NOAA FISHERIES

Alaska Region

Gulf of Alaska Inseason Management Report

December 2019

Catch data are through November 9, 2019

Management reports can be found at:
https://www.fisheries.noaa.gov/alaska/commercial-fishing/fisheries-catch-and-landings-reports

Report Prepared by:
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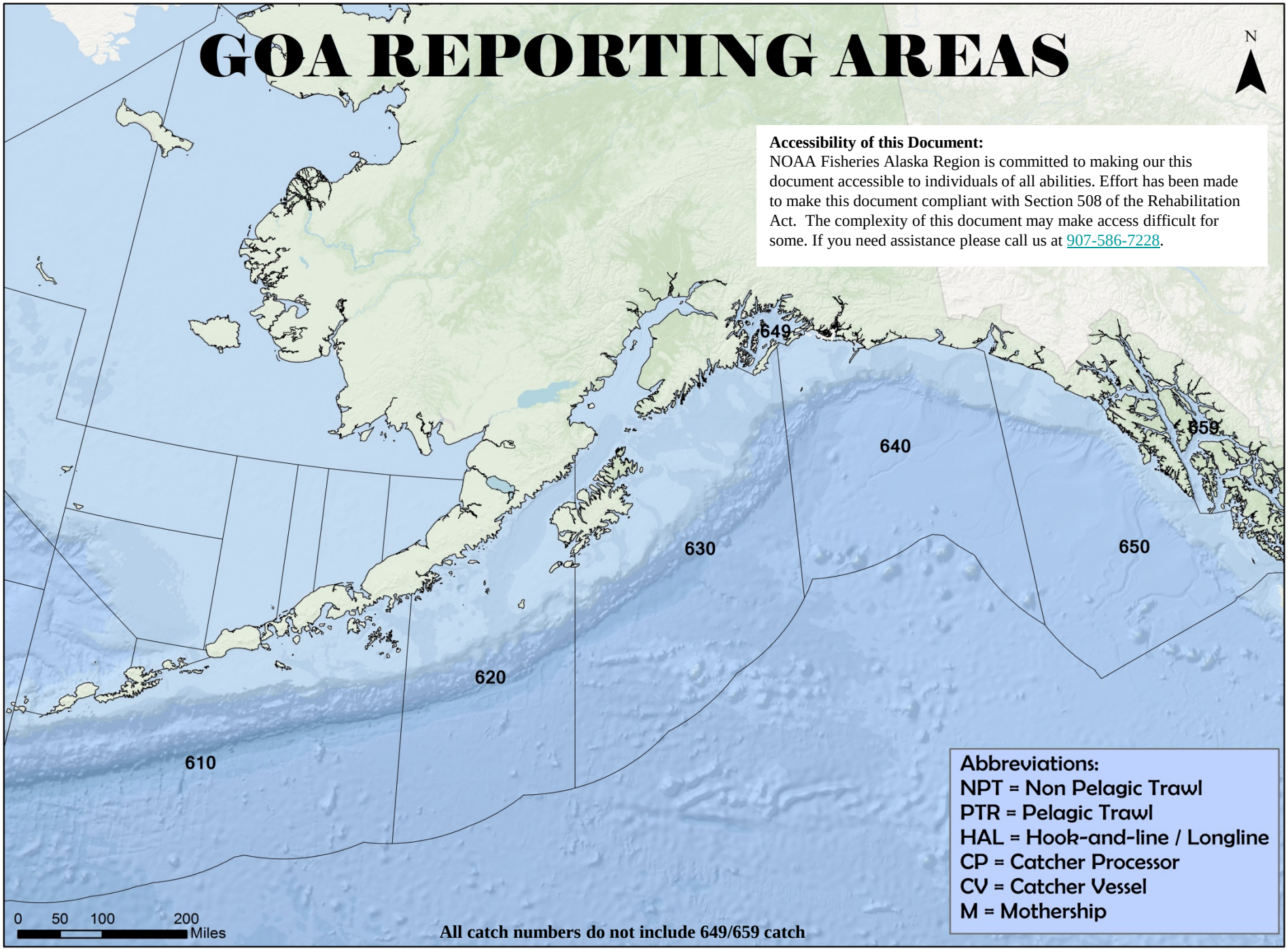
November 2019

GOA REPORTING AREAS



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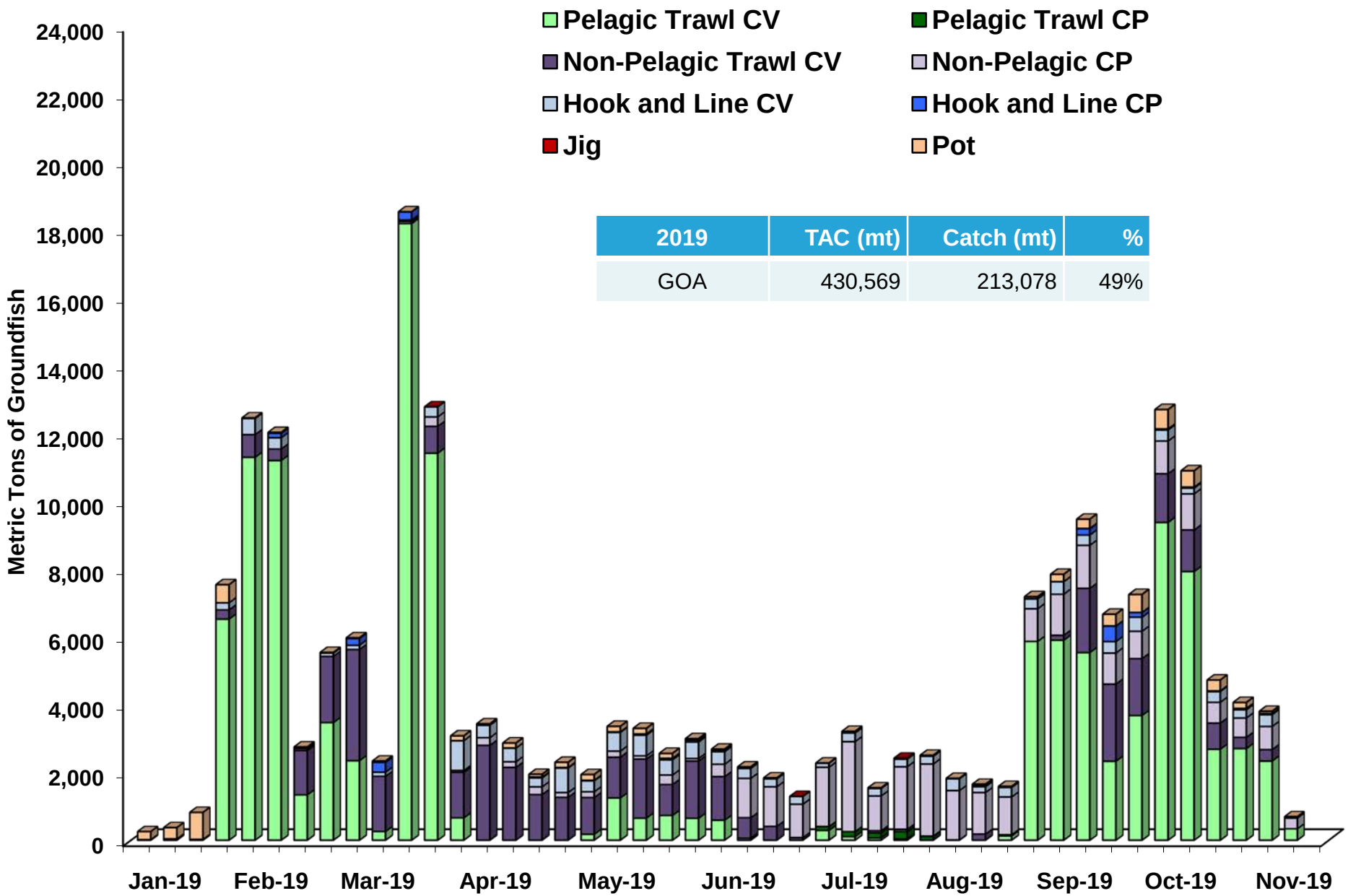
Abbreviations:
NPT = Non Pelagic Trawl
PTR = Pelagic Trawl
HAL = Hook-and-line / Longline
CP = Catcher Processor
CV = Catcher Vessel
M = Mothership

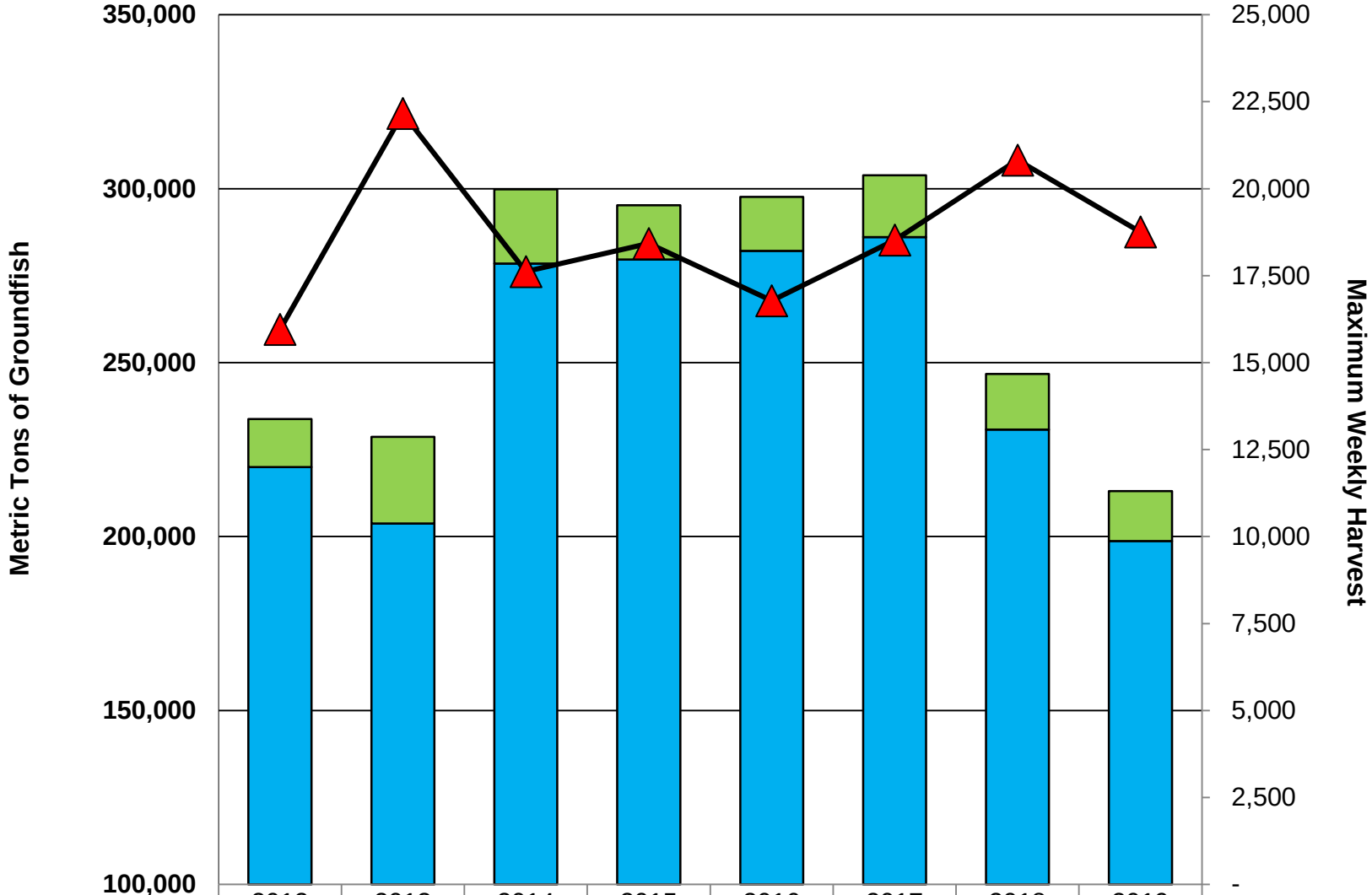
All catch numbers do not include 649/659 catch

2019 GOA Total Groundfish Catch by Gear and Sector



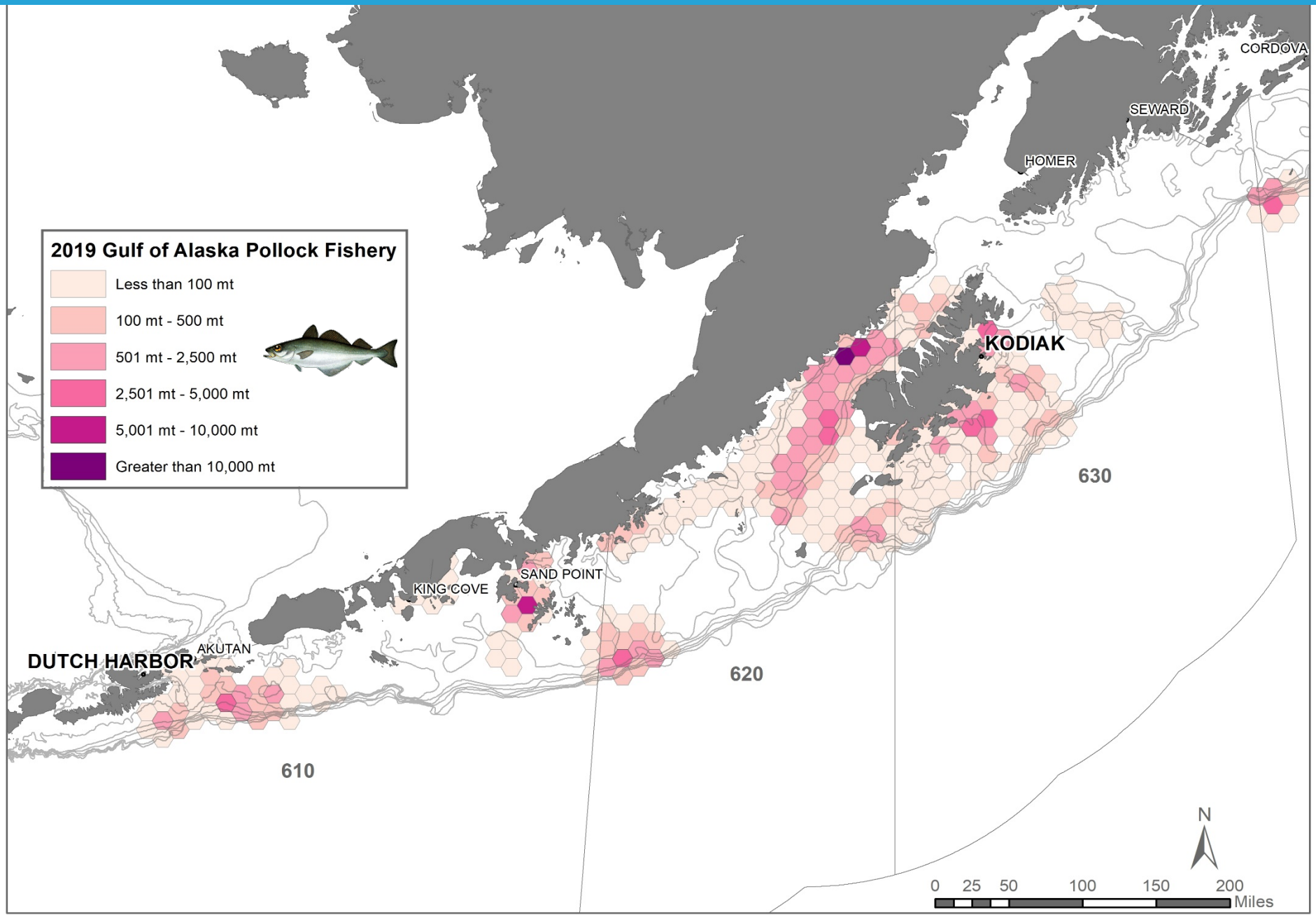
2019	TAC (mt)	Catch (mt)	%
GOA	430,569	213,078	49%

GOA Total Groundfish Catch and Maximum Weekly Harvest

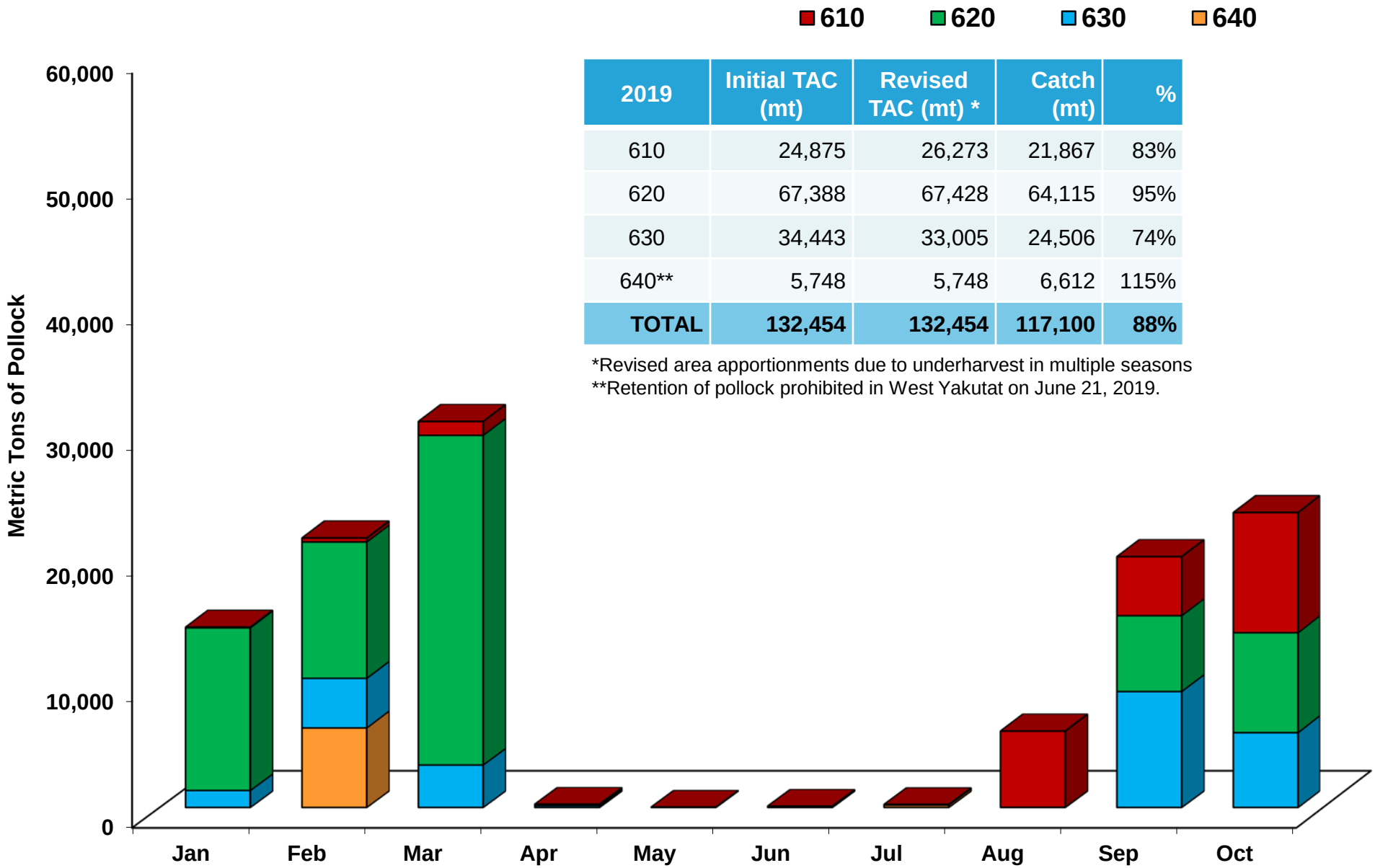


	2012	2013	2014	2015	2016	2017	2018	2019
Discarded Catch	13,745	24,976	21,310	15,641	15,524	17,810	15,970	14,326
Retained Catch	220,011	203,722	278,487	279,612	282,142	286,064	230,775	198,752
Maximum Weekly Harvest	15,951	22,163	17,616	18,423	16,777	18,519	20,822	18,752

2019 Gulf of Alaska Pollock Directed Fishery



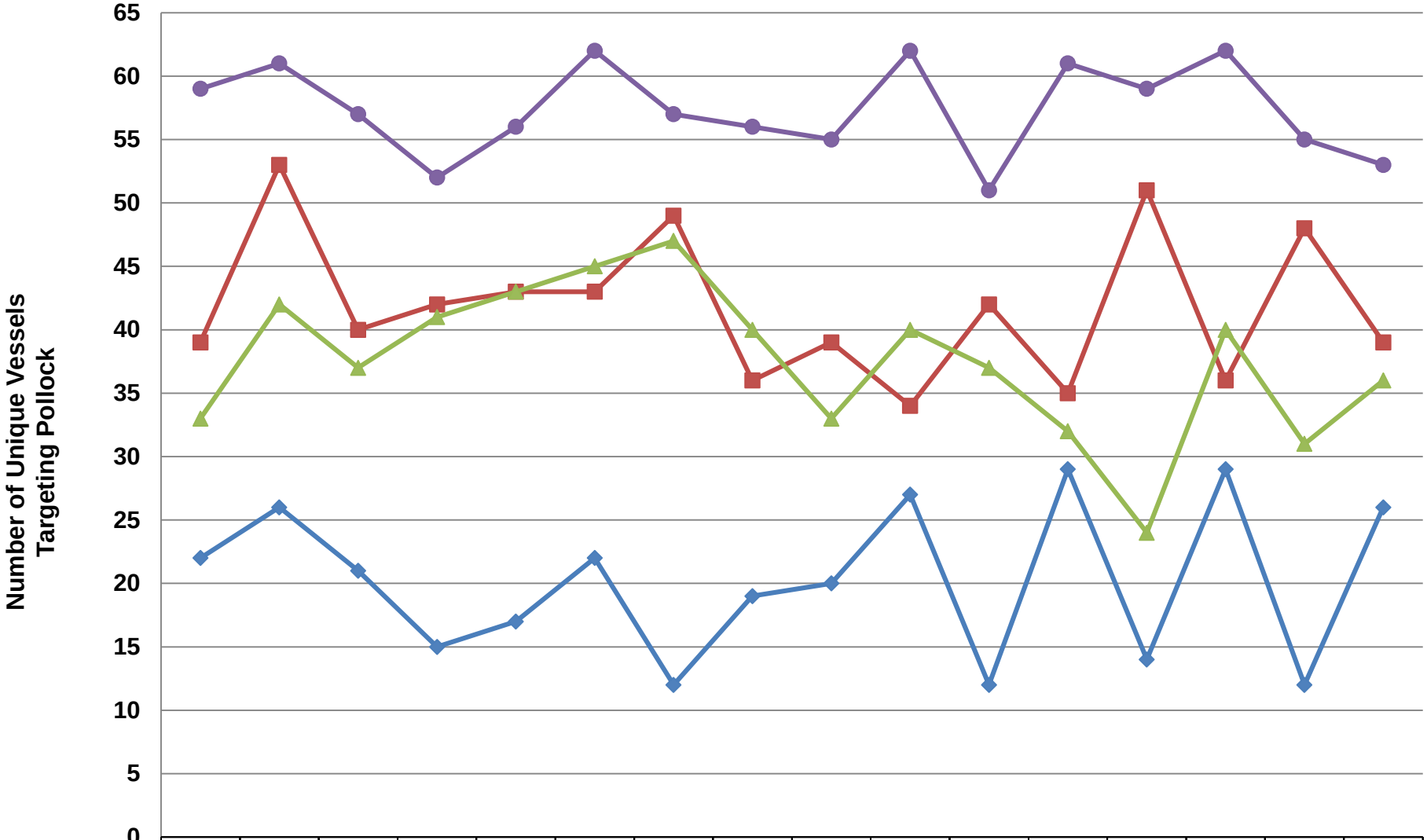
2019 Pollock Catch in the GOA



2019	Initial TAC (mt)	Revised TAC (mt) *	Catch (mt)	%
610	24,875	26,273	21,867	83%
620	67,388	67,428	64,115	95%
630	34,443	33,005	24,506	74%
640**	5,748	5,748	6,612	115%
TOTAL	**132,454**	**132,454**	**117,100**	**88%**

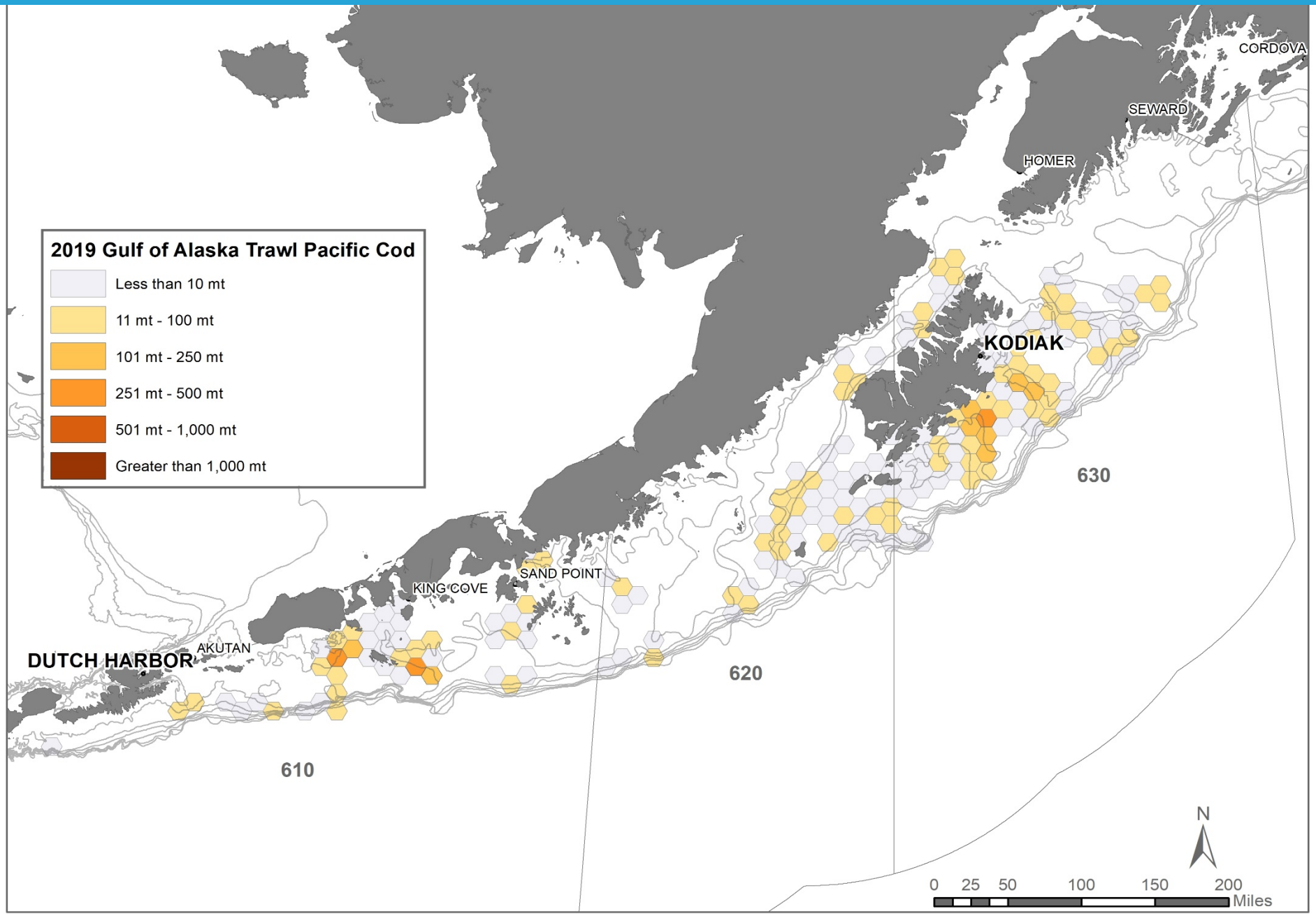
*Revised area apportionments due to underharvest in multiple seasons
**Retention of pollock prohibited in West Yakutat on June 21, 2019.

2012 – 2019 Counts of Vessels Targeting GOA Pollock

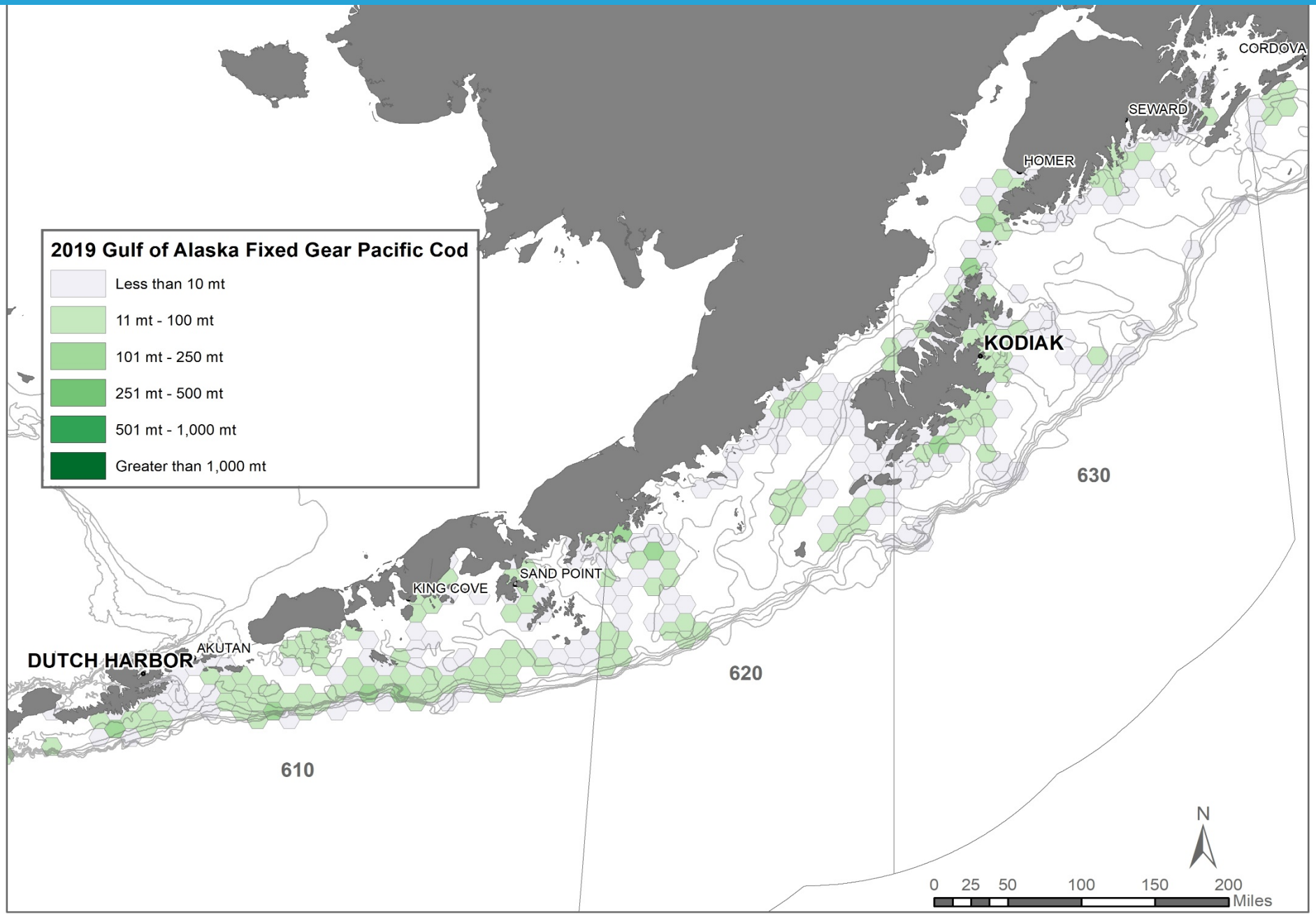


	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019
610	22	26	21	15	17	22	12	19	20	27	12	29	14	29	12	26
620	39	53	40	42	43	43	49	36	39	34	42	35	51	36	48	39
630	33	42	37	41	43	45	47	40	33	40	37	32	24	40	31	36
All Areas	59	61	57	52	56	62	57	56	55	62	51	61	59	62	55	53

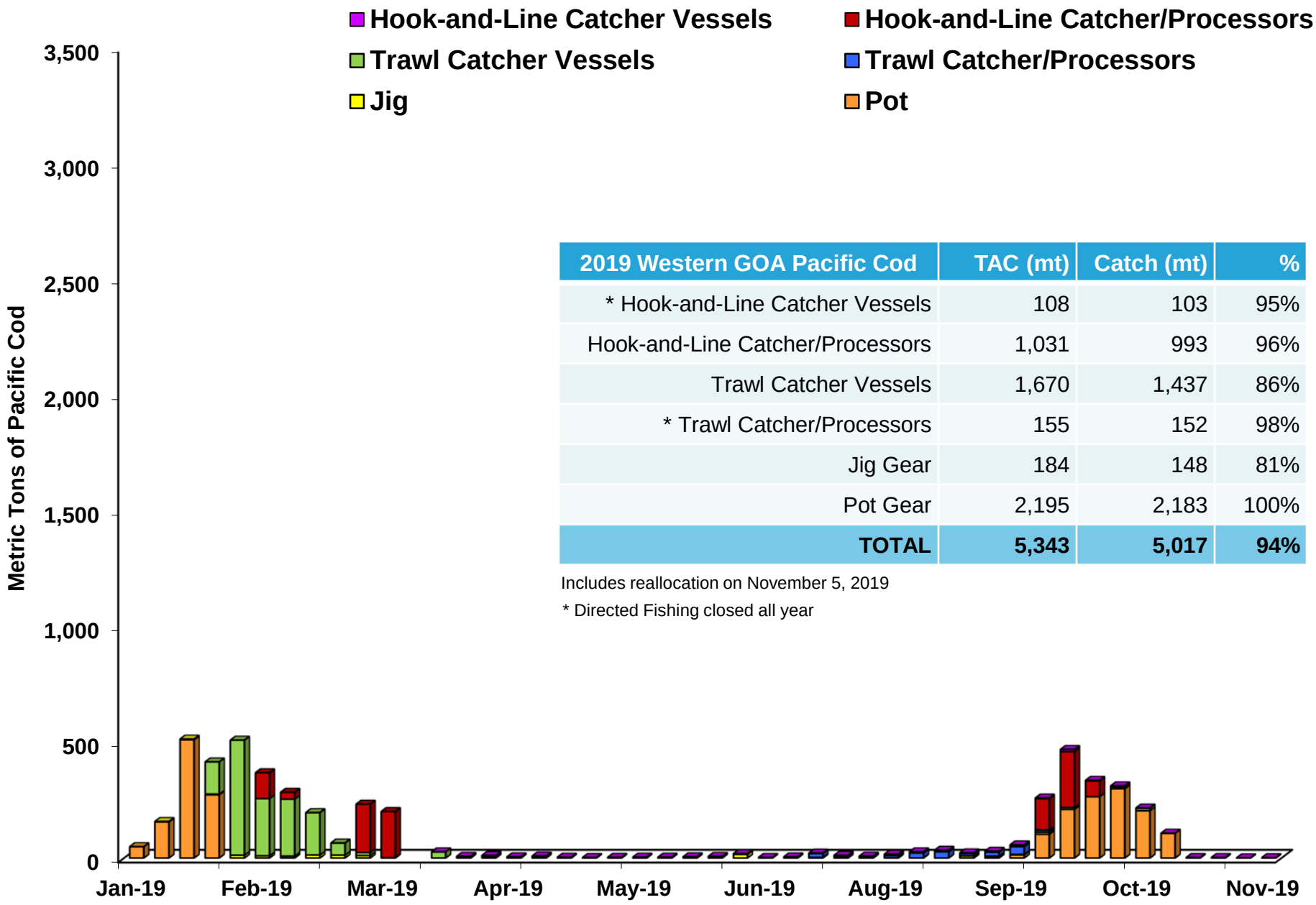
2019 Gulf of Alaska Pacific Cod Catch by Trawl Gear



2019 Gulf of Alaska Pacific Cod Catch by Non-Trawl Gear



2019 Western GOA Pacific Cod Catch by Week and Sector

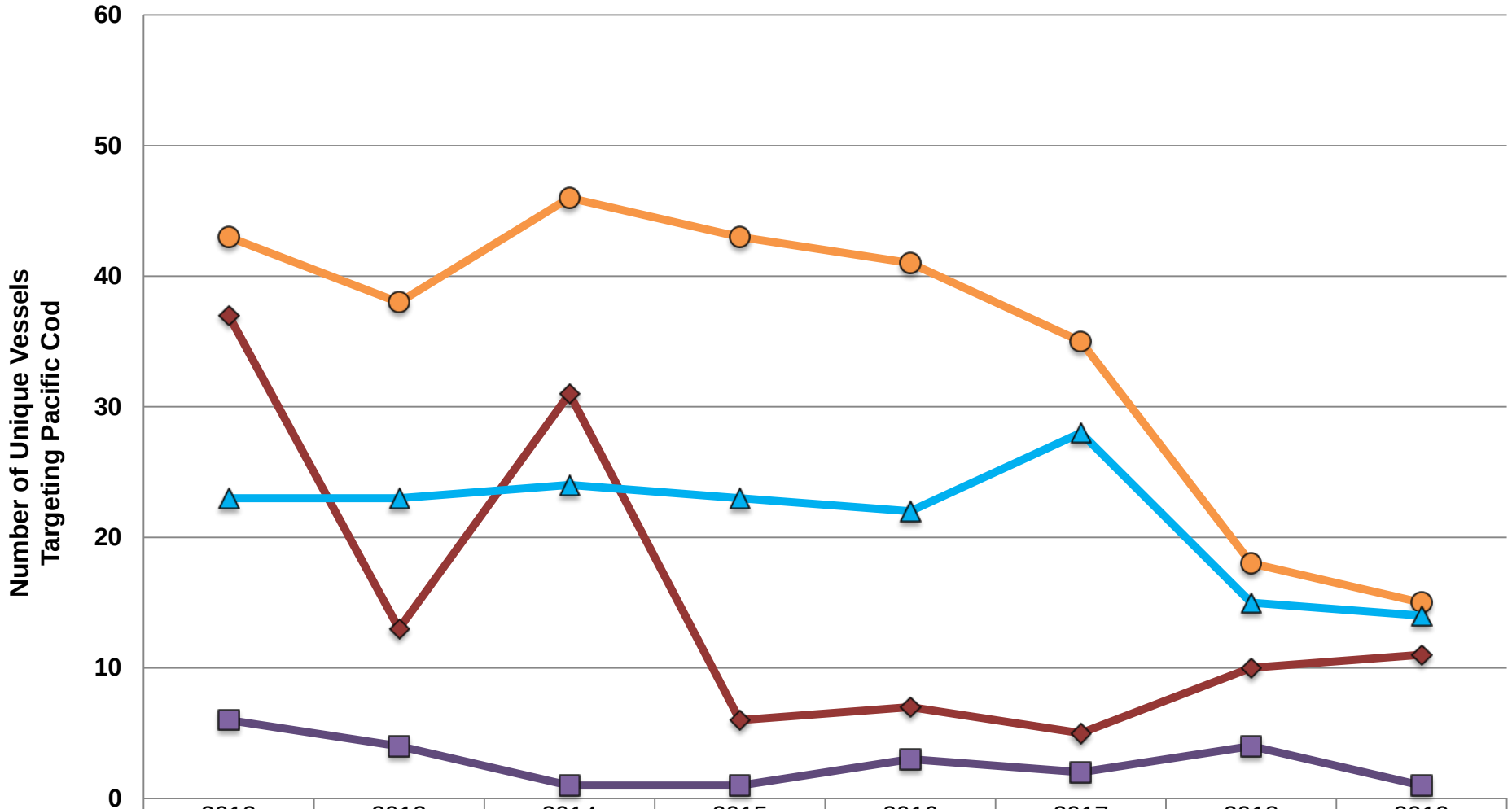


2019 Western GOA Pacific Cod	TAC (mt)	Catch (mt)	%
* Hook-and-Line Catcher Vessels	108	103	95%
Hook-and-Line Catcher/Processors	1,031	993	96%
Trawl Catcher Vessels	1,670	1,437	86%
* Trawl Catcher/Processors	155	152	98%
Jig Gear	184	148	81%
Pot Gear	2,195	2,183	100%
TOTAL	**5,343**	**5,017**	**94%**

Includes reallocation on November 5, 2019

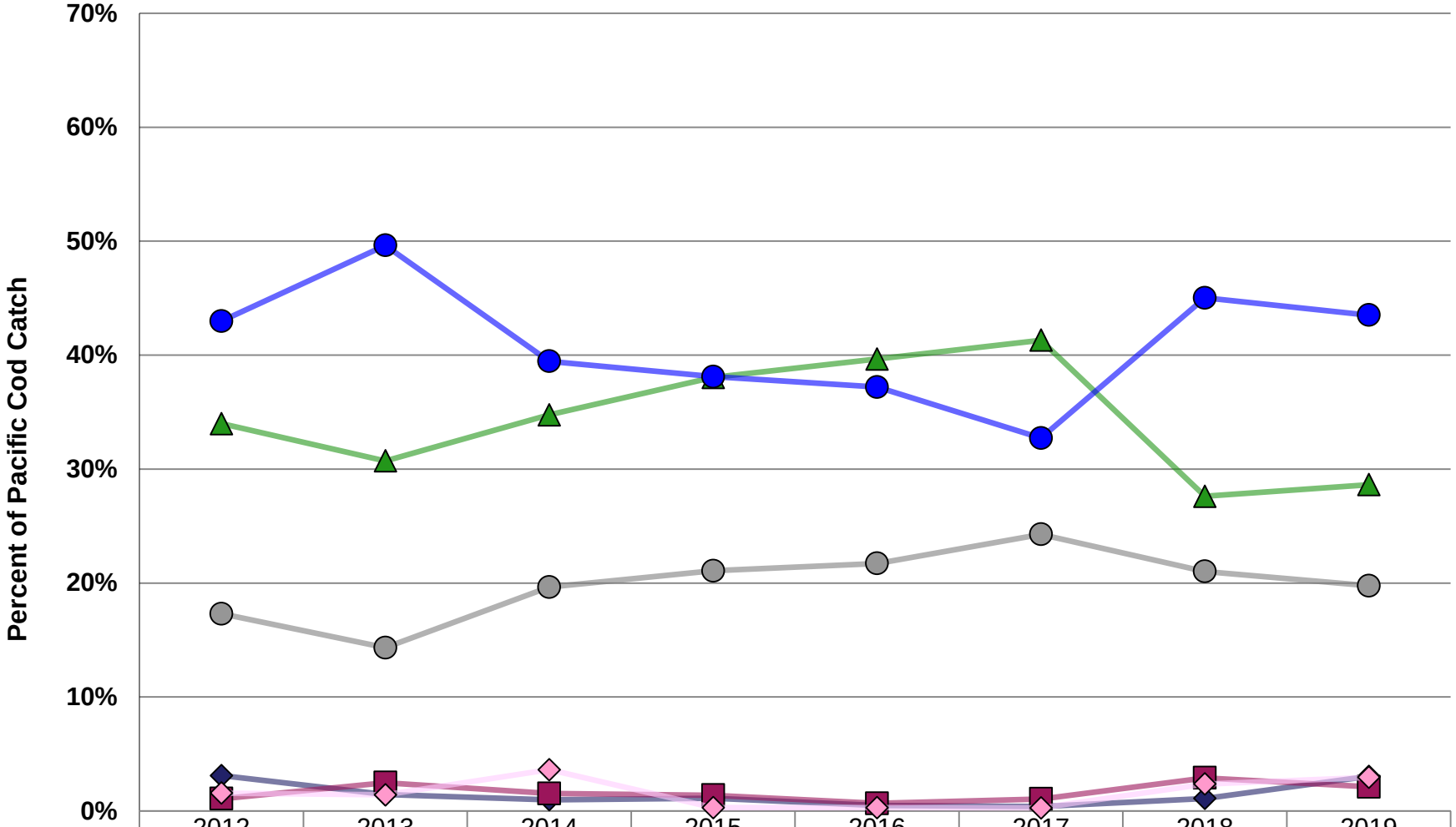
* Directed Fishing closed all year

2012 – 2019 Counts of Catcher Vessels Targeting Western GOA Pacific Cod



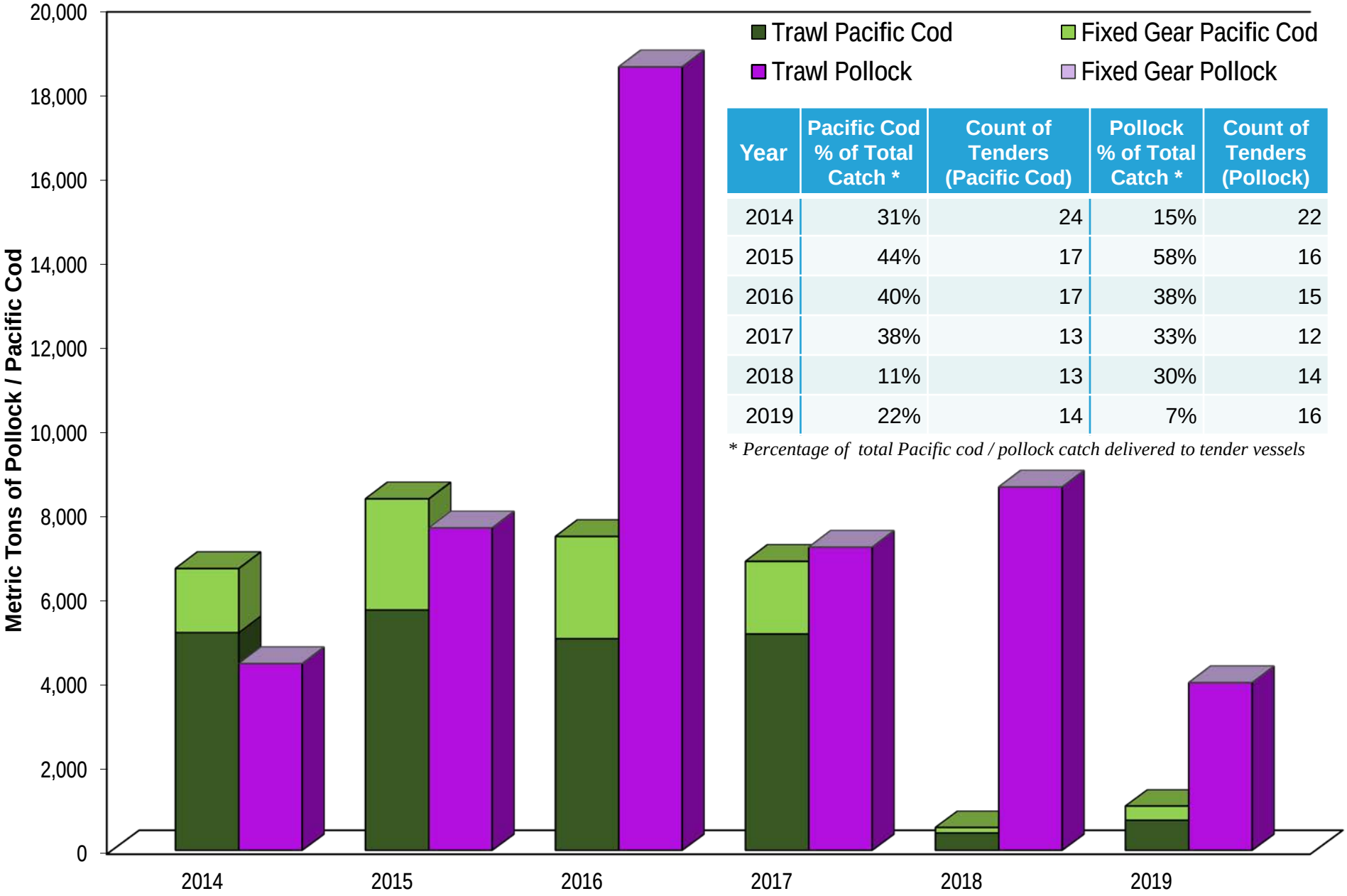
	2012	2013	2014	2015	2016	2017	2018	2019
HAL	6	4	1	1	3	2	4	1
JIG	37	13	31	6	7	5	10	11
POT	43	38	46	43	41	35	18	15
TRW	23	23	24	23	22	28	15	14
TOTAL	101	72	86	62	63	65	47	41

2012 – 2019 Western GOA Pacific Cod Catch by Sector



	2012	2013	2014	2015	2016	2017	2018	2019
Trawl (CV)	34%	31%	35%	38%	40%	41%	28%	29%
Trawl (CP)	3%	1%	1%	1%	0%	0%	1%	3%
HAL (CV)	1%	2%	2%	1%	1%	1%	3%	2%
Pot (CV)	43%	50%	39%	38%	37%	33%	45%	44%
Jig (CV)	2%	1%	4%	0%	0%	0%	2%	3%
Fixed Gear CP	17%	14%	20%	21%	22%	24%	21%	20%

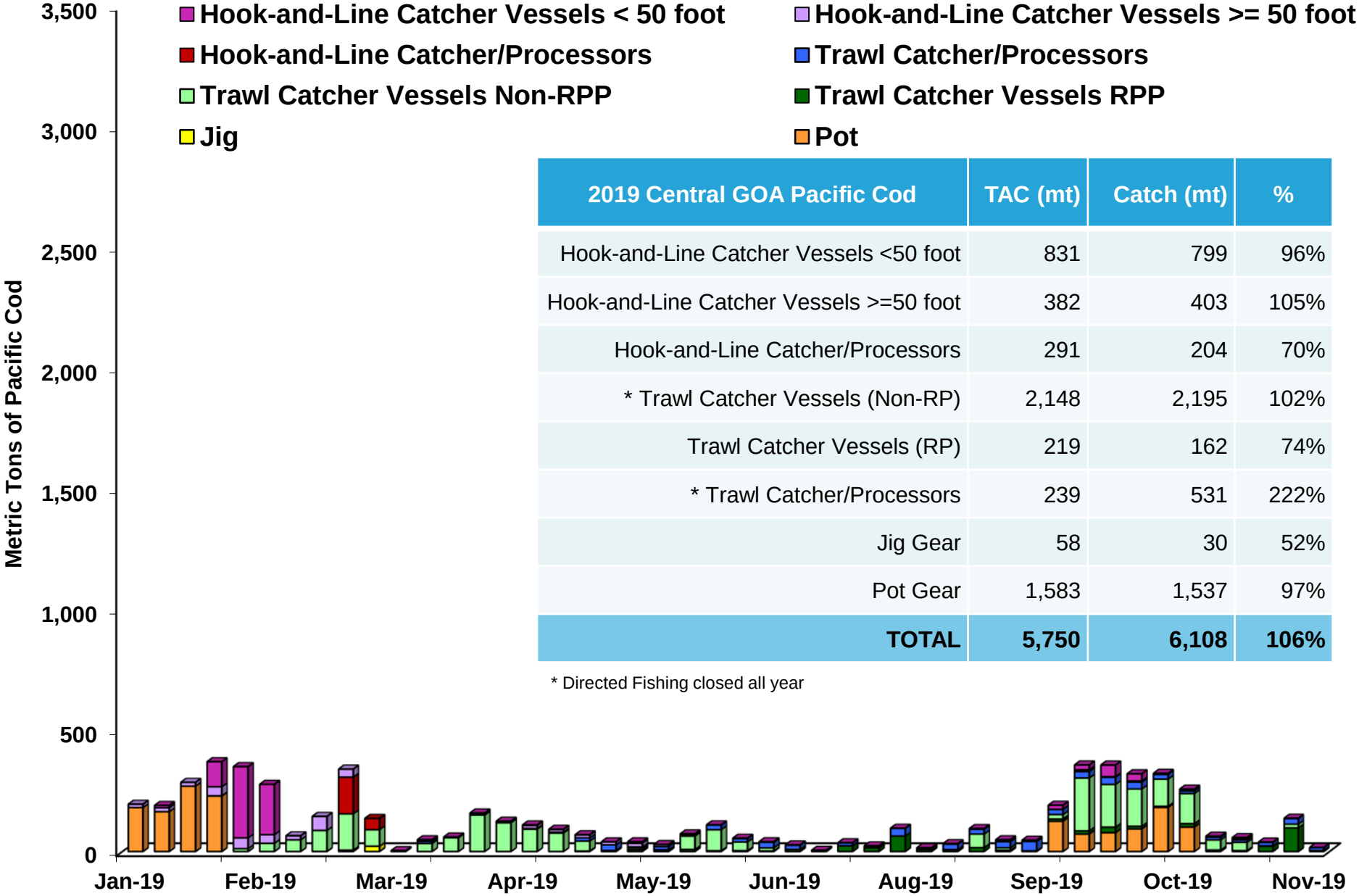
Western GOA Tender Vessels Report



Year	Pacific Cod % of Total Catch *	Count of Tenders (Pacific Cod)	Pollock % of Total Catch *	Count of Tenders (Pollock)
2014	31%	24	15%	22
2015	44%	17	58%	16
2016	40%	17	38%	15
2017	38%	13	33%	12
2018	11%	13	30%	14
2019	22%	14	7%	16

** Percentage of total Pacific cod / pollock catch delivered to tender vessels*

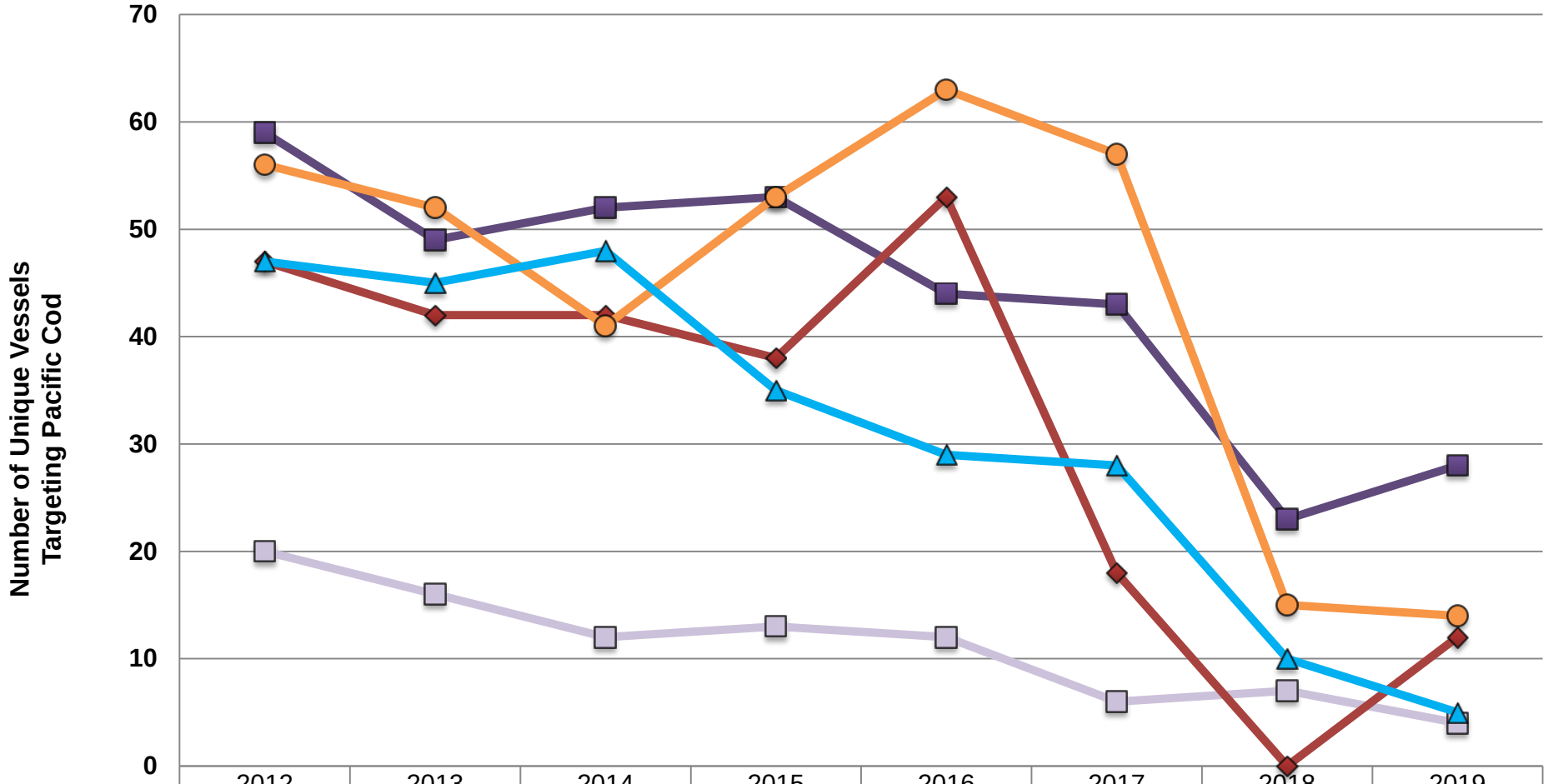
2019 Central GOA Pacific Cod Catch by Week and Sector



2019 Central GOA Pacific Cod	TAC (mt)	Catch (mt)	%
Hook-and-Line Catcher Vessels <50 foot	831	799	96%
Hook-and-Line Catcher Vessels >=50 foot	382	403	105%
Hook-and-Line Catcher/Processors	291	204	70%
* Trawl Catcher Vessels (Non-RP)	2,148	2,195	102%
Trawl Catcher Vessels (RP)	219	162	74%
* Trawl Catcher/Processors	239	531	222%
Jig Gear	58	30	52%
Pot Gear	1,583	1,537	97%
TOTAL	**5,750**	**6,108**	**106%**

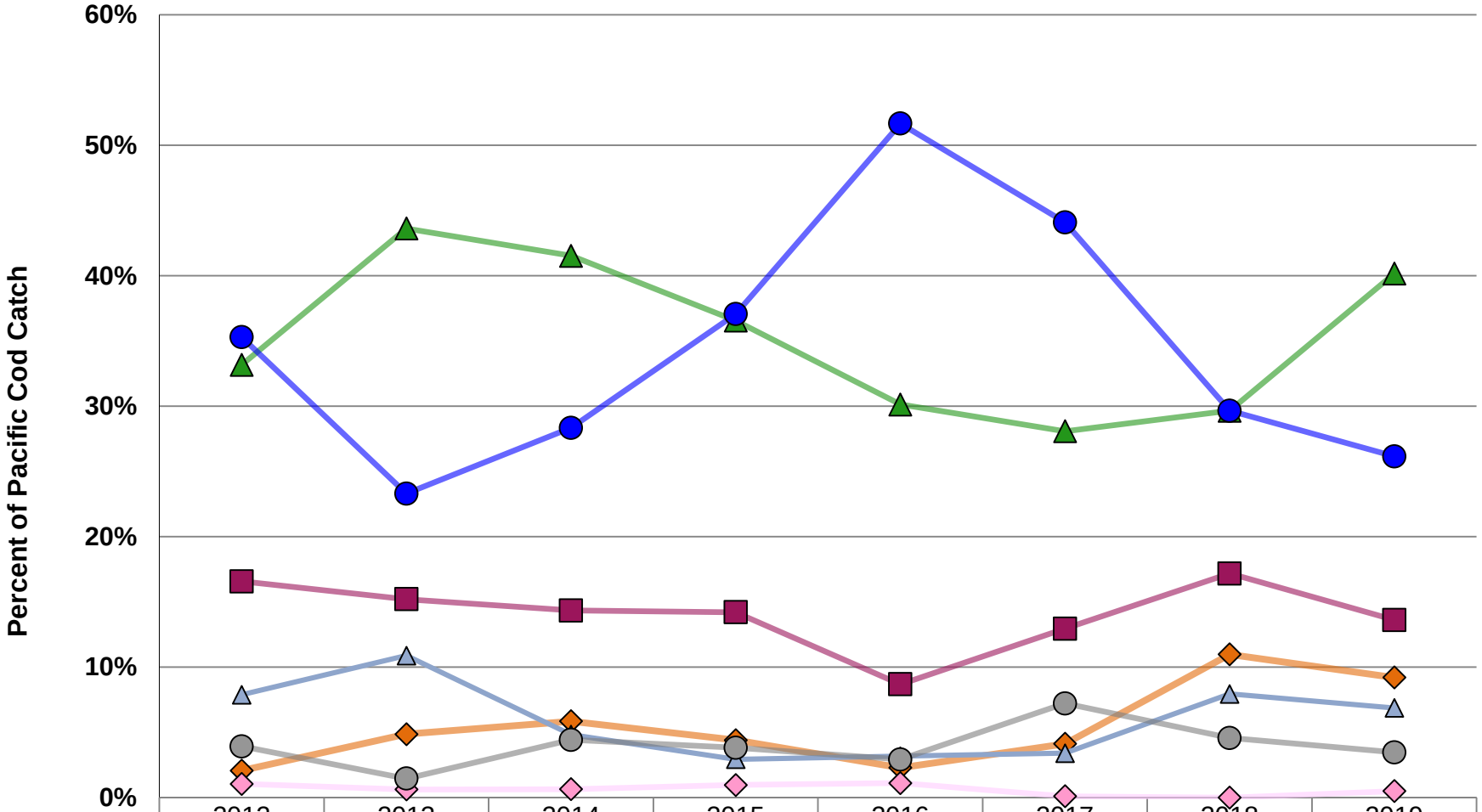
* Directed Fishing closed all year

2012 – 2019 Counts of Catcher Vessels Targeting Central GOA Pacific Cod



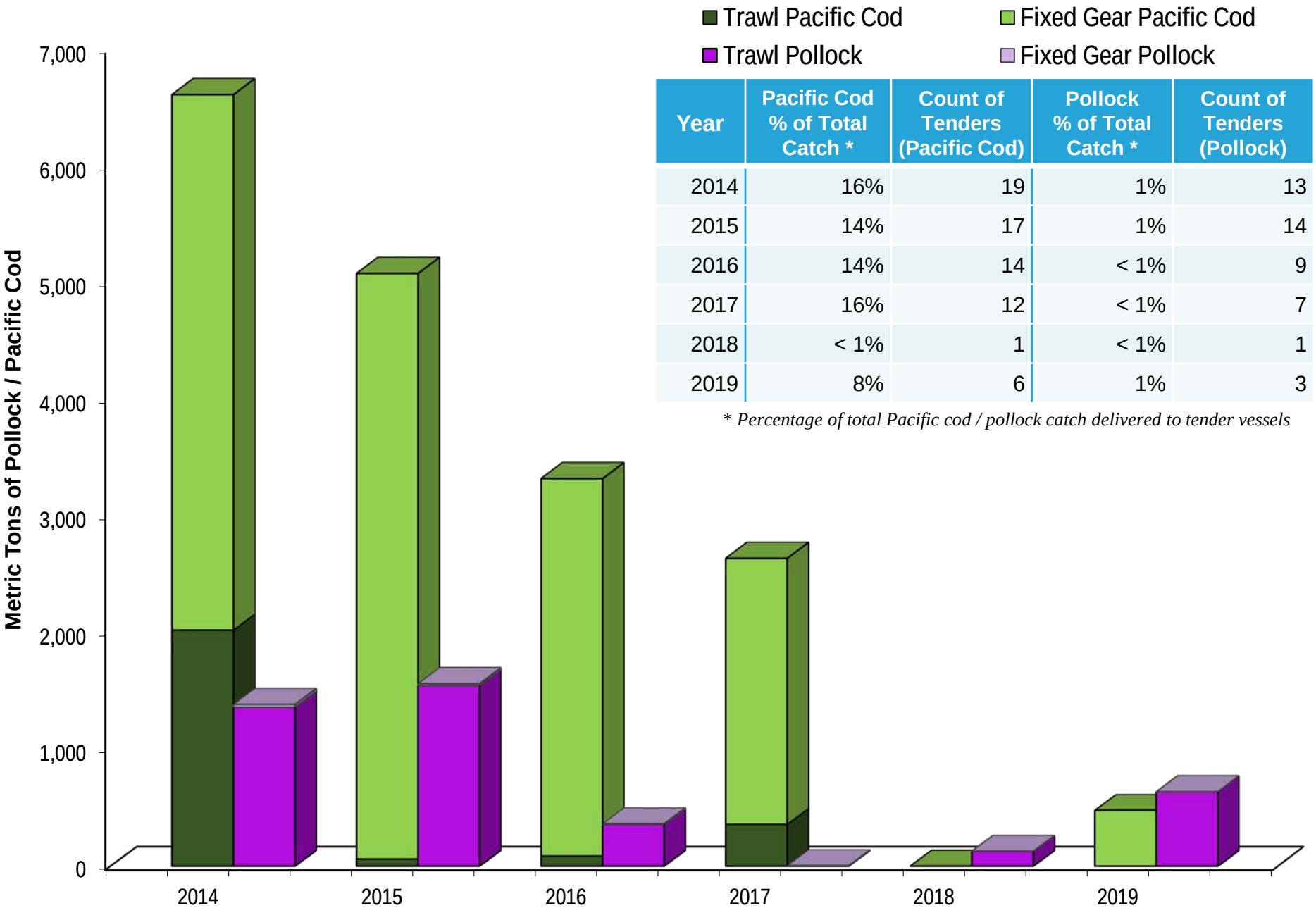
	2012	2013	2014	2015	2016	2017	2018	2019
HAL <50	59	49	52	53	44	43	23	28
HAL >=50	20	16	12	13	12	6	7	4
JIG	47	42	42	38	53	18	0	12
POT	56	52	41	53	63	57	15	14
TRW	47	45	48	35	29	28	10	5
TOTAL	275	269	217	222	237	255	170	64

2012 – 2019 Central GOA Pacific Cod Catch by Sector



	2012	2013	2014	2015	2016	2017	2018	2019
Trawl (CV)	33%	44%	42%	37%	30%	28%	30%	40%
Trawl (CP)	2%	5%	6%	4%	2%	4%	11%	9%
Pot (CV)	35%	23%	28%	37%	52%	44%	30%	26%
Jig (CV)	1%	1%	1%	1%	1%	0%	0%	1%
HAL <50 CV	17%	15%	14%	14%	9%	13%	17%	14%
HAL >= 50 CV	8%	11%	5%	3%	3%	3%	8%	7%
Fixed Gear (CP)	4%	1%	4%	4%	3%	7%	5%	3%

Central GOA Tender Vessels Report

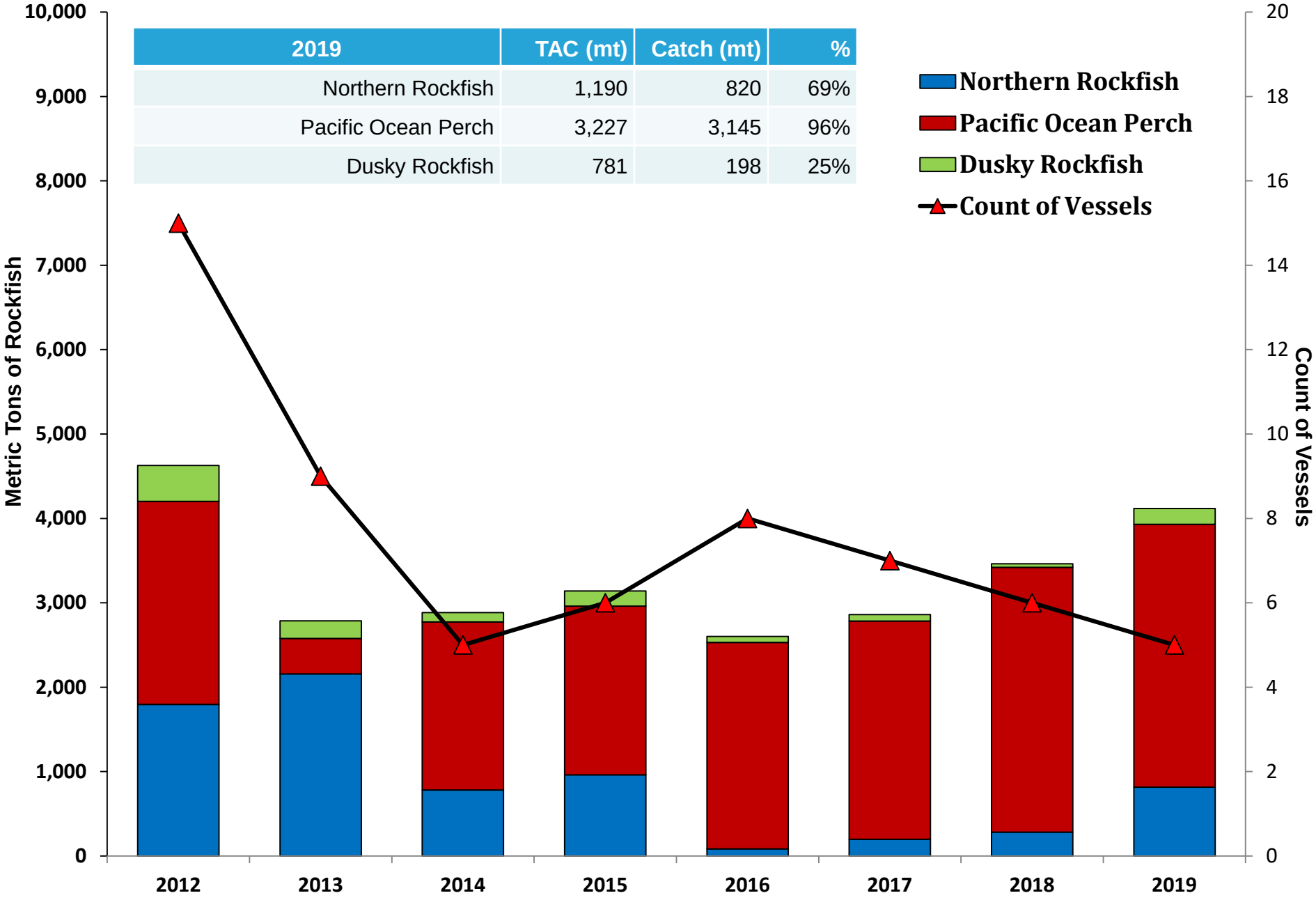


Year	Pacific Cod % of Total Catch *	Count of Tenders (Pacific Cod)	Pollock % of Total Catch *	Count of Tenders (Pollock)
2014	16%	19	1%	13
2015	14%	17	1%	14
2016	14%	14	< 1%	9
2017	16%	12	< 1%	7
2018	< 1%	1	< 1%	1
2019	8%	6	1%	3

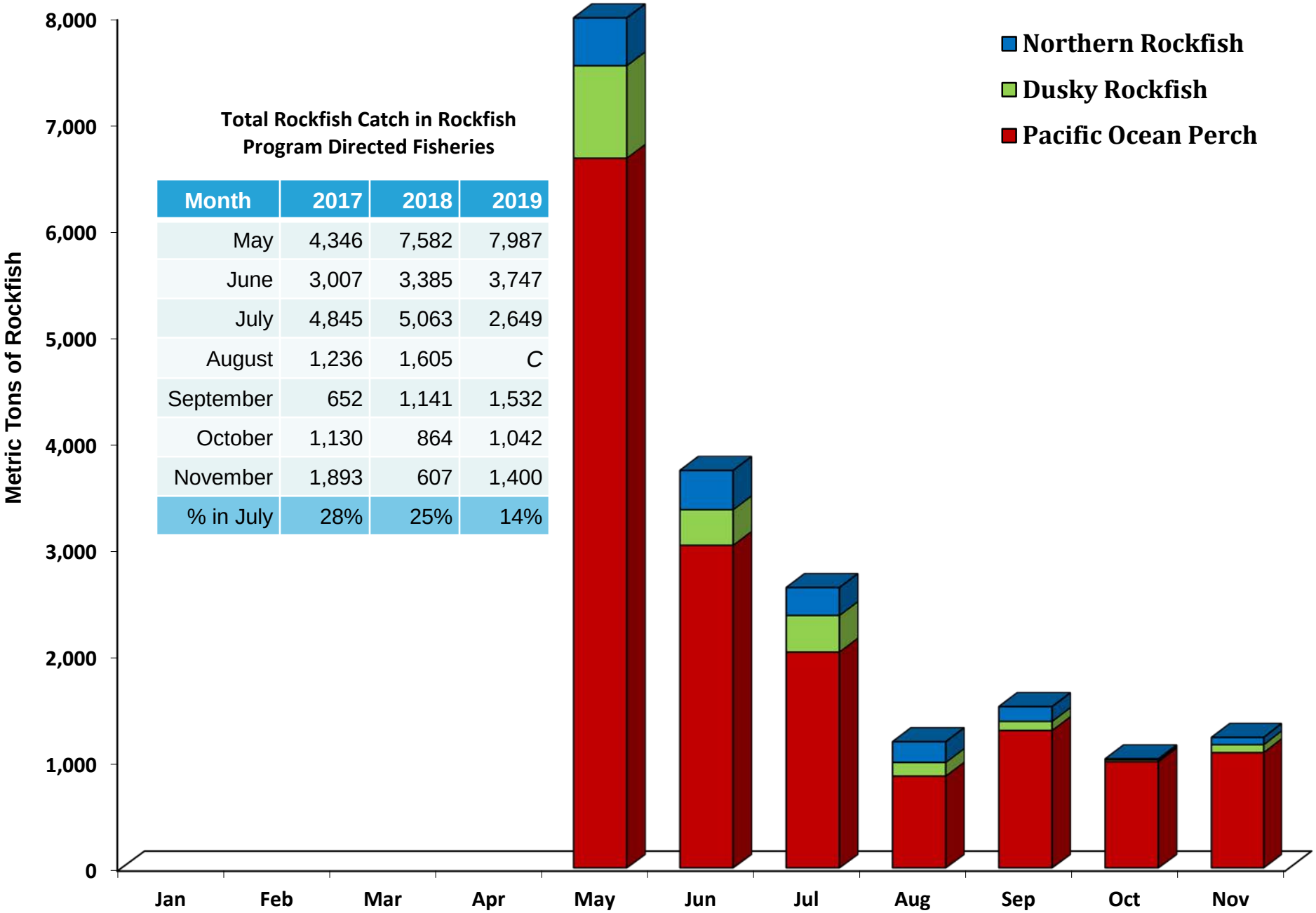
** Percentage of total Pacific cod / pollock catch delivered to tender vessels*

Western GOA Trawl Rockfish Fishery

2019	TAC (mt)	Catch (mt)	%
Northern Rockfish	1,190	820	69%
Pacific Ocean Perch	3,227	3,145	96%
Dusky Rockfish	781	198	25%



2019 Central GOA Trawl Rockfish Program Fishery by Month

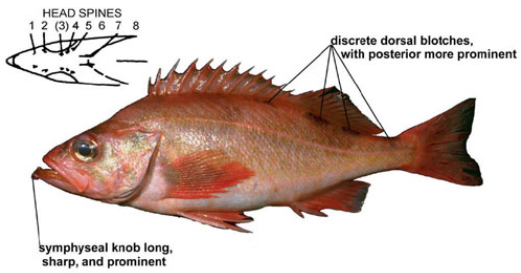


Total Rockfish Catch in Rockfish Program Directed Fisheries

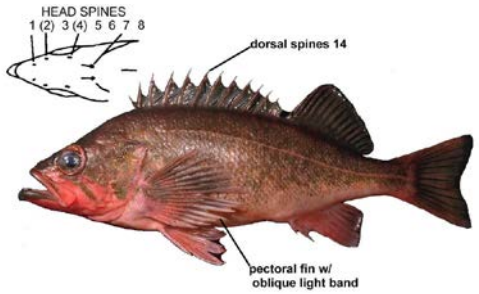
Month	2017	2018	2019
May	4,346	7,582	7,987
June	3,007	3,385	3,747
July	4,845	5,063	2,649
August	1,236	1,605	*C*
September	652	1,141	1,532
October	1,130	864	1,042
November	1,893	607	1,400
% in July	28%	25%	14%

2019 Rockfish Program Allocations and Catch

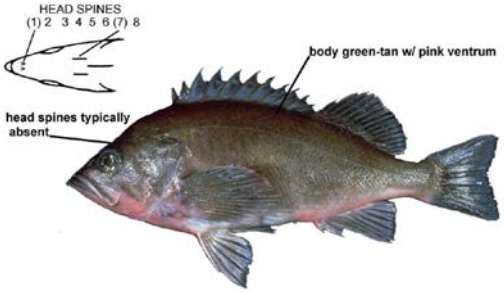
Species	Limit (mt)	Catch (mt)	%
Entry level Fixed Gear			
Pacific Ocean Perch	5	0	0%
Northern Rockfish	5	0	0%
Dusky Rockfish	50	13	25%
Cooperatives			
Pacific Ocean Perch	16,641	16,502	99%
Northern Rockfish	3,032	1,758	58%
Dusky Rockfish	2,464	1,997	81%
Pacific Cod	219	162	74%
Sablefish	533	512	96%
Thornyhead Rockfish	313	87	28%
Shortraker Rockfish	122	confidential	confidential
Rougheye Rockfish	324	confidential	confidential
Pacific Halibut PSC	191	51	27%
Primary Species Central GOA Incidental Catch			
Pacific Ocean Perch	3,000	2,443	81%
Northern Rockfish	300	169	56%
Dusky Rockfish	250	182	73%



Pacific Ocean Perch

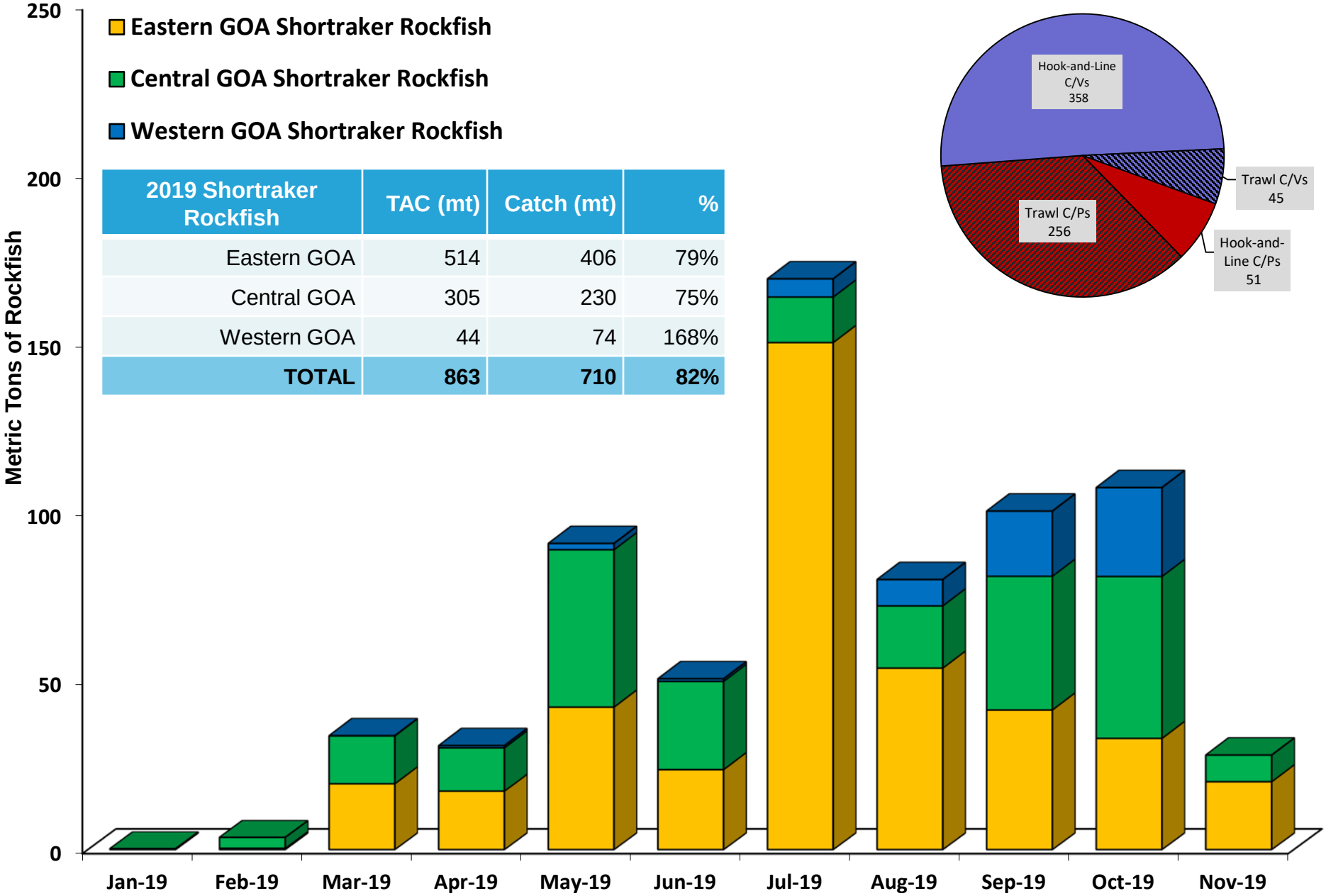


Northern Rockfish



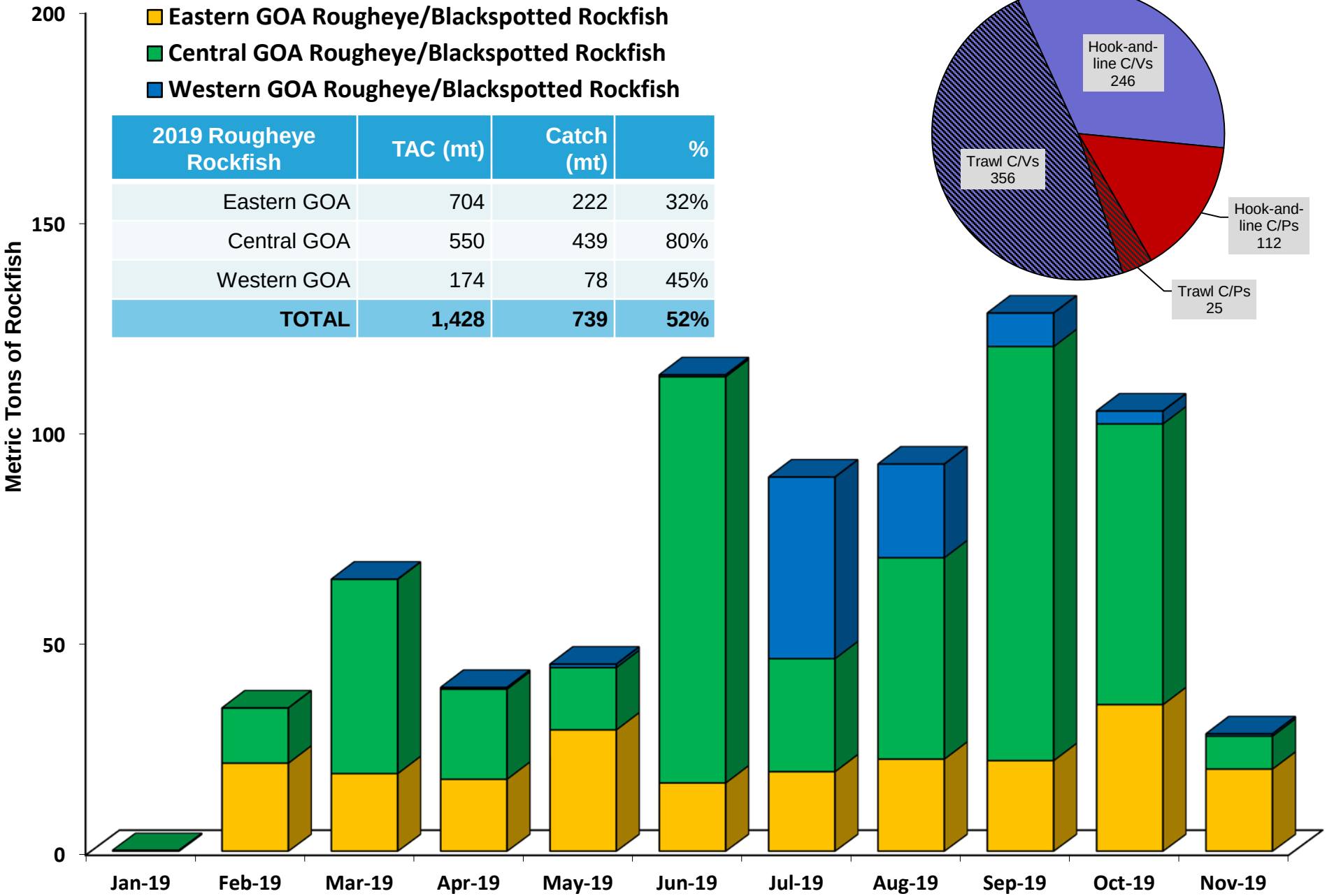
Dusky Rockfish

2019 GOA Shortraker Rockfish Catch



2019 Shortraker Rockfish	TAC (mt)	Catch (mt)	%
Eastern GOA	514	406	79%
Central GOA	305	230	75%
Western GOA	44	74	168%
TOTAL	**863**	**710**	**82%**

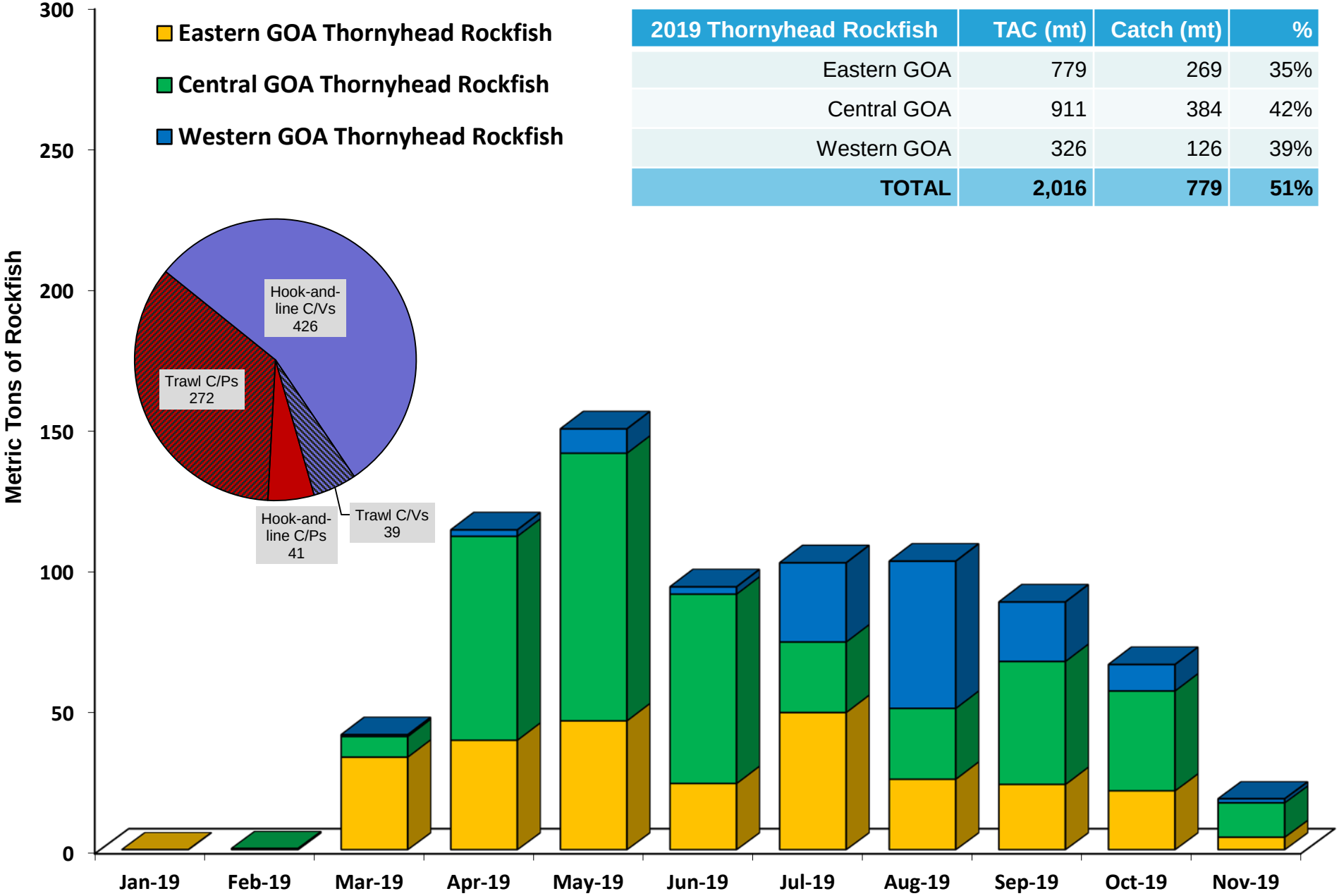
2019 GOA Rougheye/Blackspotted Rockfish Catch



2019 Rougheye Rockfish	TAC (mt)	Catch (mt)	%
Eastern GOA	704	222	32%
Central GOA	550	439	80%
Western GOA	174	78	45%
TOTAL	**1,428**	**739**	**52%**

2019 GOA Thornyhead Rockfish Catch

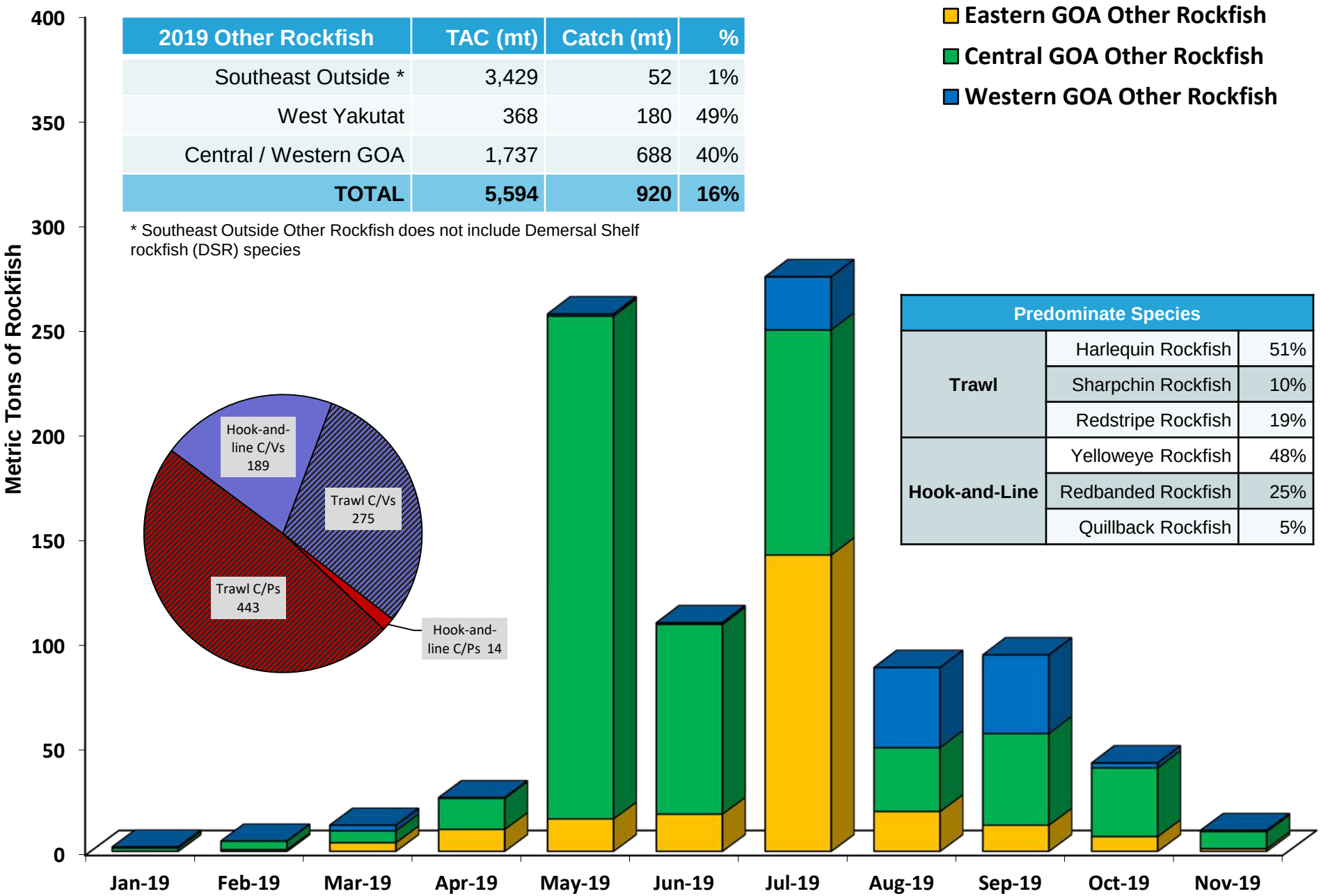
2019 Thornyhead Rockfish	TAC (mt)	Catch (mt)	%
Eastern GOA	779	269	35%
Central GOA	911	384	42%
Western GOA	326	126	39%
TOTAL	**2,016**	**779**	**51%**



2019 GOA Other Rockfish Catch

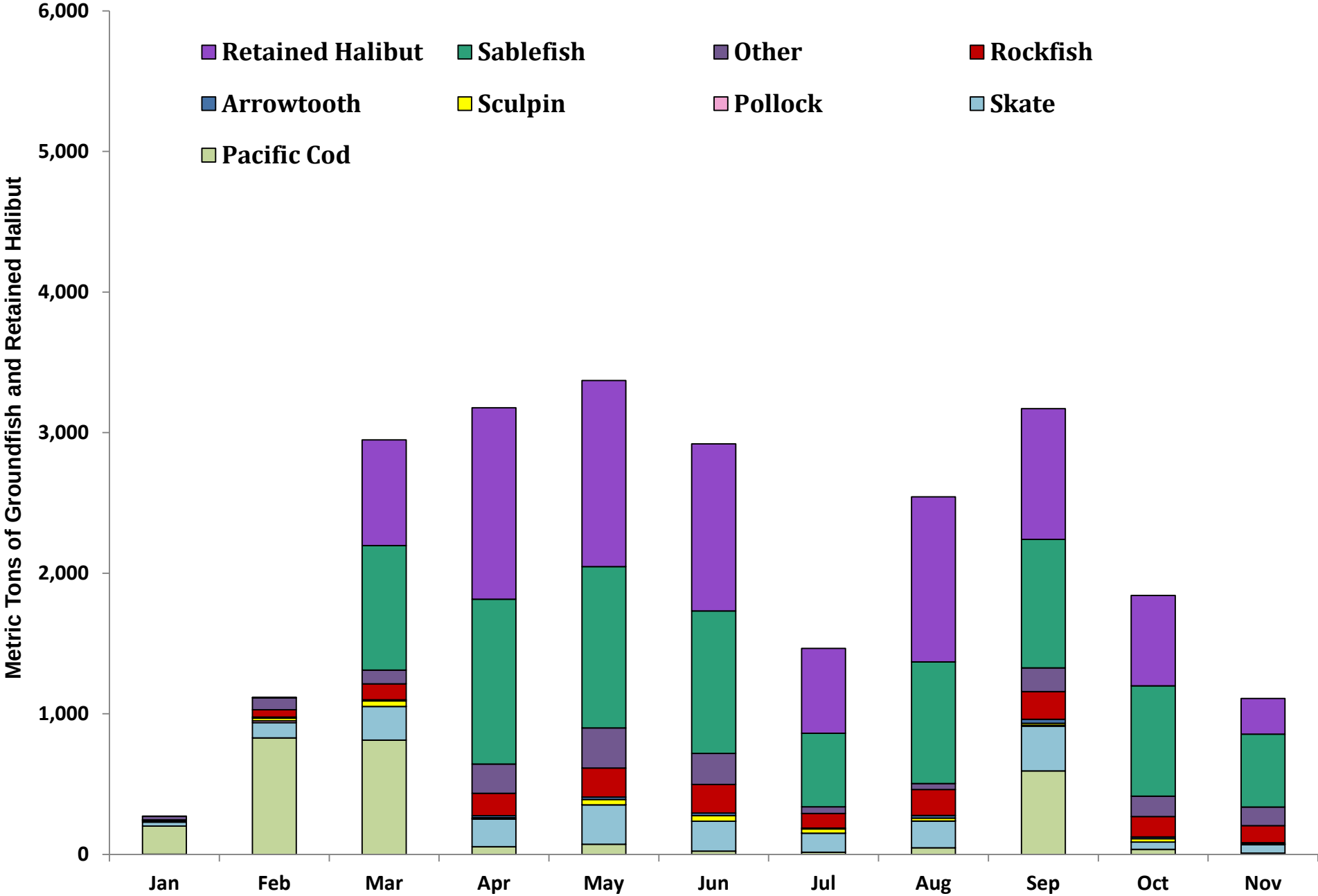
2019 Other Rockfish	TAC (mt)	Catch (mt)	%
Southeast Outside *	3,429	52	1%
West Yakutat	368	180	49%
Central / Western GOA	1,737	688	40%
TOTAL	**5,594**	**920**	**16%**

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

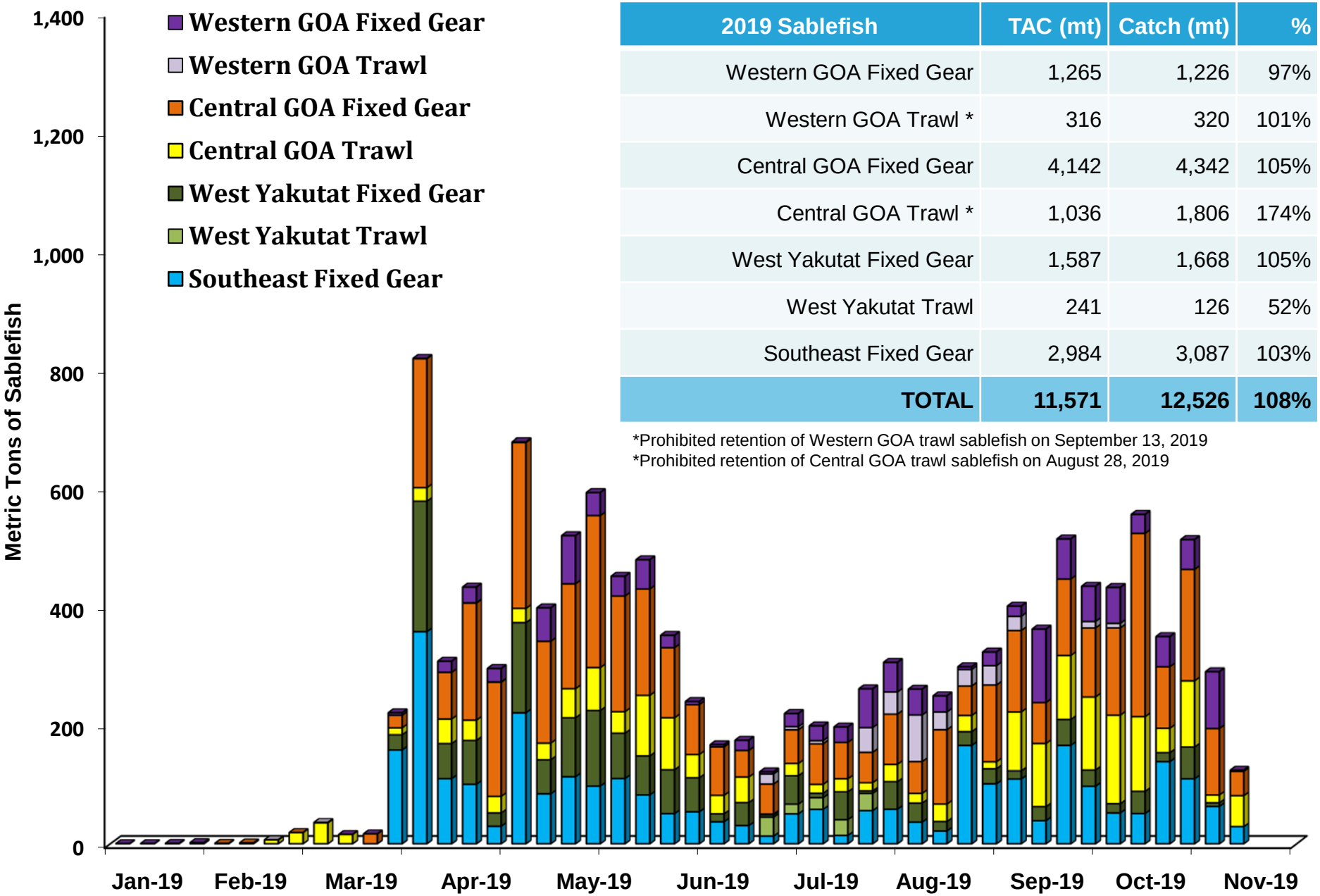


Predominate Species		
Trawl	Harlequin Rockfish	51%
	Sharpchin Rockfish	10%
	Redstripe Rockfish	19%
Hook-and-Line	Yelloweye Rockfish	48%
	Redbanded Rockfish	25%
	Quillback Rockfish	5%

2019 GOA Hook-and-Line Catch



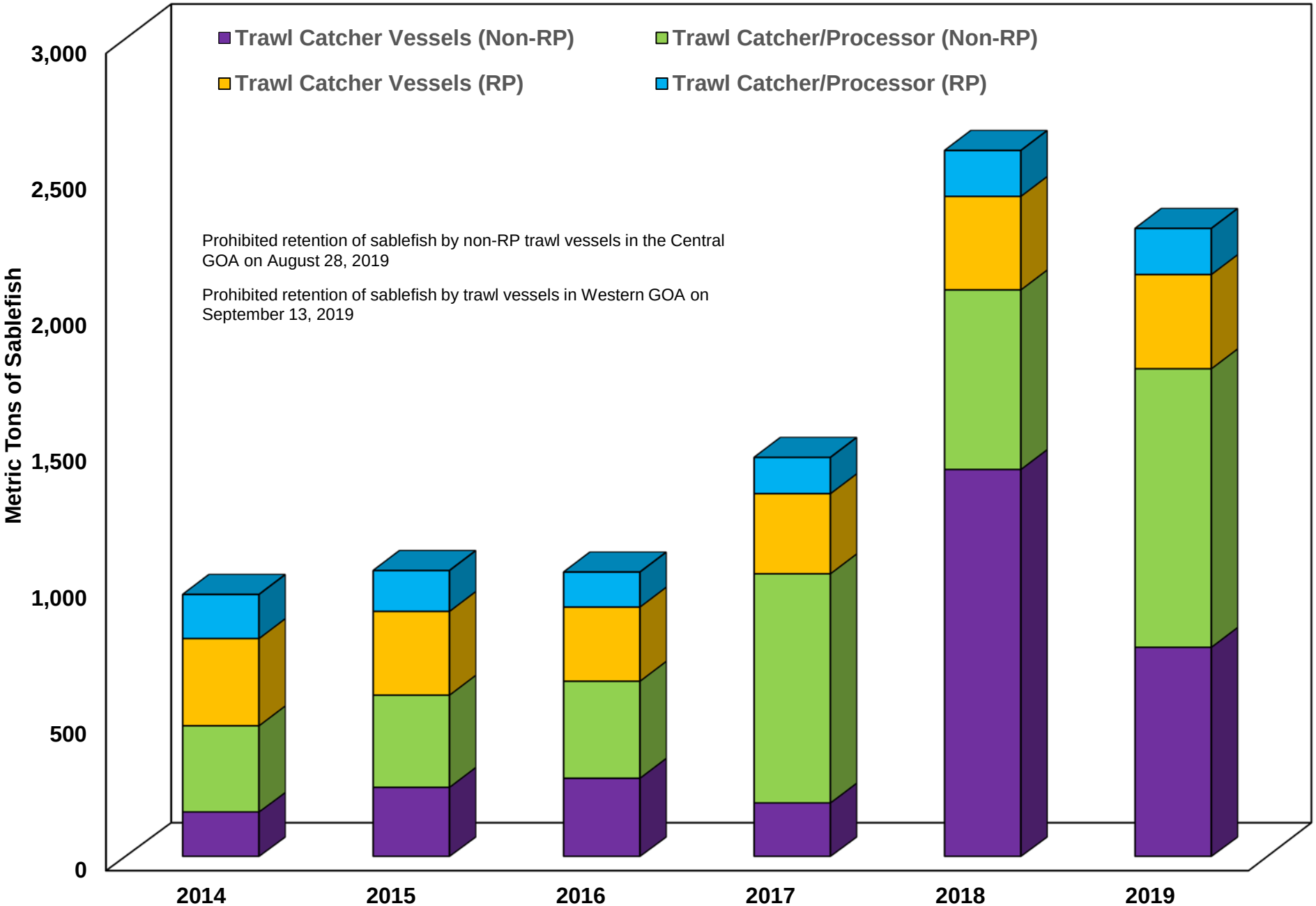
2019 GOA Sablefish Catch



2019 Sablefish	TAC (mt)	Catch (mt)	%
Western GOA Fixed Gear	1,265	1,226	97%
Western GOA Trawl *	316	320	101%
Central GOA Fixed Gear	4,142	4,342	105%
Central GOA Trawl *	1,036	1,806	174%
West Yakutat Fixed Gear	1,587	1,668	105%
West Yakutat Trawl	241	126	52%
Southeast Fixed Gear	2,984	3,087	103%
TOTAL	**11,571**	**12,526**	**108%**

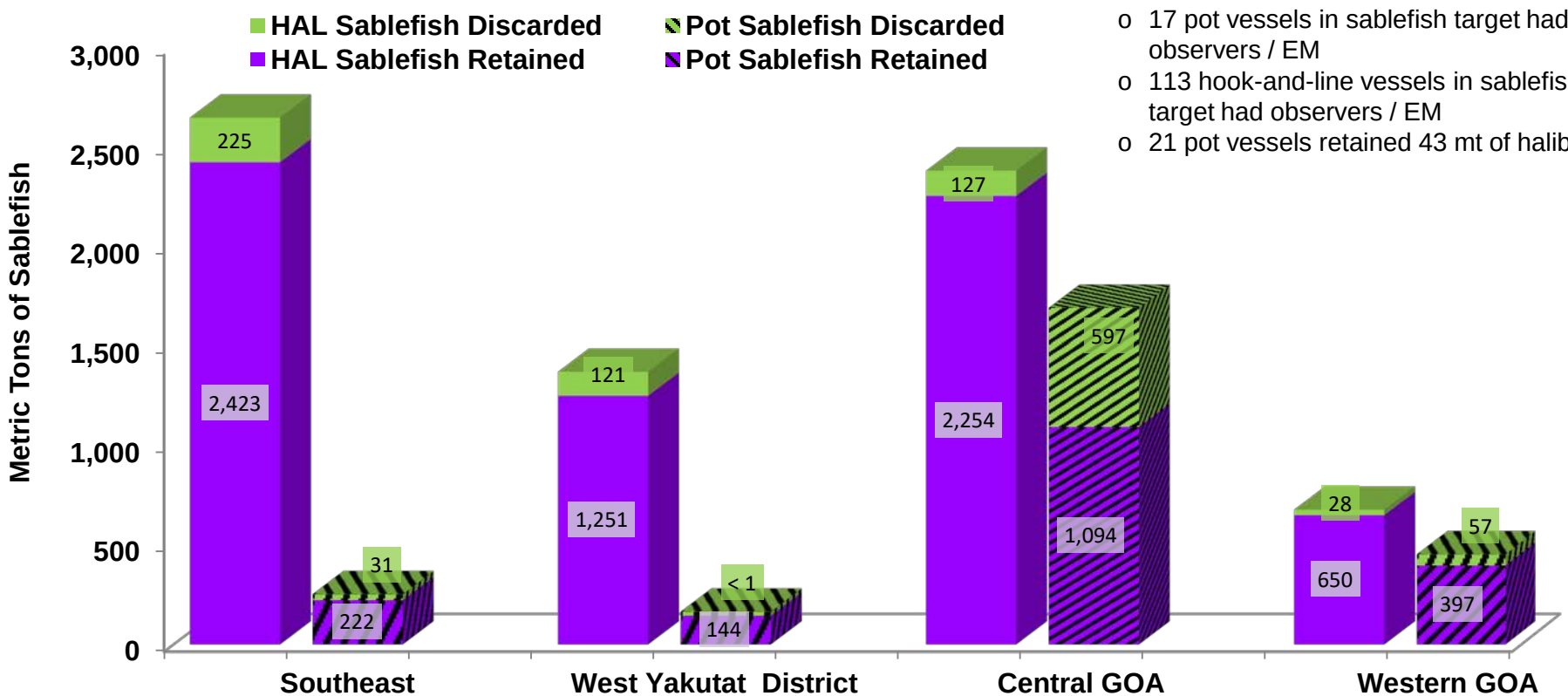
*Prohibited retention of Western GOA trawl sablefish on September 13, 2019
*Prohibited retention of Central GOA trawl sablefish on August 28, 2019

2014 – 2019 Sablefish Catch by Trawl Vessels



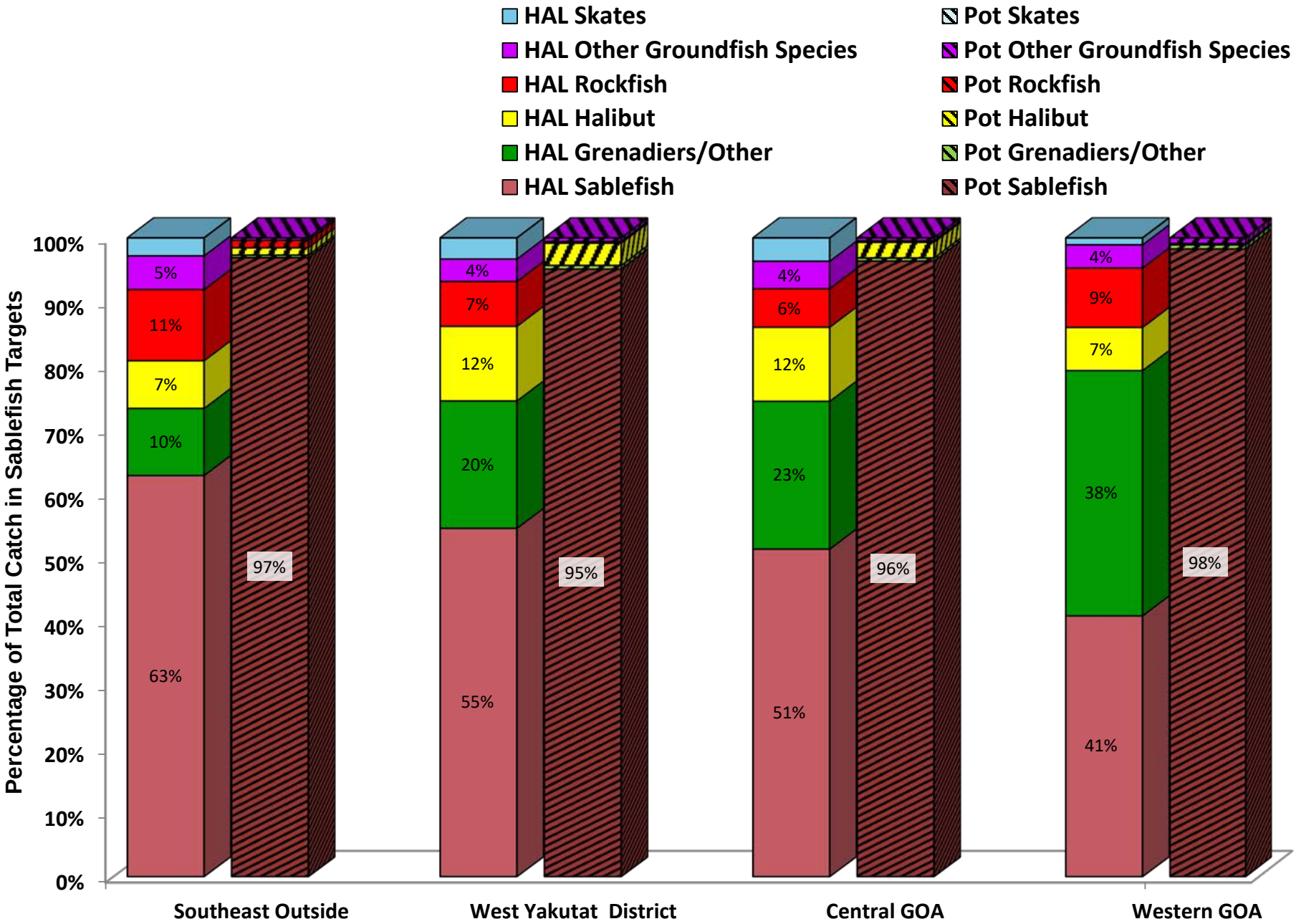
Sablefish by Fixed Gear

2019 Sablefish	Hook-and-Line			Pot		
	Unique Vessels	Sablefish (mt)	% of IFQ Sablefish	Unique Vessels	Sablefish (mt)	% of IFQ Sablefish
Southeast	143	2,648	91%	13	252	9%
West Yakutat	71	1,372	89%	13	164	11%
Central GOA	98	2,380	58%	24	1,691	42%
Western GOA	36	678	60%	13	453	40%
GOA Wide	**221**	**7,078**	**73%**	**30**	**2,560**	**27%**



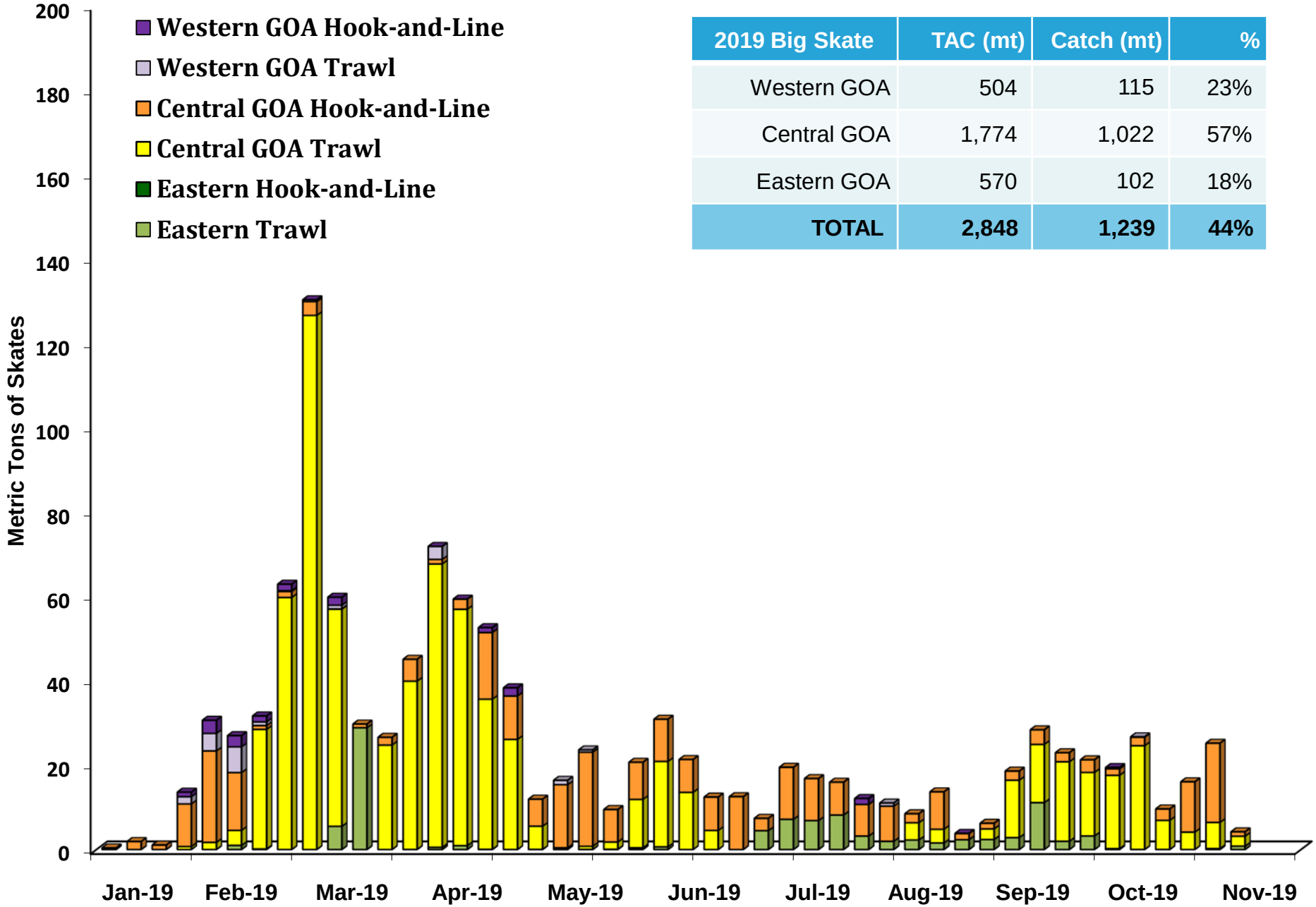
- 17 pot vessels in sablefish target had observers / EM
- 113 hook-and-line vessels in sablefish target had observers / EM
- 21 pot vessels retained 43 mt of halibut

2019 Sablefish and Incidental Catch in Fixed Gear Sablefish Targets



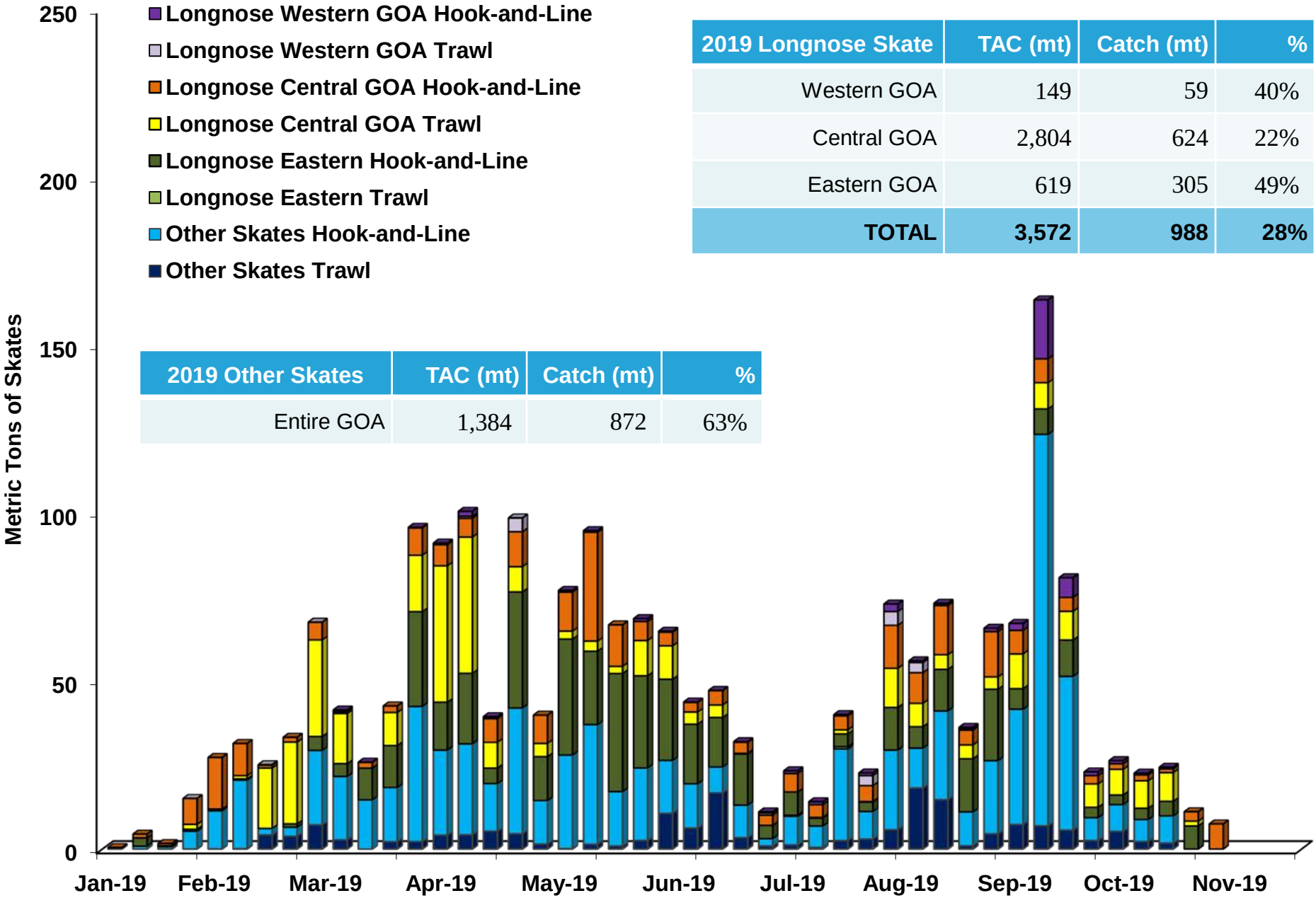
Species group categories that had less than 4% of total catch are not labeled.

2019 GOA Big Skate



2019 Big Skate	TAC (mt)	Catch (mt)	%
Western GOA	504	115	23%
Central GOA	1,774	1,022	57%
Eastern GOA	570	102	18%
TOTAL	**2,848**	**1,239**	**44%**

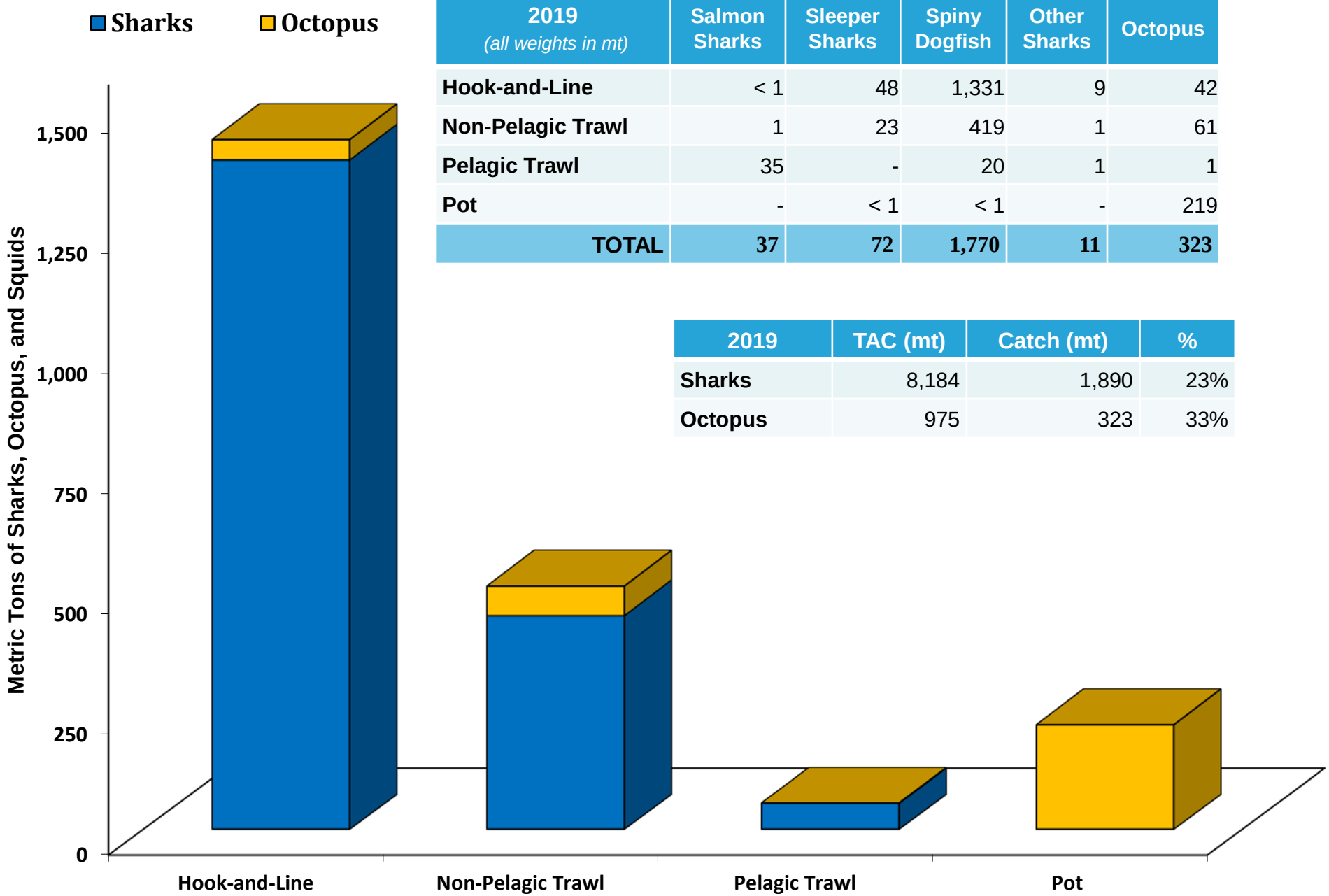
2019 GOA Longnose Skate and Other Skates



2019 Longnose Skate	TAC (mt)	Catch (mt)	%
Western GOA	149	59	40%
Central GOA	2,804	624	22%
Eastern GOA	619	305	49%
TOTAL	**3,572**	**988**	**28%**

2019 Other Skates	TAC (mt)	Catch (mt)	%
Entire GOA	1,384	872	63%

2019 GOA Sharks and Octopus



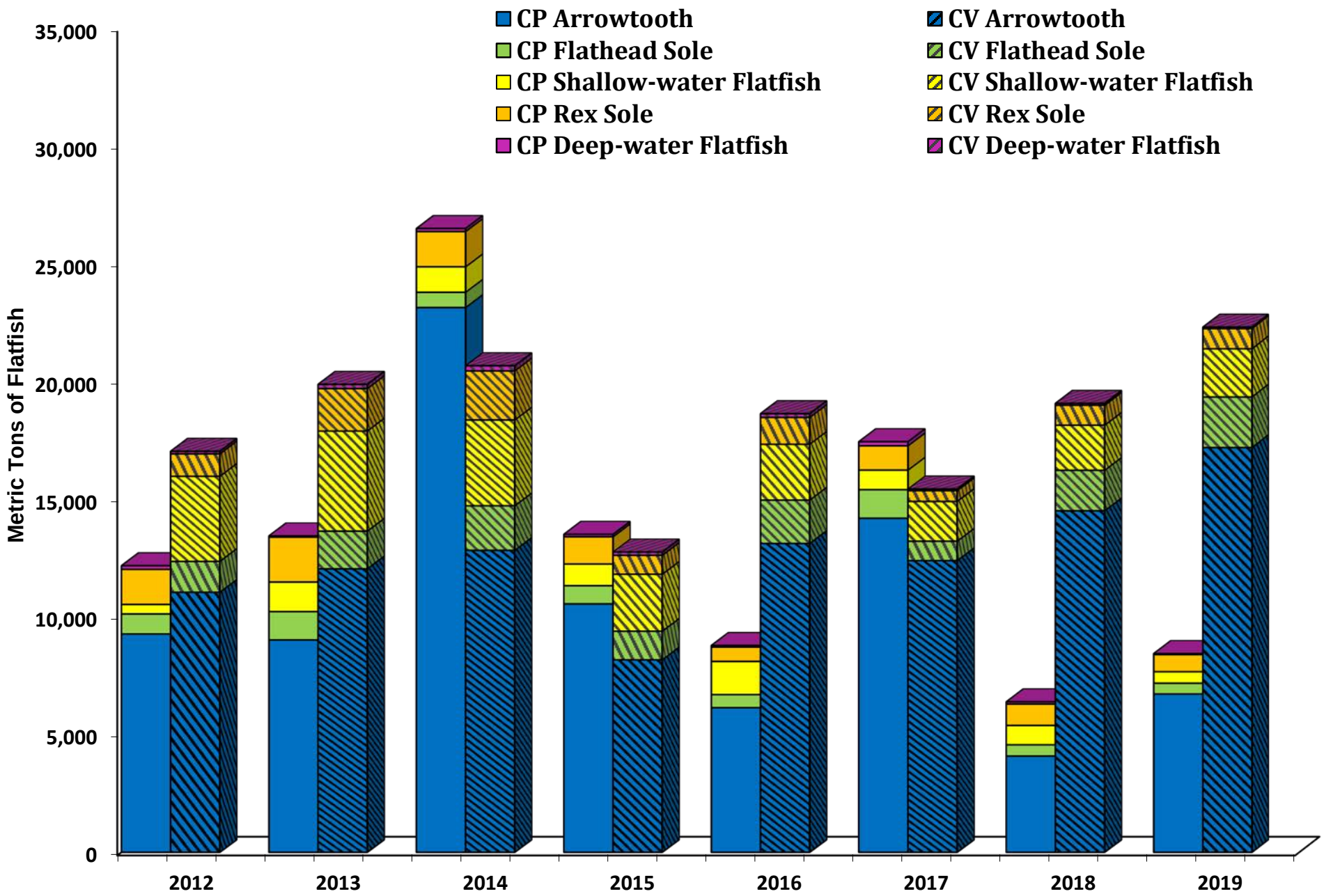
2019 *(all weights in mt)*	Salmon Sharks	Sleeper Sharks	Spiny Dogfish	Other Sharks	Octopus
Hook-and-Line	< 1	48	1,331	9	42
Non-Pelagic Trawl	1	23	419	1	61
Pelagic Trawl	35	-	20	1	1
Pot	-	< 1	< 1	-	219
TOTAL	**37**	**72**	**1,770**	**11**	**323**

2019	TAC (mt)	Catch (mt)	%
Sharks	8,184	1,890	23%
Octopus	975	323	33%

2019 GOA Groundfish Species Placed on Prohibited Species Status

2018	Date
Non-RP Sablefish by Trawl Gear in the Central GOA	April 9, 2018
Sablefish by Trawl Gear in West Yakutat District	August 14, 2018
Shortraker Rockfish in Central GOA	November 9, 2018
Pacific cod by Trawl C/Ps in the Central GOA	November 19, 2018
2019	**Date**
Pollock in West Yakutat District	June 21, 2019
Pacific cod by Trawl C/Ps in the Central GOA	August 22, 2019
Non-RP Sablefish by Trawl Gear in the Central GOA	August 28, 2019
Sablefish by Trawl Gear in the Western GOA	September 13, 2019
Non-RP Pacific cod by Trawl Gear in the Central GOA	October 9, 2019

2012 – 2019 GOA Trawl Flatfish Catch by Species



2019 Flatfish and Skate Catch in the GOA

Species	Area	TAC (mt)	Total Catch (mt)	%
Arrowtooth Flounder	Central	70,995	23,363	33%
	Western	14,500	685	5%
Flathead Sole	Central	15,400	2,391	16%
	Western	8,650	210	2%
Rex Sole	Central	8,357	1,507	18%
	Western	2,951	74	3%
Shallow Water Flatfish	Central	25,731	2,426	9%
	Western	13,250	72	1%
Deep Water Flatfish	Central	3,443	95	3%
	Western	416	2	<1%
Big Skate	Eastern	570	101	18%
	Central	1,774	1,022	56%
	Western	504	115	23%
Longnose Skate	Eastern	619	305	49%
	Central	2,804	625	22%
	Western	149	59	40%
Other Skate	GOA	1,384	883	64%

GOA Trawl Groundfish Retained and Discards

2018 Trawl	Retained	Discarded	% Retained
Pollock	152,954	1,964	99%
Pacific Ocean Perch	23,563	1,161	95%
Arrowtooth Flounder	17,311	1,392	93%
Pacific Cod *	3,591	228	94%
Dusky Rockfish	2,822	51	98%
Shallow-water Flatfish	2,532	201	93%
Northern Rockfish	2,273	77	97%
Sablefish *	970	1,620	37%
Flathead Sole	2,150	45	98%
Rex Sole	1,678	73	96%
Atka Mackerel	1,387	51	96%
Skates	760	480	61%
Other Rockfish	763	240	76%
Other Species	47	453	9%
Rougheye Rockfish	340	121	74%
Thornyhead Rockfish	424	61	87%
Shortraker Rockfish *	248	76	77%
Sculpins	12	206	6%
Deep-water Flatfish	89	81	52%
TOTAL	**213,914**	**8,580**	**96%**

2019 Trawl	Retained	Discarded	% Retained
Pollock	115,962	1,150	99%
Pacific Ocean Perch	23,581	1,796	93%
Arrowtooth Flounder	22,967	1,046	96%
Pacific Cod *	3,747	748	83%
Dusky Rockfish	2,312	146	94%
Shallow-water Flatfish	2,323	209	92%
Northern Rockfish	2,594	149	95%
Sablefish *	1,139	1,167	49%
Flathead Sole	2,480	123	95%
Rex Sole	1,514	69	96%
Atka Mackerel	1,124	129	90%
Skates	898	383	70%
Other Rockfish	417	300	58%
Other Species	69	493	12%
Rougheye Rockfish	455	12	97%
Thornyhead Rockfish	294	17	95%
Shortraker Rockfish	266	35	88%
Sculpins	10	324	3%
Deep-water Flatfish	31	68	32%
TOTAL	**182,183**	**8,364**	**96%**

Sorted by 2019 Total catch; * prohibited retention of that species in that year

GOA Fixed Gear Groundfish Retained and Discards

2018 Hook-and-Line	Retained	Discarded	% Retained
Sablefish	7,759	596	93%
Pacific Cod	2,633	415	86%
Skates	88	1,715	5%
Sharks	0	2,924	0%
Thornyhead	509	197	72%
Shortraker Rockfish	87	350	20%
Rougheye Rockfish	95	195	33%
Other Rockfish	72	168	30%
Sculpins	0	476	0%
Demersal Shelf Rockfish	123	6	95%
Arrowtooth Flounder	7	159	4%
Other Species	30	80	27%
TOTAL	**11,405**	**7,282**	**61%**

2019 Hook-and-Line	Retained	Discarded	% Retained
Sablefish	7,198	632	92%
Pacific Cod	2,439	256	90%
Skates	108	1,726	6%
Sharks	1	1,388	0%
Thornyhead	390	78	83%
Shortraker Rockfish	111	297	27%
Rougheye Rockfish	99	171	37%
Sculpins	0	244	0%
Other Rockfish	81	134	38%
Arrowtooth Flounder	9	135	6%
Demersal Shelf Rockfish	120	5	96%
Other Species	15	78	16%
TOTAL	**10,571**	**5,143**	**67%**

2018 Pot	Retained	Discarded	% Retained
Pacific Cod	3,990	24	99%
Sablefish	1,094	28	97%
Octopus	139	7	95%
Other Species	38	45	46%
TOTAL	**5,262**	**104**	**98%**

2019 Pot	Retained	Discarded	% Retained
Pacific Cod	3,693	28	99%
Sablefish	1,876	713	72%
Octopus	183	36	83%
Other Species	51	56	48%
TOTAL	**5,802**	**833**	**87%**

Sorted by 2019 Total catch; * prohibited retention of that species in that year

2019 GOA Salmon, Crab, and Herring PSC

Chinook Salmon	Total Catch	Limit *	%
Pollock Western GOA (#)	11,424	6,684	170%
Pollock Central GOA (#)	7,092	18,316	39%
Pollock 640 (#)	140	0	na
Catcher Vessel Non-pollock / Non-Rockfish Program (#)	2,515	3,060	61%
Catcher Vessel Rockfish Program (#)	297	1,200	57%
Catcher Processors (#)	0	4,080	1%
Non-trawl Gear (#)	17	0	na
TOTAL (#)	21,485	33,340	64%

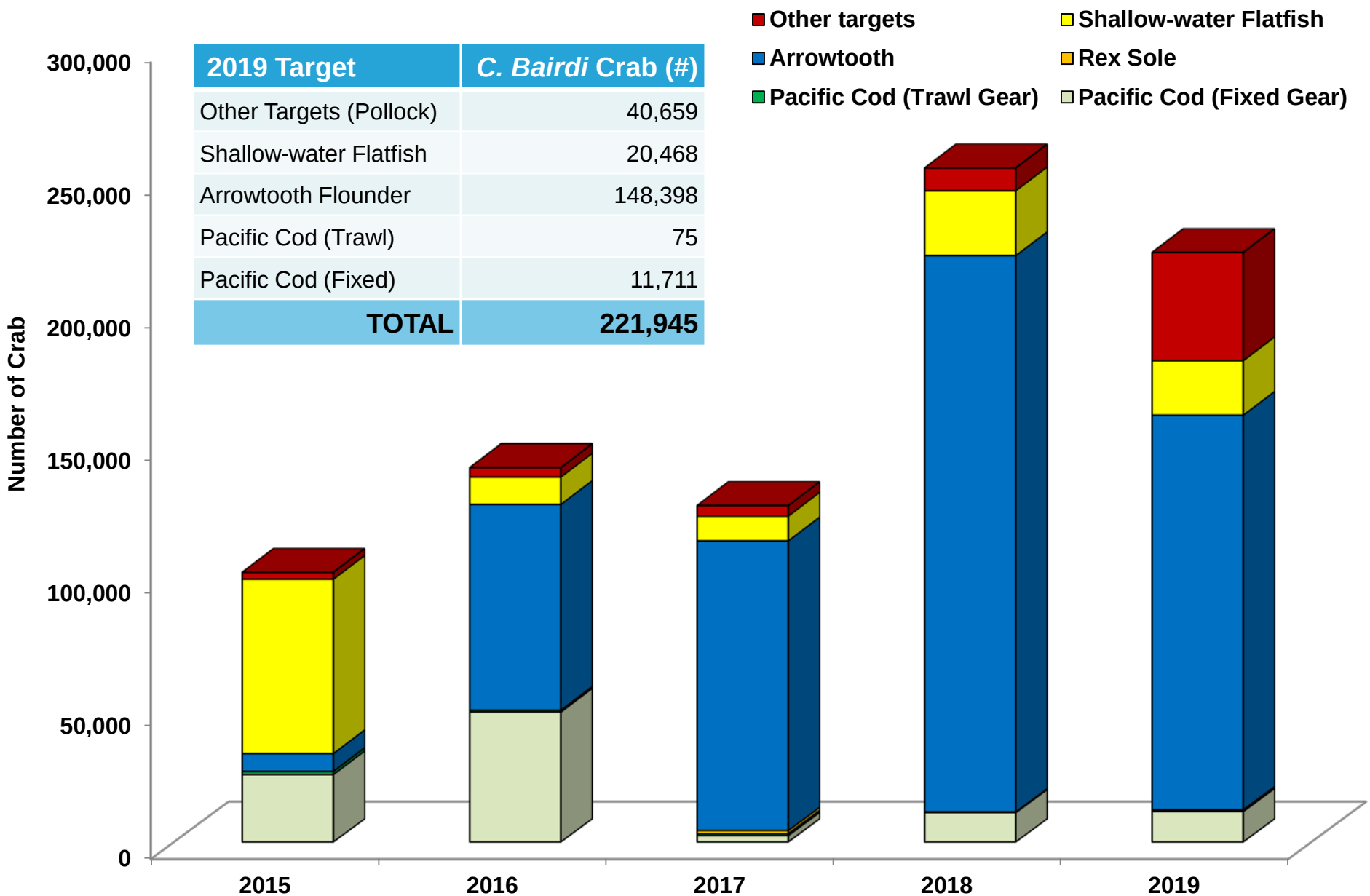
Other PSC Species	2018	2019
Non-Chinook Salmon (#)	9,138	6,807
Trawl Bairdi Tanner (#)	242,182	209,875
Fixed Gear Bairdi Tanner (#)	11,484	12,069
Red King Crab (#)	17	0
Golden King Crab (#)	476	545
Herring (mt)	43	80

Crab and Salmon PSC is reported in number of animals

Herring PSC is reported in Metric tons

2015 – 2019 GOA *C. Bairdi* Tanner Crab Incidental Catch by Target

2019 Target	*C. Bairdi* Crab (#)
Other Targets (Pollock)	40,659
Shallow-water Flatfish	20,468
Arrowtooth Flounder	148,398
Pacific Cod (Trawl)	75
Pacific Cod (Fixed)	11,711
TOTAL	**221,945**

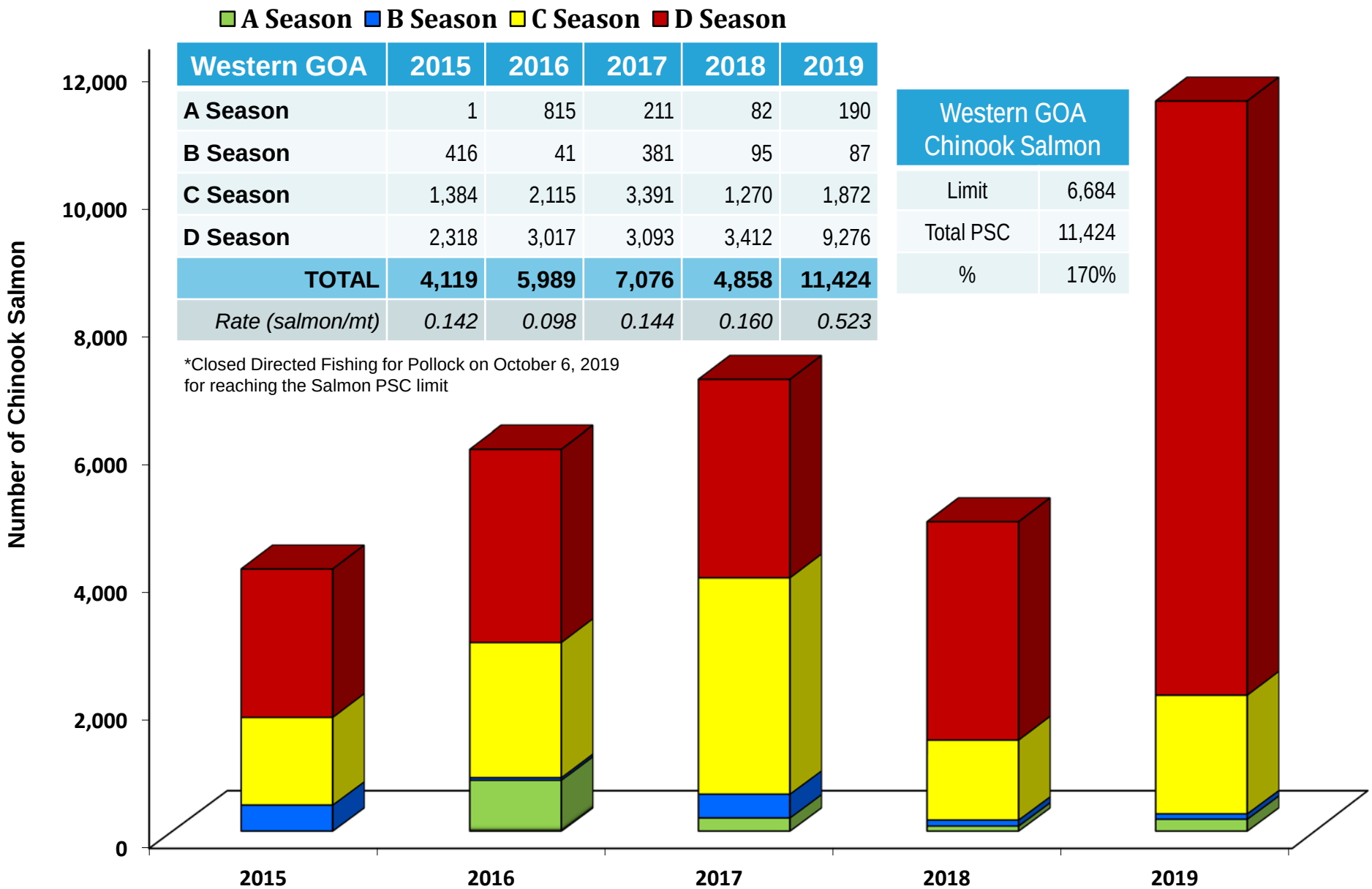


2015 – 2019 Chinook Salmon PSC in Western GOA Pollock Fisheries

Western GOA	2015	2016	2017	2018	2019
A Season	1	815	211	82	190
B Season	416	41	381	95	87
C Season	1,384	2,115	3,391	1,270	1,872
D Season	2,318	3,017	3,093	3,412	9,276
TOTAL	**4,119**	**5,989**	**7,076**	**4,858**	**11,424**
Rate (salmon/mt)	*0.142*	*0.098*	*0.144*	*0.160*	*0.523*

Western GOA Chinook Salmon	
Limit	6,684
Total PSC	11,424
%	170%

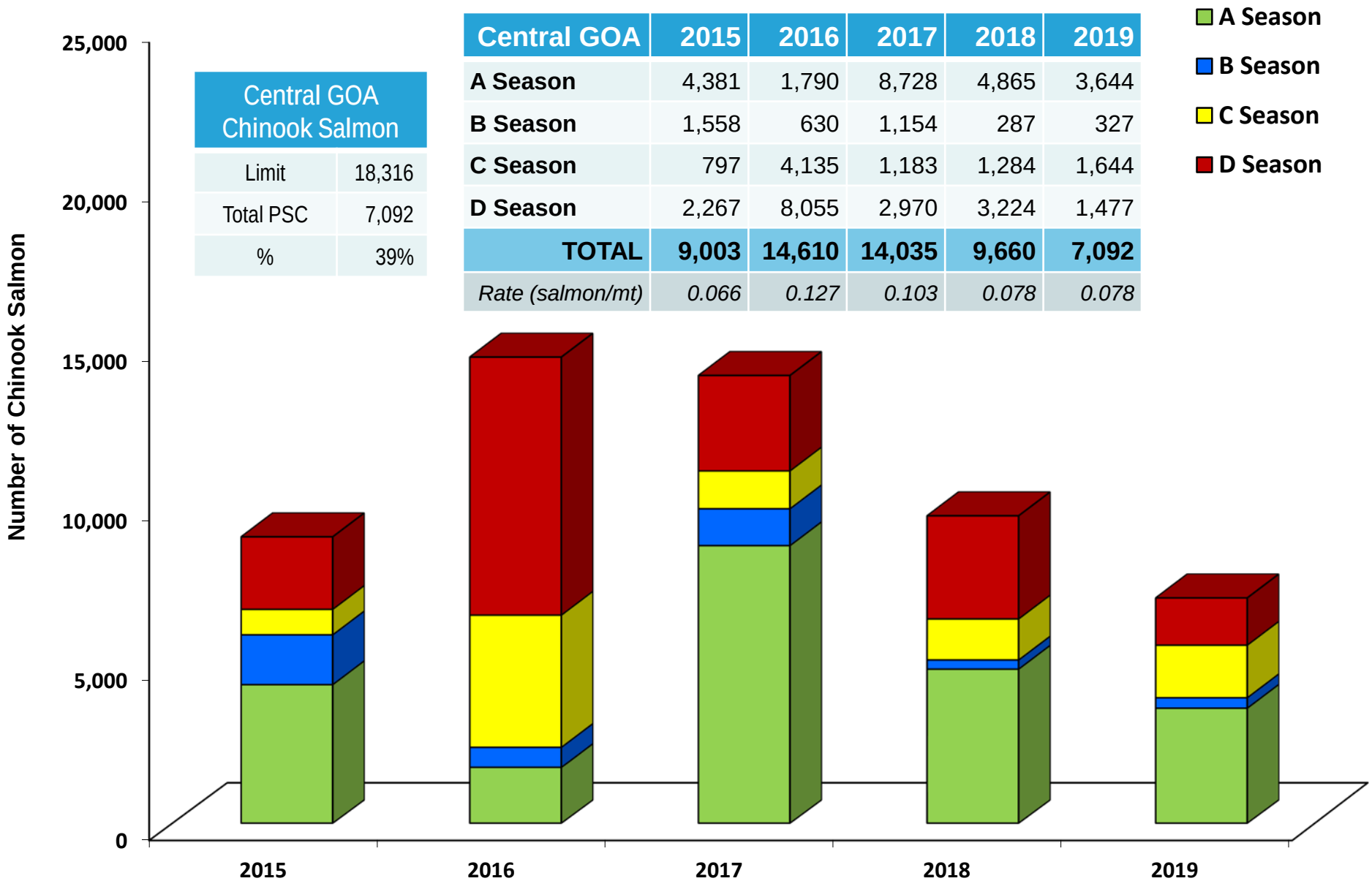
*Closed Directed Fishing for Pollock on October 6, 2019 for reaching the Salmon PSC limit



2015 – 2019 Chinook Salmon PSC in Central GOA Pollock Fisheries

Central GOA Chinook Salmon	
Limit	18,316
Total PSC	7,092
%	39%

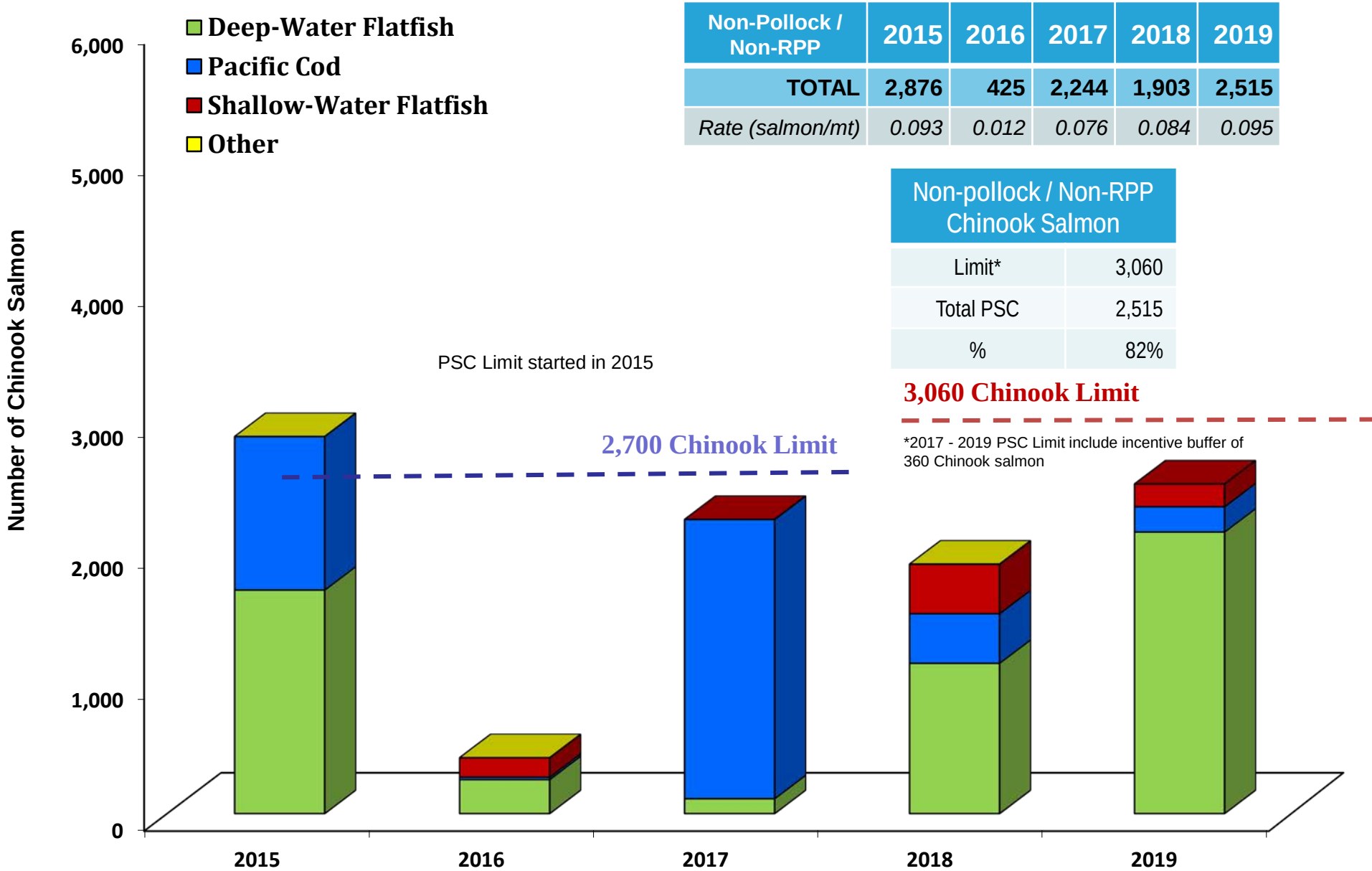
Central GOA	2015	2016	2017	2018	2019
A Season	4,381	1,790	8,728	4,865	3,644
B Season	1,558	630	1,154	287	327
C Season	797	4,135	1,183	1,284	1,644
D Season	2,267	8,055	2,970	3,224	1,477
TOTAL	**9,003**	**14,610**	**14,035**	**9,660**	**7,092**
Rate (salmon/mt)	*0.066*	*0.127*	*0.103*	*0.078*	*0.078*



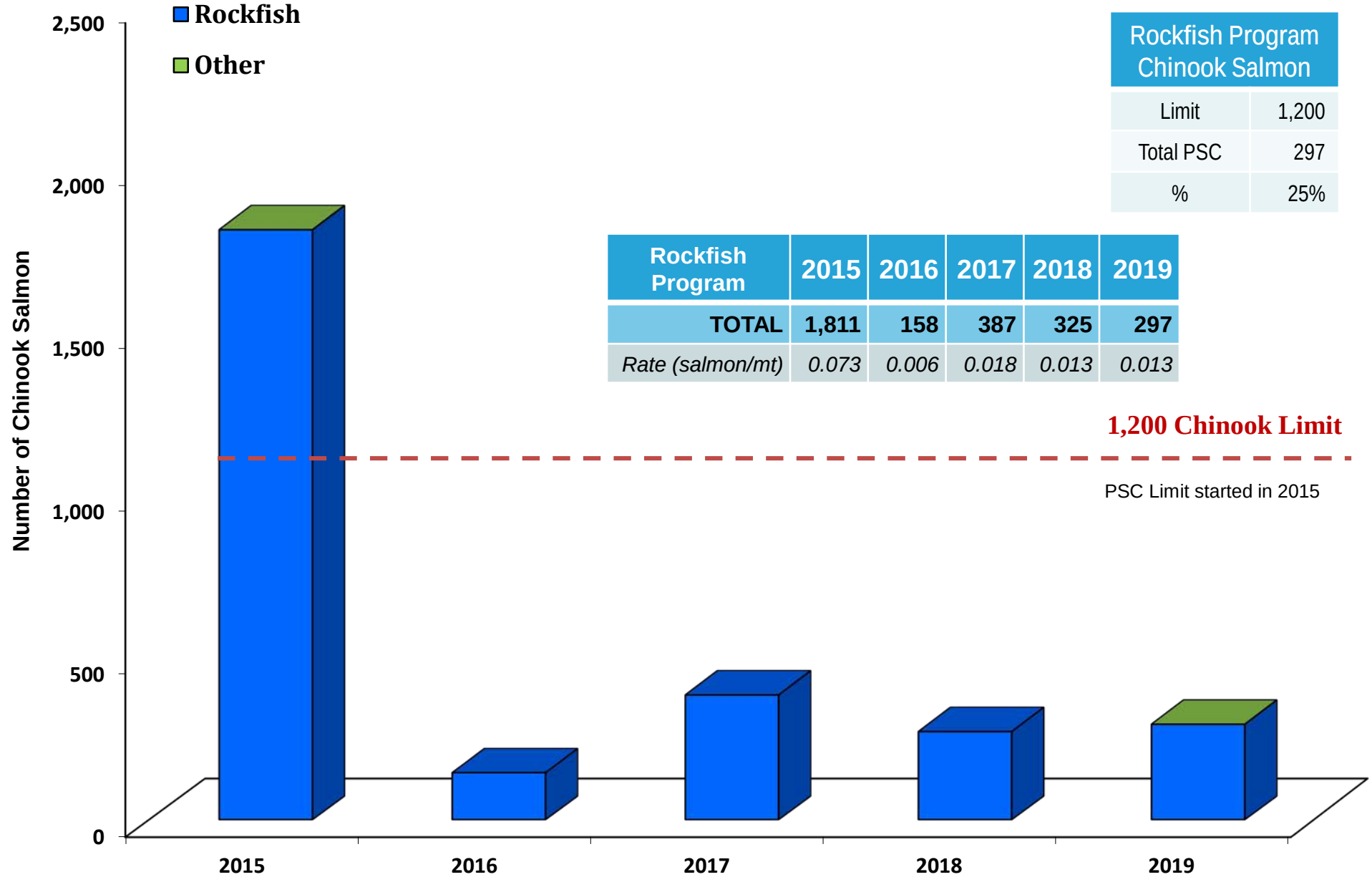
2015 – 2019 Chinook Salmon PSC in Non-Pollock / Non-Rockfish Program by Catcher Vessels

Non-Pollock / Non-RPP	2015	2016	2017	2018	2019
TOTAL	2,876	425	2,244	1,903	2,515
Rate (salmon/mt)	*0.093*	*0.012*	*0.076*	*0.084*	*0.095*

Non-pollock / Non-RPP Chinook Salmon	
Limit*	3,060
Total PSC	2,515
%	82%



2015 – 2019 Chinook Salmon PSC in Rockfish Program by Catcher Vessels



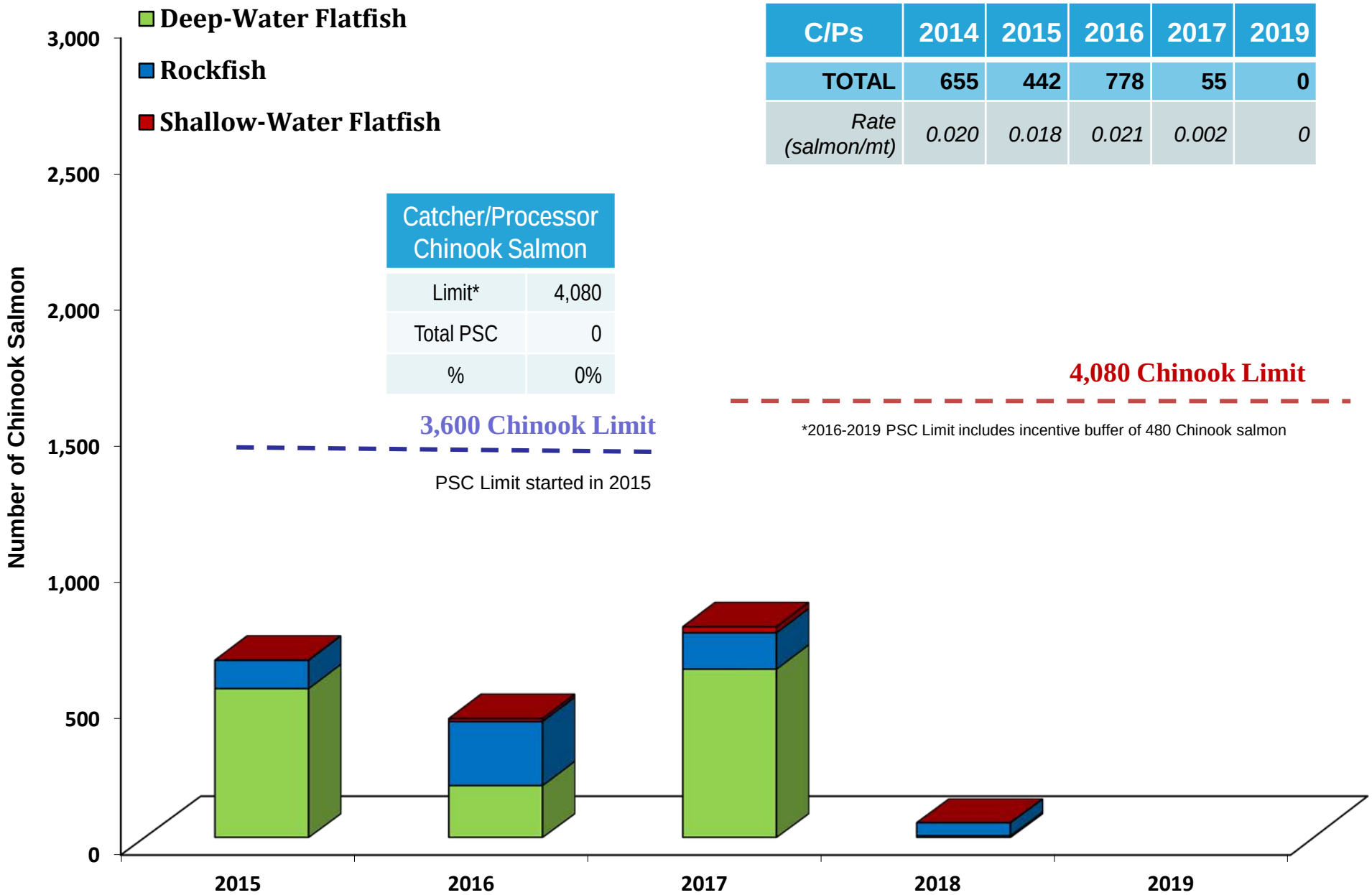
Rockfish Program Chinook Salmon	
Limit	1,200
Total PSC	297
%	25%

Rockfish Program	2015	2016	2017	2018	2019
TOTAL	1,811	158	387	325	297
Rate (salmon/mt)	*0.073*	*0.006*	*0.018*	*0.013*	*0.013*

2015 – 2019 Chinook Salmon PSC by Catcher/Processors

C/Ps	2014	2015	2016	2017	2019
TOTAL	655	442	778	55	0
Rate (salmon/mt)	*0.020*	*0.018*	*0.021*	*0.002*	*0*

Catcher/Processor Chinook Salmon	
Limit*	4,080
Total PSC	0
%	0%



2019 GOA Halibut Catch

Hook-and-Line Halibut (mt)	Retained	Discard*	% Discarded	Mortality**	Limit	%
IFQ Halibut Fishery	7,378	5,020	40%	803	na	na
IFQ Sablefish Fishery	851	1,138	57%	165	na	na
Pacific Cod \ Other Targets	12	391	91%	64	257	25%
TOTAL	8,241	6,549	79%	1,032	*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.*

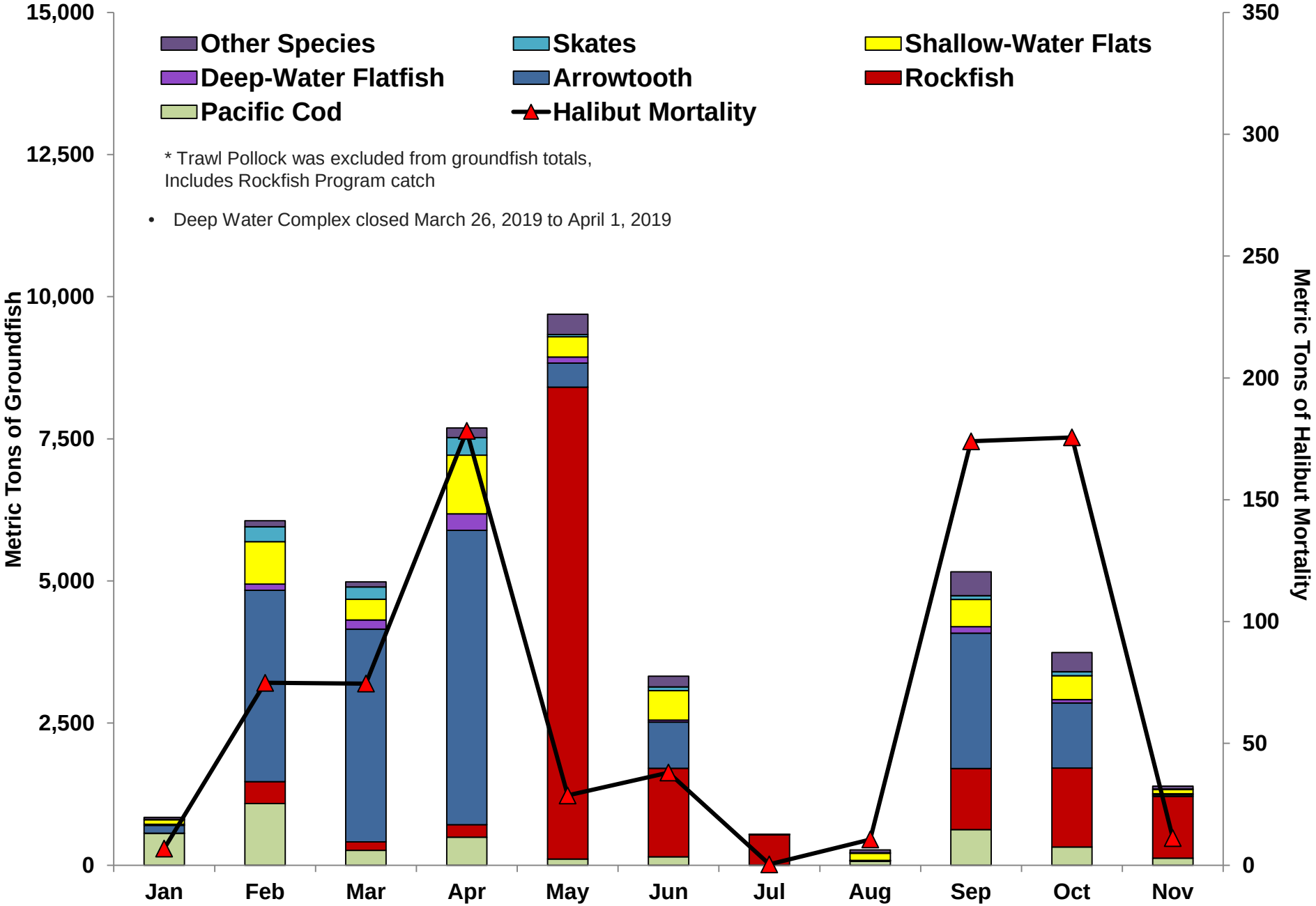
***Halibut Mortality rate in IFQ Halibut is 16%,*

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

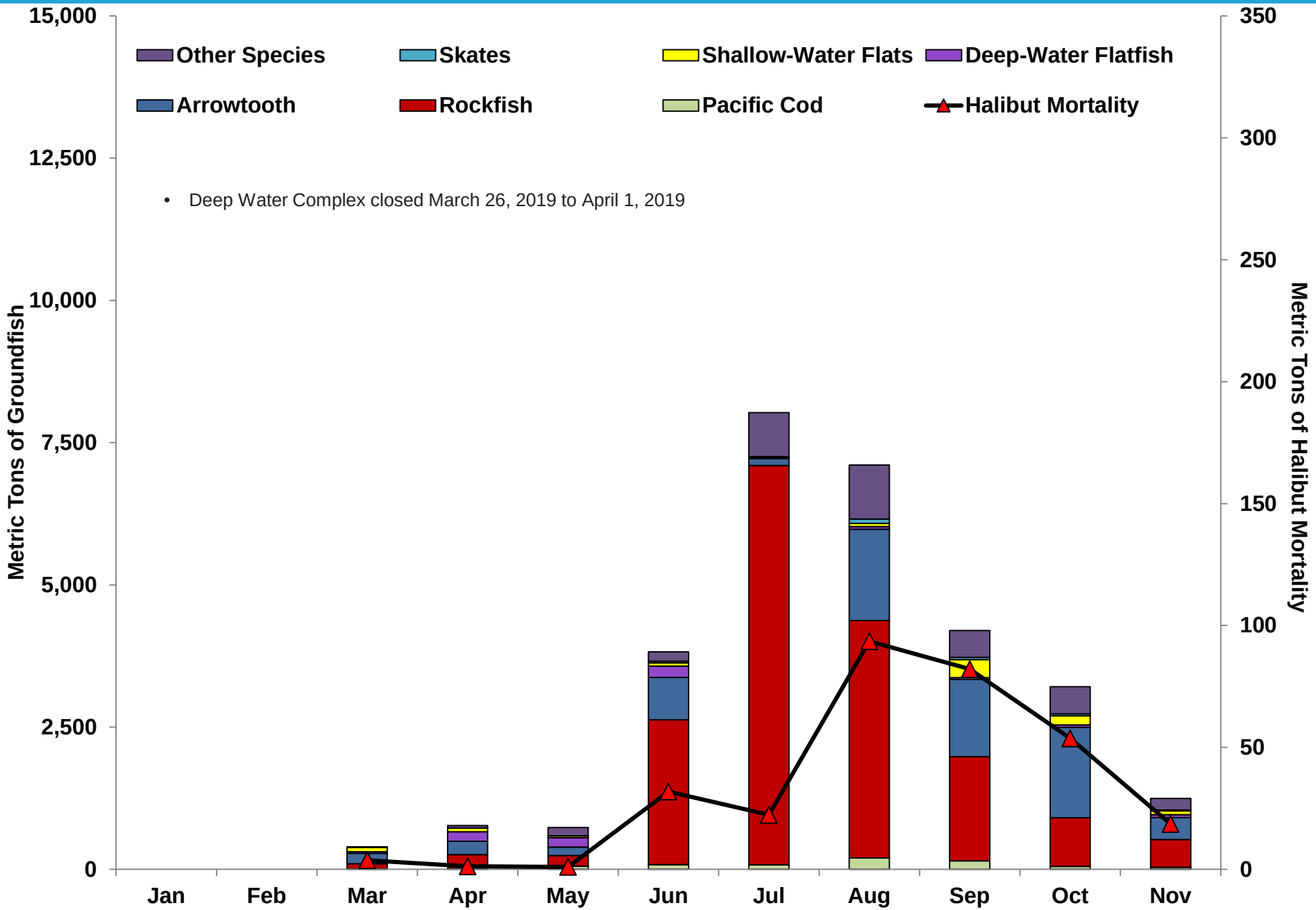
IFQ Sablefish and Pacific cod halibut mortality rate is 11% for HAL CPs, 21% for HAL CVs, and 4% for Pot CPs and CVs.

Trawl Halibut (mt)	Total Discard	Mortality	Mortality Limit	%
Pollock	256	175	1,706	64%
Pacific Cod	18	12		
Rockfish \ Sablefish	81	75		
Arrowtooth Flounder	900	717		
Deep Water Flatfish	5	5		
Shallow Water Flatfish	156	105		
TOTAL	1,570	1,089	1,706	64%

2019 GOA Catcher Vessel Trawl Catch and Halibut Mortality



2019 GOA Catcher/Processor Trawl Catch and Halibut Mortality



- Deep Water Complex closed March 26, 2019 to April 1, 2019

2019 Trawl Halibut Mortality

	Season	Start Date	End Date	Limit (mt)	Total Mortality (mt)	%
Deep Water Species	1	Jan 20	Apr 1	141	141	100%
	2	Apr 1	Jul 1	226	226	100%
	3	Jul 1	Sep 1	607	14	2%
	4	Sep 1	Sep 30	75	257	n/a
			TOTAL	1,049	638	61%
Shallow Water Species	Season					
	1	Jan 20	Apr 1	19	19	100%
	2	Apr 1	Jul 1	42	42	100%
	3	Jul 1	Sep 1	287	0	0%
	4	Sep 1	Sep 30	53	119	n/a
			TOTAL	401	180	45%
Rockfish Program				191	53	27%
Season 5 Halibut Allocation		Oct 1	Dec 31	256	266	NA
TOTAL Halibut Mortality				1,706	1,089	64%

*Includes reallocation between Deep water and Shallow water in July

2019 GOA Reduction in Halibut Mortality Compared to 5 year Average

Sector	2014-2018 Average (mt)	2019** (mt)	% Change (mt)	2014-2018 Rate*	2019 Rate*	% Change in rate
Hook-and-line						
Catcher/Processors	60	20	-67%	9.84	11.84	20%
Catcher Vessels	115	44	-62%	19.83	22.17	12%
Total	175	63	-64%	14.66	17.44	19%
Trawl Catcher Vessels						
Central GOA Catcher Vessels (NPT)	886	741	-16%	21.59	20.03	-7%
Western GOA Catcher Vessels (NPT)	55	18	-68%	8.79	8.21	-7%
Pelagic Trawl Catcher Vessels	16	14	-9%	0.09	0.11	23%
Total	956	773	-19%	4.49	4.74	5%
Trawl Catcher/Processors						
Total	348	317	-9%	9.48	10.41	10%
All Sectors						
TOTAL	**1,480**	**1,153**	**-22%**	**5.65**	**5.85**	**3%**

**** Rate is kg of halibut / mt of groundfish***

***** 2019 data not complete year. Data through November 12, 2019***

2019 GOA Reduction in Halibut Mortality Compared to 2018

Sector	2018 (mt)	2019 ** (mt)	% Change (mt)	2018 Rate*	2019 Rate*	% Change in rate
Hook-and-line						
Catcher/Processors	10	20	89%	6.03	11.84	96%
Catcher Vessels	42	44	3%	19.72	22.17	12%
Total	53	63	20%	13.62	17.44	28%
Trawl Catcher Vessels						
Central GOA Catcher Vessels (NPT)	907	741	-18%	25.51	20.03	-21%
Western GOA Catcher Vessels (NPT)	32	18	-46%	12.23	8.21	-33%
Pelagic Trawl Catcher Vessels	38	14	-62%	0.24	0.11	-52%
Total	977	773	-21%	4.94	4.74	-4%
Trawl Catcher/Processors						
Total	186	317	70%	6.62	10.41	57%
All Sectors						
TOTAL	**1,216**	**1,153**	**-5%**	**5.30**	**5.85**	**10%**

**** Rate is kg of halibut / mt of groundfish***

***** 2019 data not complete year. Data through November 12, 2019***