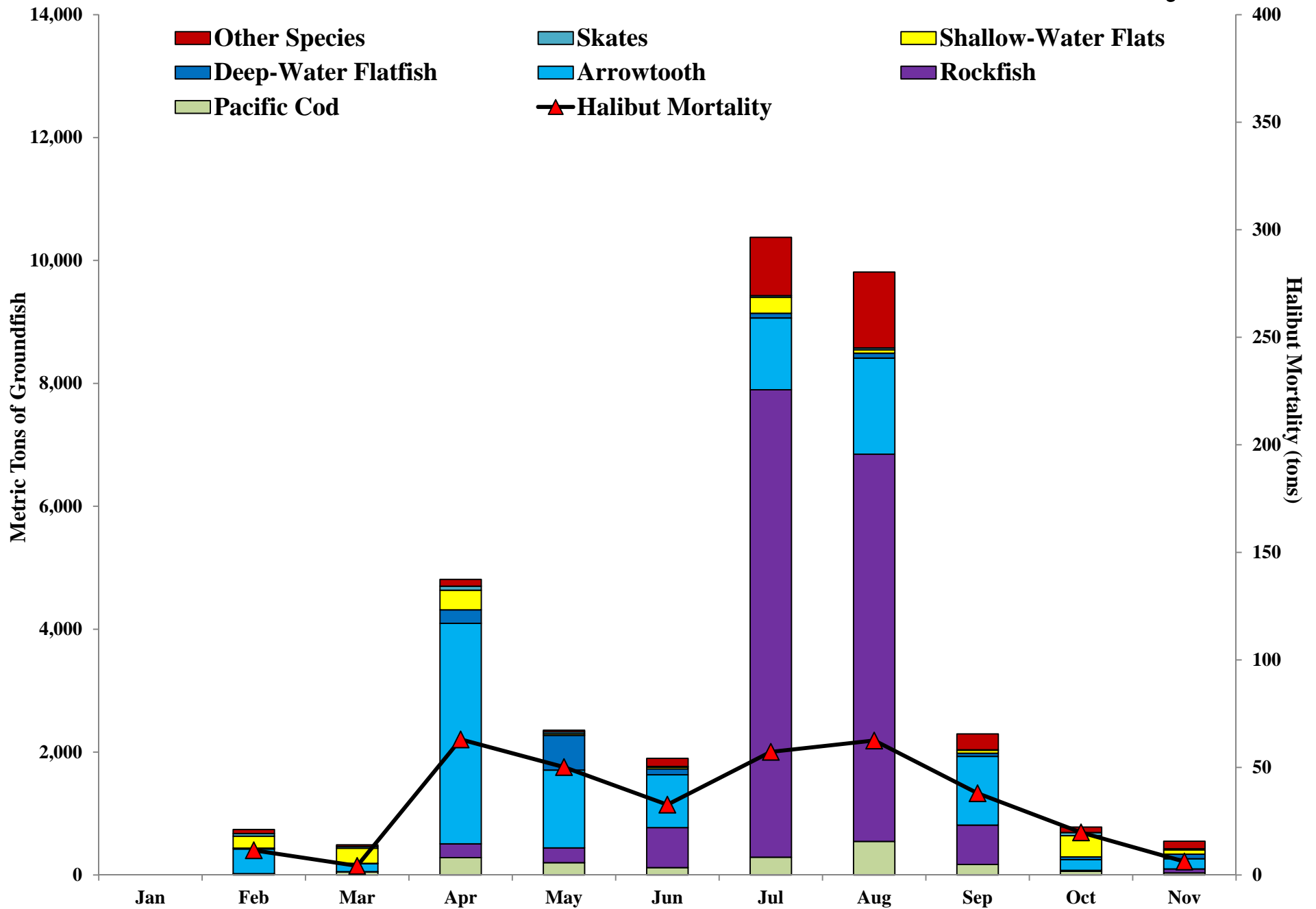
Year	2011	2012	2013	2014	2015
Salmon	3,021	1,949	4,634	2,891	696
Rate	0.083	0.061	0.141	0.059	0.020



2015 GOA Shoreside Trawl Catch and Halibut Mortality



2015 GOA CP Trawl Catch and Halibut Mortality



2015 Trawl Halibut Mortality

	Season	Start Date	End Date	Limit (mt)	Total Mortality (mt)	%
Deep Water Complex	1	Jan 20	Apr 1	35	34	97%
	2	Apr 1	Jul 1	375	372	99%
	3	Jul 1	Sep 1	161	72	45%
	4	Sep 1	Sep 30	0	24	n/a
	TOTAL			571	503	88%
	Shallow Water Complex					
	Season					
	1	Jan 20	Apr 1	135	132	98%
	2	Apr 1	Jul 1	291	35	12%
	3	Jul 1	Sep 1	176	4	2%
	4	Sep 1	Sep 30	132	323	245%
TOTAL			734	494	67%	
Rockfish Program				191	96	50%
Fall Halibut Allocation						
		Oct 1	Nov 1	263	300	114%
Total Halibut Mortality				1,759	1,393	79%

2015 GOA Halibut Catch

Hook-and-Line Halibut (mt)	Retained	Discard*	% Discarded	Mortality**	Limit	%
IFQ Halibut Fishery	7,494	6,336	46%	1,014	na	na
IFQ Sablefish Fishery	815	728	47%	80	na	na
Pacific Cod \ Other Targets	52	1,770	97%	201	261	77%
TOTAL	8,362	8,834	53%	1,295	na	na



All Catch, retained and discarded is in round weight metric tons

* Halibut discards are based on best available information collected by the North Pacific Observer program. Methods used by observers may overestimate total discards because average weights contain both retained and discarded halibut.

**Halibut Mortality rate in IFQ Halibut is 16%,

Gilroy, H.L. 2012. Incidental mortality of halibut in the commercial halibut fishery (Wastage). Int.

Pac. Halibut Comm. Report of Assessment and Research Activities

IFQ Sablefish and Pacific cod halibut mortality rate is 11%.

Trawl Halibut (mt)	Total Discard	Mortality	Mortality Limit	%
Pollock	178	108	1,759	8%
Pacific Cod	776	481		35%
Rockfish \ Sablefish	161	106		8%
Arrowtooth Flounder	771	563		40%
Deep Water Flatfish	41	28		2%
Shallow Water Flatfish	159	107		8%
TOTAL	2,086	1,393	1,759	79%

2015 GOA Reduction in Halibut Mortality (5 year Avg)

Sector	2010-2014 Average (mt)	2015 (mt)	% Change	2010-2014 Rate*	2015 Rate*	% Change
Hook-and-line						
Catcher/Processors	84	66	-21%	11.76	10.04	-15%
Catcher Vessels	123	135	9%	11.56	16.71	44%
Total	208	201	-3%	11.84	13.70	16%
Trawl Catcher Vessels						
Central GOA Catcher Vessels (NPT)	1,031	974	-5%	20.85	24.17	16%
Western GOA Catcher Vessels (NPT)	64	47	-26%	12.21	6.35	-48%
Pelagic Trawl Catcher Vessels	13	14	8%	0.16	0.08	-46%
Total	1,107	1,035	-7%	7.61	4.85	-36%
Trawl Catcher/Processors						
Total	459	358	-22%	12.49	10.36	-17%
All Sectors						
TOTAL	1,774	1,595	-10%	8.83	6.07	-31%

* Rate is kg of halibut / mt of groundfish

2015 GOA Reduction in Halibut Mortality (2014)

Sector	2014 (mt)	2015 (mt)	% Change	2014 Rate*	2015 Rate*	% Change
Hook-and-line						
Catcher/Processors	77	66	-14%	11.39	10.04	-12%
Catcher Vessels	119	135	13%	10.74	16.71	56%
Total	196	201	3%	10.99	13.70	25%
Trawl Catcher Vessels						
Central GOA Catcher Vessels (NPT)	819	974	19%	14.81	24.17	63%
Western GOA Catcher Vessels (NPT)	70	47	-32%	9.16	6.35	-31%
Pelagic Trawl Catcher Vessels	1	14	864%	0.01	0.08	693%
Total	890	1,035	16%	4.47	4.85	9%
Trawl Catcher/Processors						
Total	502	358	-29%	10.28	10.36	1%
All Sectors						
TOTAL	1,589	1,595	0%	5.97	6.07	2%

* Rate is kg of halibut / mt of groundfish

Acknowledgements

(BSAI and GOA)

Industry Reports:

Catcher vessels

- 1,381 unique vessels with approximately 15,630 landings to 65 unique processors

Catcher processors

- 72 unique vessels fishing approximately 13,000 vessel days

Observer Program

- 40 FMA staff
- 909 contracts of observers

Elandings Team

- ADF&G, IPHC and Enforcement

Inseason Staff

- Mary Furuness
- Josh Keaton
- Obren Davis
- Steve Whitney (A80, Rockfish, CDQ)
- Krista Milani (Dutch Harbor)

Information Services

- 8 Application Development Staff
- 7 Contractors
- Steve Lewis (Analytical Team)

Permits Staff

- Restricted Access Management

Catch accounting Staff

- Jennifer Mondragon
- Jason Gasper
- Cathy Tide
- Jennifer Watson (Scales)
- Suja Hall (Elandings)
- Bill Donaldson (Kodiak)