



NOAA
FISHERIES

Alaska Region

Gulf of Alaska Inseason Management Report

December 2016

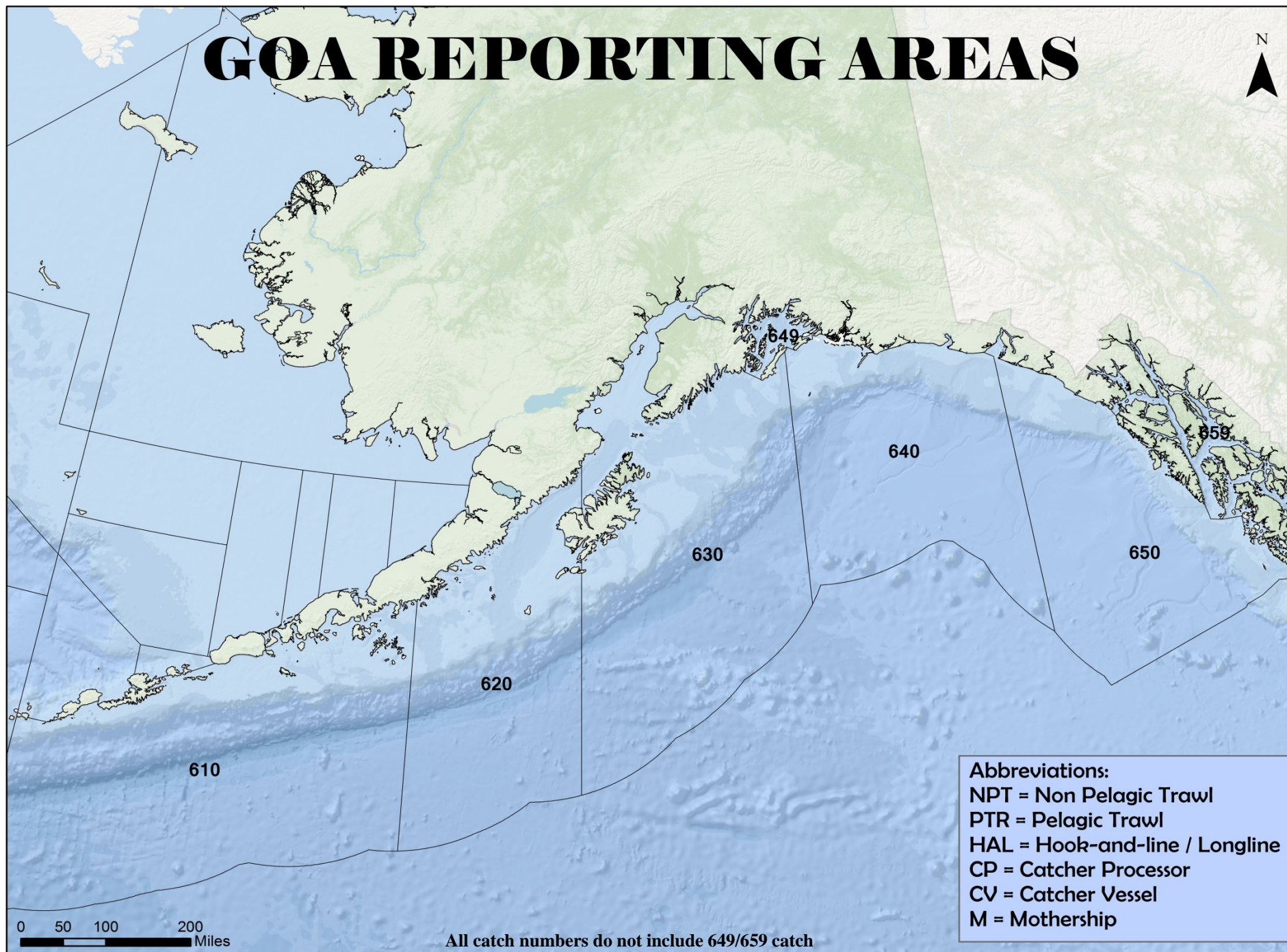
Catch data are through November 12, 2016

Management reports can be found at:

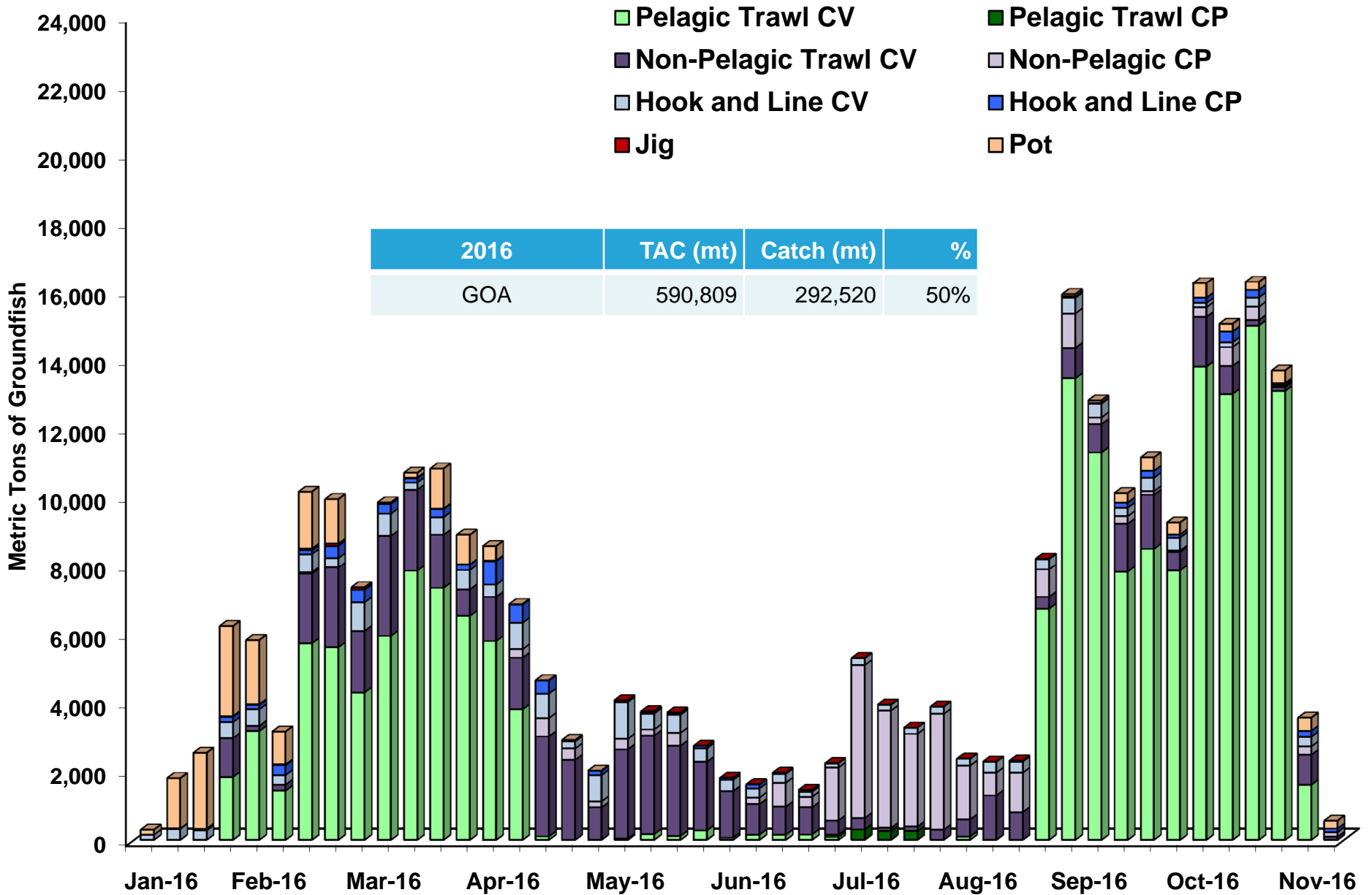
<https://alaskafisheries.noaa.gov/fisheries-data-reports?tid=286>

Report Prepared by:
Josh Keaton
November 2016

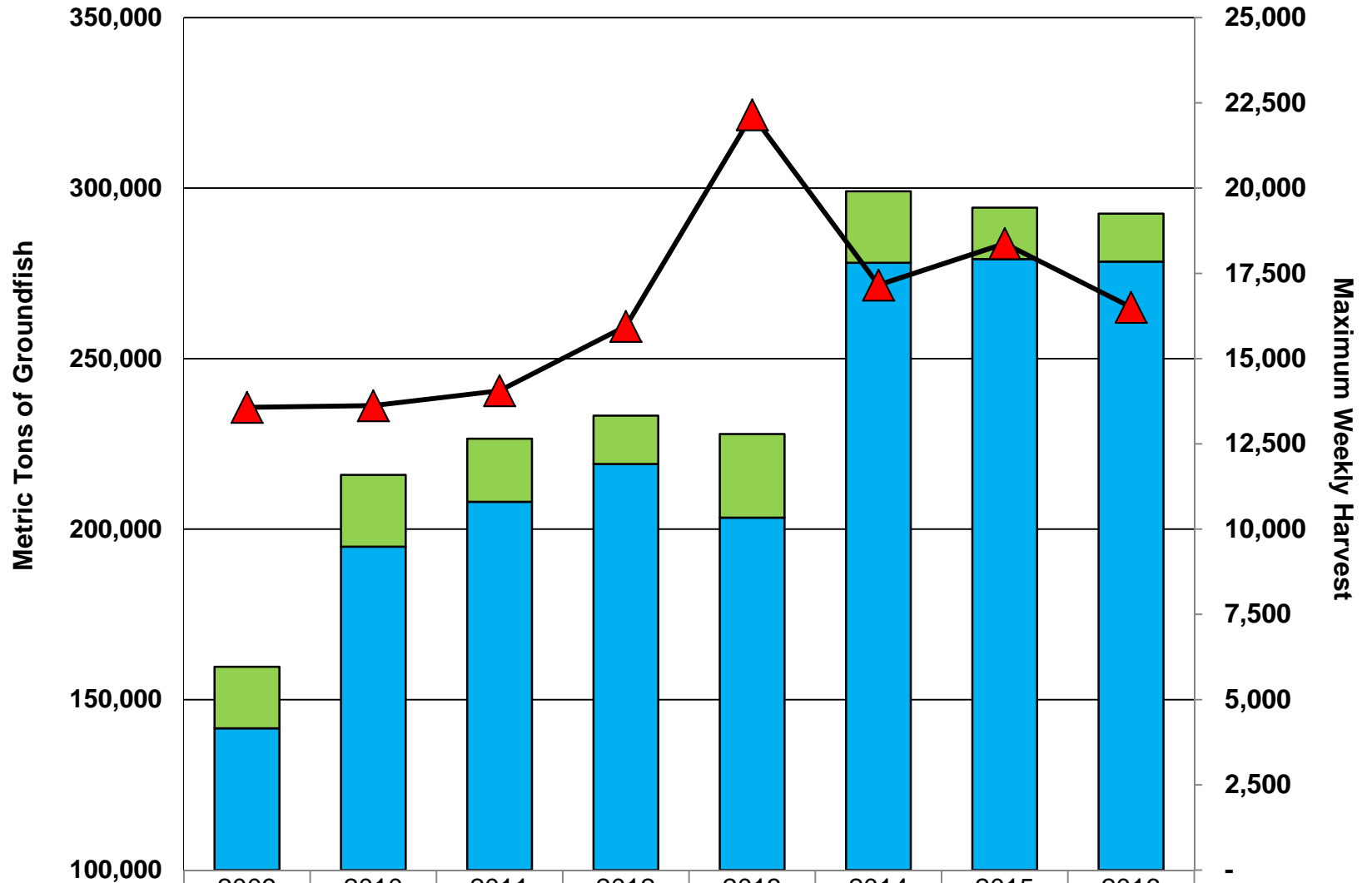
GOA REPORTING AREAS



2016 GOA Total Groundfish Catch by Gear and Sector

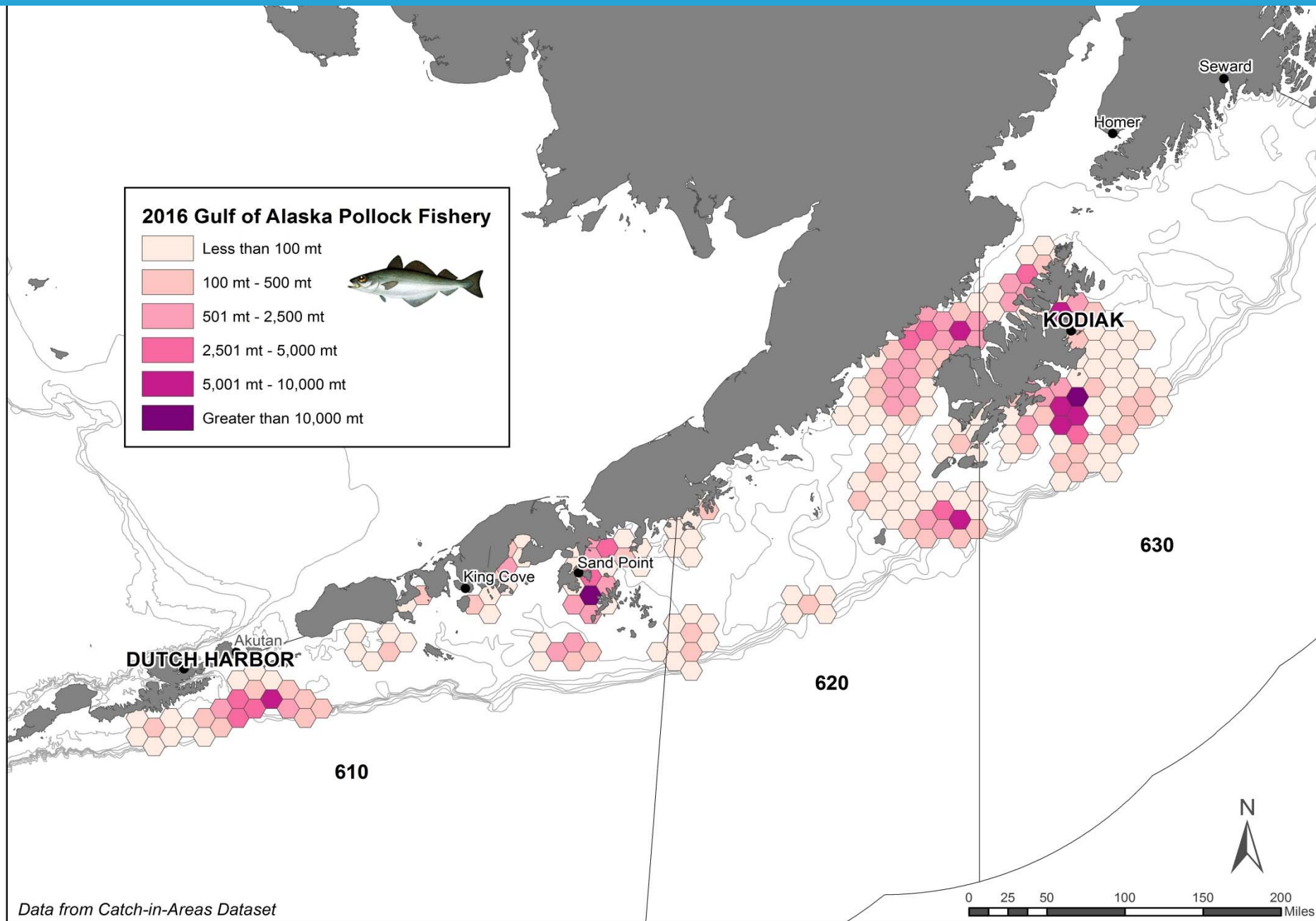


GOA Total Groundfish Catch and Maximum Weekly Harvest



Discarded Catch	18,028	21,052	18,491	14,179	24,549	20,956	15,075	14,057
Retained Catch	141,591	194,842	208,021	219,117	203,354	278,128	279,204	278,463
Maximum Weekly Harvest	13,571	13,619	14,060	15,948	22,150	17,159	18,375	16,506

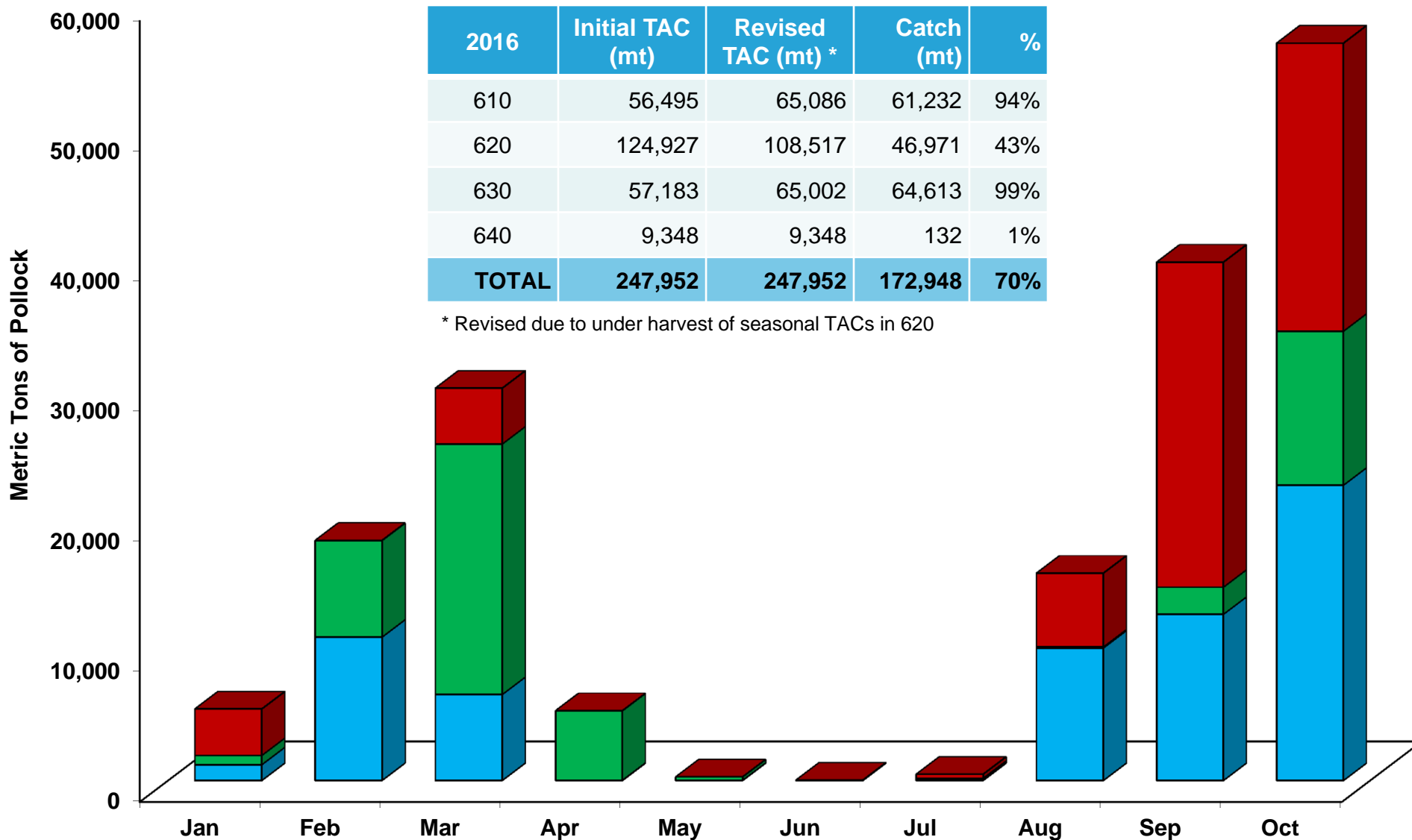
2016 Gulf of Alaska Pollock Directed Fishery



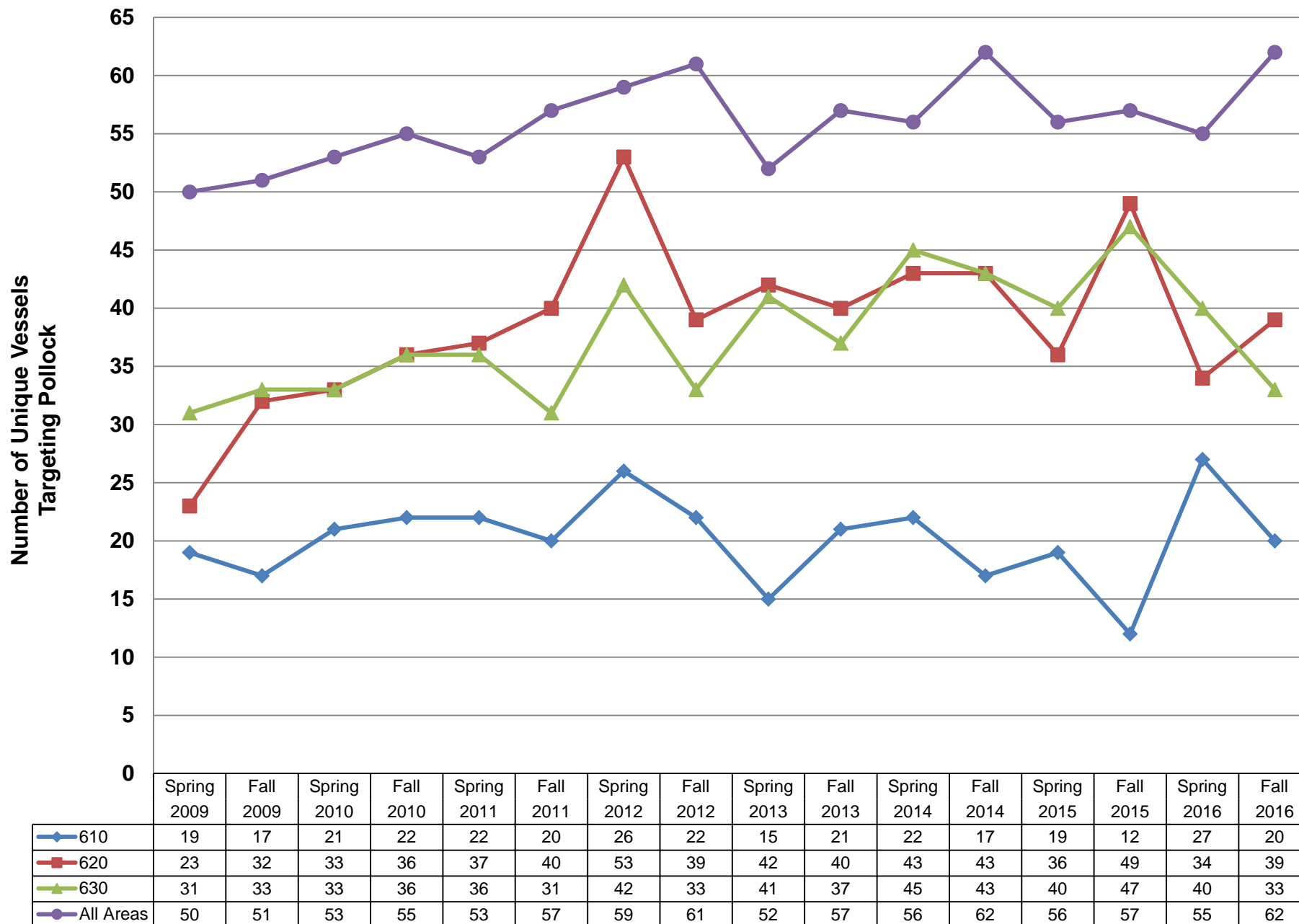
Data from Catch-in-Areas Dataset

2016 Pollock Catch in the GOA

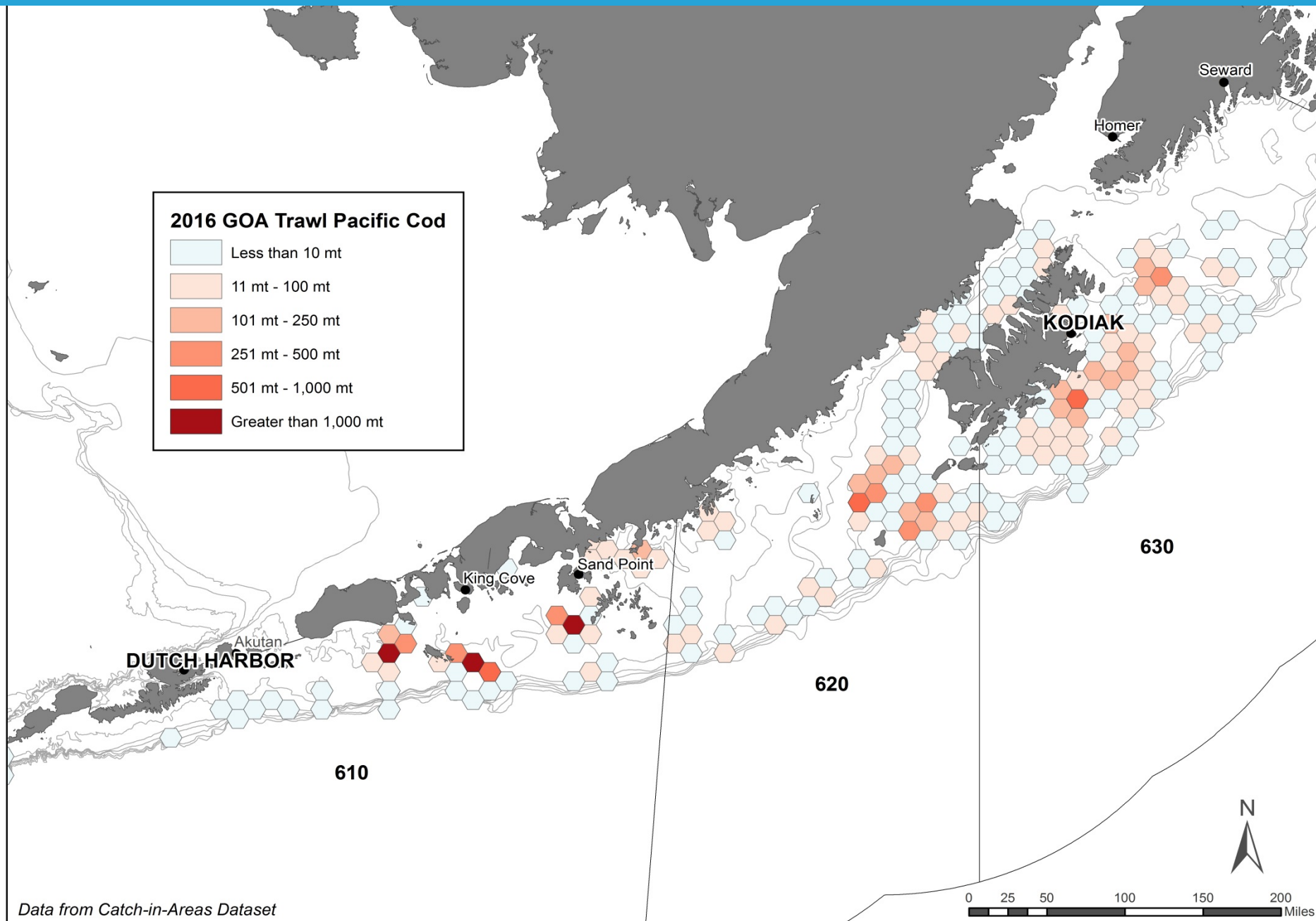
■ 610
 ■ 620
 ■ 630
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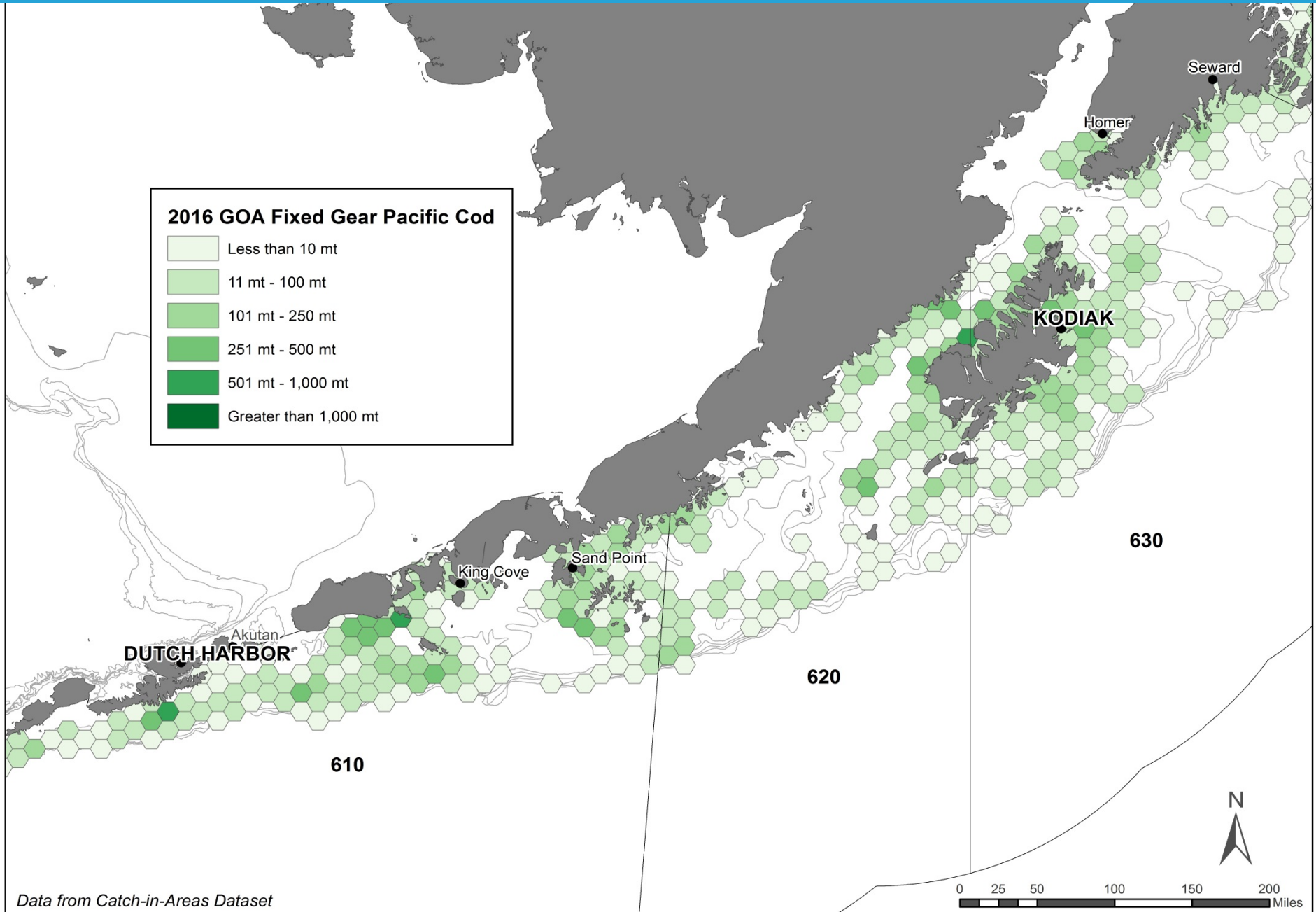
2009 – 2016 Counts of Vessels Targeting GOA Pollock



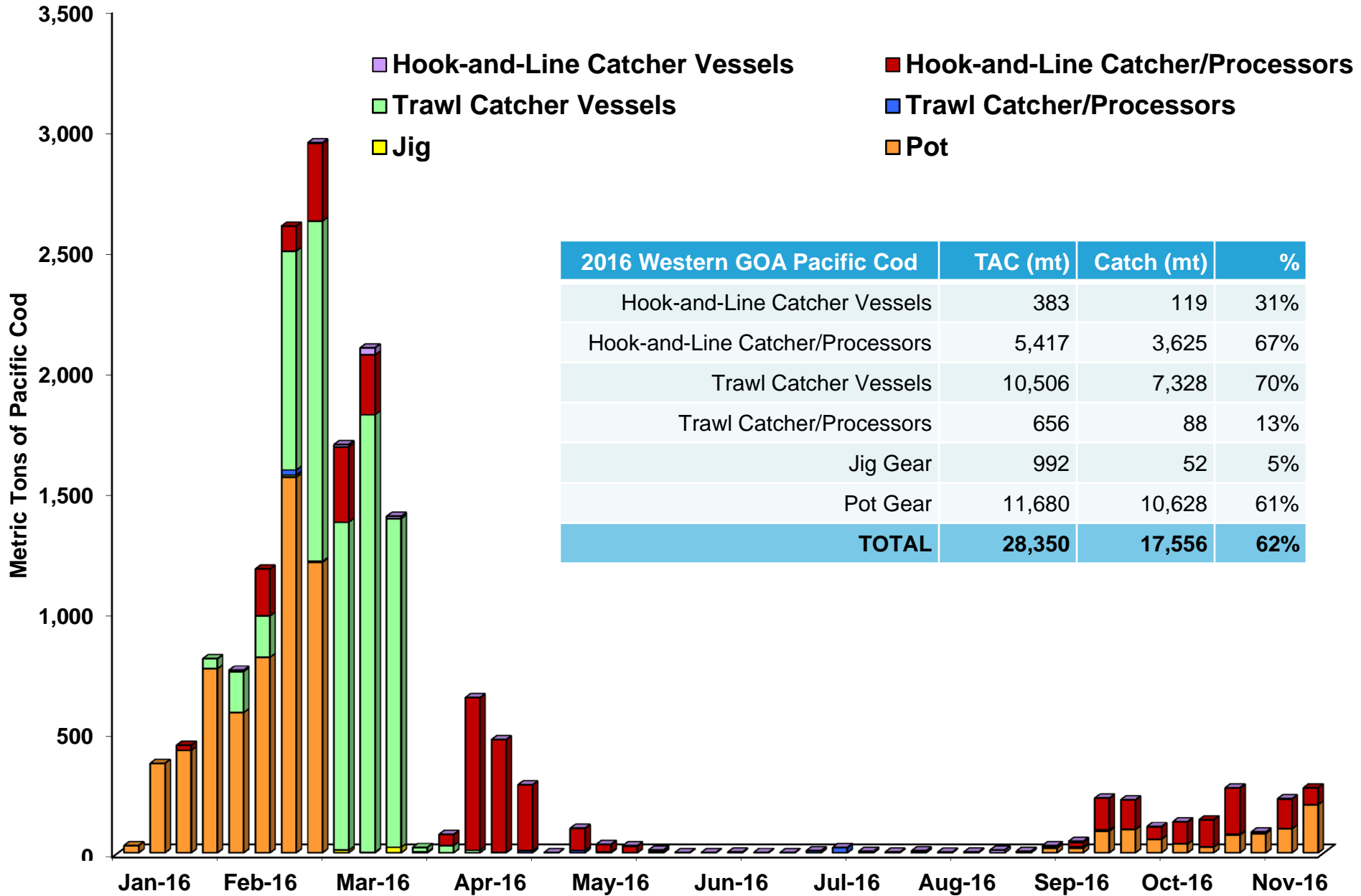
2016 Gulf of Alaska Pacific Cod Catch by Trawl Gear



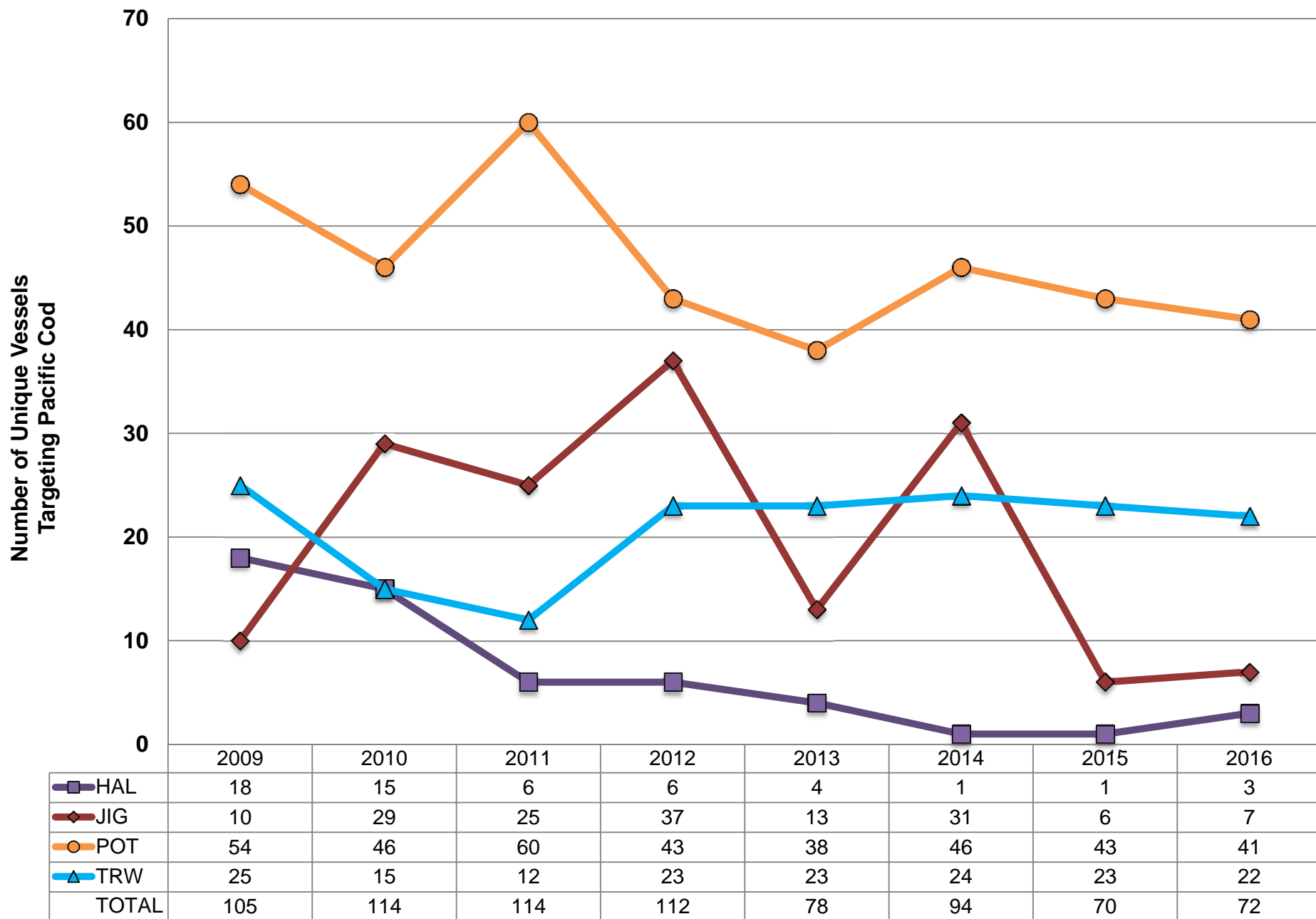
2016 Gulf of Alaska Pacific Cod Catch by Non-Trawl Gear



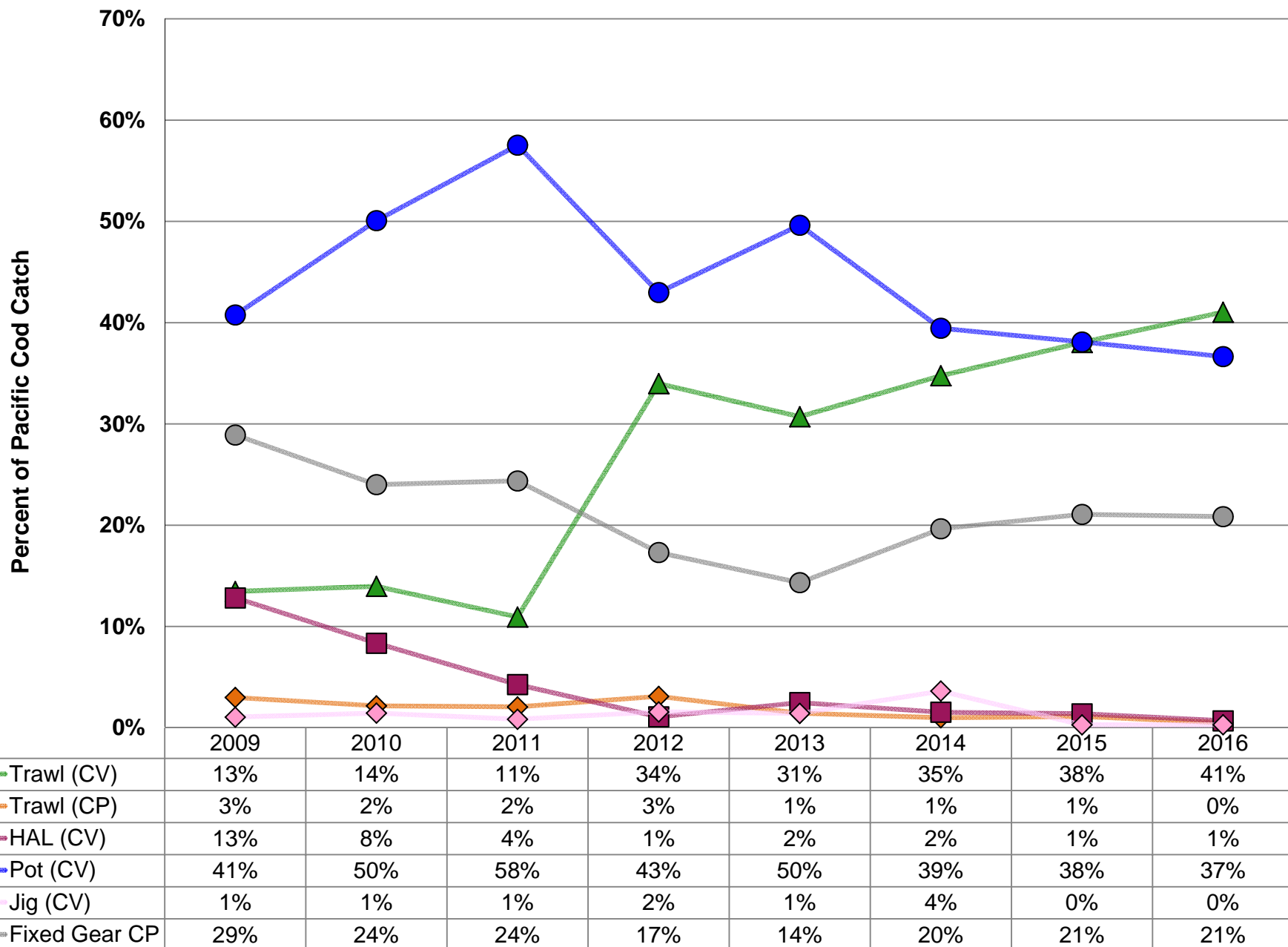
2016 Western GOA Pacific Cod Catch by Week and Sector



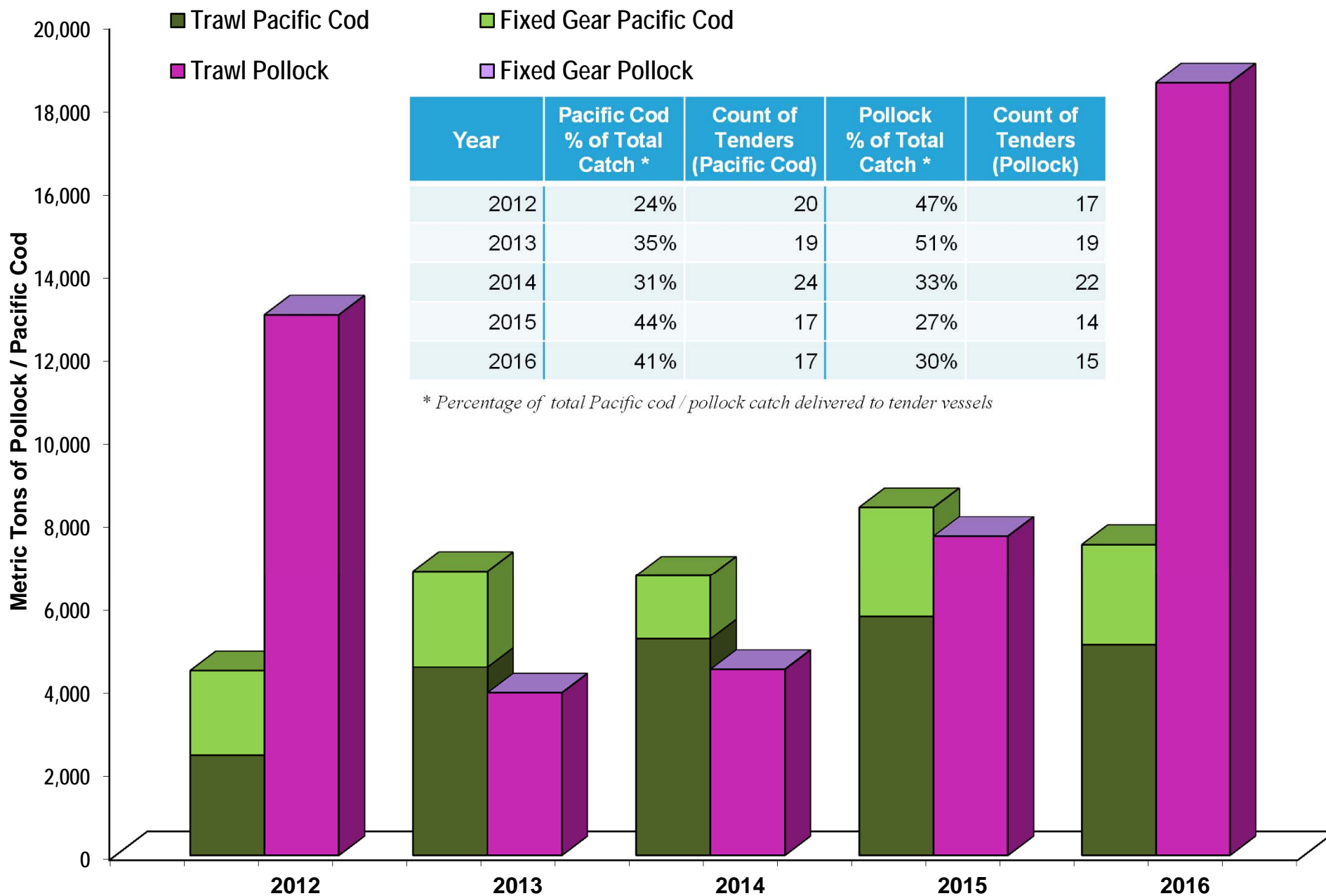
2009 – 2016 Counts of Vessels Targeting Western GOA Pacific Cod



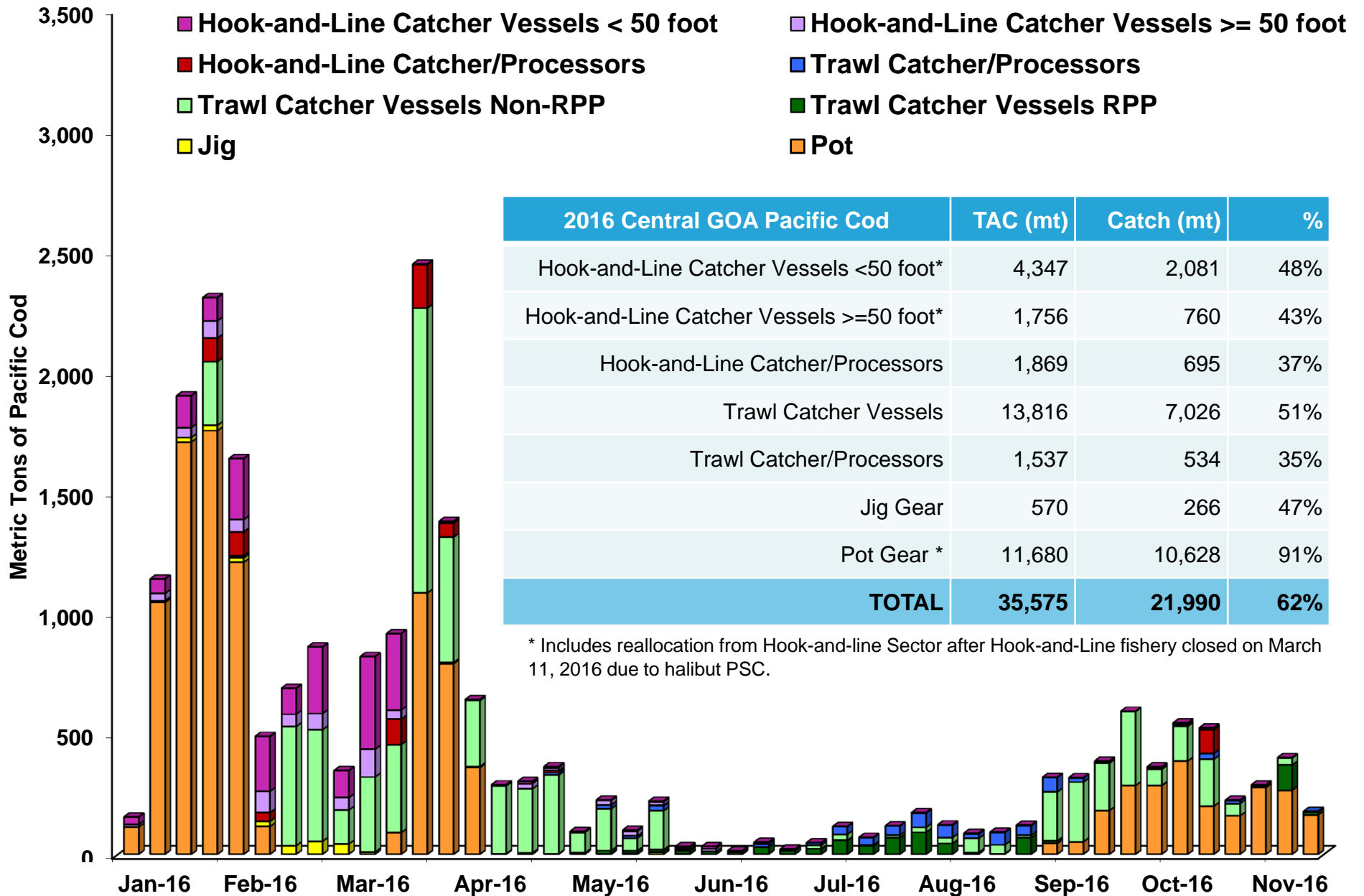
2009 – 2016 Western GOA Pacific Cod Catch by Sector



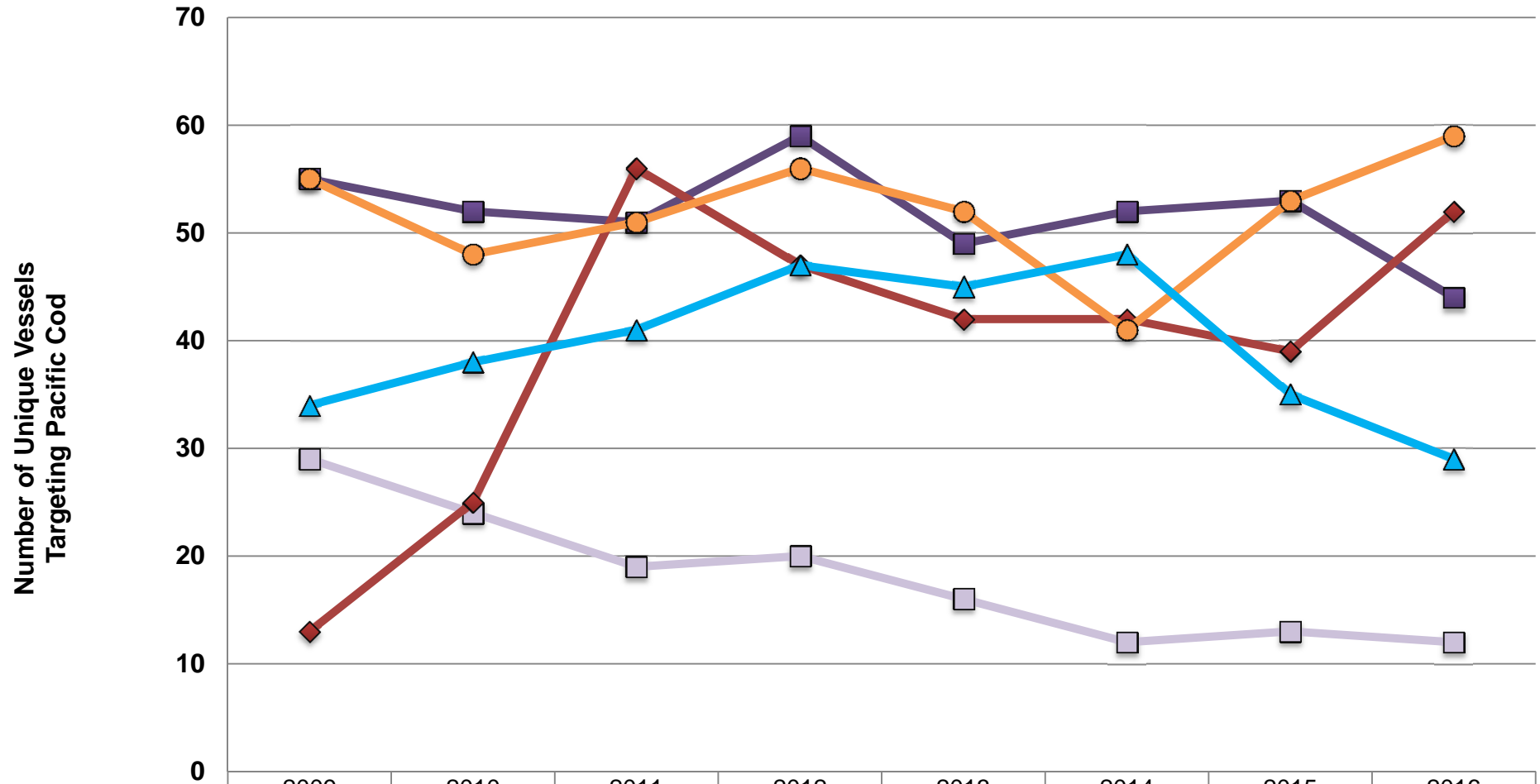
Western GOA Tender Report



2016 Central GOA Pacific Cod Catch by Week and Sector

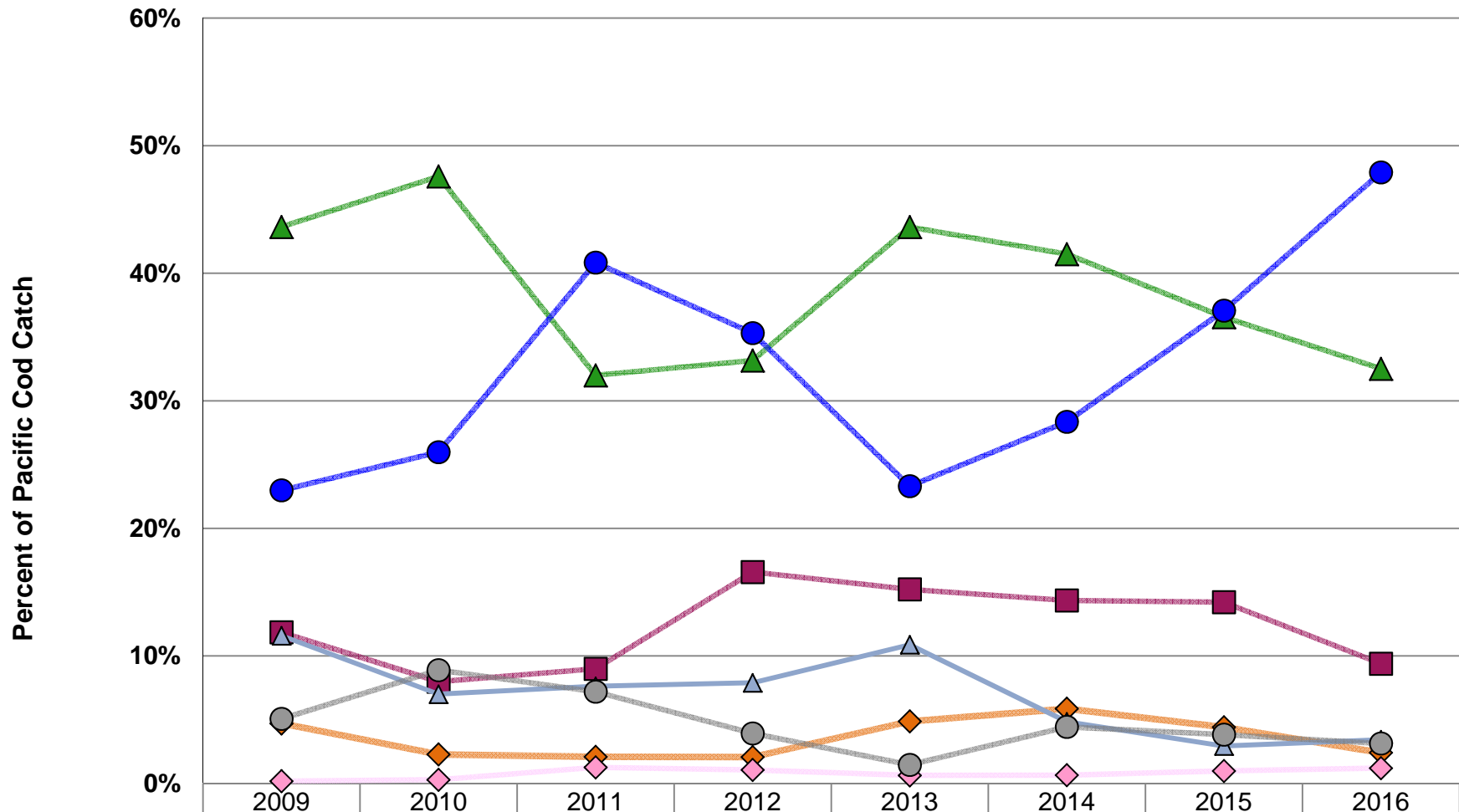


2009 – 2016 Counts of Vessels Targeting Central GOA Pacific Cod



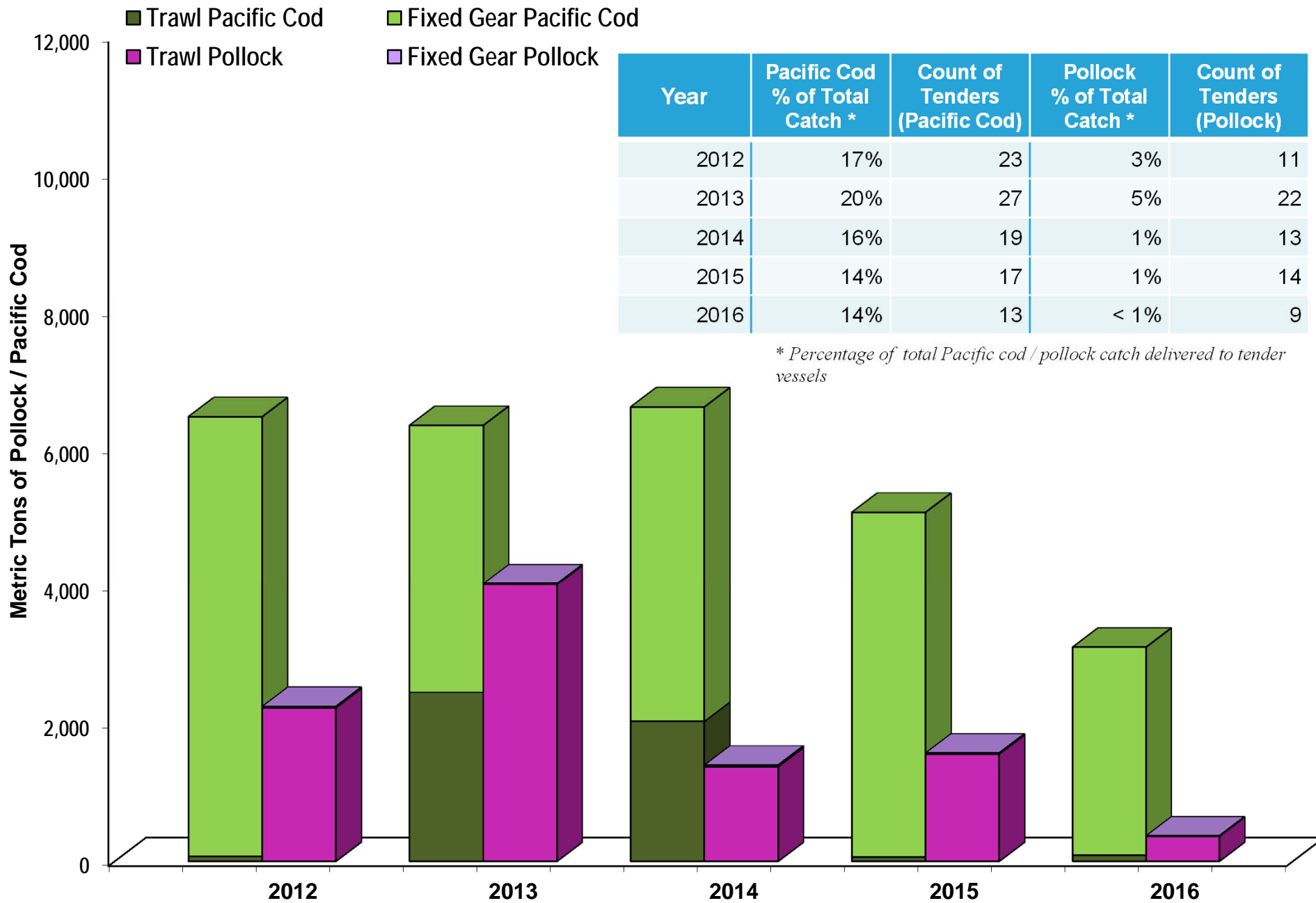
	2009	2010	2011	2012	2013	2014	2015	2016
■ HAL <50	55	52	51	59	49	52	53	44
□ HAL >=50	29	24	19	20	16	12	13	12
◆ JIG	13	25	56	47	42	42	39	52
○ POT	55	48	51	56	52	41	53	59
▲ TRW	34	38	41	47	45	48	35	29
TOTAL	188	190	224	226	200	191	197	199

2009 – 2016 Central GOA Pacific Cod Catch by Sector

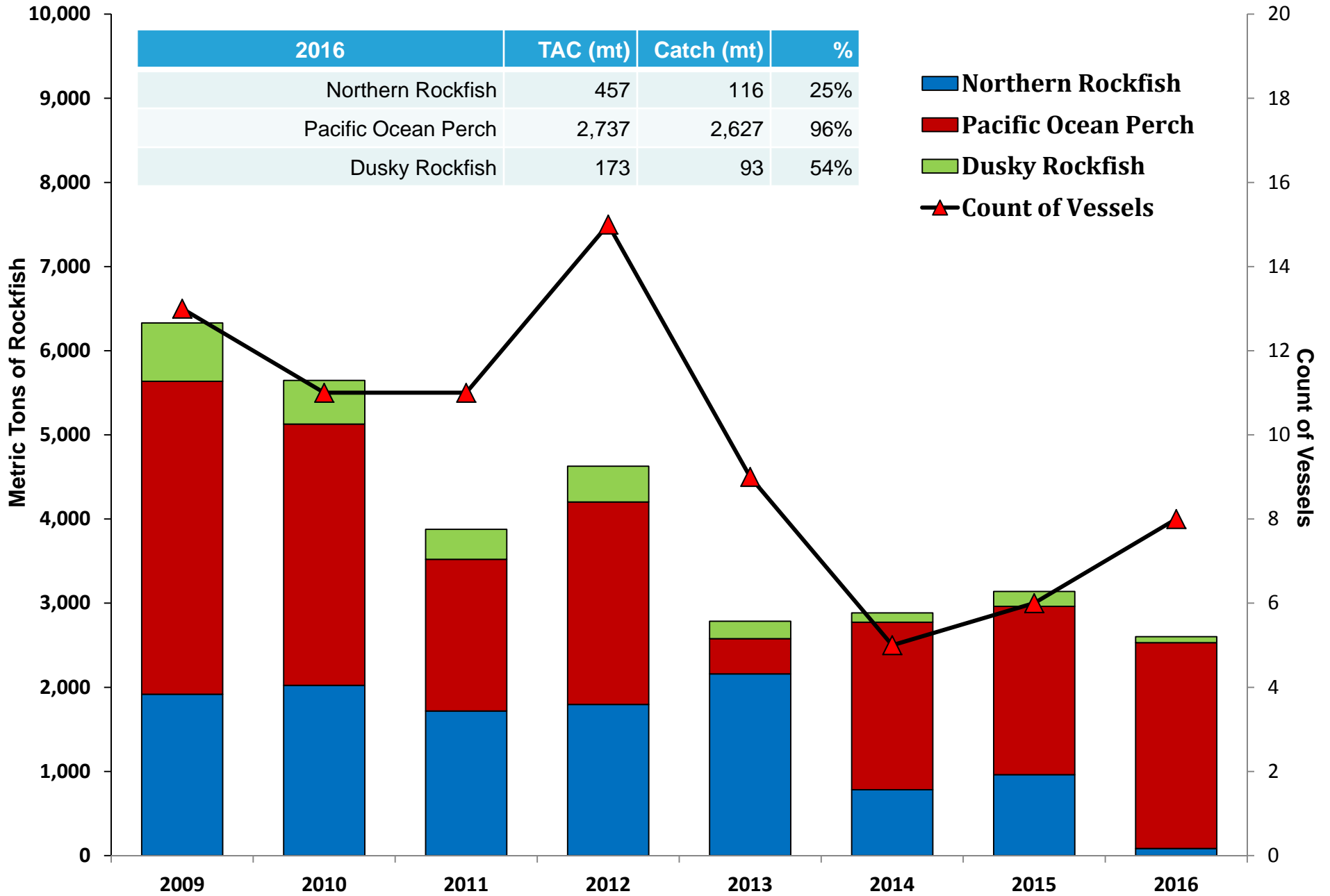


	2009	2010	2011	2012	2013	2014	2015	2016
▲ Trawl (CV)	44%	48%	32%	33%	44%	42%	37%	33%
◆ Trawl (CP)	5%	2%	2%	2%	5%	6%	4%	2%
● Pot (CV)	23%	26%	41%	35%	23%	28%	37%	48%
◇ Jig (CV)	0%	0%	1%	1%	1%	1%	1%	1%
■ HAL <50 CV	12%	8%	9%	17%	15%	14%	14%	9%
▲ HAL >= 50 CV	12%	7%	8%	8%	11%	5%	3%	3%
● Fixed Gear (CP)	5%	9%	7%	4%	1%	4%	4%	3%

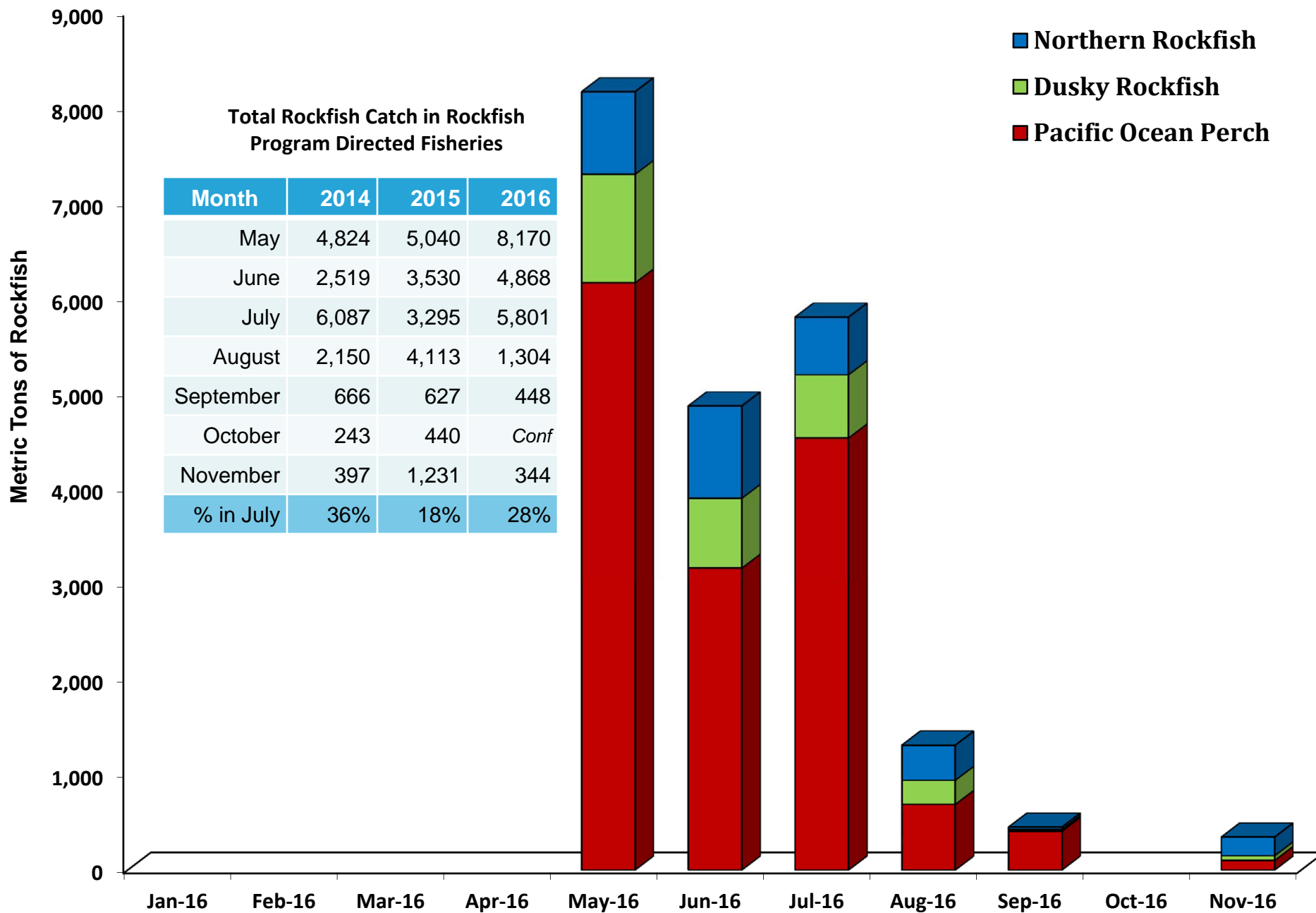
Central GOA Tender Report



Western GOA Trawl Rockfish Fishery

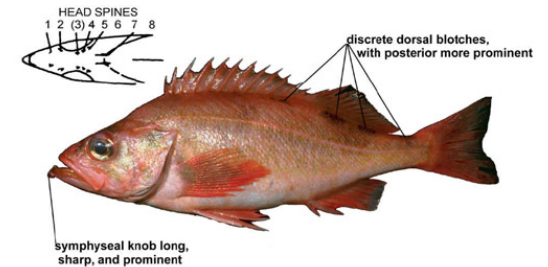


2016 Central GOA Trawl Rockfish Program Fishery by Month

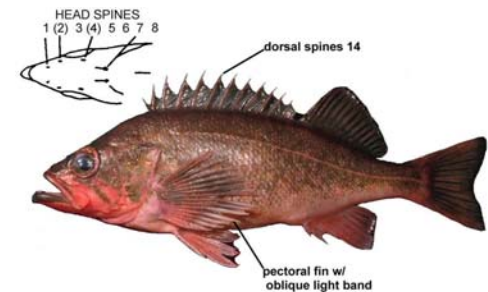


2016 Rockfish Program Allocations and Catch

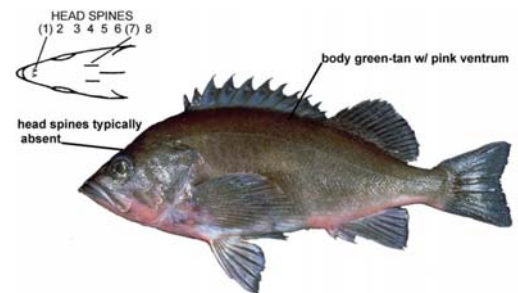
Species	Limit (mt)	Catch (mt)	%
Entry level Fixed Gear			
Pacific Ocean Perch	5	0	0%
Northern Rockfish	5	0	0%
Dusky Rockfish	30	39	139%
Cooperatives			
Pacific Ocean Perch	15,528	15,471	100%
Northern Rockfish	3,242	3,078	95%
Dusky Rockfish	3,867	2,949	72%
Pacific Cod	1,409	196	14%
Sablefish	414	399	96%
Thornyhead Rockfish	339	295	87%
Shortraker Rockfish	120	confidential	confidential
Rougheye Rockfish	416	confidential	confidential
Pacific Halibut PSC	191	69	36%
Primary Species Central GOA Incidental Catch			
Pacific Ocean Perch	1,500	2,140	143%
Northern Rockfish	300	236	79%
Dusky Rockfish	250	209	84%



Pacific Ocean Perch

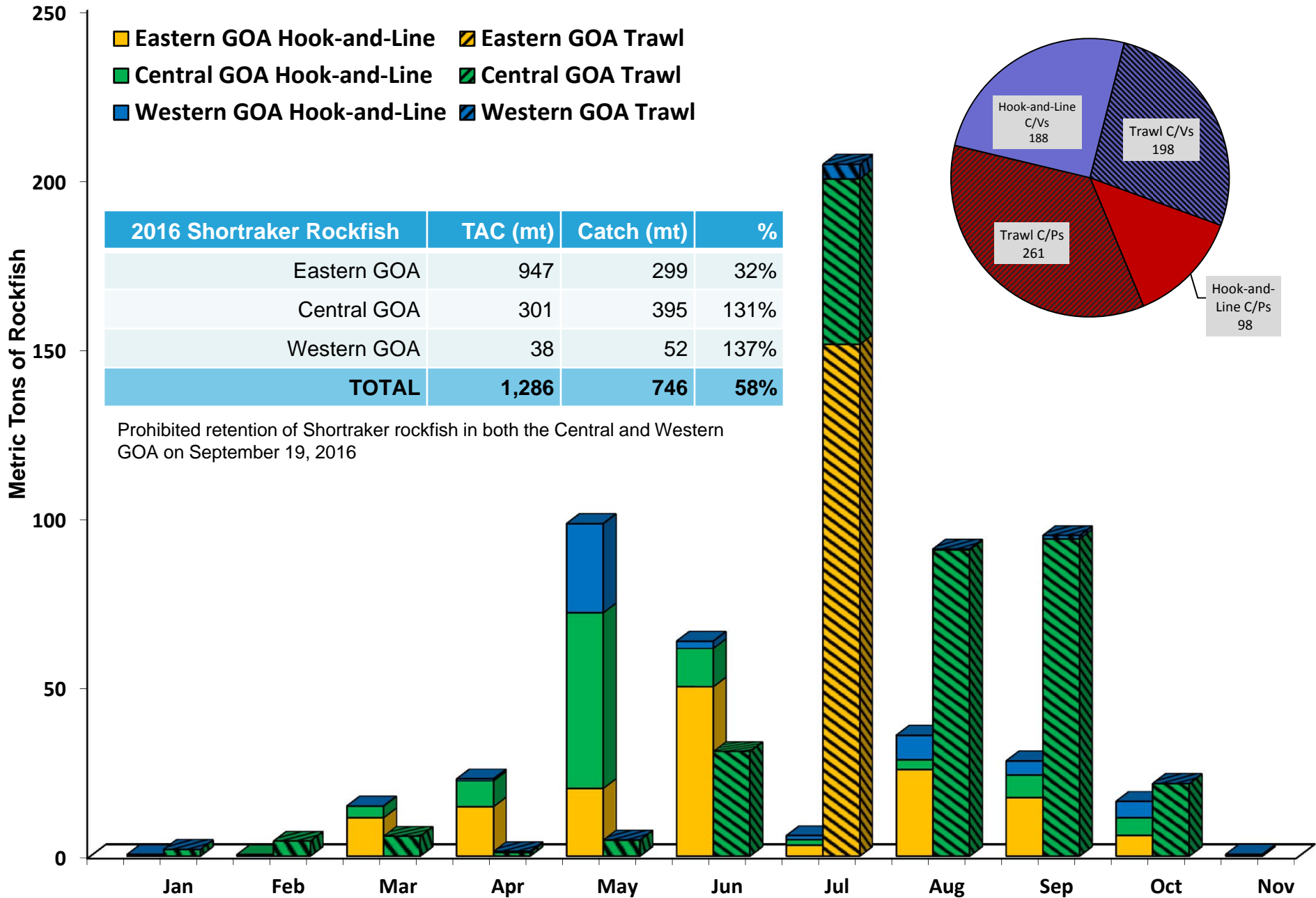


Northern Rockfish

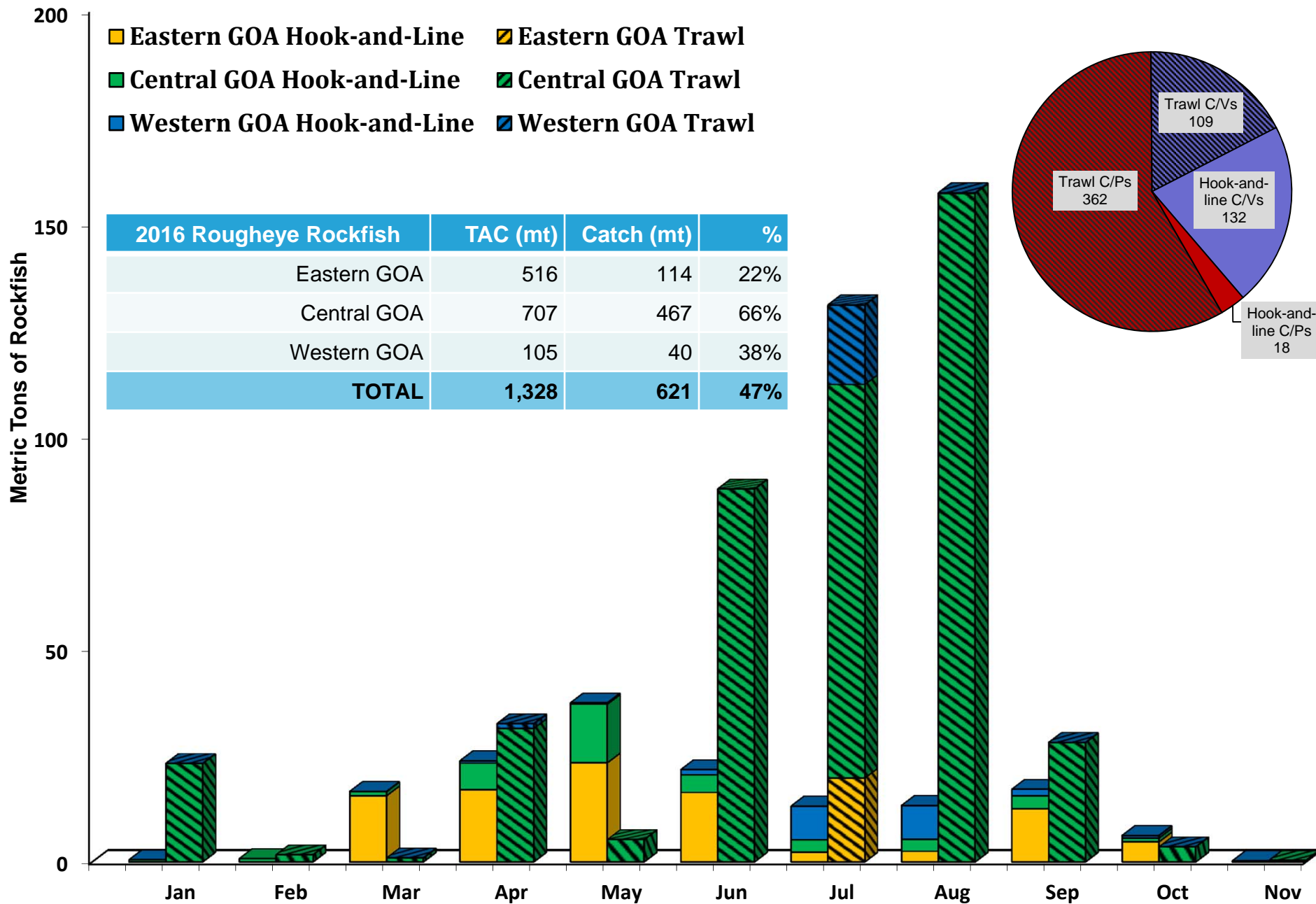


Dusky Rockfish

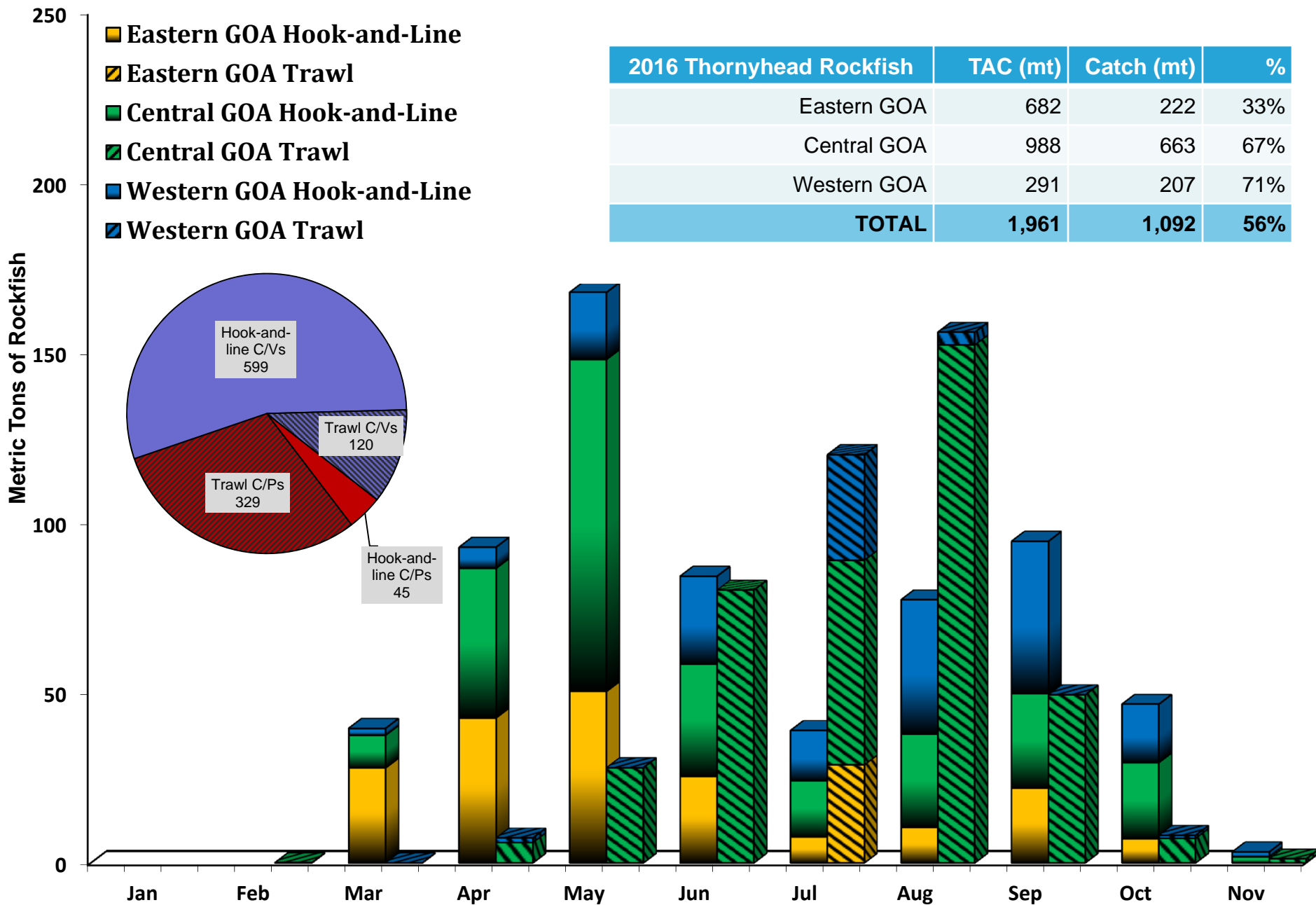
2016 GOA Shortraker Rockfish Catch



2016 GOA Rougheye Rockfish Catch



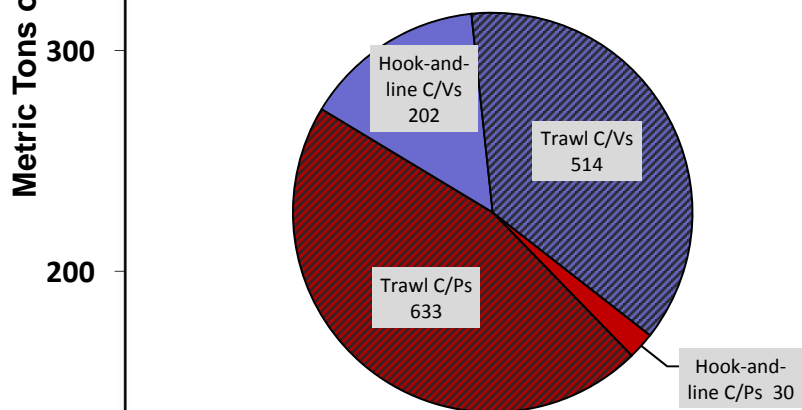
2016 GOA Thornyhead Rockfish Catch



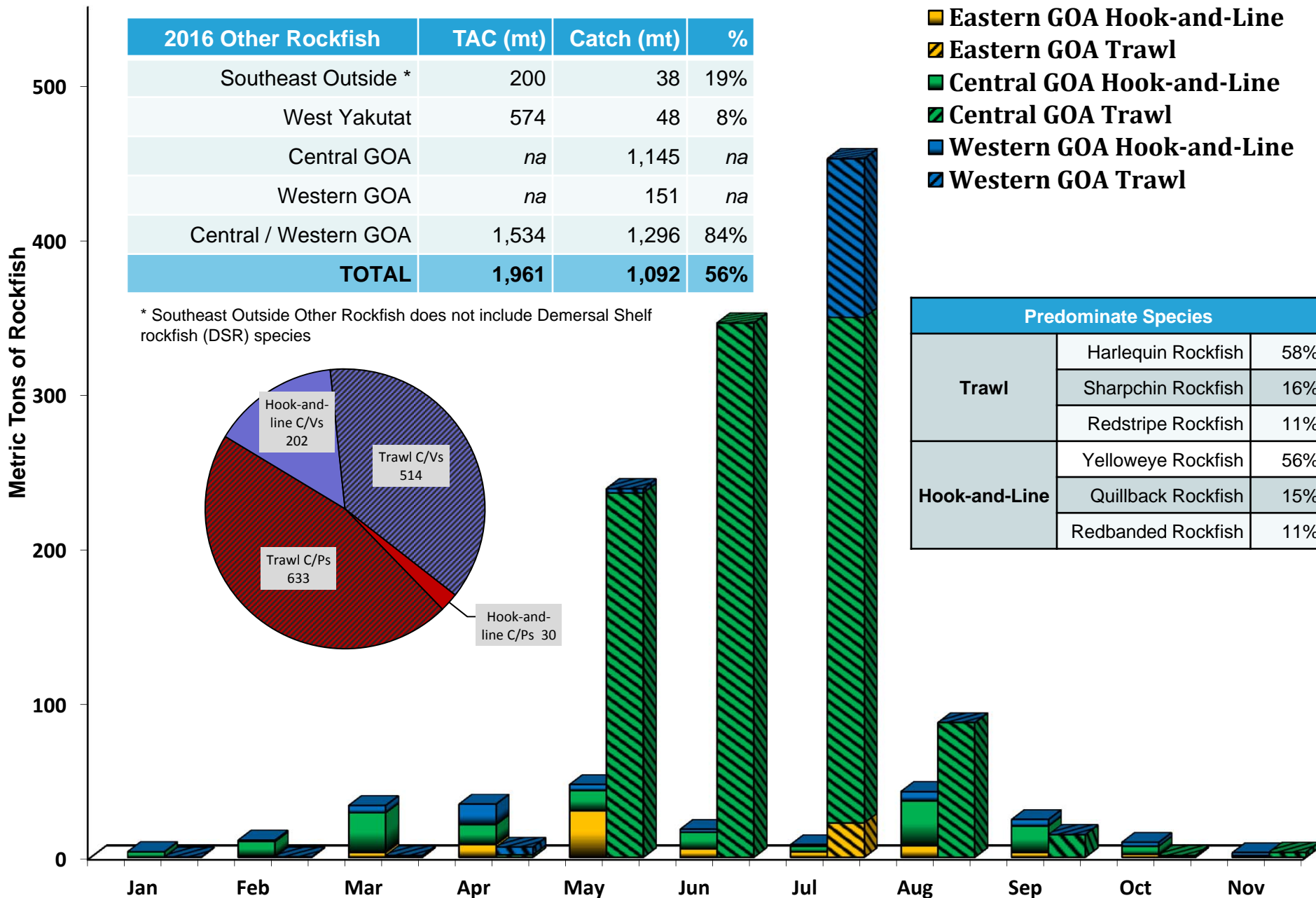
2016 GOA Other Rockfish Catch

2016 Other Rockfish	TAC (mt)	Catch (mt)	%
Southeast Outside *	200	38	19%
West Yakutat	574	48	8%
Central GOA	na	1,145	na
Western GOA	na	151	na
Central / Western GOA	1,534	1,296	84%
TOTAL	1,961	1,092	56%

* Southeast Outside Other Rockfish does not include Demersal Shelf rockfish (DSR) species

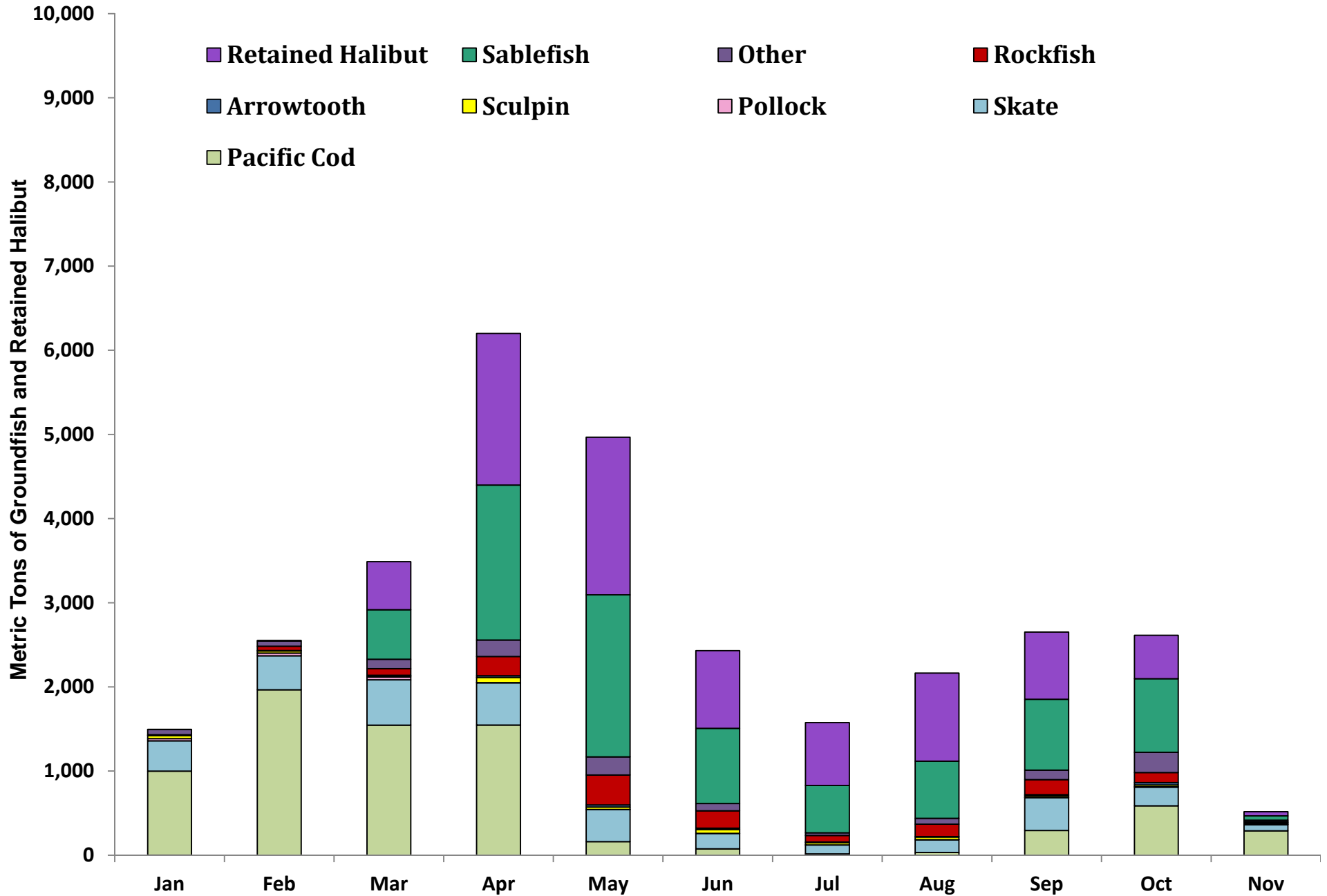


- Eastern GOA Hook-and-Line
- ▨ Eastern GOA Trawl
- Central GOA Hook-and-Line
- ▨ Central GOA Trawl
- Western GOA Hook-and-Line
- ▨ Western GOA Trawl

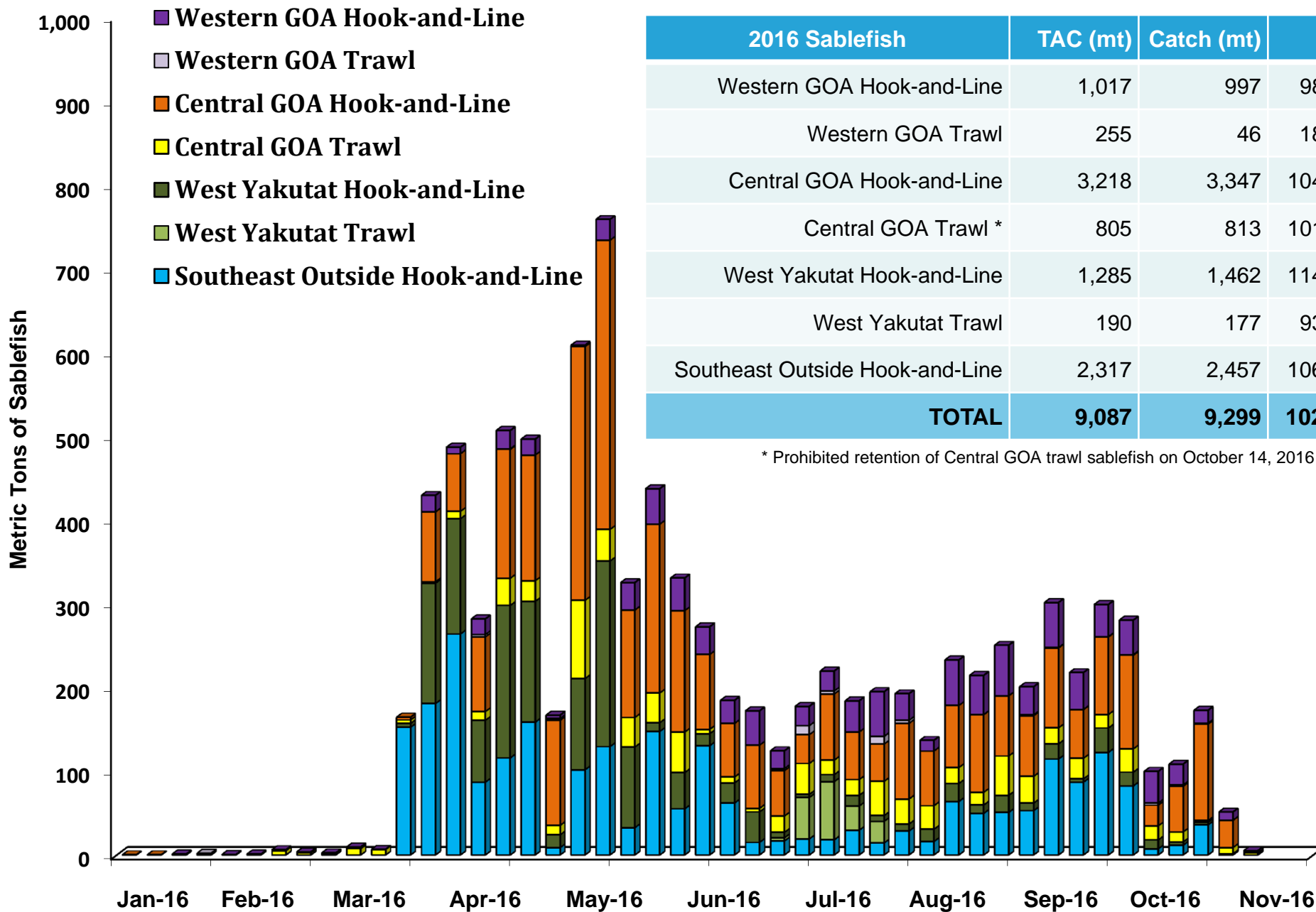


Predominate Species		
Trawl	Harlequin Rockfish	58%
	Sharpchin Rockfish	16%
	Redstripe Rockfish	11%
Hook-and-Line	Yelloweye Rockfish	56%
	Quillback Rockfish	15%
	Redbanded Rockfish	11%

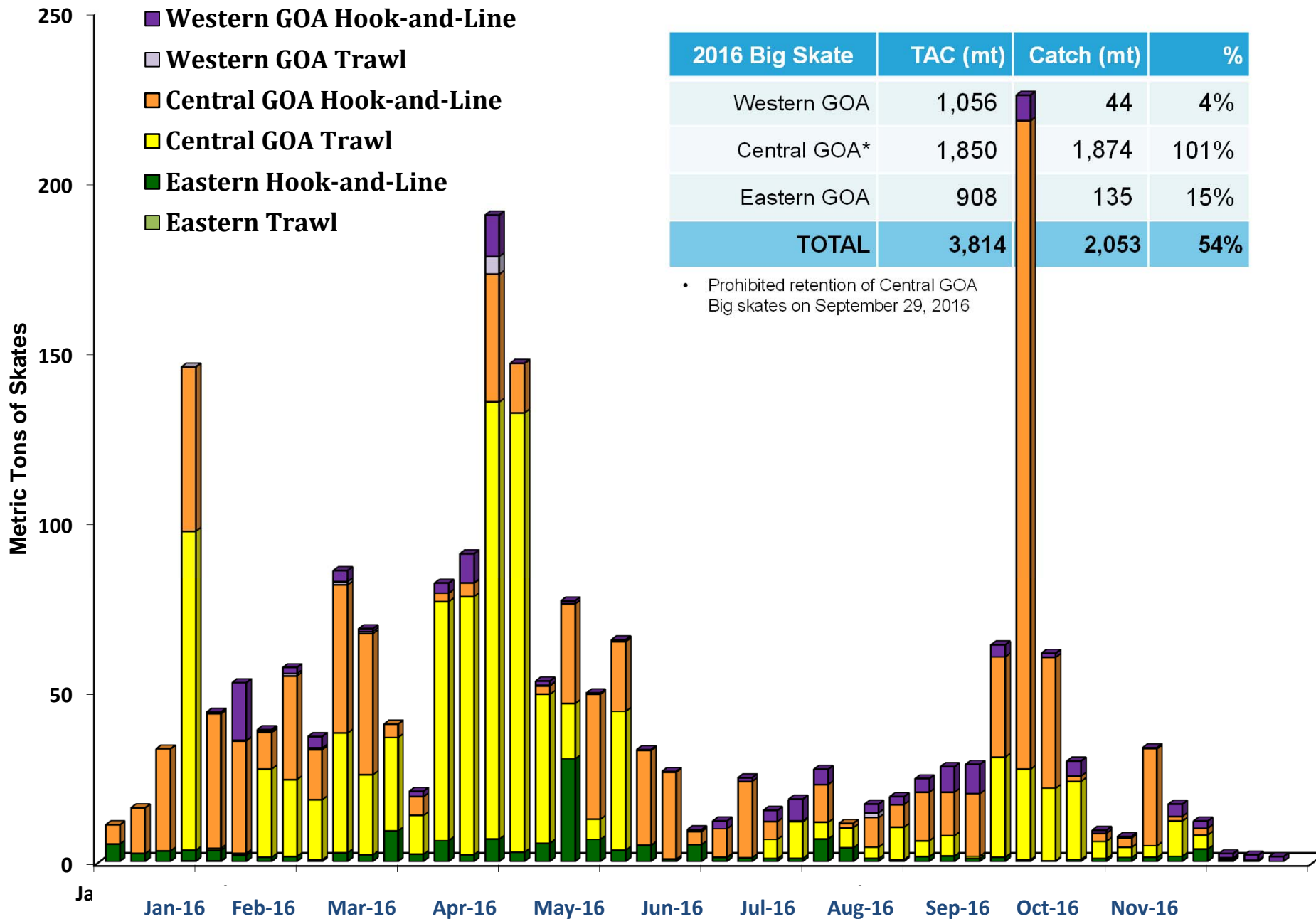
2016 GOA Hook-and-Line Catch



2016 GOA Sablefish Catch



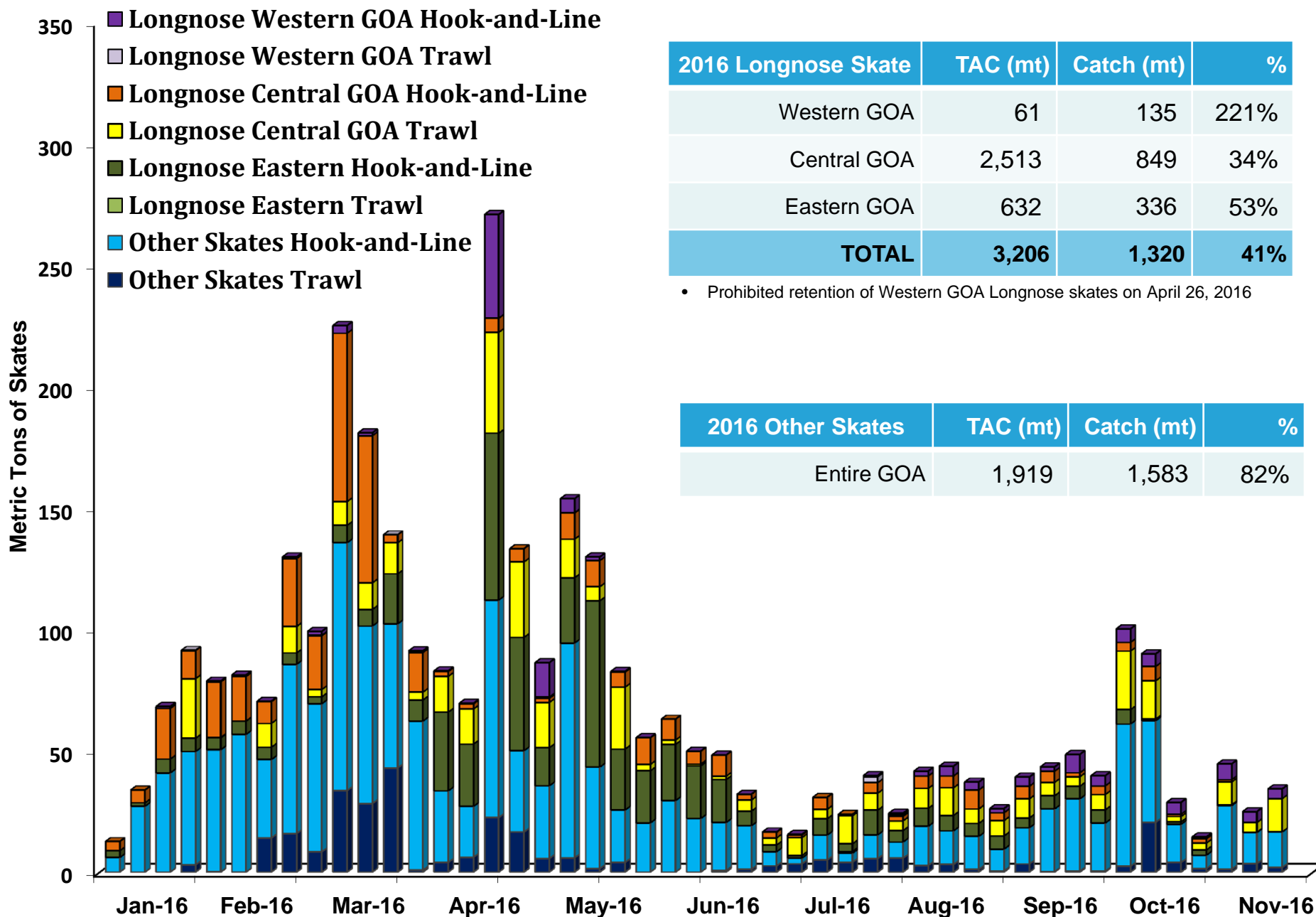
2016 GOA Big Skate



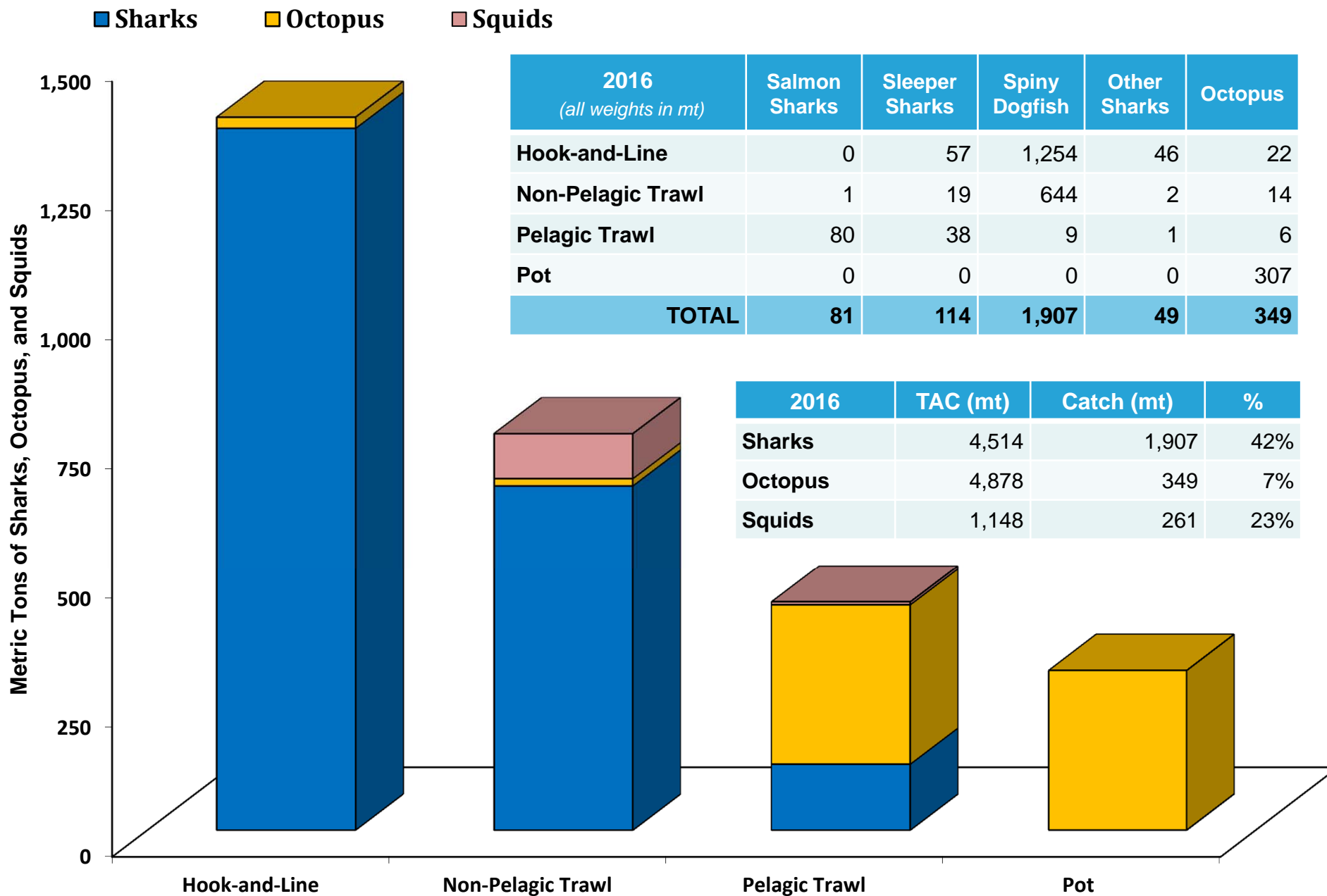
2016 Big Skate	TAC (mt)	Catch (mt)	%
Western GOA	1,056	44	4%
Central GOA*	1,850	1,874	101%
Eastern GOA	908	135	15%
TOTAL	3,814	2,053	54%

* Prohibited retention of Central GOA Big skates on September 29, 2016

2016 GOA Longnose Skate and Other Skates



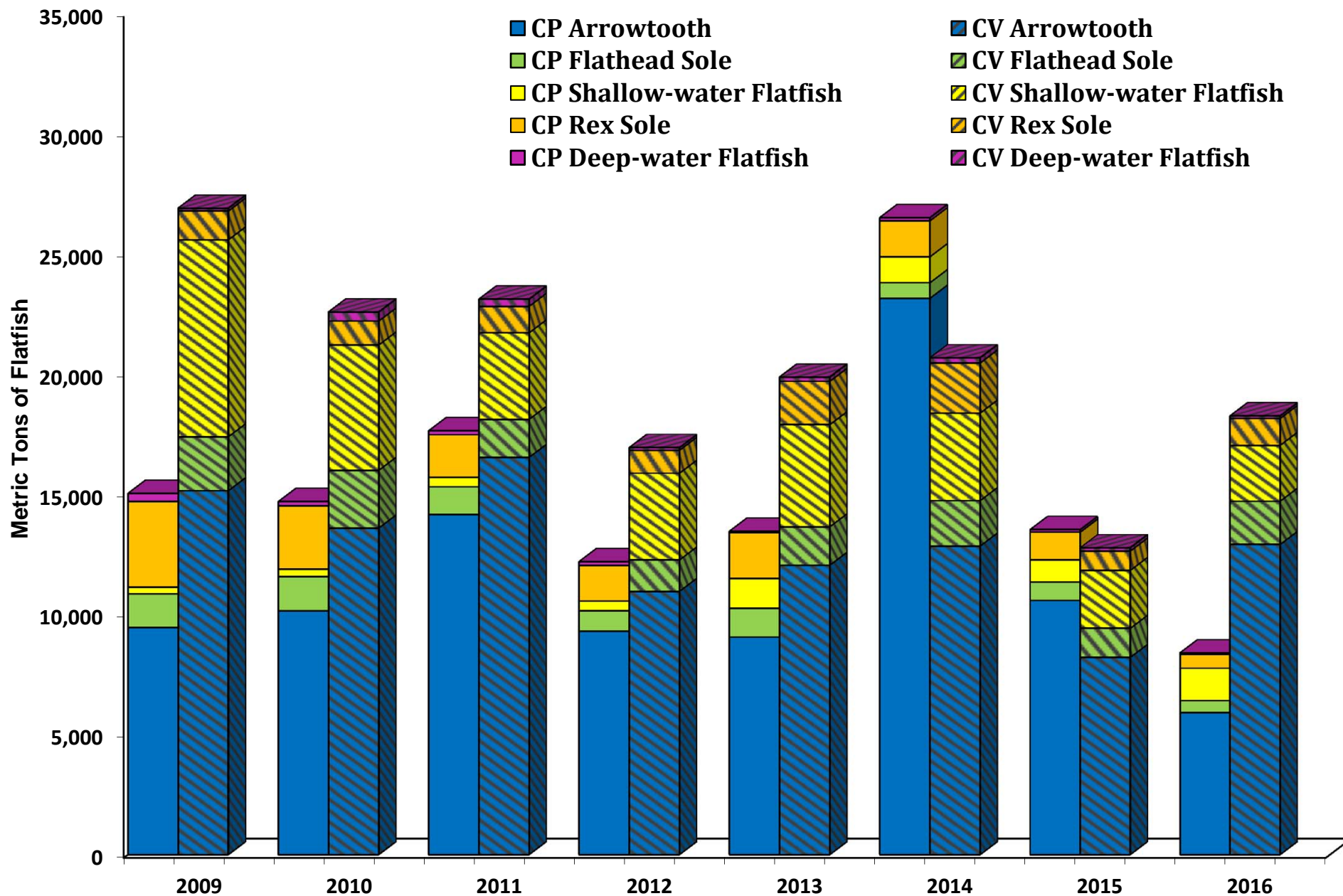
2016 GOA Sharks, Octopus, and Squids



2016 GOA Groundfish Species Placed on Prohibited Species Status

2015	Date
Big Skate in Central GOA	February 11, 2016
Other Rockfish in Central and Western GOA	September 30, 2016
Sablefish in West Yakutat District	October 30, 2016
2016	Date
Longnose Skates in Western GOA	April 26, 2016
Shortraker Rockfish in Western GOA	September 19, 2016
Shortraker Rockfish in Central GOA	September 19, 2016
Big Skate in Central GOA	September 29, 2016
Pacific Ocean Perch Incidental Catch Allowance in Central GOA	October 14, 2016
Sablefish by Trawl Gear in Central GOA (non-Rockfish Program)	October 14, 2016

2009 – 2016 GOA Trawl Flatfish Catch by Species



2016 Flatfish and Skate Catch in the GOA

Species	Area	TAC (mt)	Total Catch (mt)	%
Arrowtooth Flounder	Central	75,000	18,167	24%
	Western	14,500	986	7%
Flathead Sole	Central	15,400	2,092	14%
	Western	8,650	214	2%
Rex Sole	Central	4,445	1,521	34%
	Western	1,315	169	13%
Shallow Water Flatfish	Central	19,242	3,520	18%
	Western	13,250	146	1%
Deep Water Flatfish	Central	3,495	165	5%
	Western	186	4	2%
Big Skate	Eastern	1,056	44	4%
	Central	1,850	1,874	101%
	Western	908	135	15%
Longnose Skate	Eastern	632	336	53%
	Central	2,513	849	34%
	Western	61	135	221%
Other Skate	GOA	1,919	1,583	82%

GOA Trawl Groundfish Retained and Discards

2015 Trawl	Retained	Discards	% Retained
Pollock	161,613	1,163	99%
Pacific Ocean Perch	18,014	719	96%
Arrowtooth Flounder	17,076	1,757	91%
Pacific Cod	21,448	812	96%
Shallow-water Flatfish	2,970	365	89%
Northern Rockfish	3,764	175	96%
Dusky Rockfish	2,607	130	95%
Flathead Sole	1,859	125	94%
Rex Sole	1,925	32	98%
Skates *	567	837	40%
Other Rockfish *	415	491	46%
Sablefish *	871	182	83%
Other Species	357	706	34%
Atka Mackerel	901	318	74%
Rougheye Rockfish	308	10	97%
Shortraker Rockfish	263	18	94%
Thornyhead Rockfish	317	28	92%
Sculpins	9	317	3%
Deep-water Flatfish	110	130	46%
TOTAL	235,390	8,313	97%

2016 Trawl	Retained	Discards	% Retained
Pollock	171,999	873	99%
Pacific Ocean Perch *	21,404	1,650	93%
Arrowtooth Flounder	17,731	1,454	92%
Pacific Cod	15,096	81	99%
Shallow-water Flatfish	3,475	199	95%
Northern Rockfish	3,242	172	95%
Dusky Rockfish	3,120	103	97%
Flathead Sole	2,231	84	96%
Rex Sole	1,631	62	96%
Skates *	910	754	55%
Other Rockfish	865	282	75%
Sablefish *	869	169	84%
Other Species	149	876	15%
Atka Mackerel	939	44	95%
Rougheye Rockfish	383	96	80%
Shortraker Rockfish *	285	175	62%
Thornyhead Rockfish	408	41	91%
Sculpins	35	410	8%
Deep-water Flatfish	90	77	54%
TOTAL	244,862	7,603	97%

Sorted by 2016 Total catch; * prohibited retention of that species in that year

GOA Fixed Gear Groundfish Retained and Discards

2015 Hook-and-Line	Retained	Discards	% Retained
Sablefish	8,669	592	94%
Pacific Cod	11,334	608	95%
Skates *	652	2,914	18%
Sharks	0	827	0%
Thornyhead	475	214	69%
Sculpins	1	388	0%
Shortraker Rockfish	125	172	42%
Other Rockfish *	104	118	47%
Rougheye Rockfish	107	125	46%
Other Species	150	101	60%
Arrowtooth Flounder	22	198	10%
Demersal Shelf Rockfish	97	4	96%
Other Flatfish	0	52	0%
TOTAL	21,735	6,314	77%

2015 Pot	Retained	Discards	% Retained
Pacific Cod	20,424	219	99%
Other Species	52	342	13%
Octopus	356	489	42%
TOTAL	20,831	1,050	95%

2016 Hook-and-Line	Retained	Discards	% Retained
Sablefish	7,626	636	92%
Pacific Cod	7,040	471	94%
Skates *	289	3,028	9%
Sharks	3	1,139	0%
Thornyhead	463	181	72%
Sculpins	1	322	0%
Shortraker Rockfish *	93	193	33%
Other Rockfish	84	189	31%
Rougheye Rockfish	87	64	58%
Other Species	84	47	64%
Arrowtooth Flounder	8	128	6%
Demersal Shelf Rockfish	103	4	96%
Other Flatfish	0	42	1%
TOTAL	15,879	6,445	71%

2016 Pot	Retained	Discards	% Retained
Pacific Cod	17,288	113	99%
Other Species	31	602	5%
Octopus	171	131	57%
TOTAL	17,489	846	95%

Sorted by 2016 Total catch; * prohibited retention of that species in that year

2016 GOA Salmon, Crab, and Herring PSC

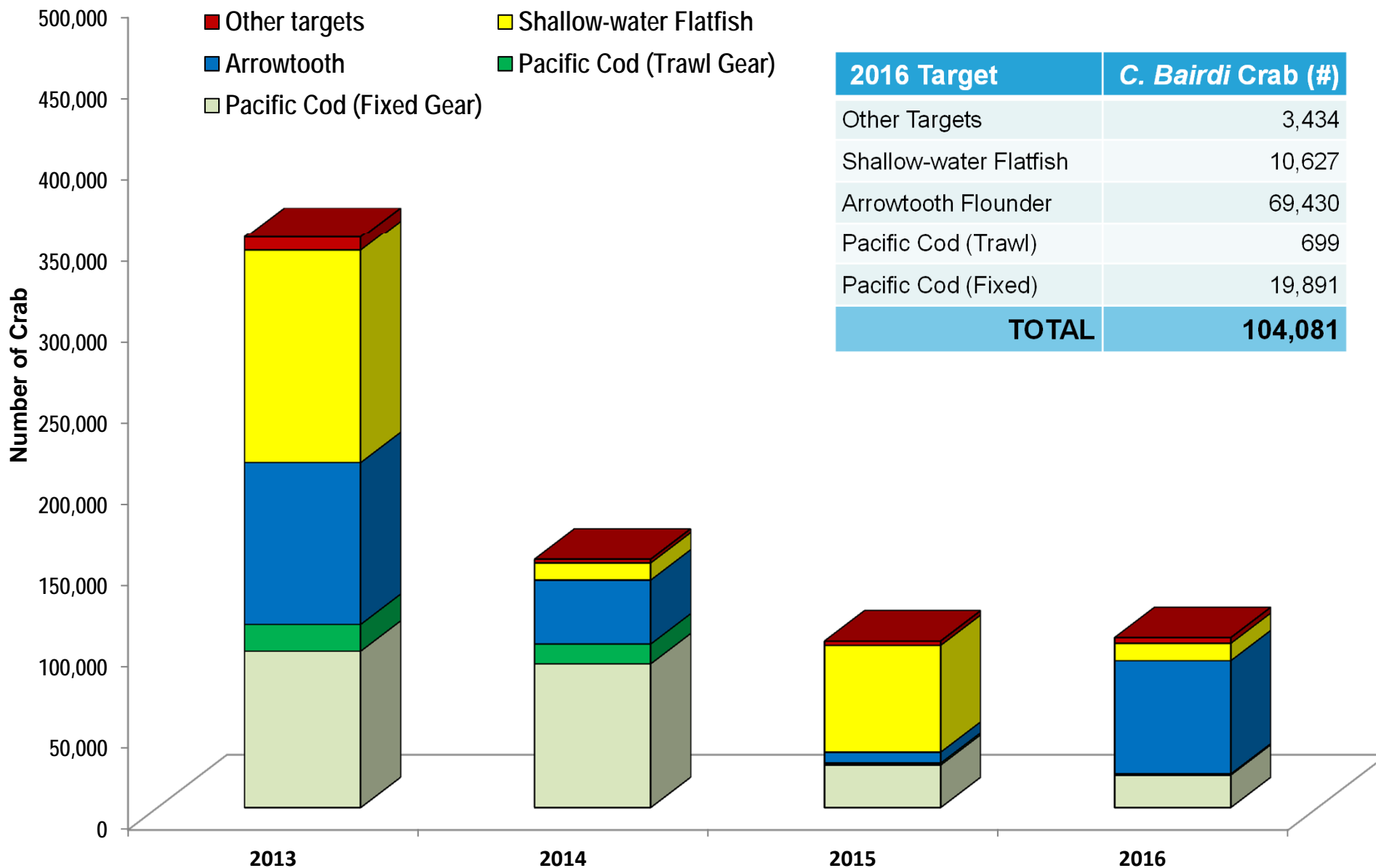
Chinook Salmon	Total Catch	Limit	%
Pollock Western GOA (#)	6,011	6,684	90%
Pollock Central GOA (#)	14,513	18,316	79%
Pollock 640 (#)	4	na	na
Catcher Vessel Non-pollock / Non-Rockfish Program (#)	481	2,700	18%
Catcher Vessel Rockfish Program (#)	87	1,200	7%
Catcher Processors (#)	420	4,080	10%
Non-trawl Gear (#)	174	na	na
TOTAL (#)	21,680	na	na

Other PSC Species	Total Catch	Limit	%
Non-Chinook Salmon (#)	3,522	na	na
Trawl Bairdi Tanner (#)	84,153	na	na
Fixed Gear Bairdi Tanner (#)	19,927	na	na
Red King Crab (#)	177	na	na
Golden King Crab (#)	731	na	na
Herring (mt)	149	na	na



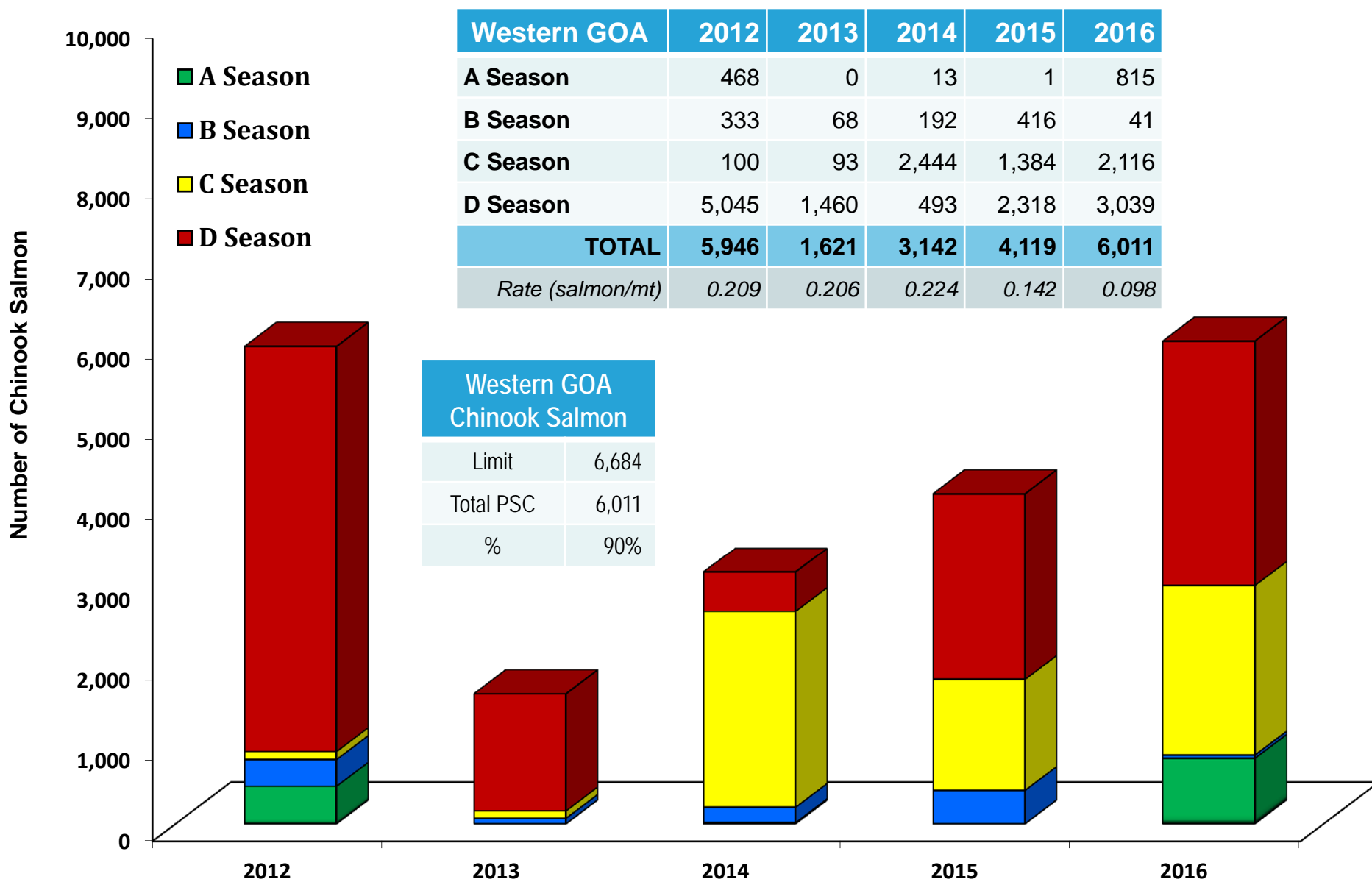
Crab and Salmon PSC is reported in number of animals

2013 – 2016 GOA *C. Bairdi* Tanner Crab Incidental Catch by Target

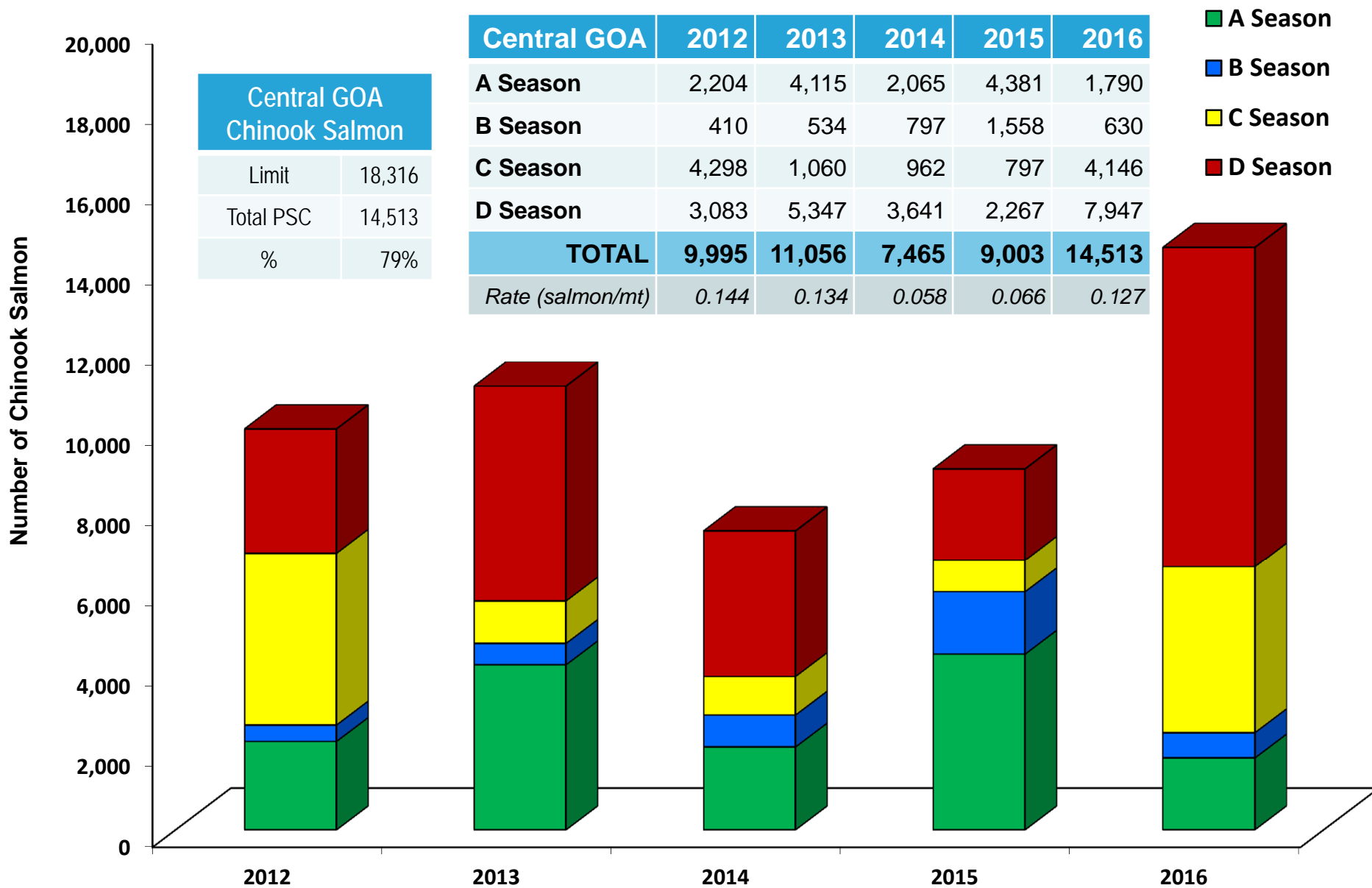


2016 Target	<i>C. Bairdi</i> Crab (#)
Other Targets	3,434
Shallow-water Flatfish	10,627
Arrowtooth Flounder	69,430
Pacific Cod (Trawl)	699
Pacific Cod (Fixed)	19,891
TOTAL	104,081

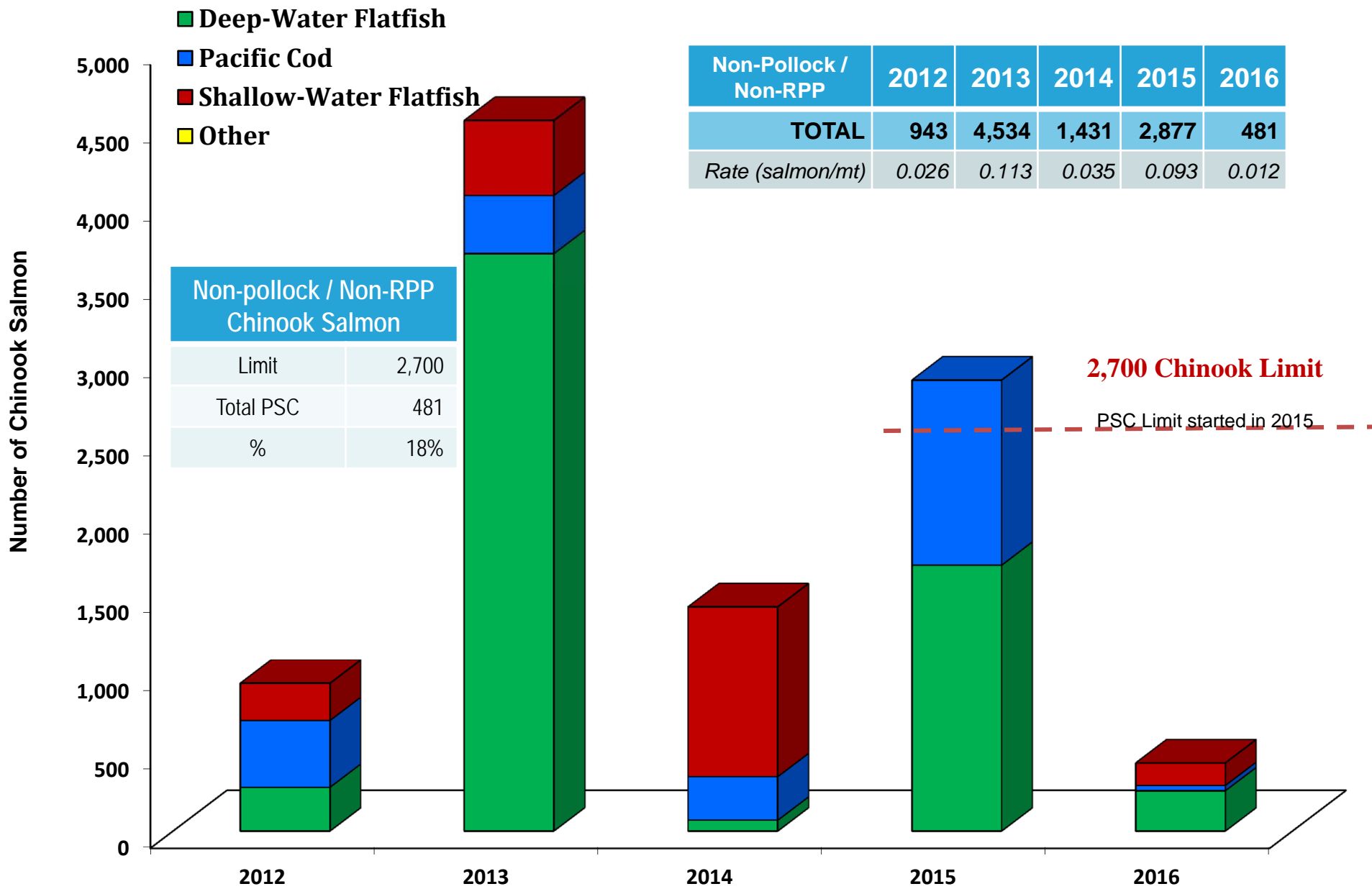
2012 – 2016 Chinook Salmon PSC in Western GOA Pollock Fisheries



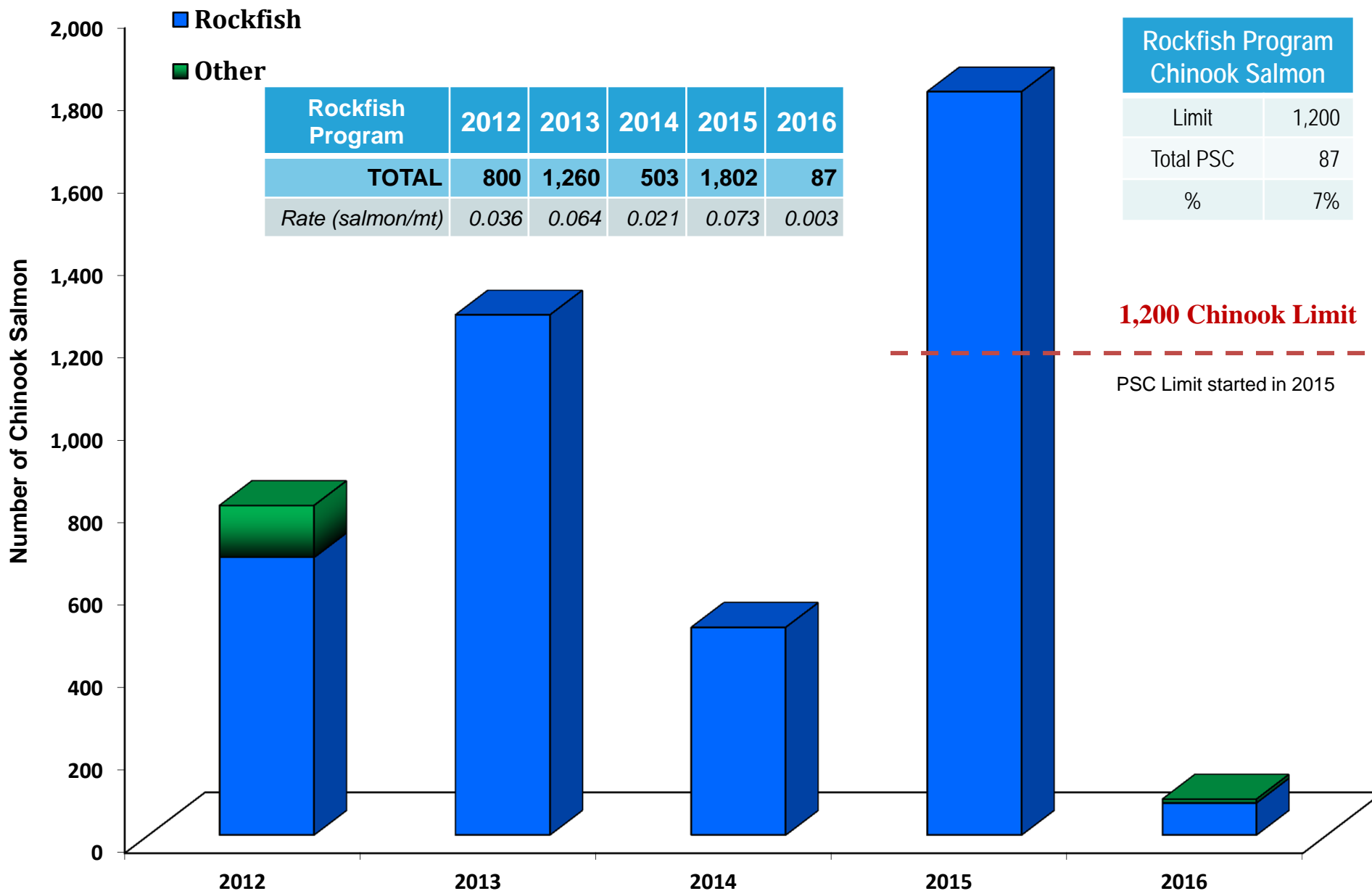
2012 – 2016 Chinook Salmon PSC in Central GOA Pollock Fisheries



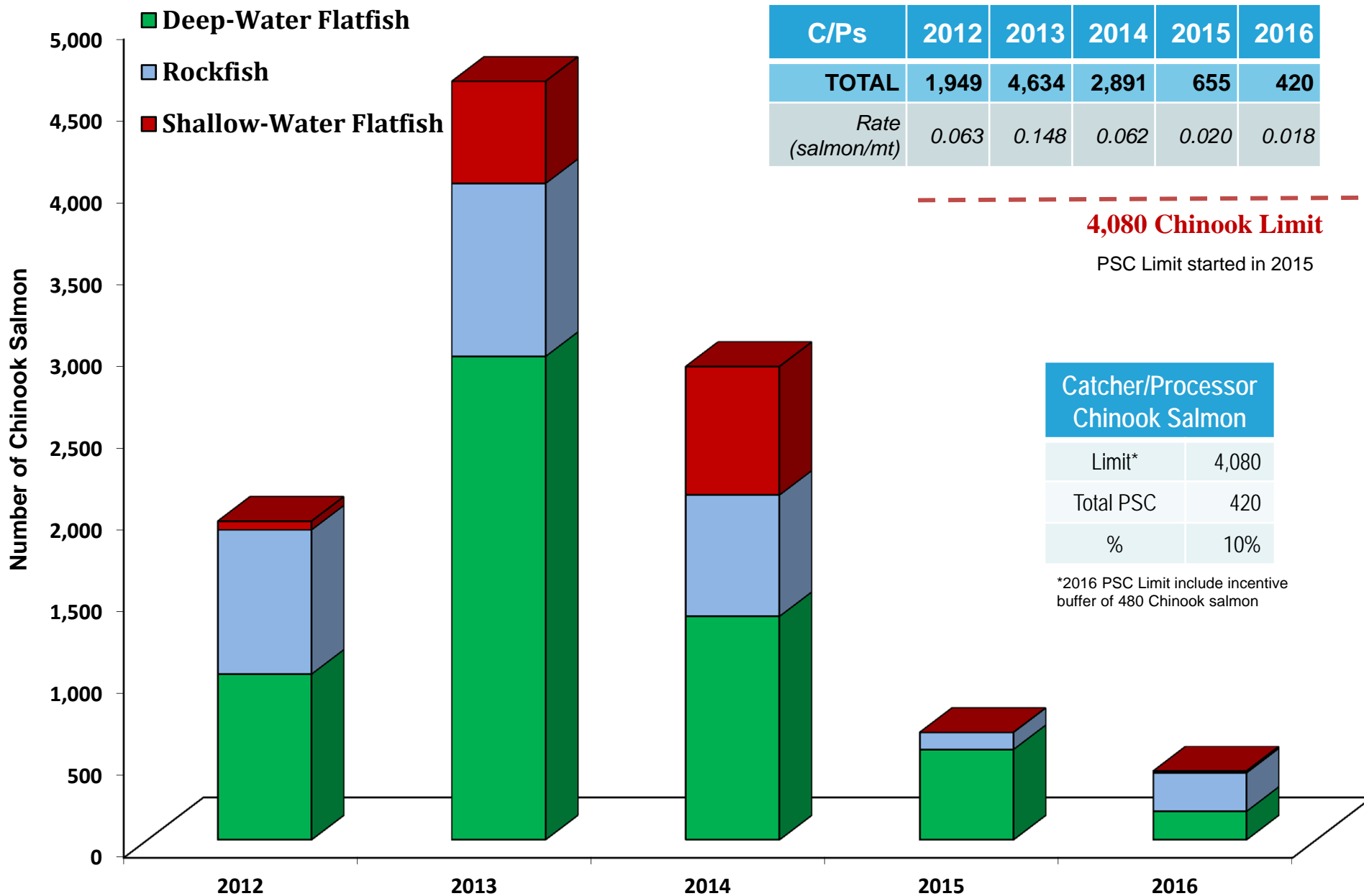
2012 – 2016 Chinook Salmon PSC in Non-Pollock / Non-Rockfish Program



2012 – 2016 Chinook Salmon PSC in Rockfish Program



2012 – 2016 Chinook Salmon PSC by Catcher/Processors



2016 GOA Halibut Catch

Hook-and-Line Halibut (mt)	Retained	Discard*	% Discarded	Mortality**	Limit	%
IFQ Halibut Fishery	7,453	5,471	42%	875	na	na
IFQ Sablefish Fishery	834	843	50%	90	na	na
Pacific Cod \ Other Targets	47	2,342	98%	234	257	91%
TOTAL	8,334	8,656	51%	1,199	<i>na</i>	<i>na</i>



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.

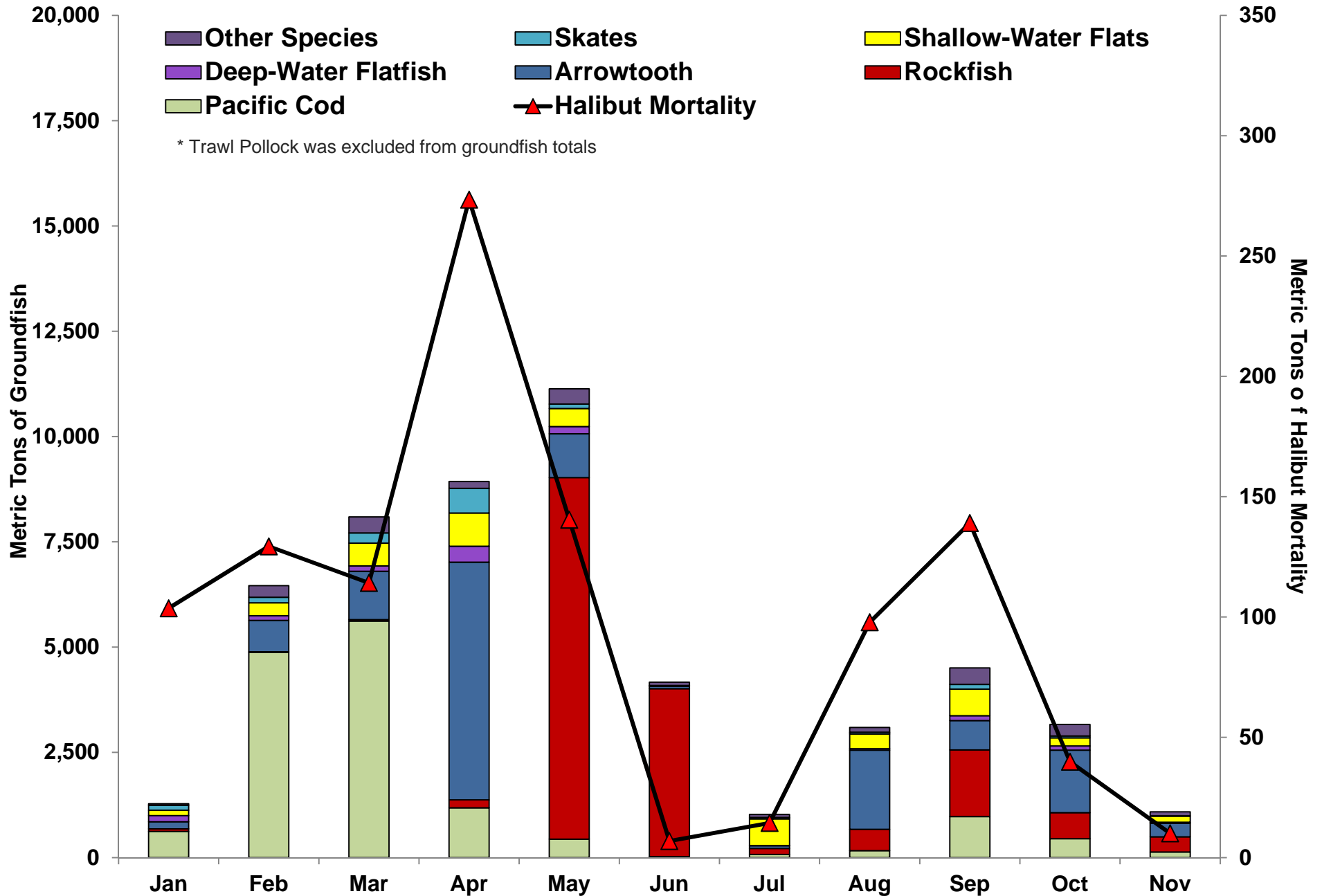
**Halibut Mortality rate in IFQ Halibut is 16%,

Gilroy, H.L. 2012. Incidental mortality of halibut in the commercial halibut fishery (Wastage). *Int. Pac. Halibut Comm. Report of Assessment and Research Activities*

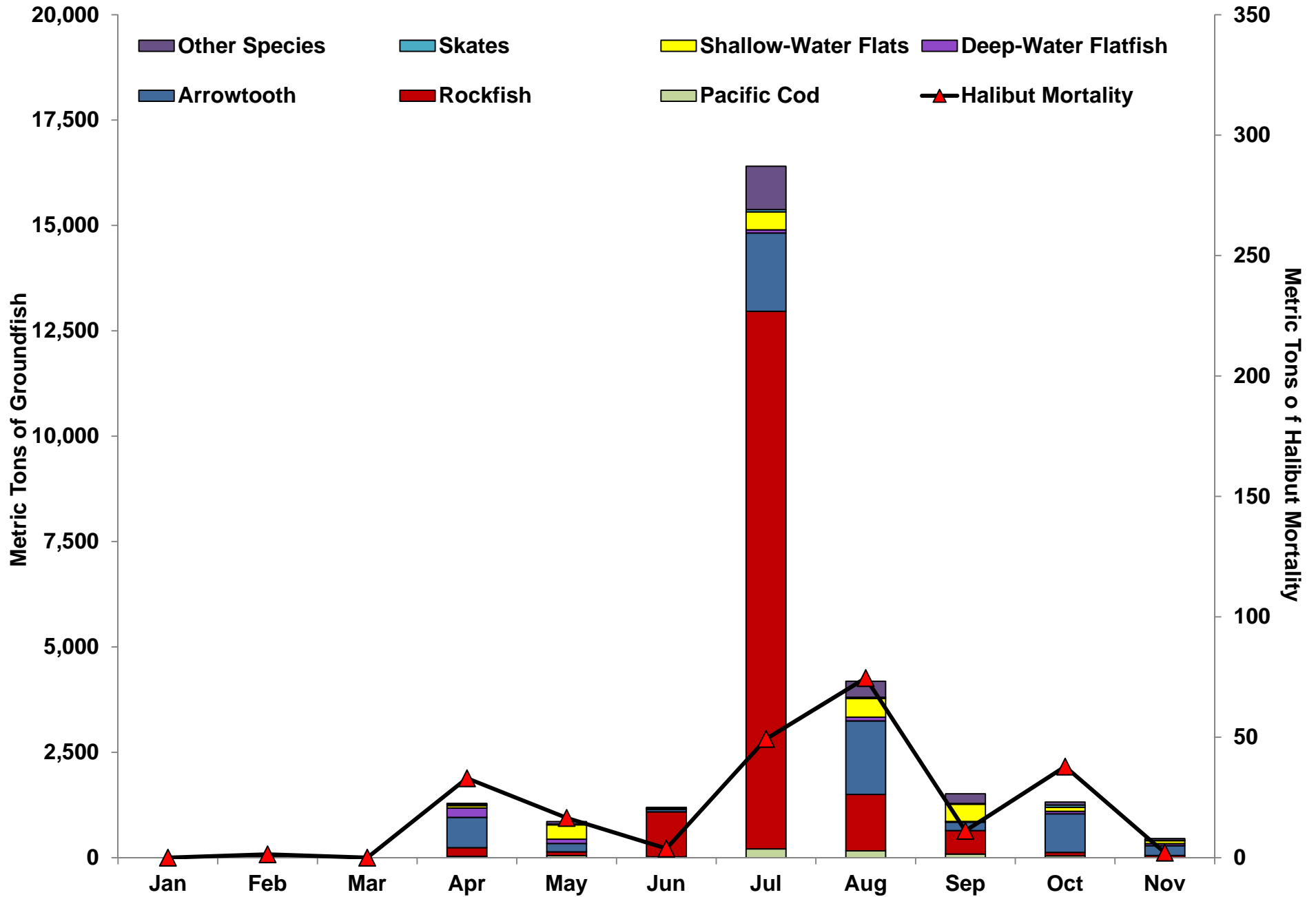
IFQ Sablefish and Pacific cod halibut mortality rate is 11%.

Trawl Halibut (mt)	Total Discard	Mortality	Mortality Limit	%
Pollock	224	130	1,706	76%
Pacific Cod	673	417		
Rockfish \ Sablefish	126	82		
Arrowtooth Flounder	772	586		
Deep Water Flatfish	20	14		
Shallow Water Flatfish	107	71		
TOTAL	1,922	1,299	1,706	76%

2016 GOA Catcher Vessel Trawl Catch and Halibut Mortality



2016 GOA Catcher/Processor Trawl Catch and Halibut Mortality



2016 Trawl Halibut Mortality

	Season	Start Date	End Date	Limit (mt)	Total Mortality (mt)	%
Deep Water Species	1	Jan 20	Apr 1	92	92	100%
	2	Apr 1	Jul 1	299	300	100%
	3	Jul 1	Sep 1	159	157	99%
	4	Sep 1	Sep 30	0	1	n/a
	TOTAL				550	551
Shallow Water Species	Season					
	1	Jan 20	Apr 1	257	256	100%
	2	Apr 1	Jul 1	144	144	100%
	3	Jul 1	Sep 1	180	45	25%
	4	Sep 1	Sep 30	128	147	115%
TOTAL				709	593	84%
Rockfish Program				191	69	36%
Season 5 Halibut Allocation		Oct 1	Dec 31	256	86	36%
TOTAL Halibut Mortality				1,706	1,299	76%

*Includes reallocation between Deep water and Shallow water in July

2016 GOA Reduction in Halibut Mortality Compared to 5 year Average

Sector	2011-2015 Average (mt)	2016 (mt)	% Change (mt)	2011-2015 Rate*	2016 Rate*	% Change (rate)
Hook-and-line						
Catcher/Processors	73	69	-6%	11.19	11.91	6%
Catcher Vessels	132	165	25%	12.73	30.76	142%
Total	205	234	14%	12.22	20.99	72%
Trawl Catcher Vessels						
Central GOA Catcher Vessels (NPT)	1,008	949	-6%	21.37	21.43	0%
Western GOA Catcher Vessels (NPT)	72	107	50%	12.86	13.94	8%
Pelagic Trawl Catcher Vessels	12	13	15%	0.12	0.08	-38%
Total	1,091	1,069	-2%	6.87	4.67	-32%
Trawl Catcher/Processors						
Total	431	230	-47%	11.71	8.42	-28%
All Sectors						
TOTAL	1,727	1,533	-11%	8.06	5.73	-29%

* Rate is kg of halibut / mt of groundfish

2016 GOA Reduction in Halibut Mortality Compared to 2015

Sector	2015 (mt)	2016 (mt)	% Change (mt)	2015 Rate*	2016 Rate*	% Change (rate)
Hook-and-line						
Catcher/Processors	69	69	-1%	10.07	11.91	18%
Catcher Vessels	148	165	11%	16.52	30.76	86%
Total	217	234	7%	13.73	20.99	53%
Trawl Catcher Vessels						
Central GOA Catcher Vessels (NPT)	977	949	-3%	24.23	21.43	12%
Western GOA Catcher Vessels (NPT)	47	107	127%	6.35	13.94	120%
Pelagic Trawl Catcher Vessels	13	13	3%	0.08	0.08	-3%
Total	1,037	1,069	3%	4.86	4.67	-4%
Trawl Catcher/Processors						
Total	375	230	-39%	10.81	8.42	-22%
All Sectors						
TOTAL	1,629	1,533	-6%	6.17	5.73	-7%

* Rate is kg of halibut / mt of groundfish