



**NOAA
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Alaska Region

Gulf of Alaska Inseason Management Report

December 2018

Catch data are through November 10, 2018

Management reports can be found at:

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

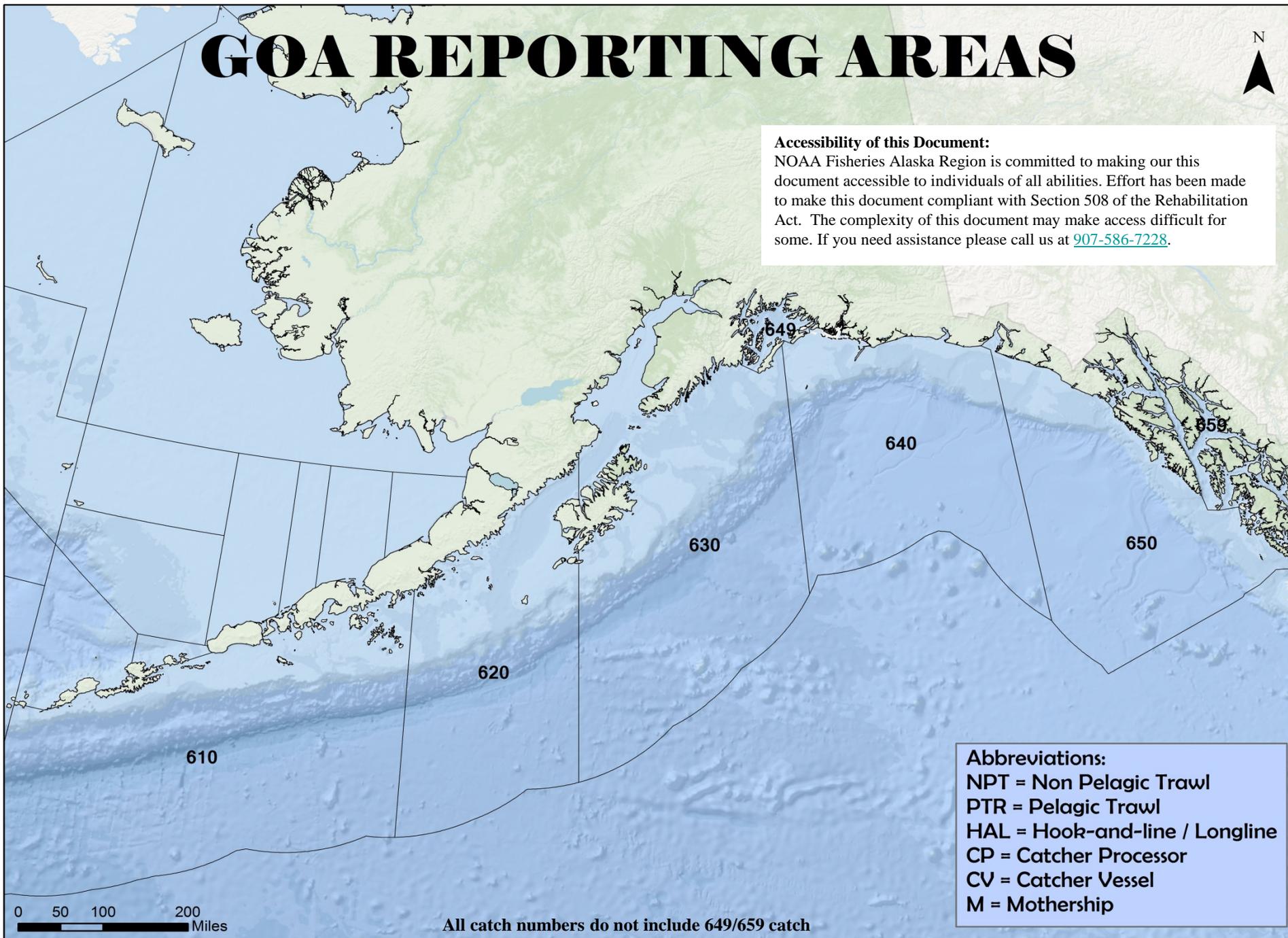
Report Prepared by:
Josh Keaton
November 2018

GOA REPORTING AREAS



Accessibility of this Document:

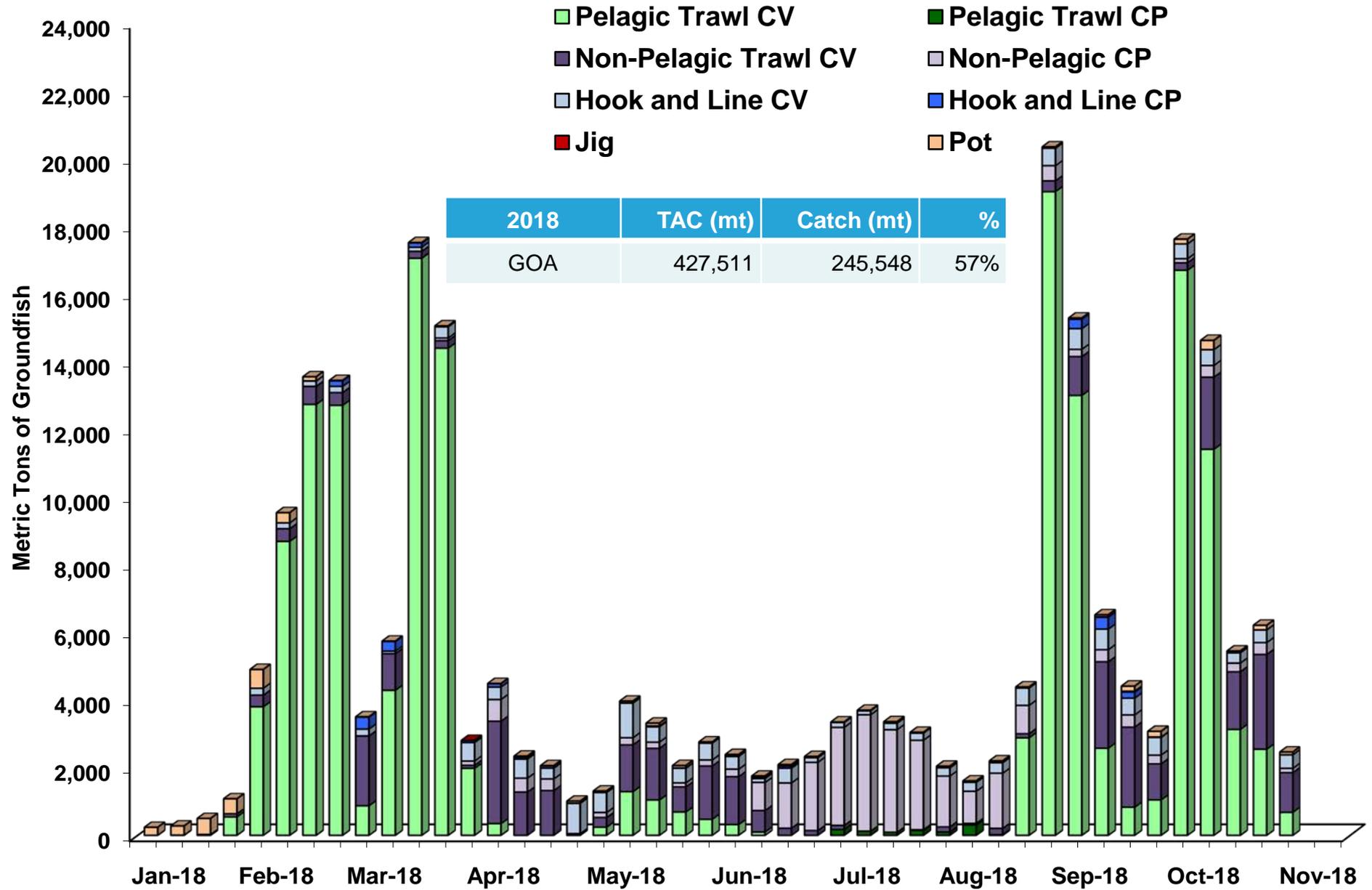
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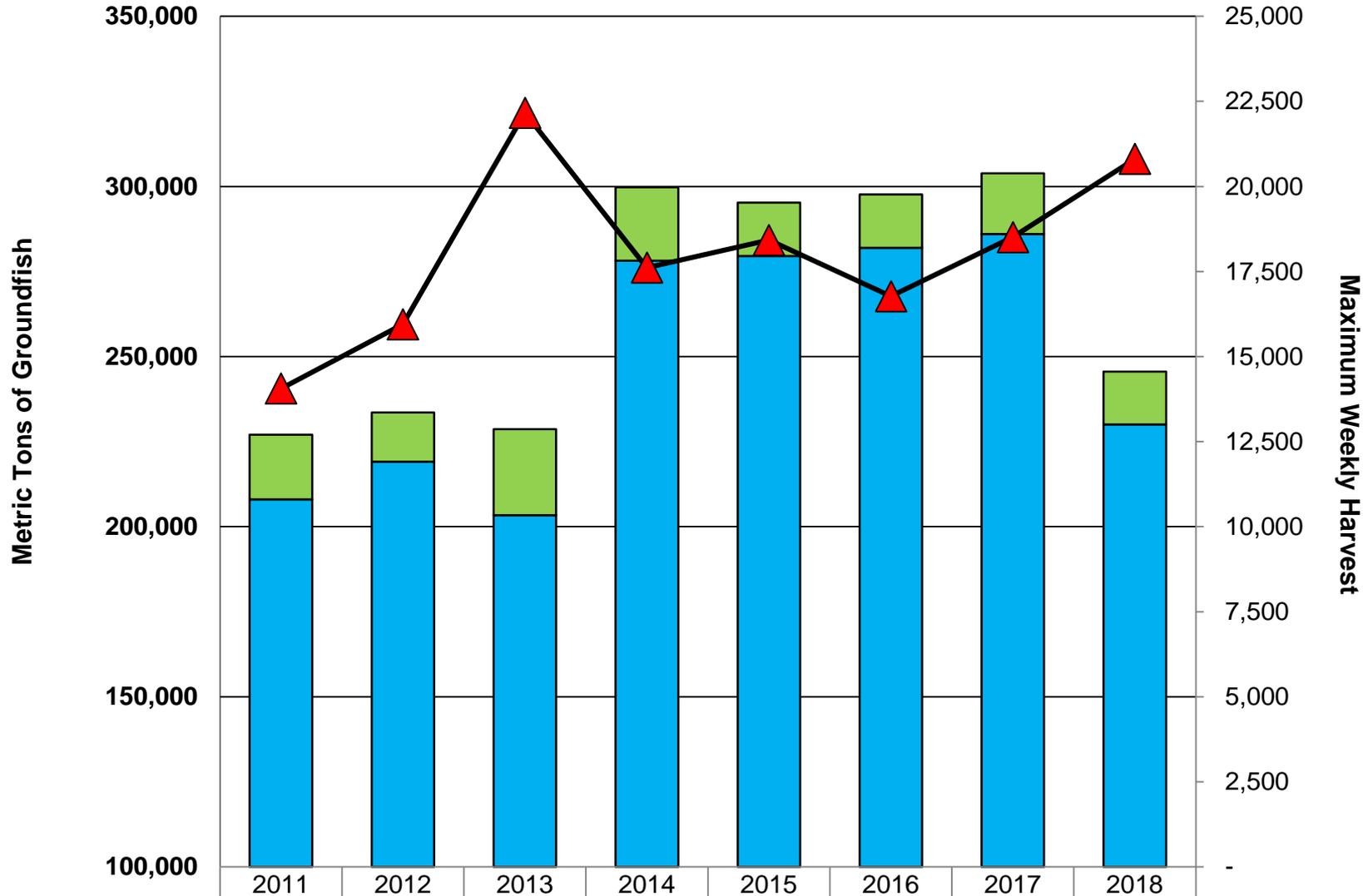
Abbreviations:
NPT = Non Pelagic Trawl
PTR = Pelagic Trawl
HAL = Hook-and-line / Longline
CP = Catcher Processor
CV = Catcher Vessel
M = Mothership

All catch numbers do not include 649/659 catch

2018 GOA Total Groundfish Catch by Gear and Sector

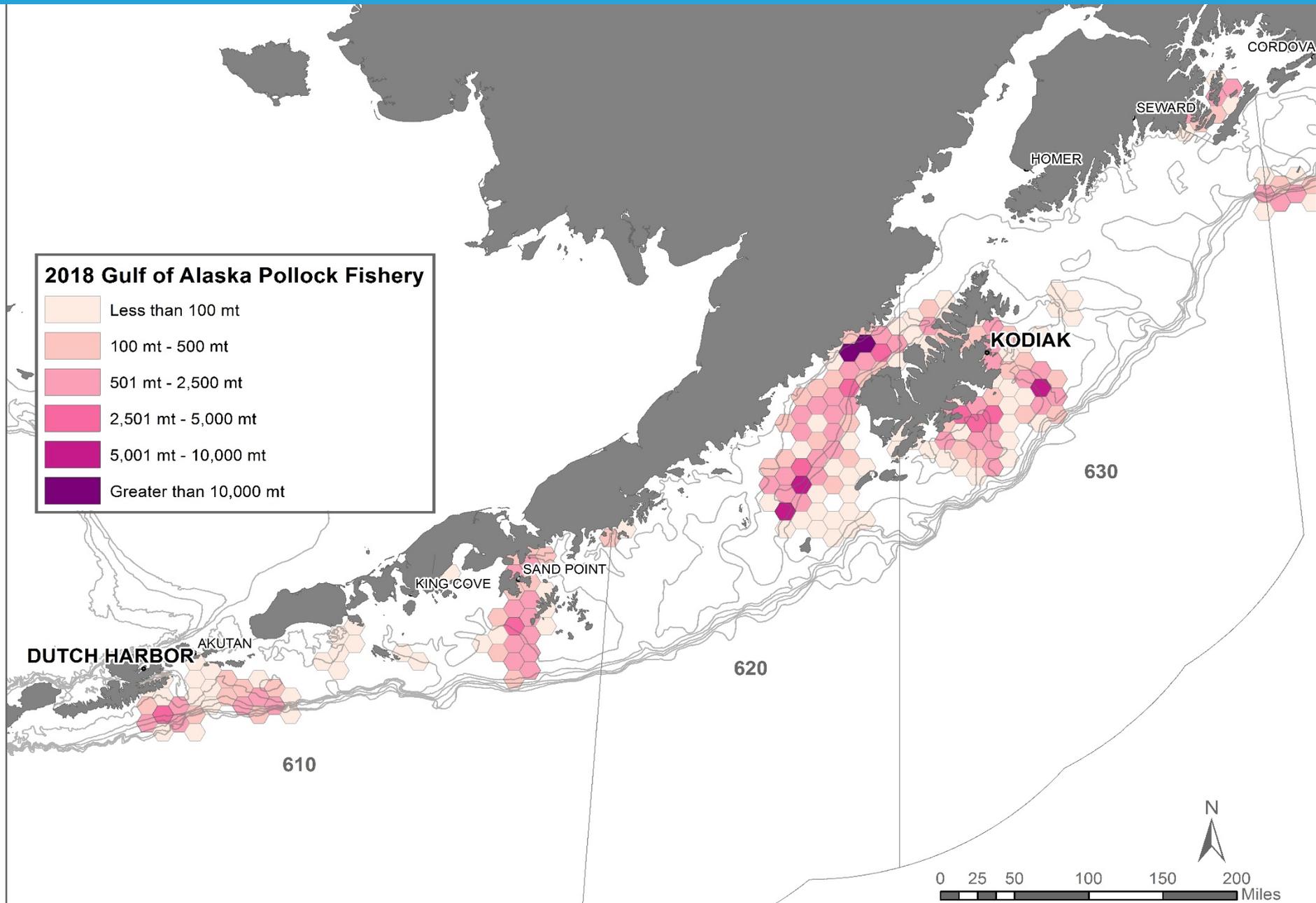


GOA Total Groundfish Catch and Maximum Weekly Harvest



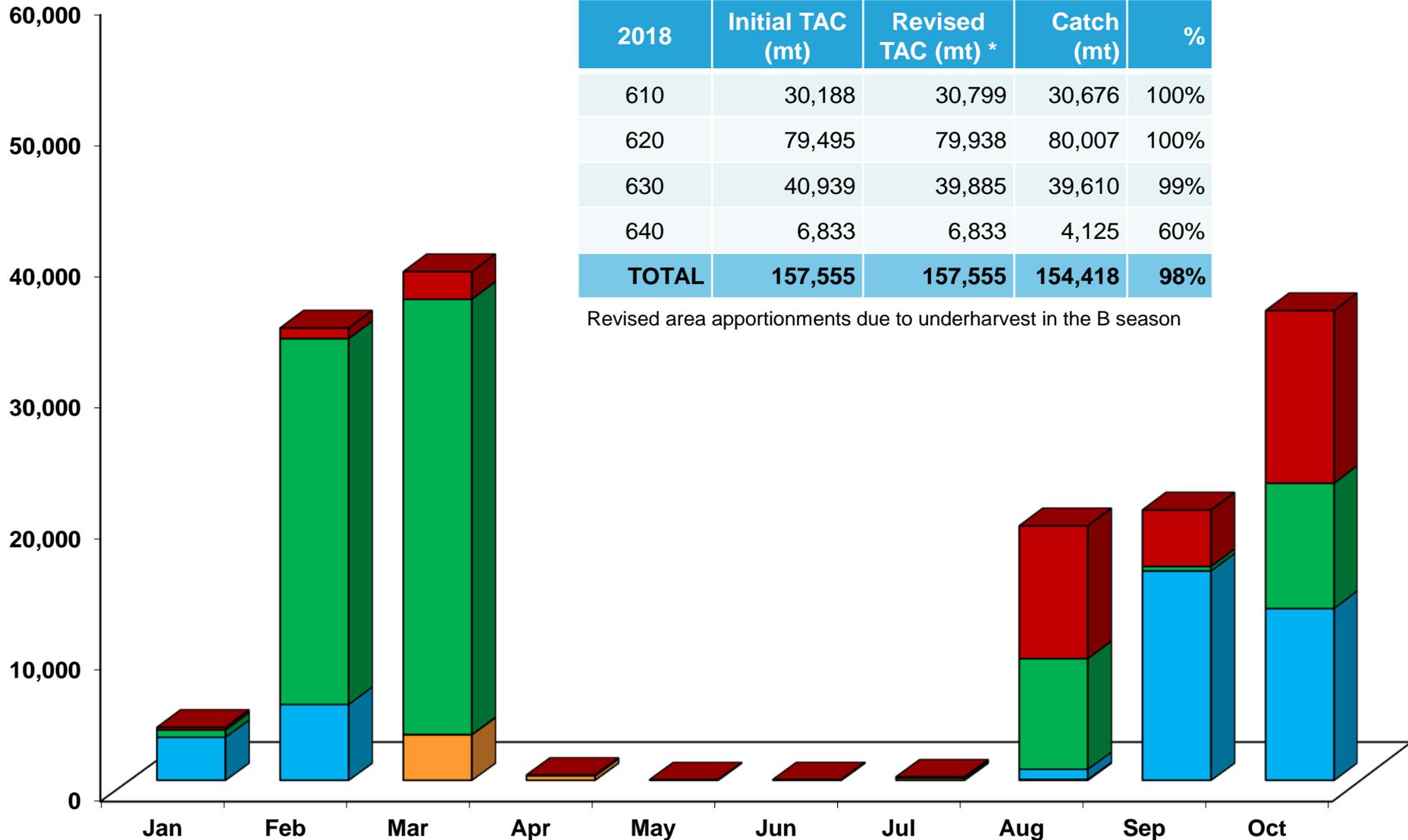
 Discarded Catch	19,000	14,459	25,283	21,618	15,712	15,681	17,890	15,472
 Retained Catch	208,030	219,127	203,376	278,144	279,533	281,969	285,974	230,076
 Maximum Weekly Harvest	14,061	15,951	22,164	17,614	18,423	16,773	18,511	20,808

2018 Gulf of Alaska Pollock Directed Fishery

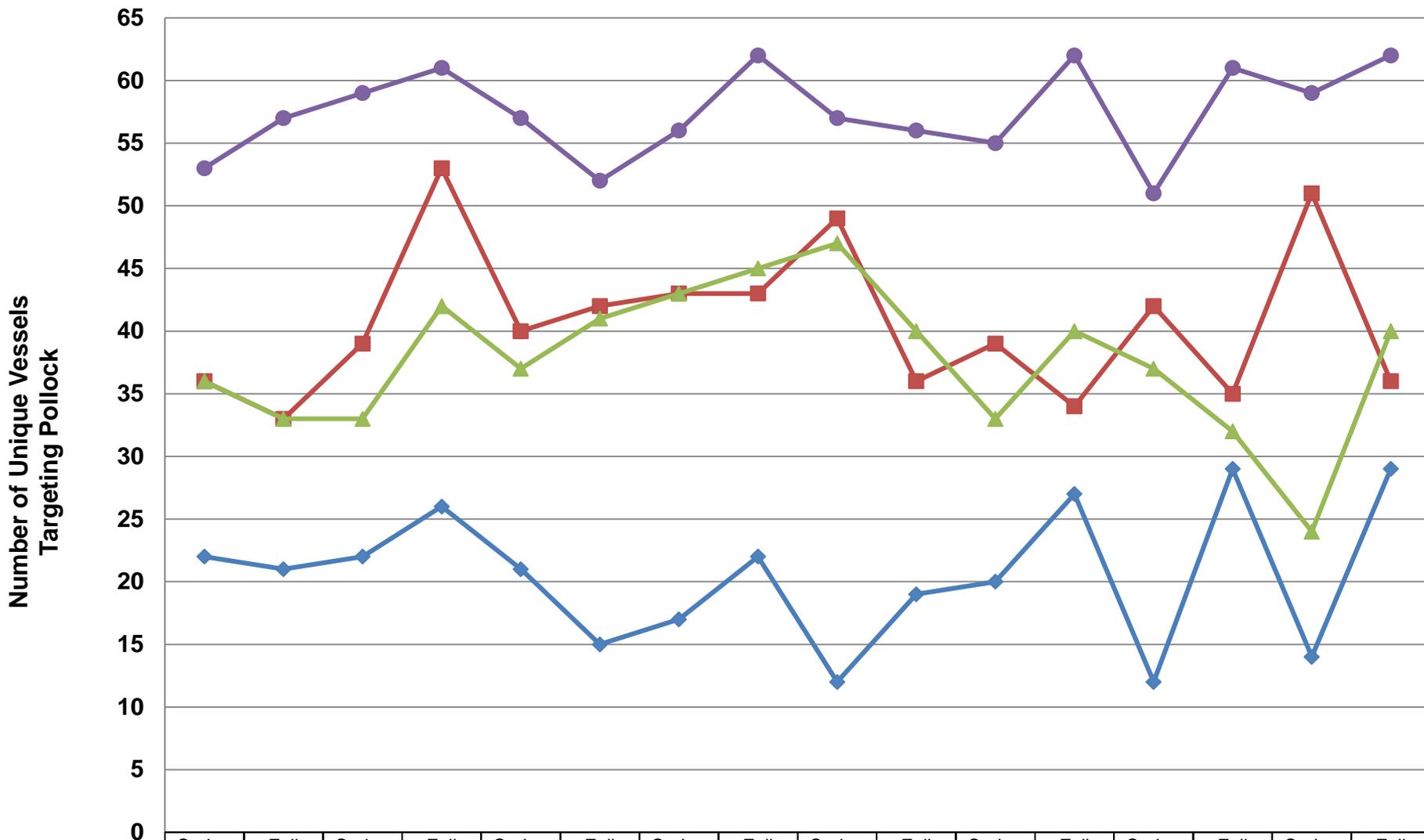


2018 Pollock Catch in the GOA

■ 610 ■ 620 ■ 630 ■ 640

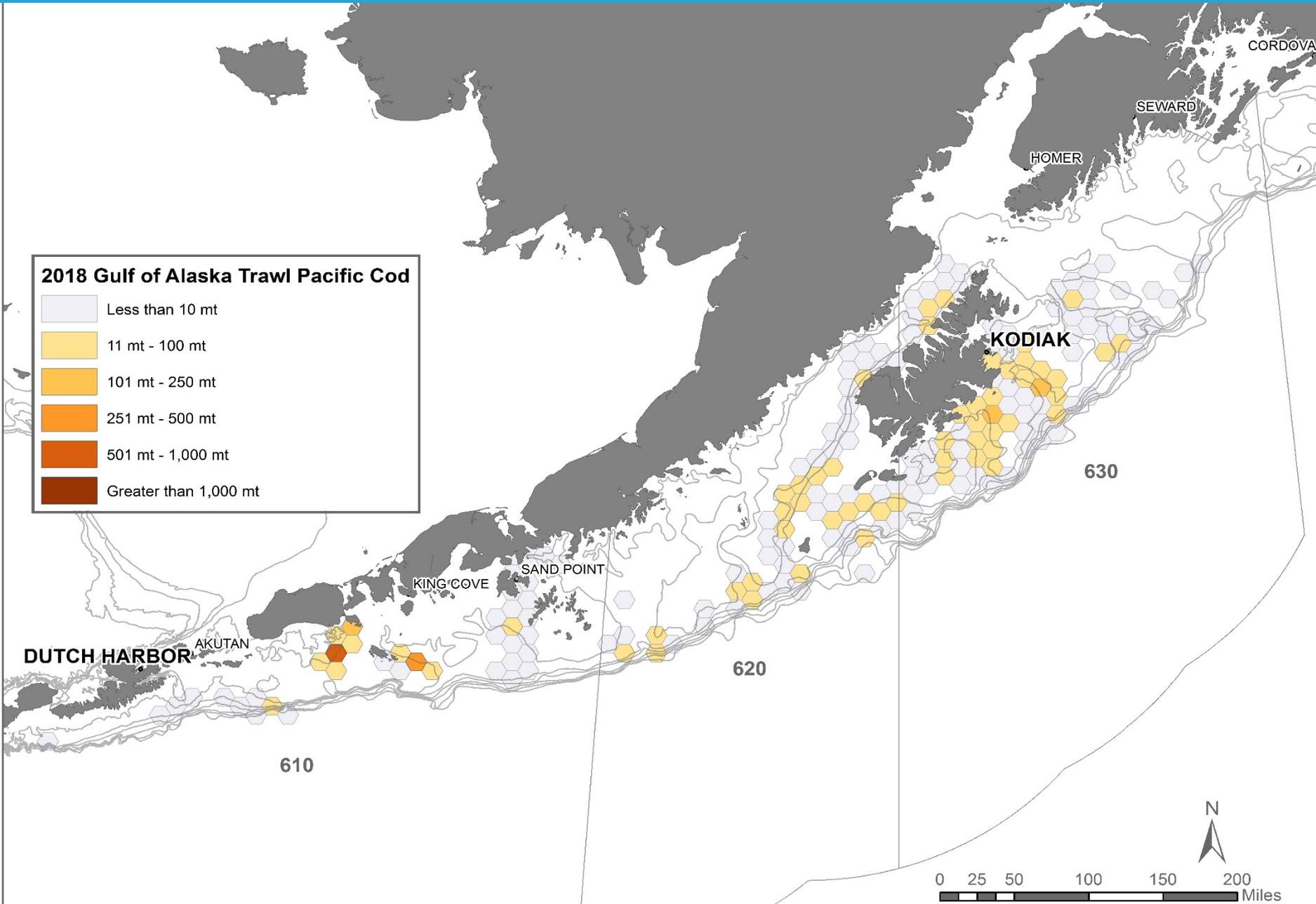


2011 – 2018 Counts of Vessels Targeting GOA Pollock

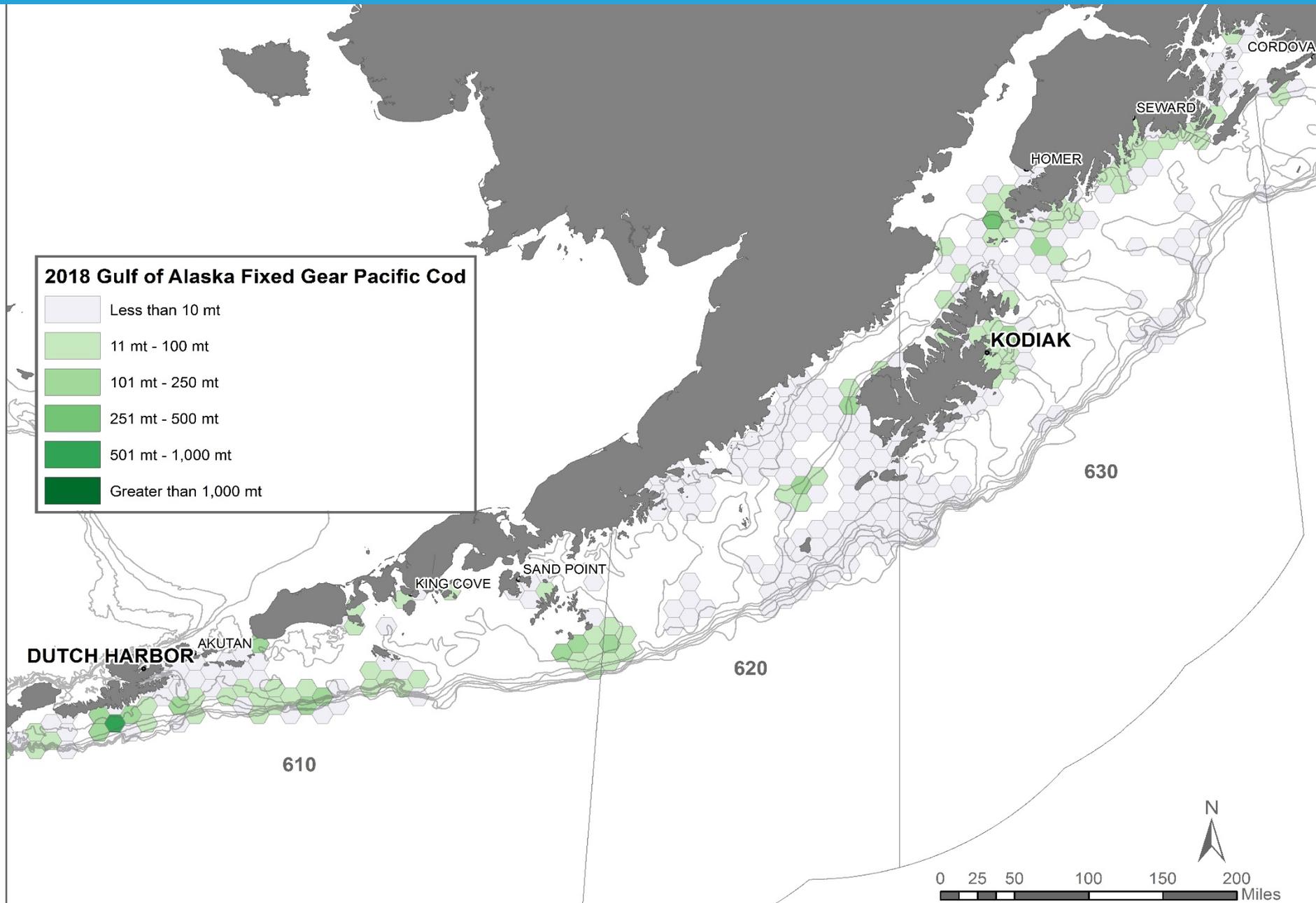


	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018	Fall 2018
610	22	21	22	26	21	15	17	22	12	19	20	27	12	29	14	29
620	36	33	39	53	40	42	43	43	49	36	39	34	42	35	51	36
630	36	33	33	42	37	41	43	45	47	40	33	40	37	32	24	40
All Areas	53	57	59	61	57	52	56	62	57	56	55	62	51	61	59	62

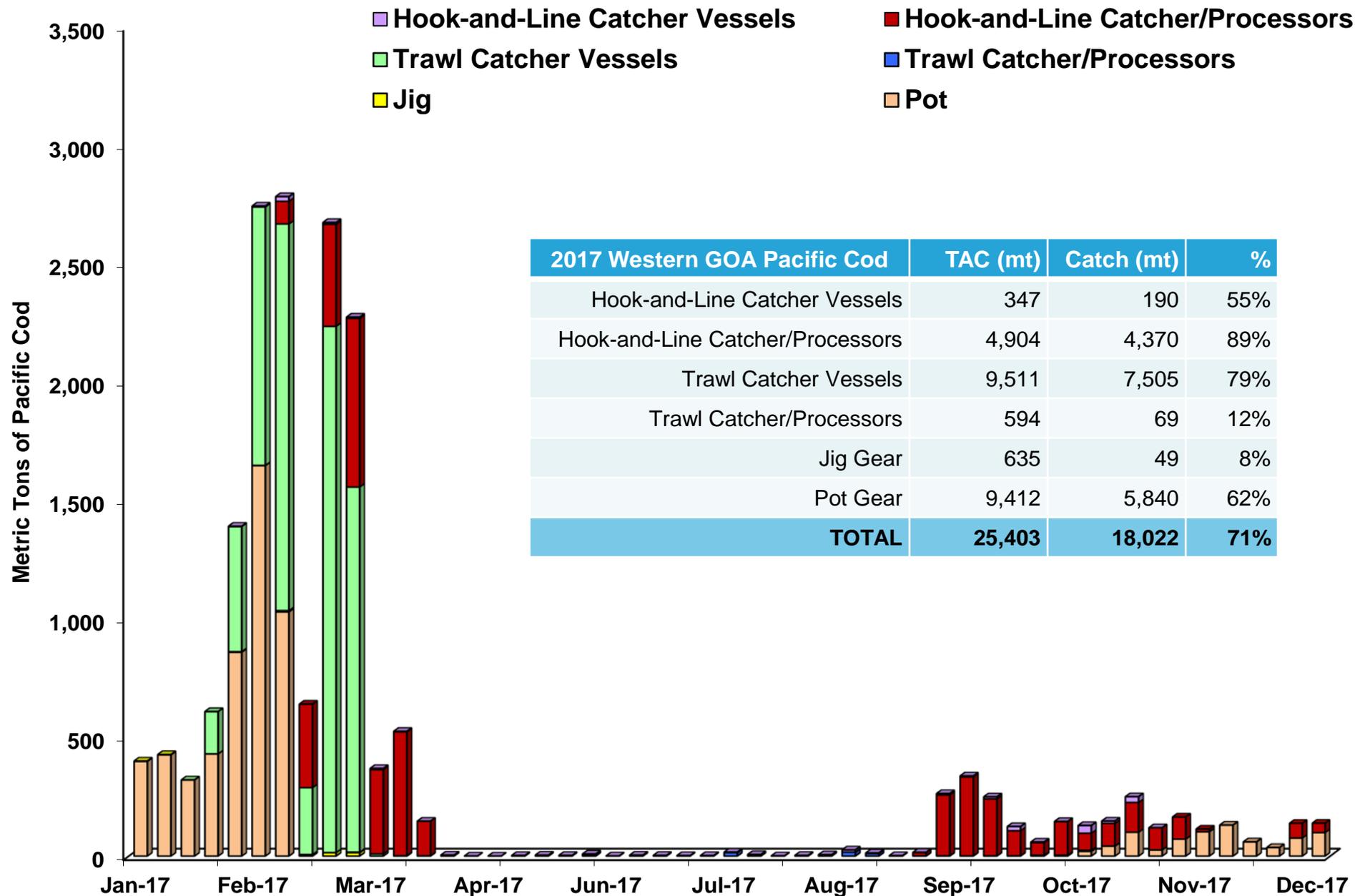
2018 Gulf of Alaska Pacific Cod Catch by Trawl Gear



2018 Gulf of Alaska Pacific Cod Catch by Non-Trawl Gear



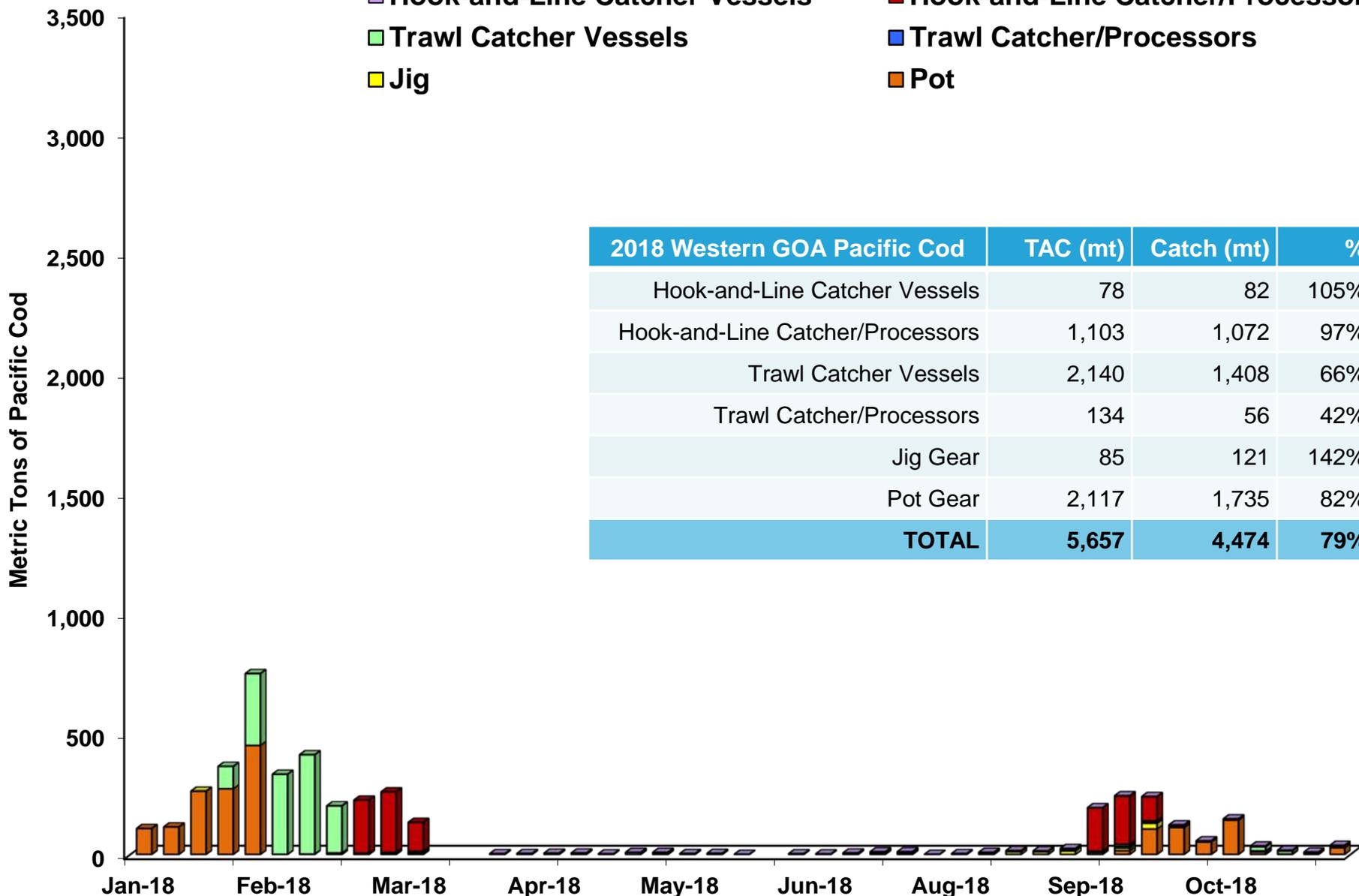
2017 Western GOA Pacific Cod Catch by Week and Sector



2017 Western GOA Pacific Cod	TAC (mt)	Catch (mt)	%
Hook-and-Line Catcher Vessels	347	190	55%
Hook-and-Line Catcher/Processors	4,904	4,370	89%
Trawl Catcher Vessels	9,511	7,505	79%
Trawl Catcher/Processors	594	69	12%
Jig Gear	635	49	8%
Pot Gear	9,412	5,840	62%
TOTAL	25,403	18,022	71%

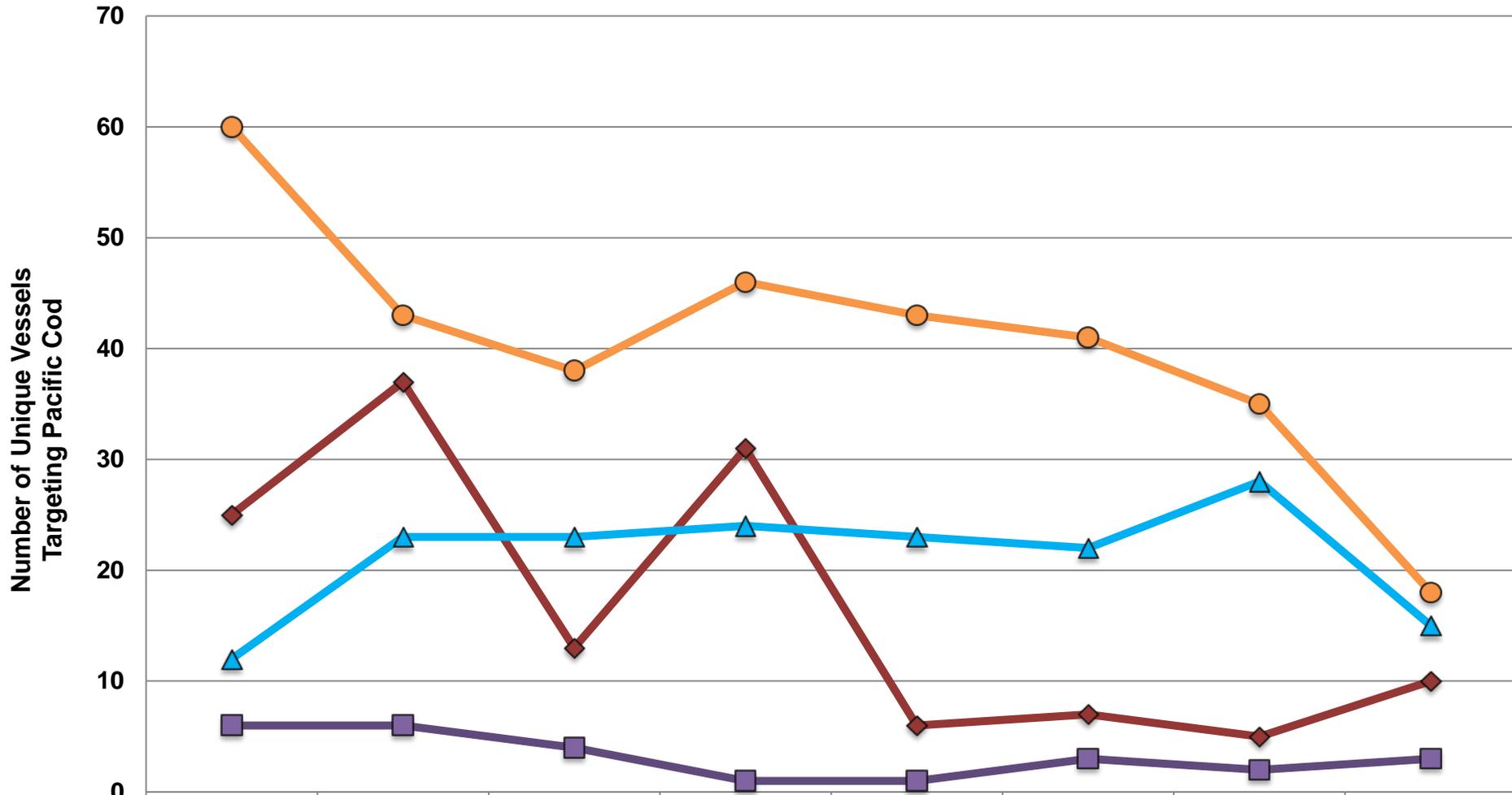
2018 Western GOA Pacific Cod Catch by Week and Sector

- Hook-and-Line Catcher Vessels
- Trawl Catcher Vessels
- Jig
- Hook-and-Line Catcher/Processors
- Trawl Catcher/Processors
- Pot



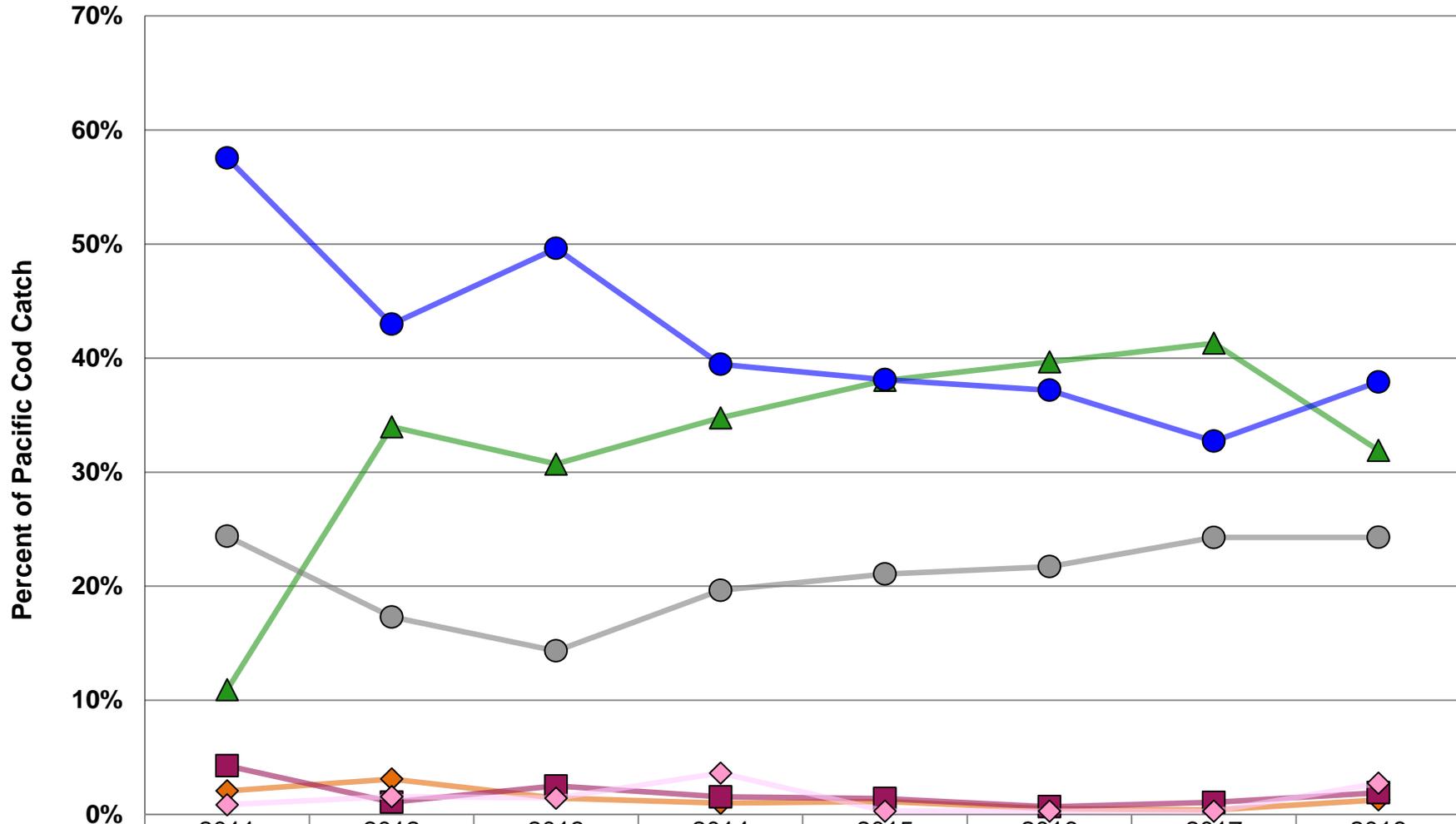
2018 Western GOA Pacific Cod	TAC (mt)	Catch (mt)	%
Hook-and-Line Catcher Vessels	78	82	105%
Hook-and-Line Catcher/Processors	1,103	1,072	97%
Trawl Catcher Vessels	2,140	1,408	66%
Trawl Catcher/Processors	134	56	42%
Jig Gear	85	121	142%
Pot Gear	2,117	1,735	82%
TOTAL	5,657	4,474	79%

2011 – 2018 Counts of Catcher Vessels Targeting Western GOA Pacific Cod



■ HAL	2011	2012	2013	2014	2015	2016	2017	2018
◆ JIG	6	6	4	1	1	3	2	3
● POT	25	37	13	31	6	7	5	10
▲ TRW	60	43	38	46	43	41	35	18
	12	23	23	24	23	22	28	15
TOTAL	123	119	80	98	80	82	80	54

2011 – 2018 Western GOA Pacific Cod Catch by Sector



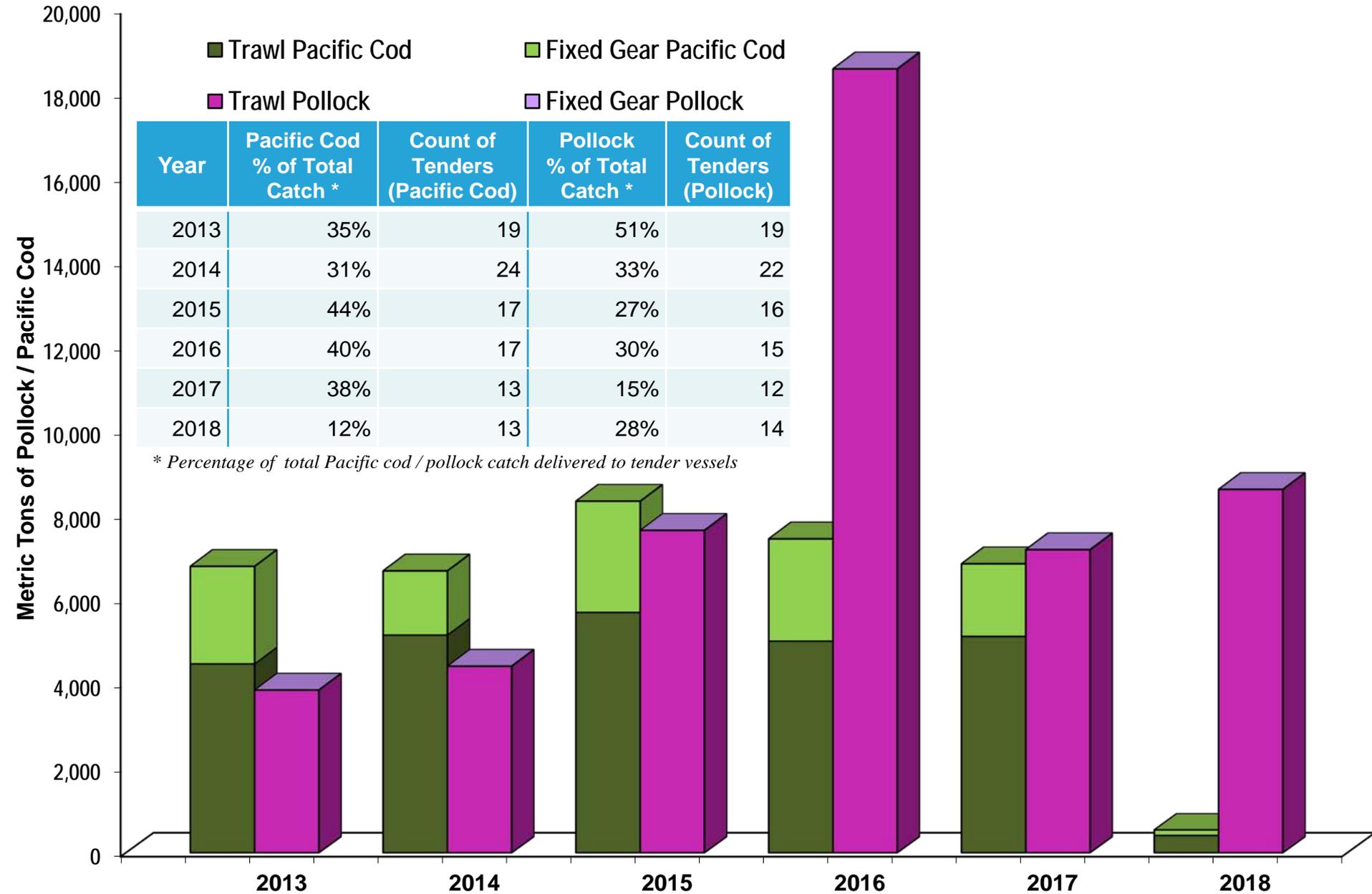
▲ Trawl (CV)	11%	34%	31%	35%	38%	40%	41%	32%
◆ Trawl (CP)	2%	3%	1%	1%	1%	0%	0%	1%
■ HAL (CV)	4%	1%	2%	2%	1%	1%	1%	2%
● Pot (CV)	58%	43%	50%	39%	38%	37%	33%	38%
◇ Jig (CV)	1%	2%	1%	4%	0%	0%	0%	3%
● Fixed Gear CP	24%	17%	14%	20%	21%	22%	24%	24%

Western GOA Tender Vessels Report

- Trawl Pacific Cod
- Fixed Gear Pacific Cod
- Trawl Pollock
- Fixed Gear Pollock

Year	Pacific Cod % of Total Catch *	Count of Tenders (Pacific Cod)	Pollock % of Total Catch *	Count of Tenders (Pollock)
2013	35%	19	51%	19
2014	31%	24	33%	22
2015	44%	17	27%	16
2016	40%	17	30%	15
2017	38%	13	15%	12
2018	12%	13	28%	14

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

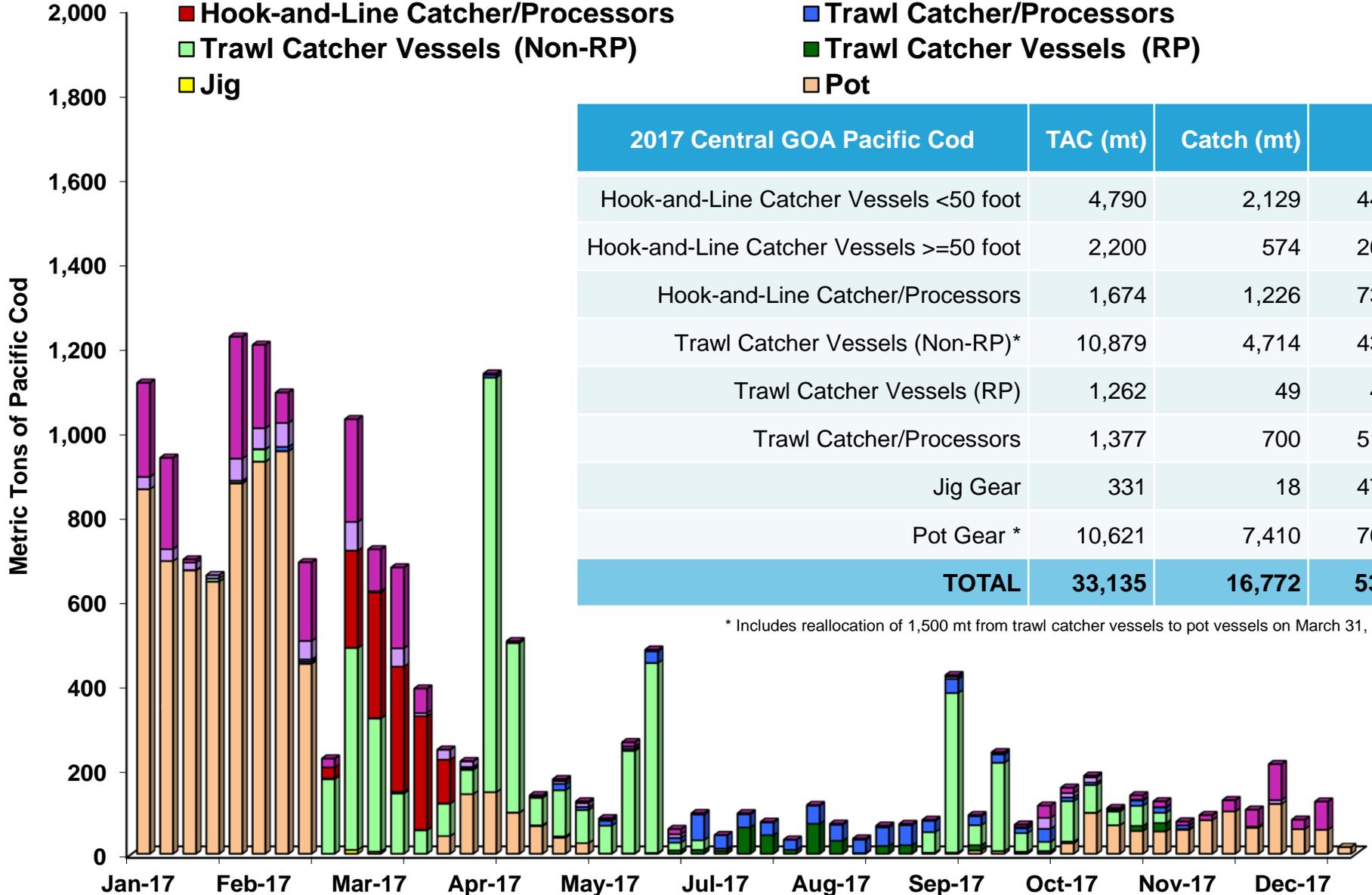


2017 Central GOA Pacific Cod Catch by Week and Sector

- Hook-and-Line Catcher Vessels < 50 foot
- Hook-and-Line Catcher/Processors
- Trawl Catcher Vessels (Non-RP)
- Trawl Catcher Vessels (RP)
- Jig
- Hook-and-Line Catcher Vessels >= 50 foot
- Trawl Catcher/Processors
- Trawl Catcher Vessels (RP)
- Pot

2017 Central GOA Pacific Cod	TAC (mt)	Catch (mt)	%
Hook-and-Line Catcher Vessels <50 foot	4,790	2,129	44%
Hook-and-Line Catcher Vessels >=50 foot	2,200	574	26%
Hook-and-Line Catcher/Processors	1,674	1,226	73%
Trawl Catcher Vessels (Non-RP)*	10,879	4,714	43%
Trawl Catcher Vessels (RP)	1,262	49	4%
Trawl Catcher/Processors	1,377	700	51%
Jig Gear	331	18	47%
Pot Gear *	10,621	7,410	70%
TOTAL	33,135	16,772	53%

* Includes reallocation of 1,500 mt from trawl catcher vessels to pot vessels on March 31, 2017.



2018 Central GOA Pacific Cod Catch by Week and Sector



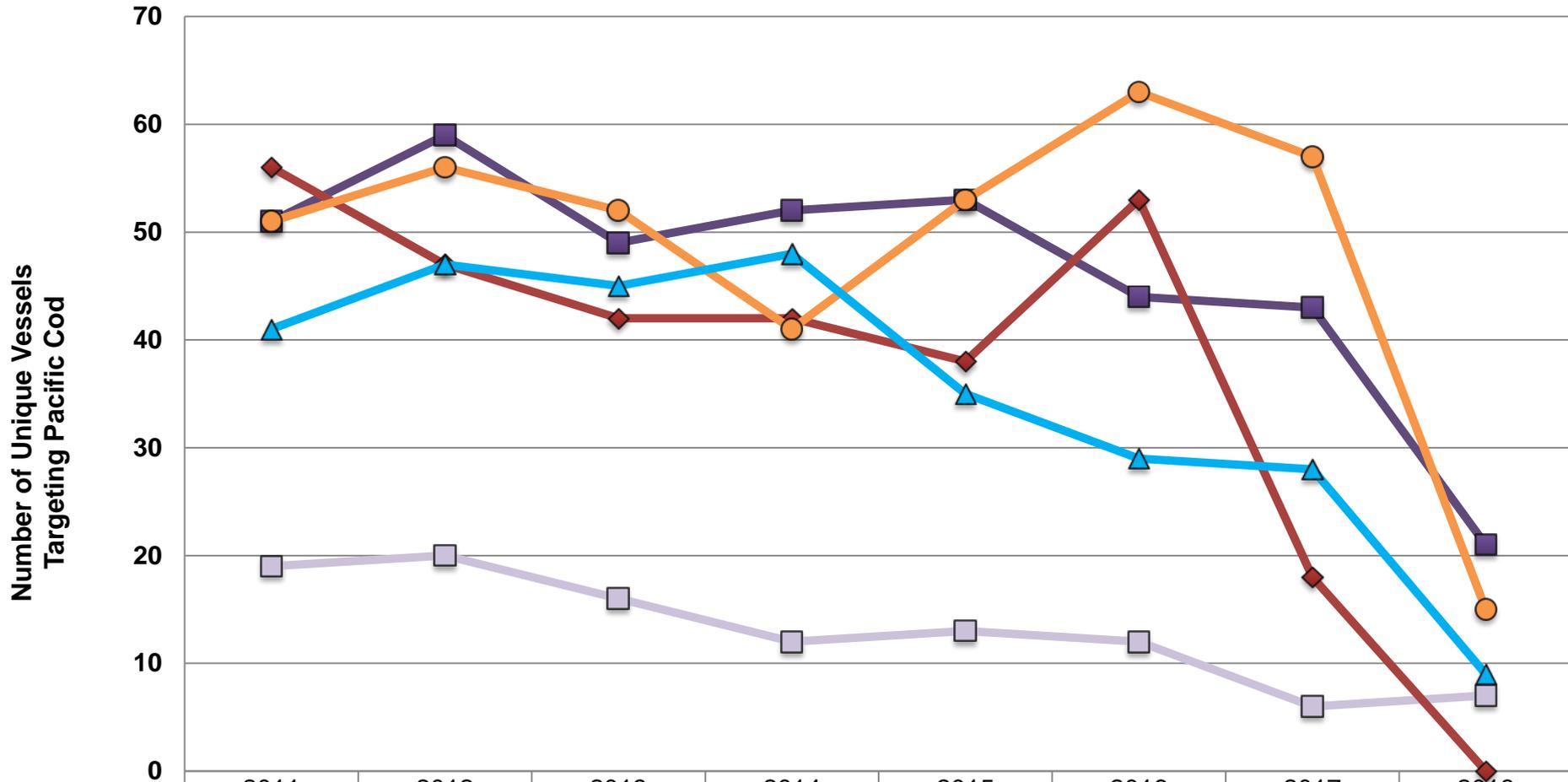
2018 Central GOA Pacific Cod	TAC (mt)	Catch (mt)	%
Hook-and-Line Catcher Vessels <50 foot	880	873	99%
Hook-and-Line Catcher Vessels >=50 foot	404	416	103%
Hook-and-Line Catcher/Processors	308	266	86%
Trawl Catcher Vessels (Non-RP)	2,275	1,612	71%
Trawl Catcher Vessels (RP)	232	83	36%
Trawl Catcher/Processors*	253	630	249%
Jig Gear	61	0	0%
Pot Gear	1,676	1,519	91%
TOTAL	6,089	5,399	89%

*Prohibited retention of Pacific cod by trawl catcher/processors in the Central GOA on November 19, 2018

Metric Tons of Pacific Cod

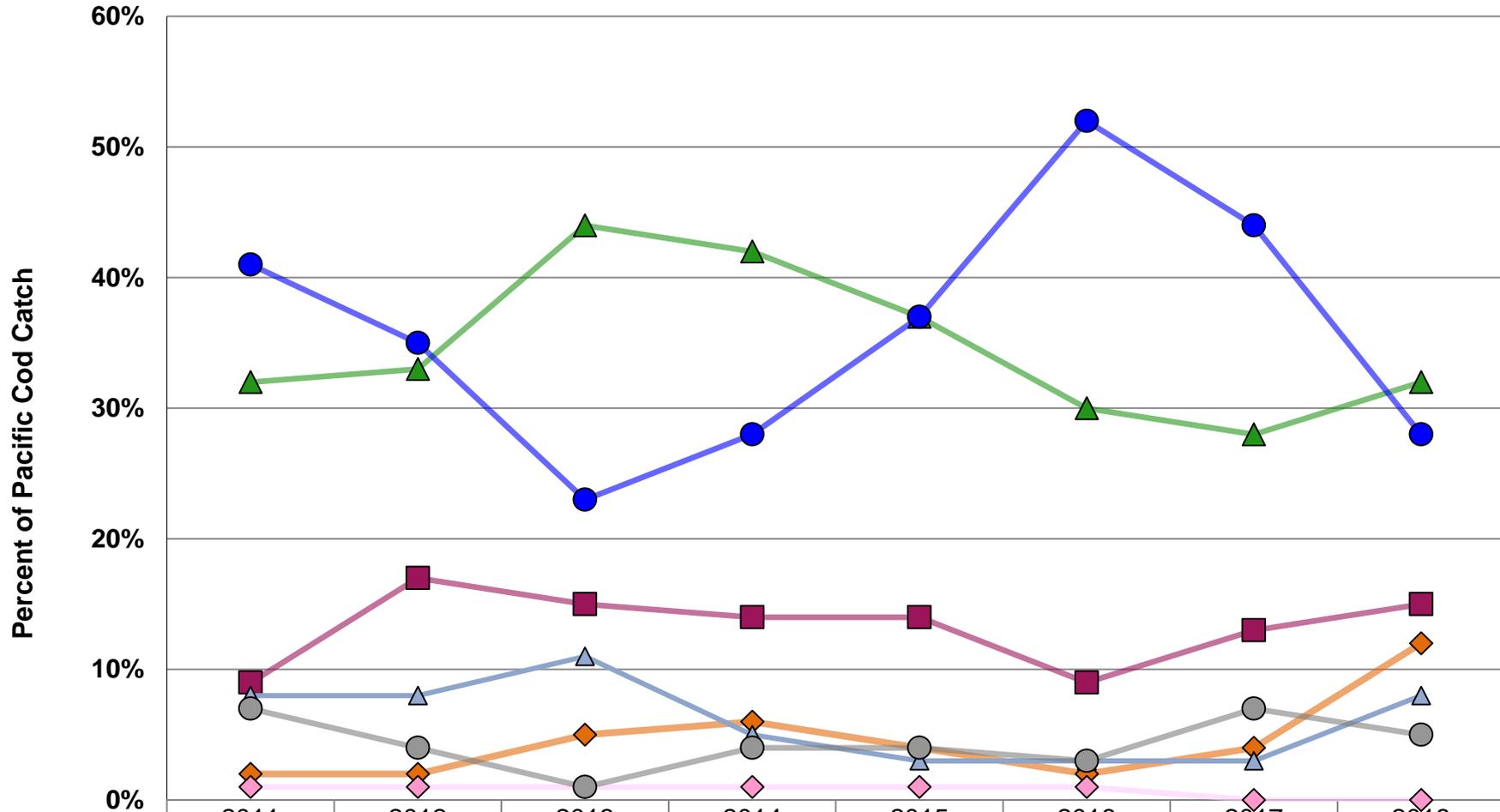
Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18 Aug-18 Sep-18 Oct-18

2011 – 2018 Counts of Catcher Vessels Targeting Central GOA Pacific Cod



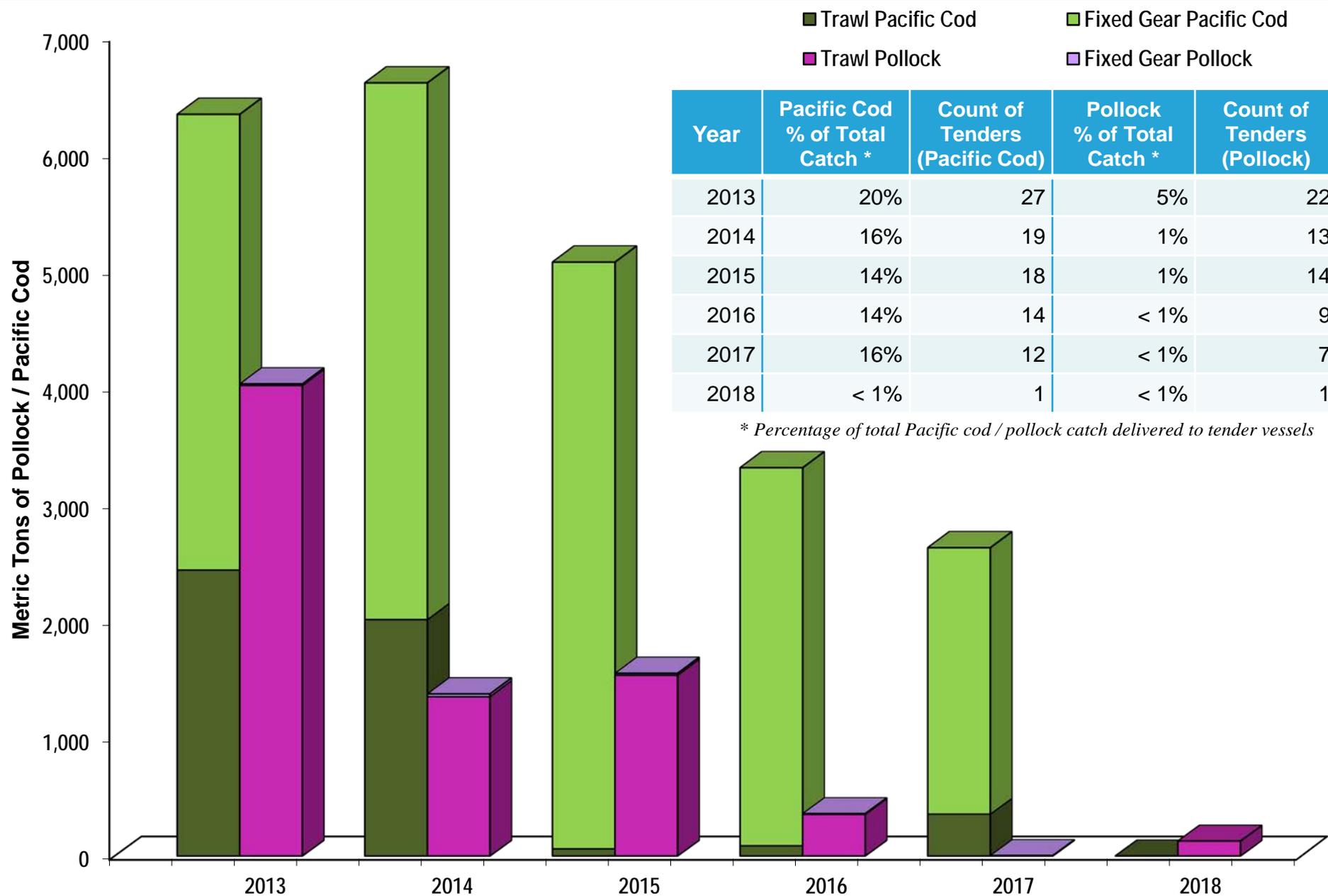
■ HAL <50	51	59	49	52	53	44	43	21
□ HAL >=50	19	20	16	12	13	12	6	7
◆ JIG	56	47	42	42	38	53	18	0
● POT	51	56	52	41	53	63	57	15
▲ TRW	41	47	45	48	35	29	28	9
TOTAL	275	269	217	222	237	255	170	64

2011 – 2018 Central GOA Pacific Cod Catch by Sector



	2011	2012	2013	2014	2015	2016	2017	2018
▲ Trawl (CV)	32%	33%	44%	42%	37%	30%	28%	32%
◆ Trawl (CP)	2%	2%	5%	6%	4%	2%	4%	12%
● Pot (CV)	41%	35%	23%	28%	37%	52%	44%	28%
◇ Jig (CV)	1%	1%	1%	1%	1%	1%	0%	0%
■ HAL <50 CV	9%	17%	15%	14%	14%	9%	13%	15%
△ HAL ≥ 50 CV	8%	8%	11%	5%	3%	3%	3%	8%
● Fixed Gear (CP)	7%	4%	1%	4%	4%	3%	7%	5%

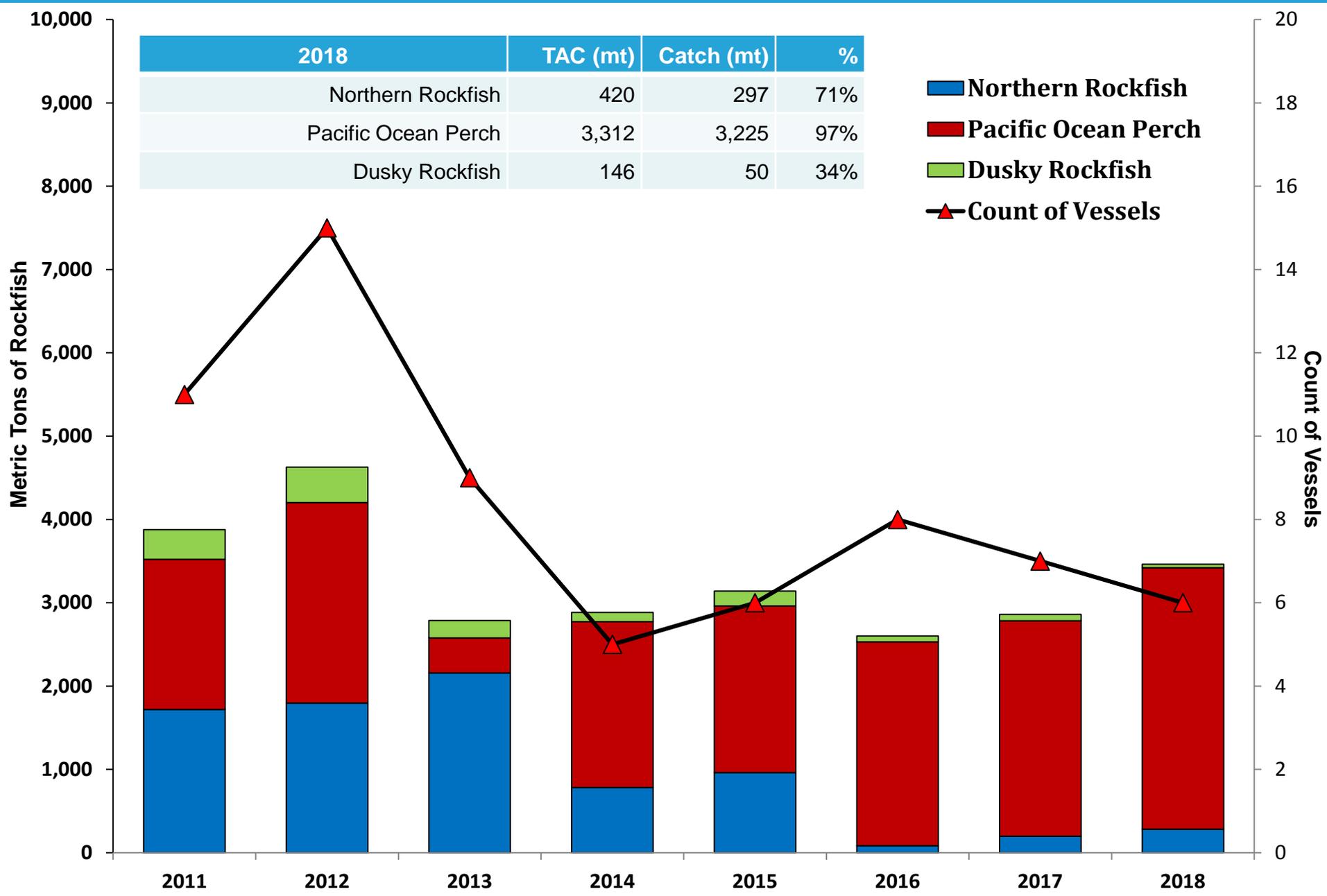
Central GOA Tender Vessels Report



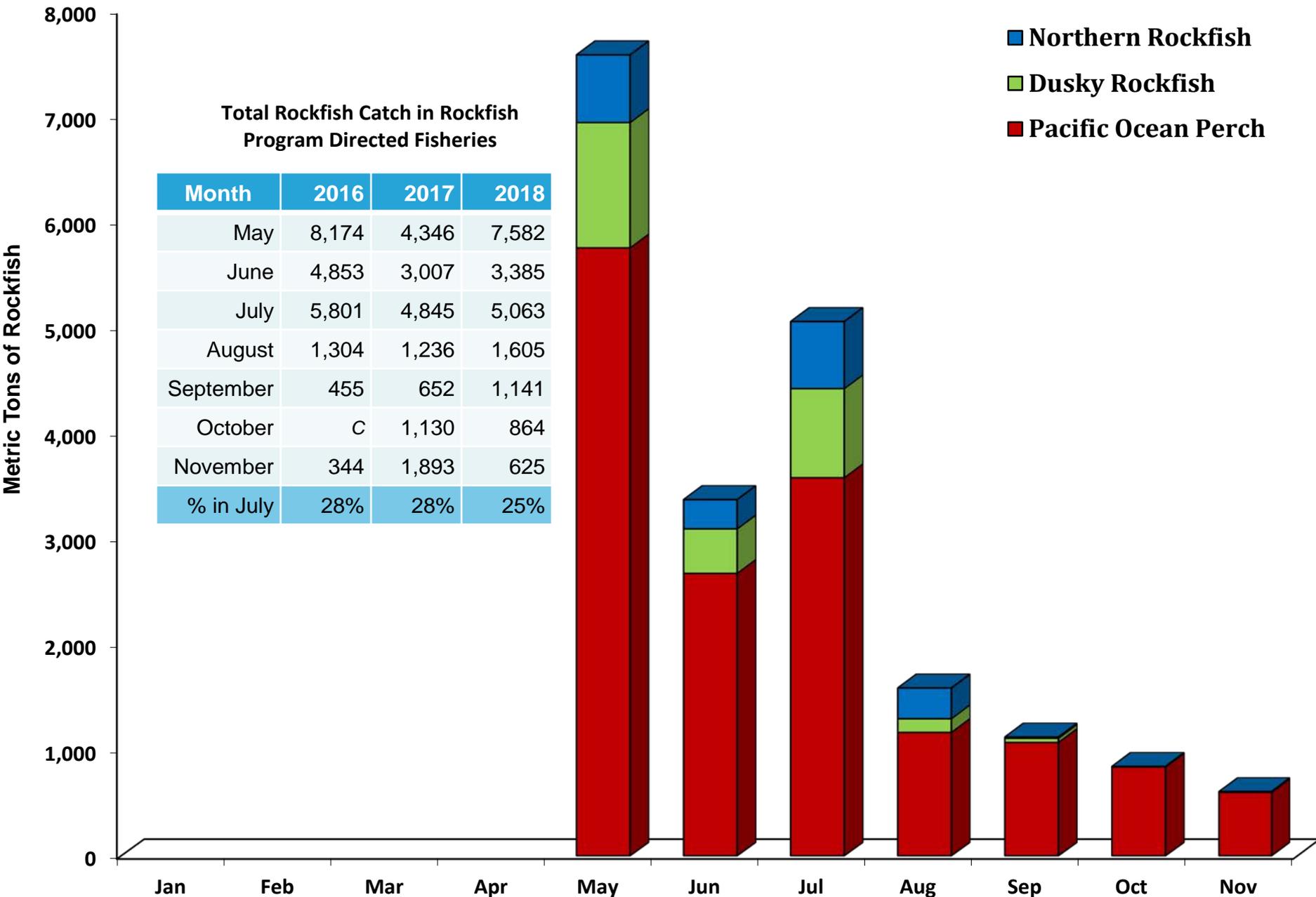
Western GOA Trawl Rockfish Fishery

2018	TAC (mt)	Catch (mt)	%
Northern Rockfish	420	297	71%
Pacific Ocean Perch	3,312	3,225	97%
Dusky Rockfish	146	50	34%

- Northern Rockfish
- Pacific Ocean Perch
- Dusky Rockfish
- ▲ Count of Vessels



2018 Central GOA Trawl Rockfish Program Fishery by Month



- Northern Rockfish
- Dusky Rockfish
- Pacific Ocean Perch

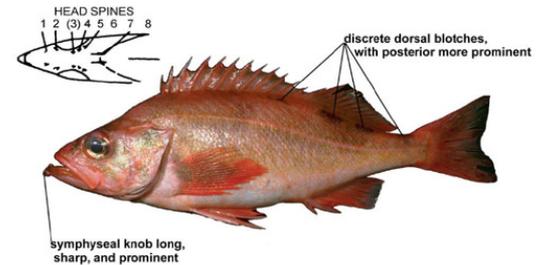
Metric Tons of Rockfish

8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0

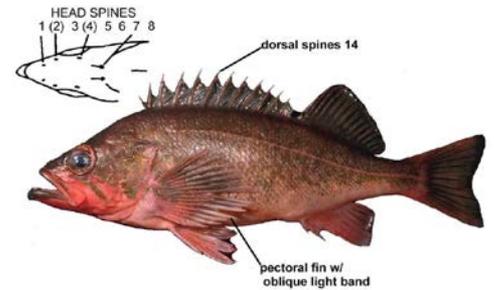
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov

2018 Rockfish Program Allocations and Catch

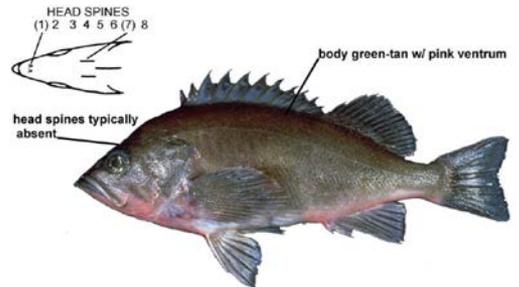
Species	Limit (mt)	Catch (mt)	%
Entry level Fixed Gear			
Pacific Ocean Perch	5	0	0%
Northern Rockfish	5	0	0%
Dusky Rockfish	50	8	17%
Cooperatives			
Pacific Ocean Perch	16,107	15,821	98%
Northern Rockfish	2,956	1,915	65%
Dusky Rockfish	3,202	2,702	84%
Pacific Cod	232	83	36%
Sablefish	531	510	96%
Thornyhead Rockfish	316	264	83%
Shortraker Rockfish	122	confidential	confidential
Rougheye Rockfish	327	confidential	confidential
Pacific Halibut PSC	191	74	39%
Primary Species Central GOA Incidental Catch			
Pacific Ocean Perch	4,000	2,340	51%
Northern Rockfish	300	148	49%
Dusky Rockfish	250	127	51%



Pacific Ocean Perch

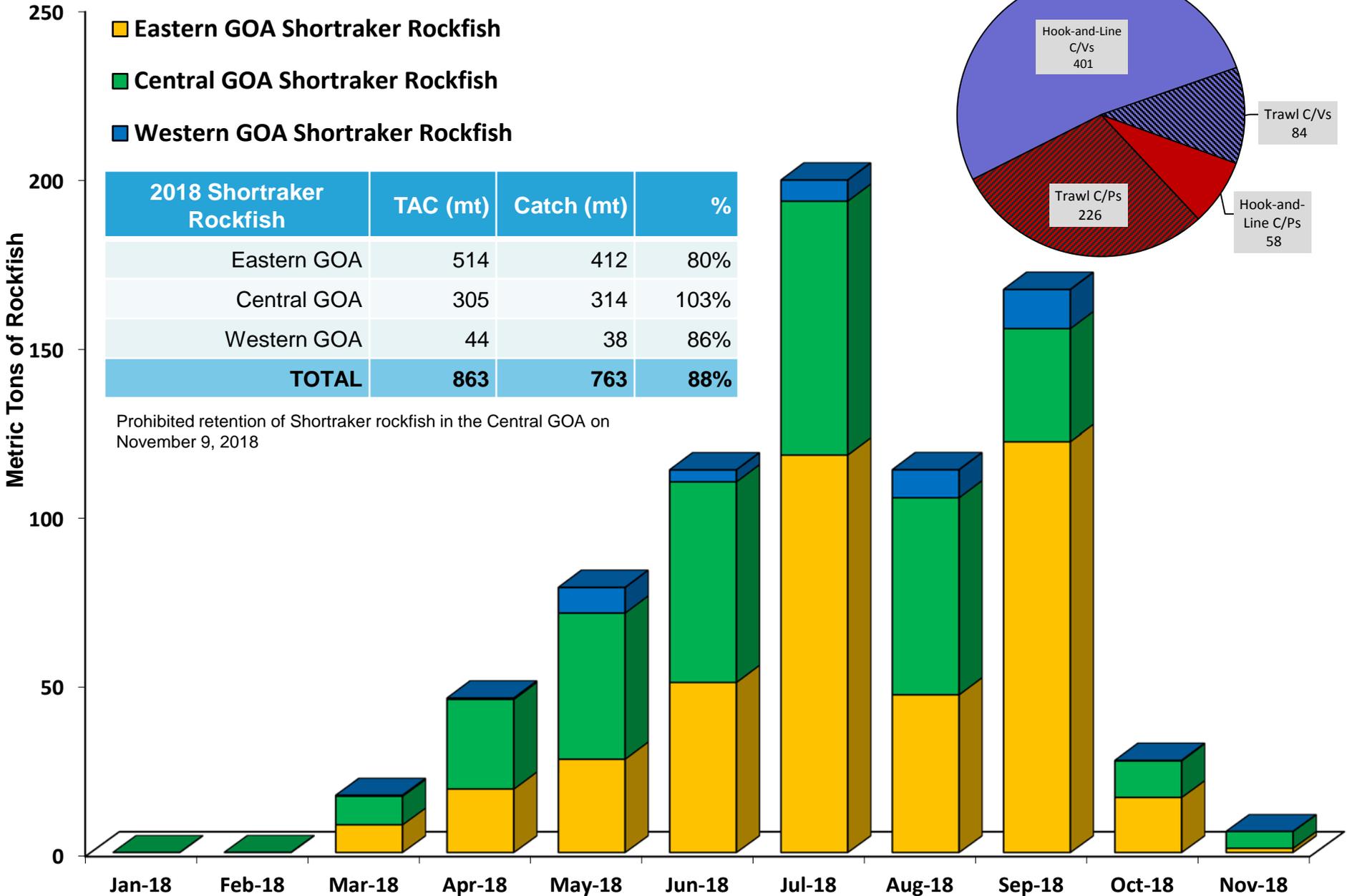


Northern Rockfish



Dusky Rockfish

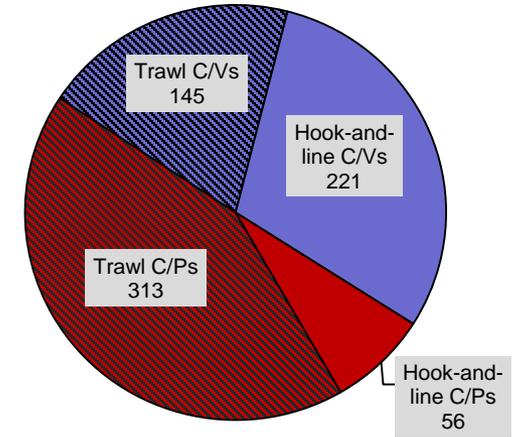
2018 GOA Shortraker Rockfish Catch



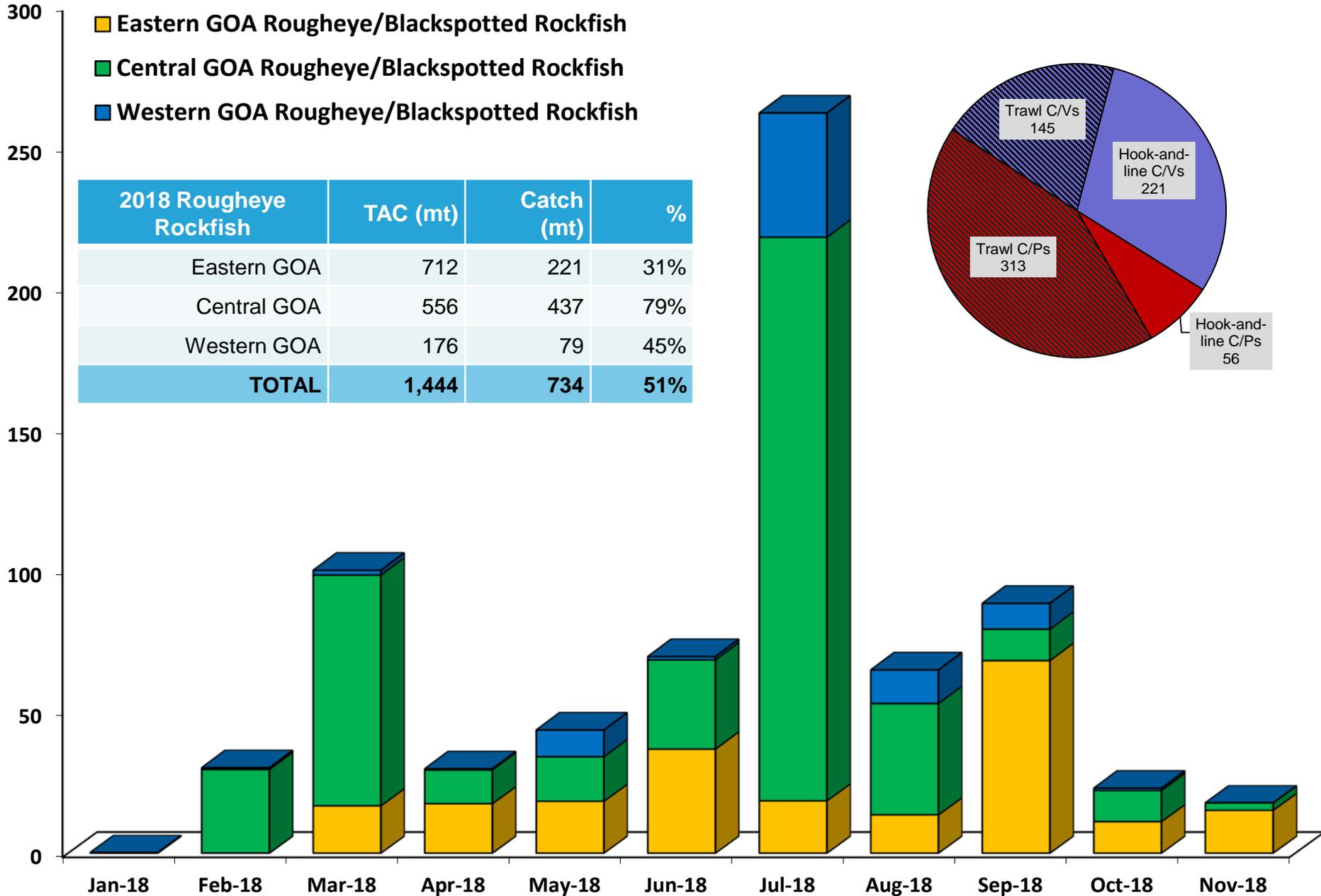
2018 GOA Rougheye/Blackspotted Rockfish Catch



2018 Rougheye Rockfish	TAC (mt)	Catch (mt)	%
Eastern GOA	712	221	31%
Central GOA	556	437	79%
Western GOA	176	79	45%
TOTAL	1,444	734	51%



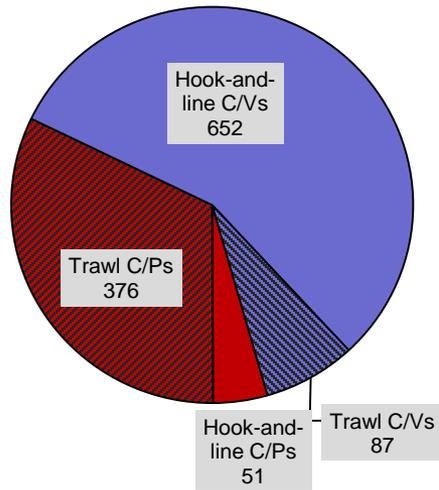
Metric Tons of Rockfish



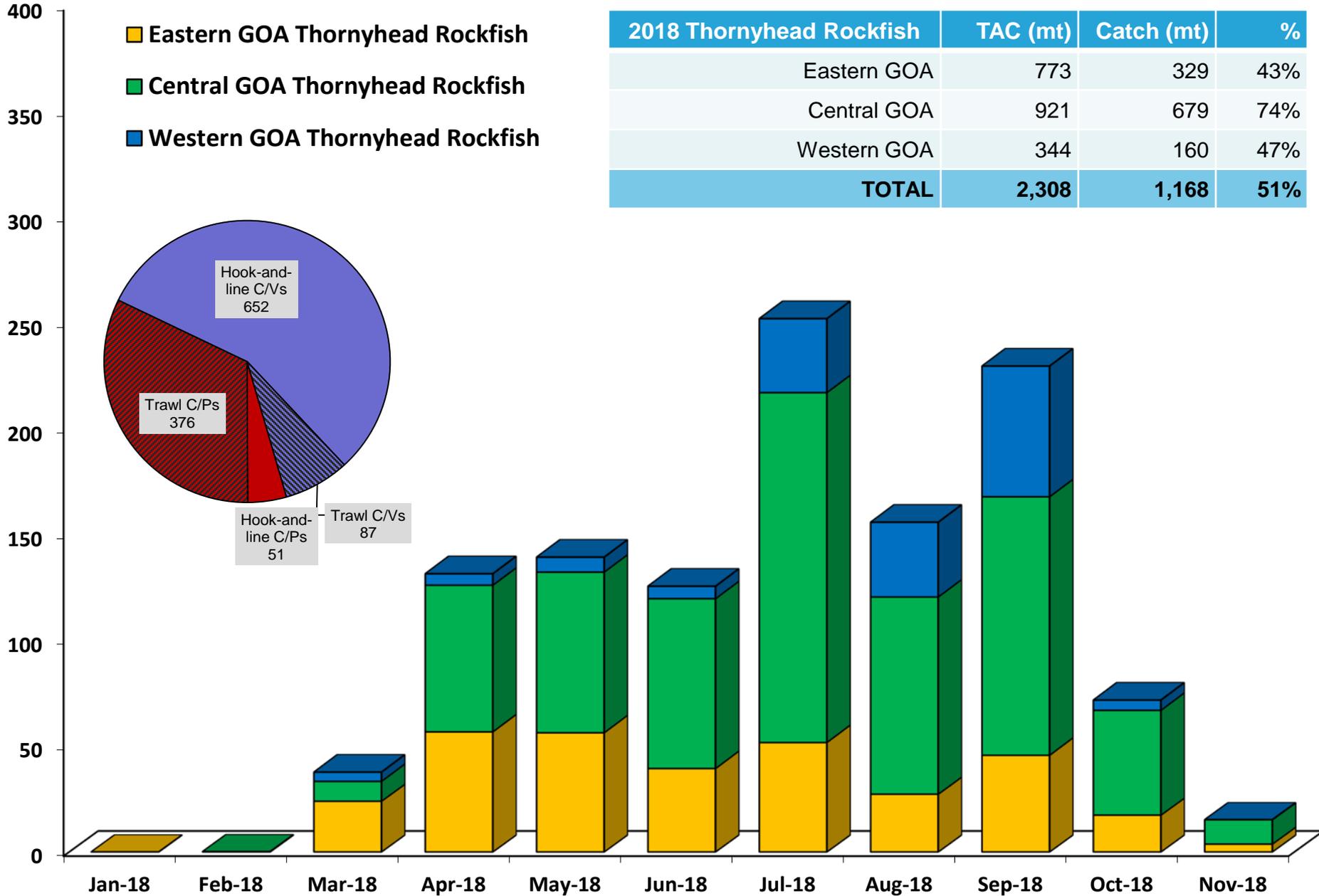
2018 GOA Thornyhead Rockfish Catch

- Eastern GOA Thornyhead Rockfish
- Central GOA Thornyhead Rockfish
- Western GOA Thornyhead Rockfish

2018 Thornyhead Rockfish	TAC (mt)	Catch (mt)	%
Eastern GOA	773	329	43%
Central GOA	921	679	74%
Western GOA	344	160	47%
TOTAL	2,308	1,168	51%



Metric Tons of Rockfish



2018 GOA Other Rockfish Catch

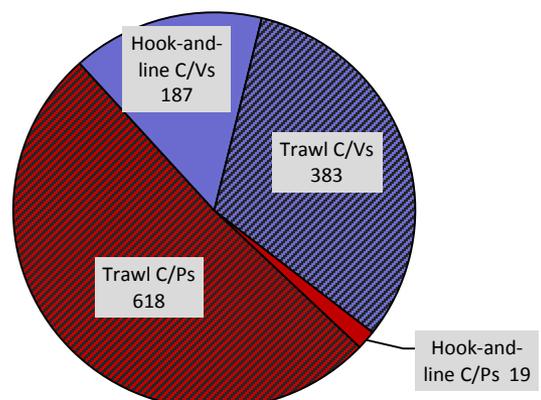
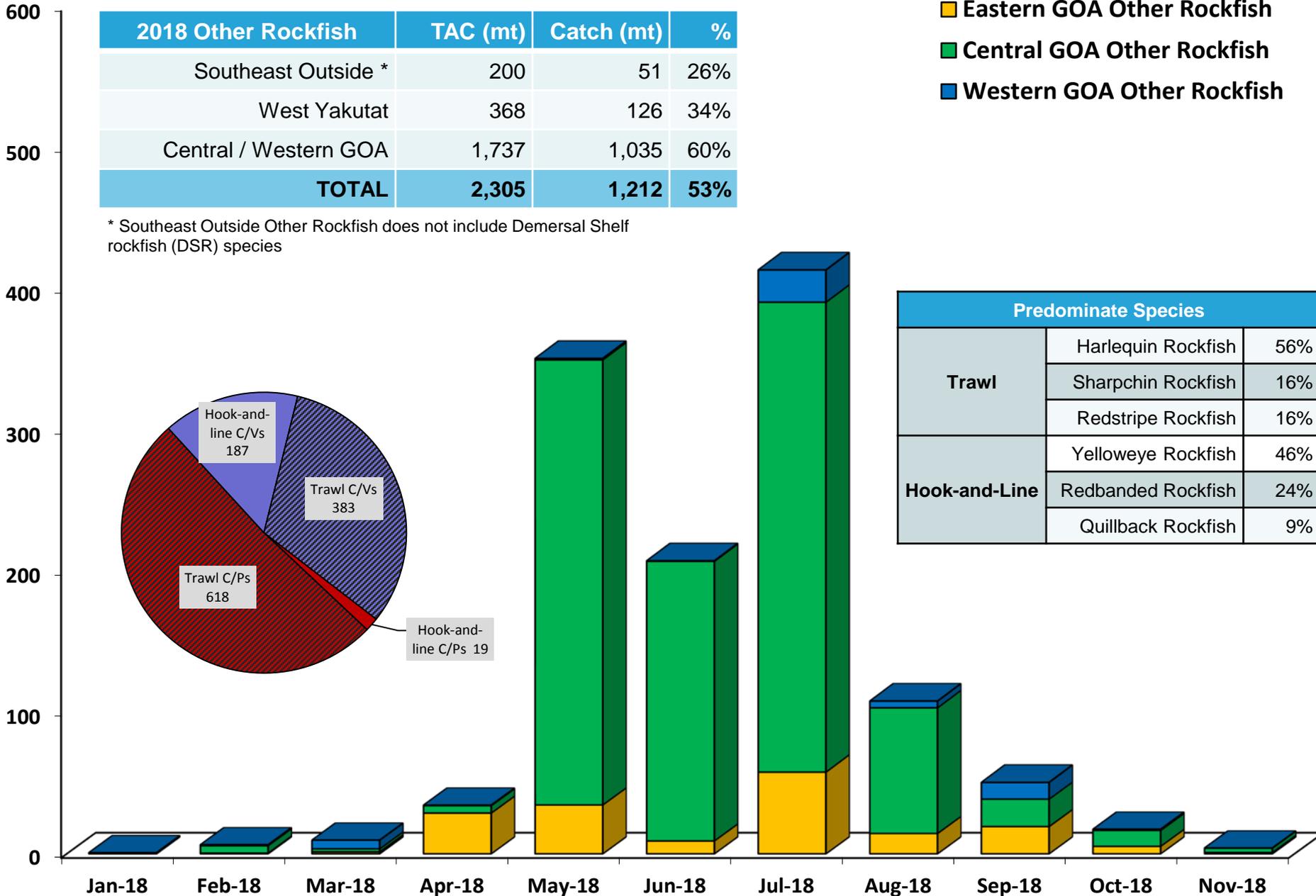
2018 Other Rockfish	TAC (mt)	Catch (mt)	%
Southeast Outside *	200	51	26%
West Yakutat	368	126	34%
Central / Western GOA	1,737	1,035	60%
TOTAL	2,305	1,212	53%

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

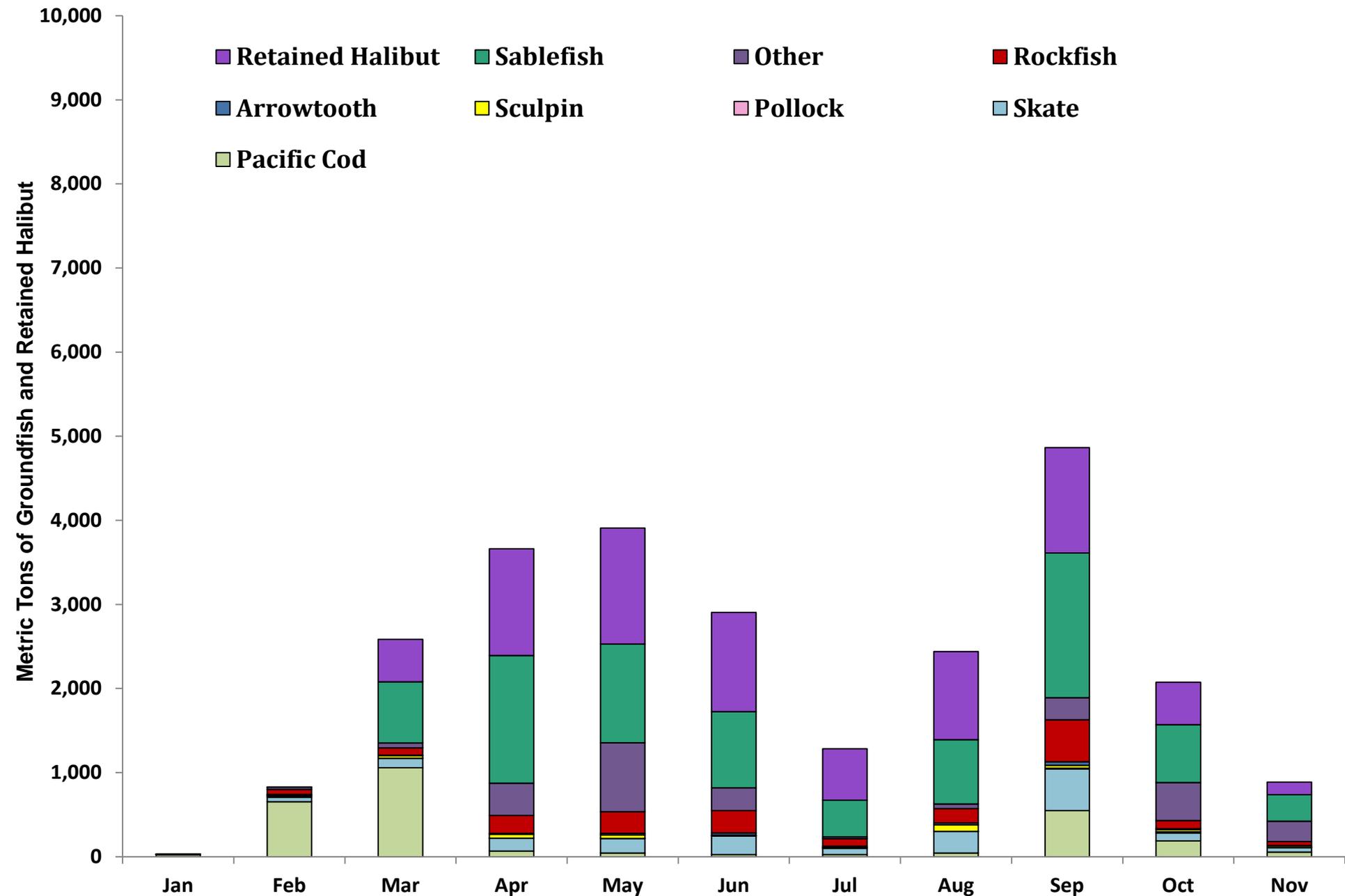
- Eastern GOA Other Rockfish
- Central GOA Other Rockfish
- Western GOA Other Rockfish

Predominate Species		
Trawl	Harlequin Rockfish	56%
	Sharpchin Rockfish	16%
	Redstripe Rockfish	16%
Hook-and-Line	Yelloweye Rockfish	46%
	Redbanded Rockfish	24%
	Quillback Rockfish	9%

Metric Tons of Rockfish



2018 GOA Hook-and-Line Catch



2018 GOA Sablefish Catch

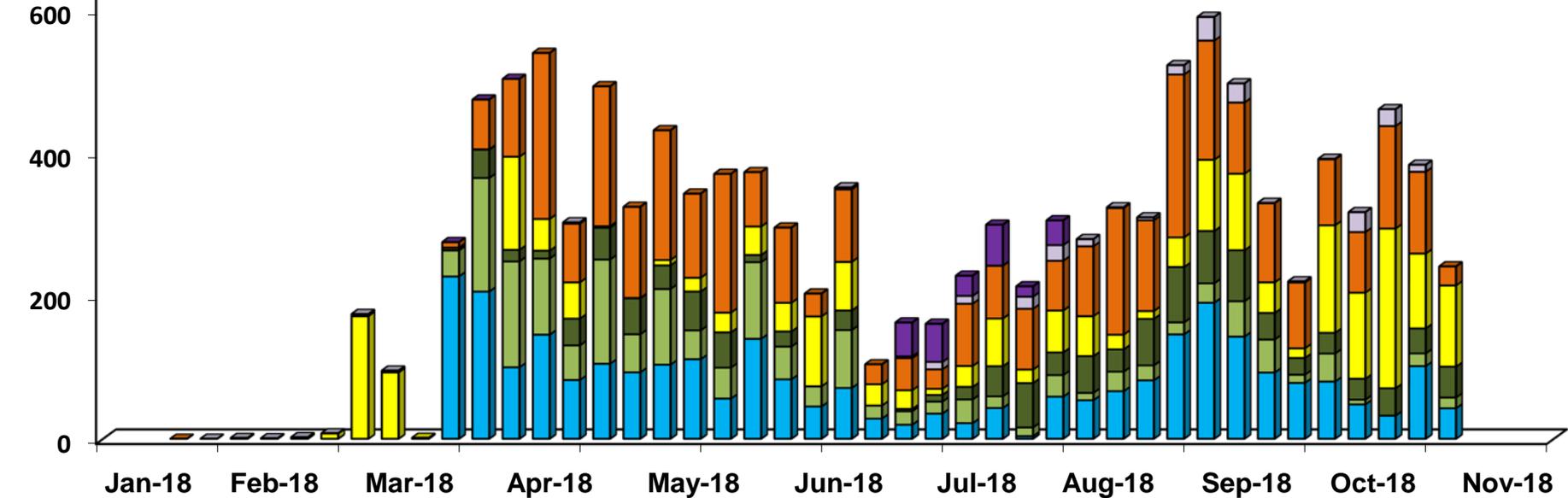
- Western GOA Fixed Gear
- Western GOA Trawl
- Central GOA Fixed Gear
- Central GOA Trawl
- West Yakutat Fixed Gear
- West Yakutat Trawl
- Southeast Fixed Gear

2018 Sablefish	TAC (mt)	Catch (mt)	%
Western GOA Fixed Gear	1,235	1,175	95%
Western GOA Trawl	309	226	73%
Central GOA Fixed Gear	4,126	3,616	88%
Central GOA Trawl *	1,032	2,215	215%
West Yakutat Fixed Gear	1,589	1,592	100%
West Yakutat Trawl *	240	236	98%
Southeast Fixed Gear	2,974	2,994	101%
TOTAL	11,505	12,054	105%

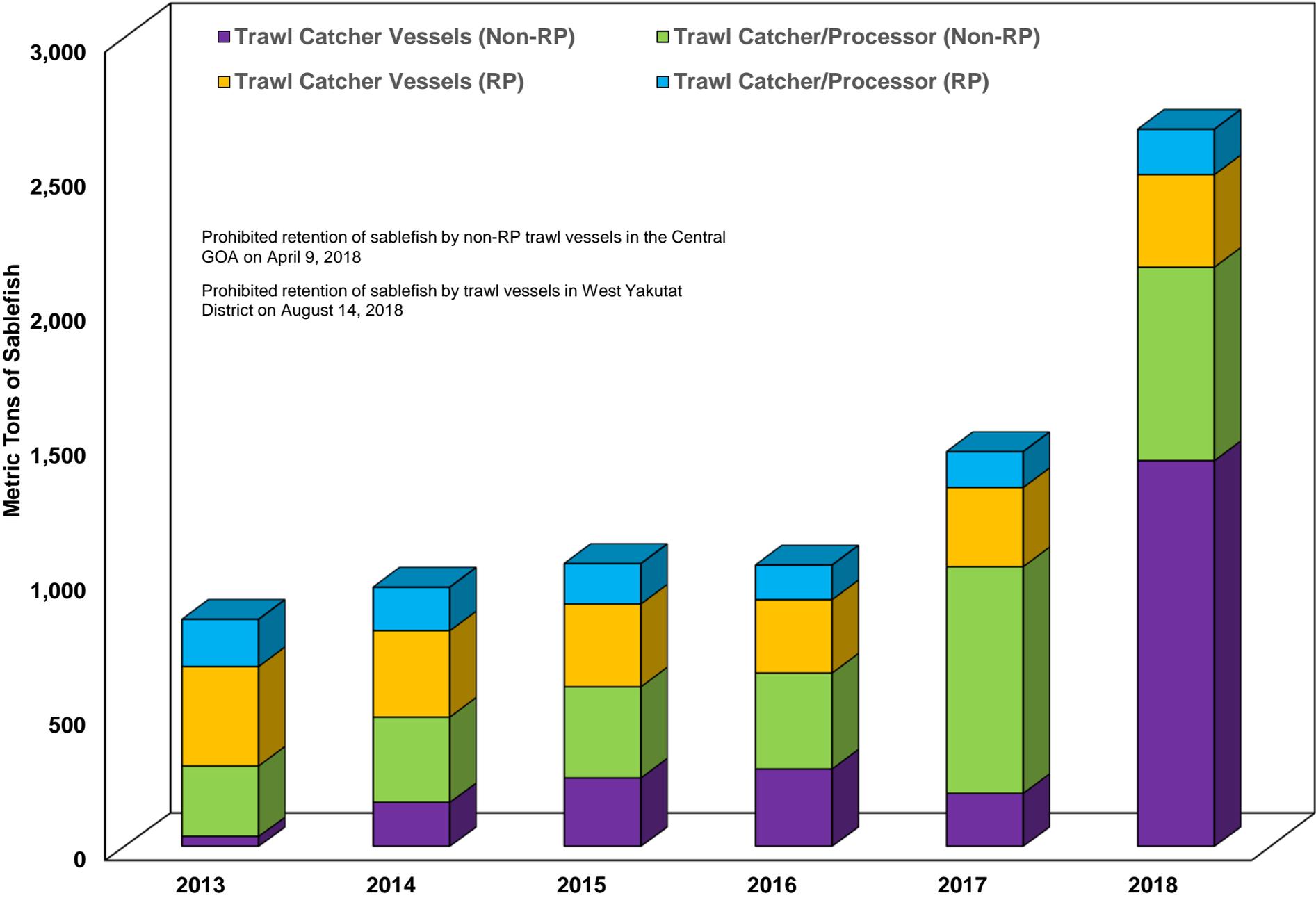
*Prohibited retention of West Yakutat trawl sablefish on August 14, 2018

*Prohibited retention of Central GOA trawl sablefish on April 9, 2018

Metric Tons of Sablefish

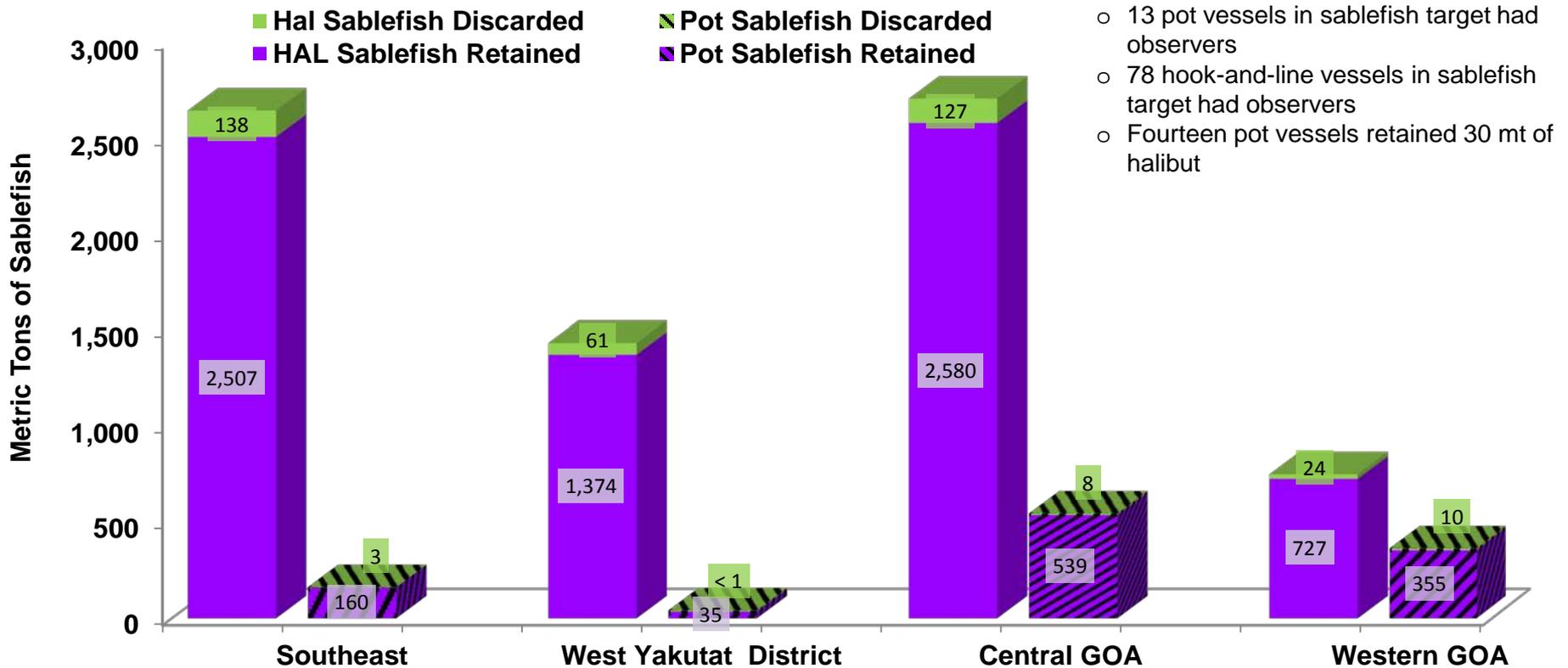


2013 – 2018 Sablefish Catch by Trawl Vessels



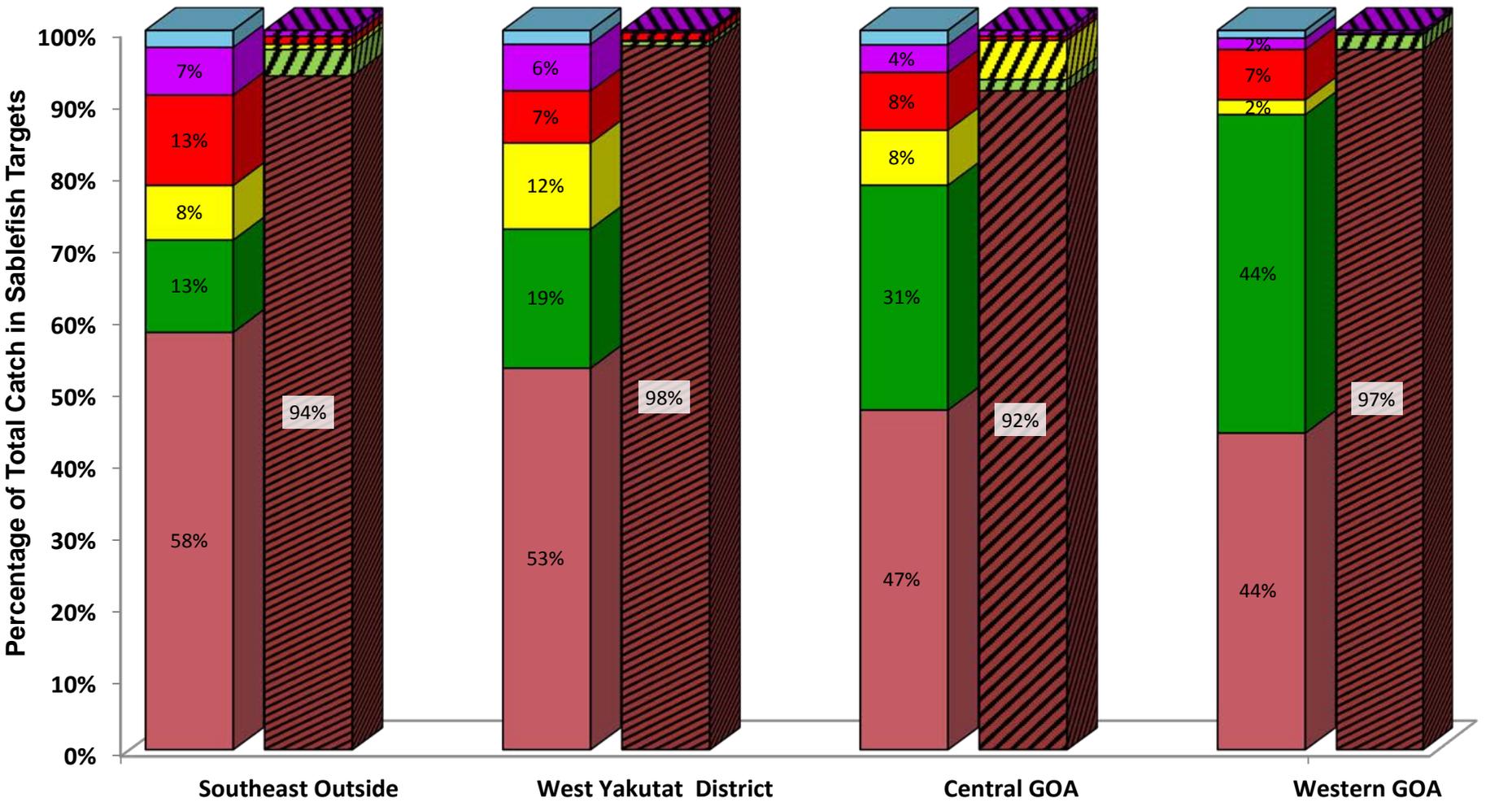
Sablefish by Fixed Gear

2018 Sablefish	Hook-and-Line			Pot		
	Unique Vessels	Sablefish (mt)	% of IFQ Sablefish	Unique Vessels	Sablefish (mt)	% of IFQ Sablefish
Southeast	154	2,645	94%	12	164	6%
West Yakutat	81	1,435	97%	8	42	3%
Central GOA	119	2,707	83%	18	547	17%
Western GOA	47	751	67%	11	365	33%
GOA Wide	238	7,538	87%	24	1,118	13%



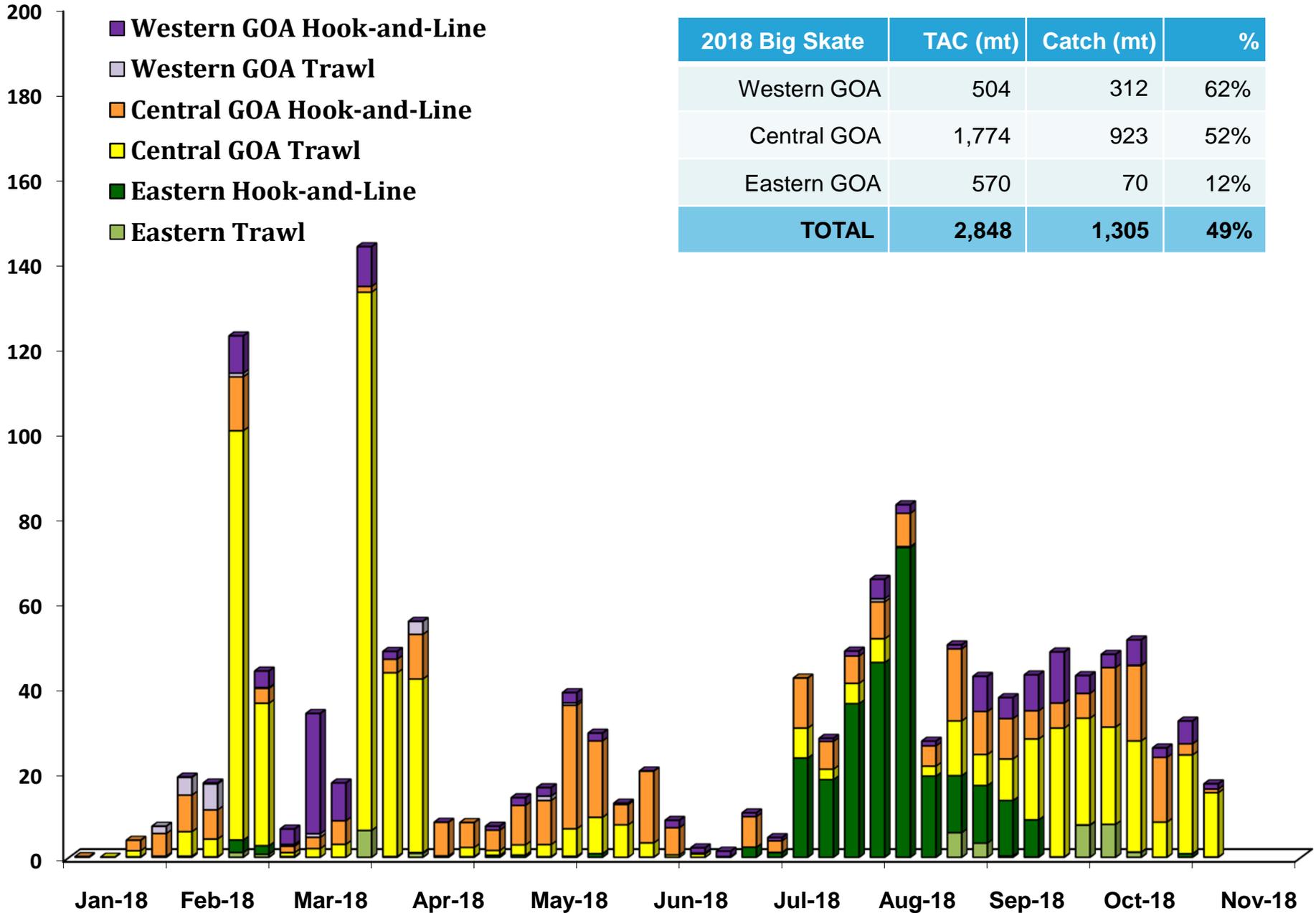
2018 Sablefish and Incidental Catch in Fixed Gear Sablefish Targets

- HAL Skates
- Pot Skates
- HAL Other Groundfish Species
- Pot Other Groundfish Species
- HAL Rockfish
- Pot Rockfish
- HAL Halibut
- Pot Halibut
- HAL Grenadiers/Other
- Pot Grenadiers/Other
- HAL Sablefish
- Pot Sablefish



Species group categories that had less than 5% of total catch are not labeled.

2018 GOA Big Skate



2018 Big Skate	TAC (mt)	Catch (mt)	%
Western GOA	504	312	62%
Central GOA	1,774	923	52%
Eastern GOA	570	70	12%
TOTAL	2,848	1,305	49%

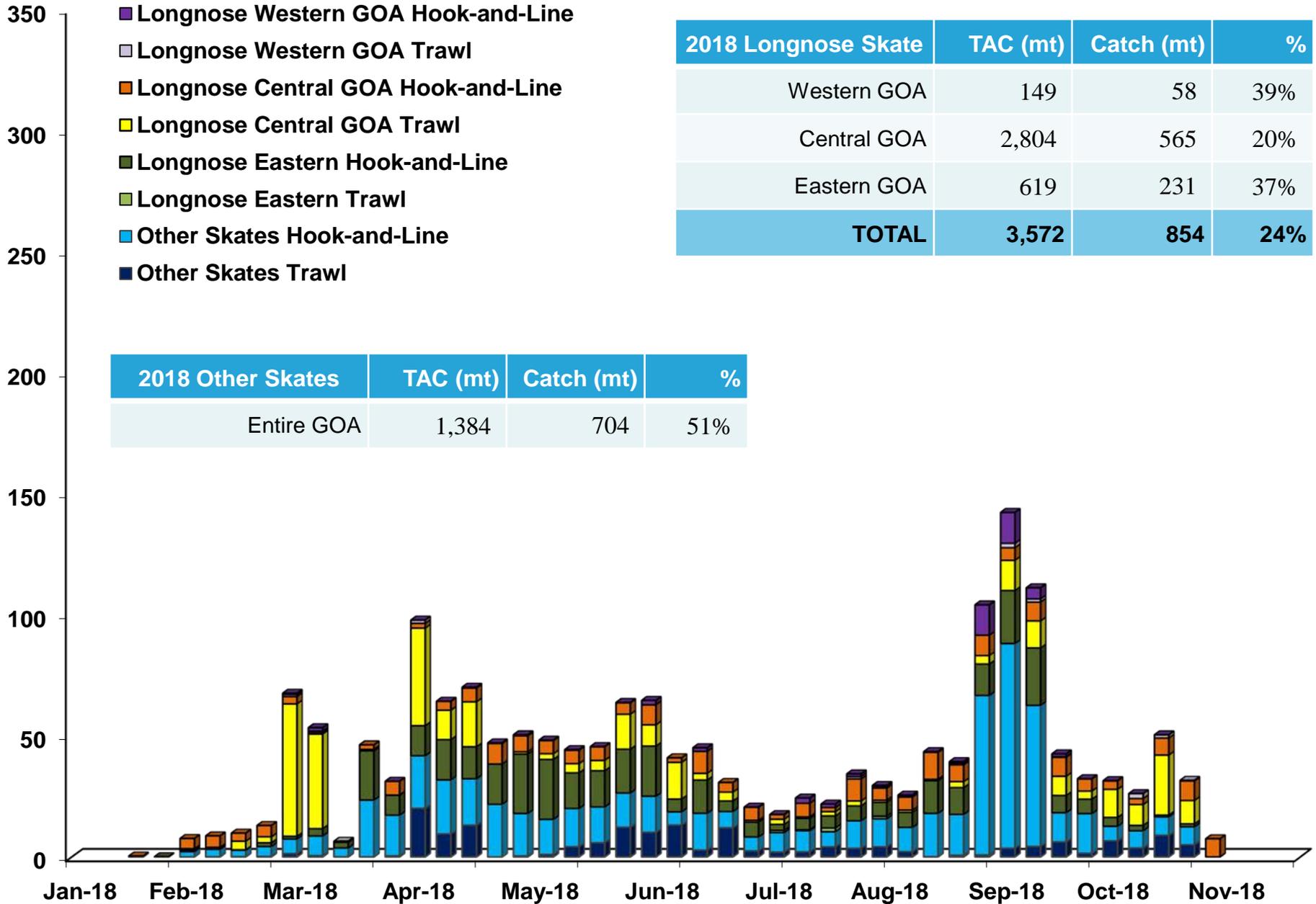
2018 GOA Longnose Skate and Other Skates

- Longnose Western GOA Hook-and-Line
- Longnose Western GOA Trawl
- Longnose Central GOA Hook-and-Line
- Longnose Central GOA Trawl
- Longnose Eastern Hook-and-Line
- Longnose Eastern Trawl
- Other Skates Hook-and-Line
- Other Skates Trawl

2018 Longnose Skate	TAC (mt)	Catch (mt)	%
Western GOA	149	58	39%
Central GOA	2,804	565	20%
Eastern GOA	619	231	37%
TOTAL	3,572	854	24%

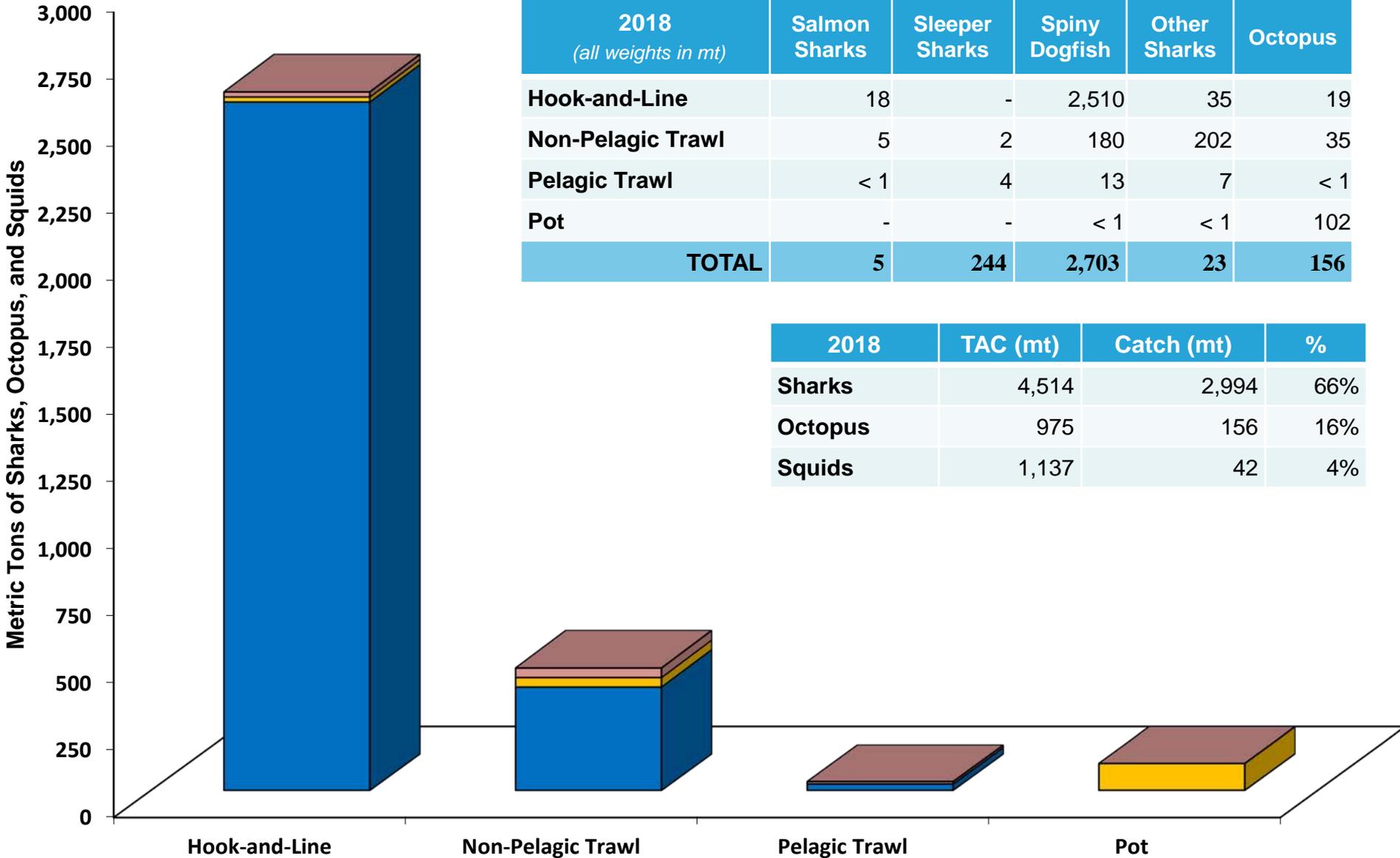
2018 Other Skates	TAC (mt)	Catch (mt)	%
Entire GOA	1,384	704	51%

Metric Tons of Skates



2018 GOA Sharks, Octopus, and Squids

■ Sharks ■ Octopus ■ Squids



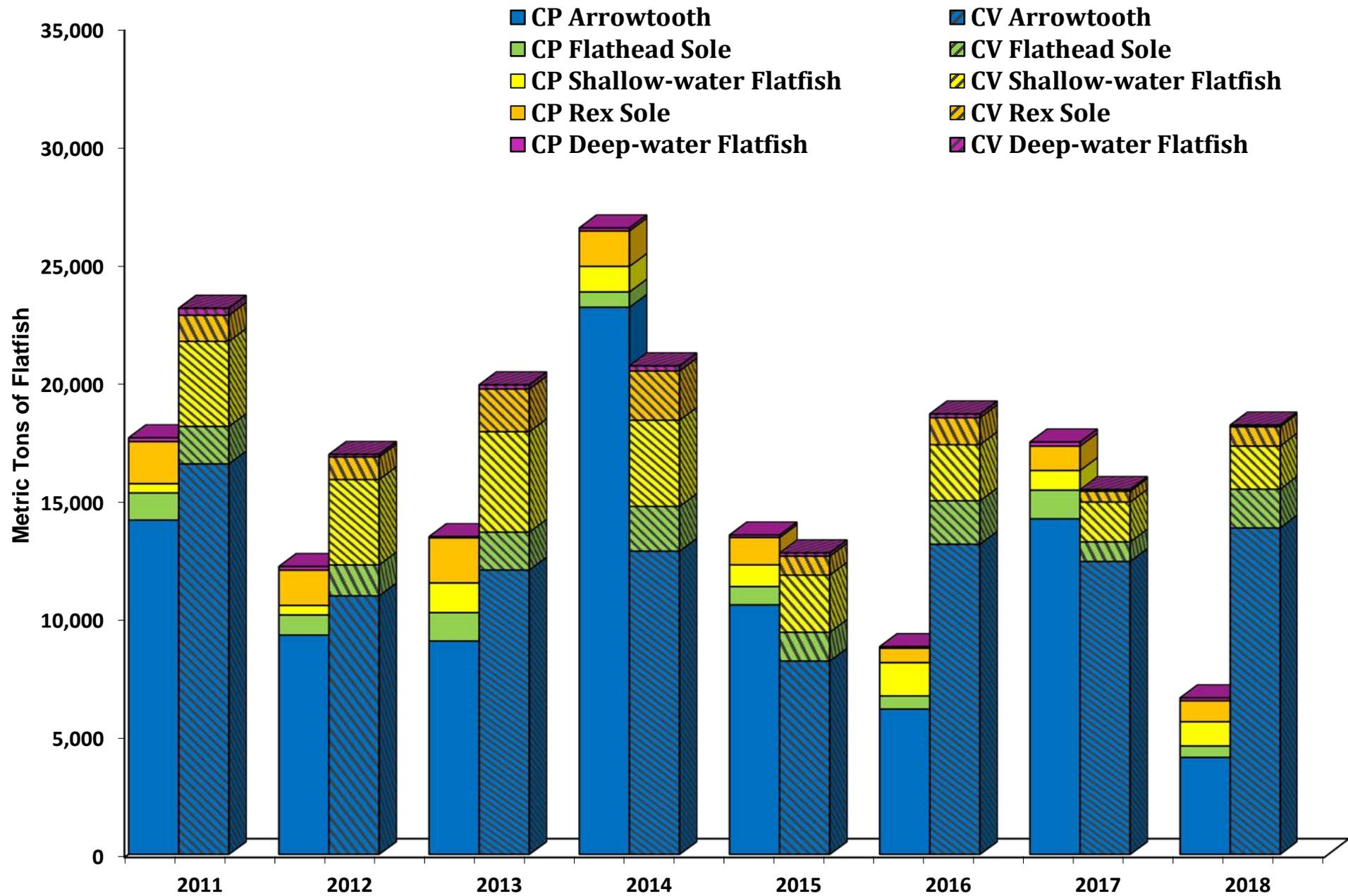
2018 <i>(all weights in mt)</i>	Salmon Sharks	Sleeper Sharks	Spiny Dogfish	Other Sharks	Octopus
Hook-and-Line	18	-	2,510	35	19
Non-Pelagic Trawl	5	2	180	202	35
Pelagic Trawl	< 1	4	13	7	< 1
Pot	-	-	< 1	< 1	102
TOTAL	5	244	2,703	23	156

2018	TAC (mt)	Catch (mt)	%
Sharks	4,514	2,994	66%
Octopus	975	156	16%
Squids	1,137	42	4%

2018 GOA Groundfish Species Placed on Prohibited Species Status

2017	Date
Sablefish by Trawl Gear in West Yakutat District	August 9, 2017
Pacific Ocean Perch Incidental Catch Allowance in Central GOA	August 29, 2017
Longnose Skates in Western GOA	September 20, 2017
Sablefish by Trawl Gear in Central GOA (non-Rockfish Program)	October 12, 2017
Shortraker Rockfish in Western GOA	October 16, 2017
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

2011 – 2018 GOA Trawl Flatfish Catch by Species



2018 Flatfish and Skate Catch in the GOA

Species	Area	TAC (mt)	Total Catch (mt)	%
Arrowtooth Flounder	Central	48,000	16,937	35%
	Western	14,500	1,043	7%
Flathead Sole	Central	15,400	1,951	13%
	Western	8,650	151	2%
Rex Sole	Central	8,739	1,606	18%
	Western	3,086	83	3%
Shallow Water Flatfish	Central	25,315	2,708	11%
	Western	13,250	56	2%
Deep Water Flatfish	Central	3,400	192	6%
	Western	413	3	1%
Big Skate	Eastern	570	70	12%
	Central	1,774	923	52%
	Western	504	312	62%
Longnose Skate	Eastern	619	231	37%
	Central	2,804	565	20%
	Western	149	58	39%
Other Skate	GOA	1,384	704	51%

GOA Trawl Groundfish Retained and Discards

2017 Trawl	Retained	Discarded	% Retained
Pollock	182,376	1,733	99%
Pacific Ocean Perch *	20,312	3,566	85%
Arrowtooth Flounder	24,949	1,724	94%
Pacific Cod	12,931	110	99%
Dusky Rockfish	2,385	148	94%
Shallow-water Flatfish	2,057	463	82%
Sablefish *	979	487	67%
Northern Rockfish	1,689	112	94%
Flathead Sole	1,900	132	94%
Rex Sole	1,430	53	96%
Atka Mackerel	693	375	65%
Skates *	748	474	61%
Other Rockfish	628	193	77%
Other Species	43	418	9%
Thornyhead Rockfish	379	23	94%
Rougeye Rockfish	330	24	93%
Shortraker Rockfish *	244	40	86%
Sculpins	6	770	1%
Deep-water Flatfish	71	172	29%
TOTAL	254,149	11,015	96%

2018 Trawl	Retained	Discarded	% Retained
Pollock	152,825	1,744	99%
Pacific Ocean Perch	23,564	1,174	95%
Arrowtooth Flounder	16,742	1,271	93%
Pacific Cod *	3,569	215	94%
Dusky Rockfish	2,820	52	98%
Shallow-water Flatfish	2,506	344	88%
Sablefish *	965	1,667	37%
Northern Rockfish	2,278	77	97%
Flathead Sole	2,049	65	97%
Rex Sole	1,627	72	96%
Atka Mackerel	1,384	46	97%
Skates	712	451	61%
Other Rockfish	762	240	76%
Other Species	45	448	9%
Thornyhead Rockfish	423	40	91%
Rougeye Rockfish	338	120	74%
Shortraker Rockfish *	248	62	80%
Sculpins	13	210	6%
Deep-water Flatfish	106	87	55%
TOTAL	212,977	8,386	96%

Sorted by 2018 Total catch; * prohibited retention of that species in that year

GOA Fixed Gear Groundfish Retained and Discards

2017 Hook-and-Line	Retained	Discarded	% Retained
Sablefish	7,575	564	93%
Pacific Cod	8,150	508	94%
Sharks	0	1,213	0%
Skates *	270	2,938	8%
Thornyhead	456	163	74%
Shortraker Rockfish *	89	178	33%
Sculpins	0	371	0%
Rougeye Rockfish	83	85	49%
Other Rockfish	107	203	35%
Arrowtooth Flounder	34	147	19%
Demersal Shelf Rockfish	117	5	96%
Other Species	86	137	39%
TOTAL	16,966	6,513	72%

2018 Hook-and-Line	Retained	Discarded	% Retained
Sablefish	7,733	517	94%
Pacific Cod	2,477	290	90%
Sharks	0	2,596	0%
Skates	85	1,606	5%
Thornyhead	509	194	72%
Shortraker Rockfish *	86	374	19%
Sculpins	0	314	0%
Rougeye Rockfish	95	183	34%
Other Rockfish	70	156	31%
Arrowtooth Flounder	7	151	4%
Demersal Shelf Rockfish	121	5	96%
Other Species	27	66	29%
TOTAL	11,209	6,452	63%

2017 Pot	Retained	Discarded	% Retained
Pacific Cod	13,346	80	99%
Sablefish	883	14	98%
Other Species	34	240	13%
Octopus	194	26	88%
TOTAL	14,457	359	98%

2018 Pot	Retained	Discarded	% Retained
Pacific Cod	3,315	14	100%
Sablefish	1,093	30	97%
Other Species	38	44	46%
Octopus	91	11	89%
TOTAL	4,537	100	98%

Sorted by 2018 Total catch; * prohibited retention of that species in that year

2018 GOA Salmon, Crab, and Herring PSC

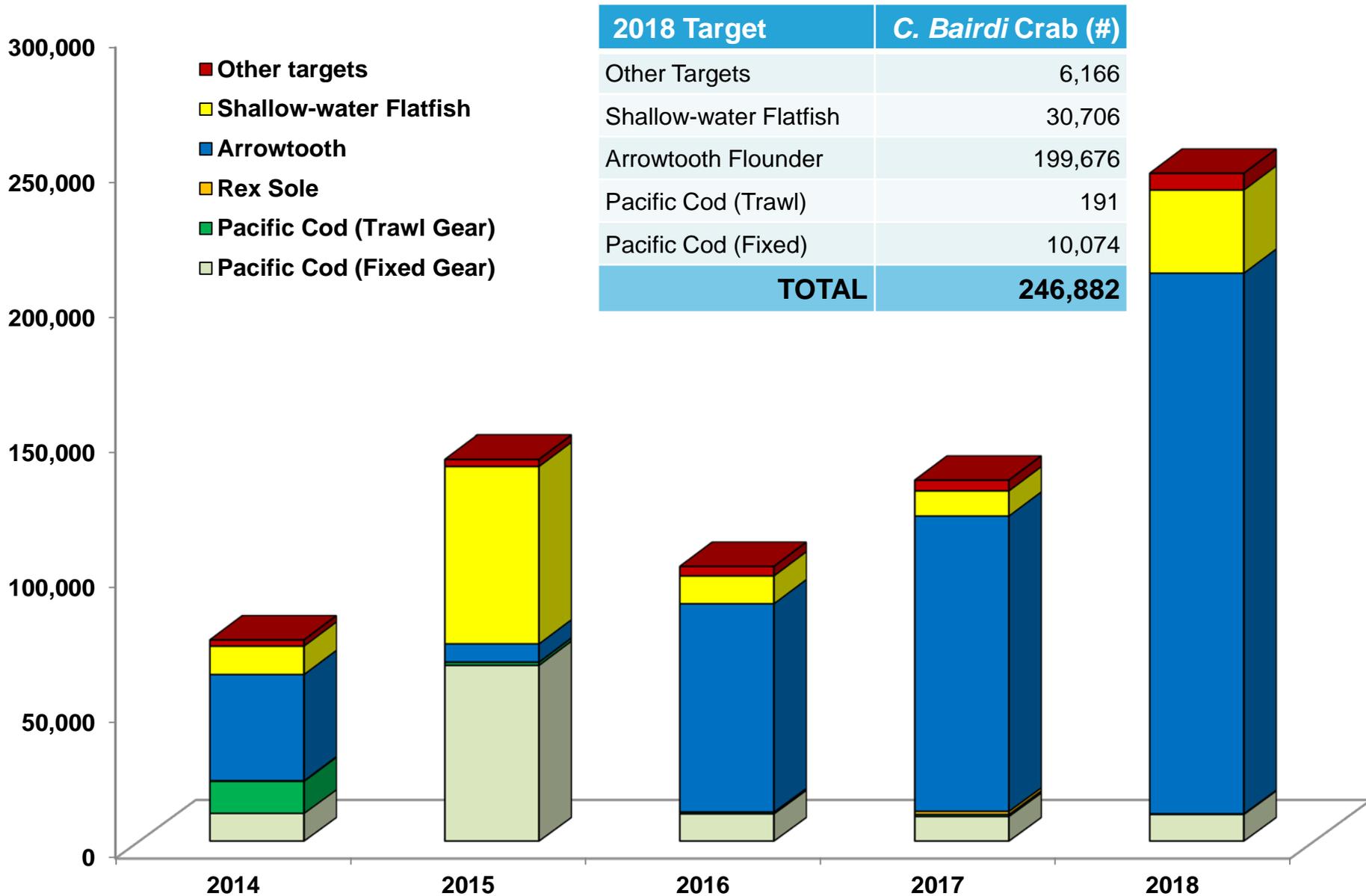
Chinook Salmon	Total Catch	Limit *	%
Pollock Western GOA (#)	4,835	6,684	72%
Pollock Central GOA (#)	10,001	18,316	55%
Pollock 640 (#)	56	0	na
Catcher Vessel Non-pollock / Non-Rockfish Program (#)	1,866	3,060	61%
Catcher Vessel Rockfish Program (#)	686	1,200	57%
Catcher Processors (#)	49	4,080	1%
Non-trawl Gear (#)	80	0	na
TOTAL (#)	17,828	33,340	53%

Other PSC Species	2017	2018
Non-Chinook Salmon (#)	5,791	8,901
Trawl Bairdi Tanner (#)	124,496	236,632
Fixed Gear Bairdi Tanner (#)	2,476	10,250
Red King Crab (#)	0	17
Golden King Crab (#)	334	472
Herring (mt)	6	43



Crab and Salmon PSC is reported in number of animals

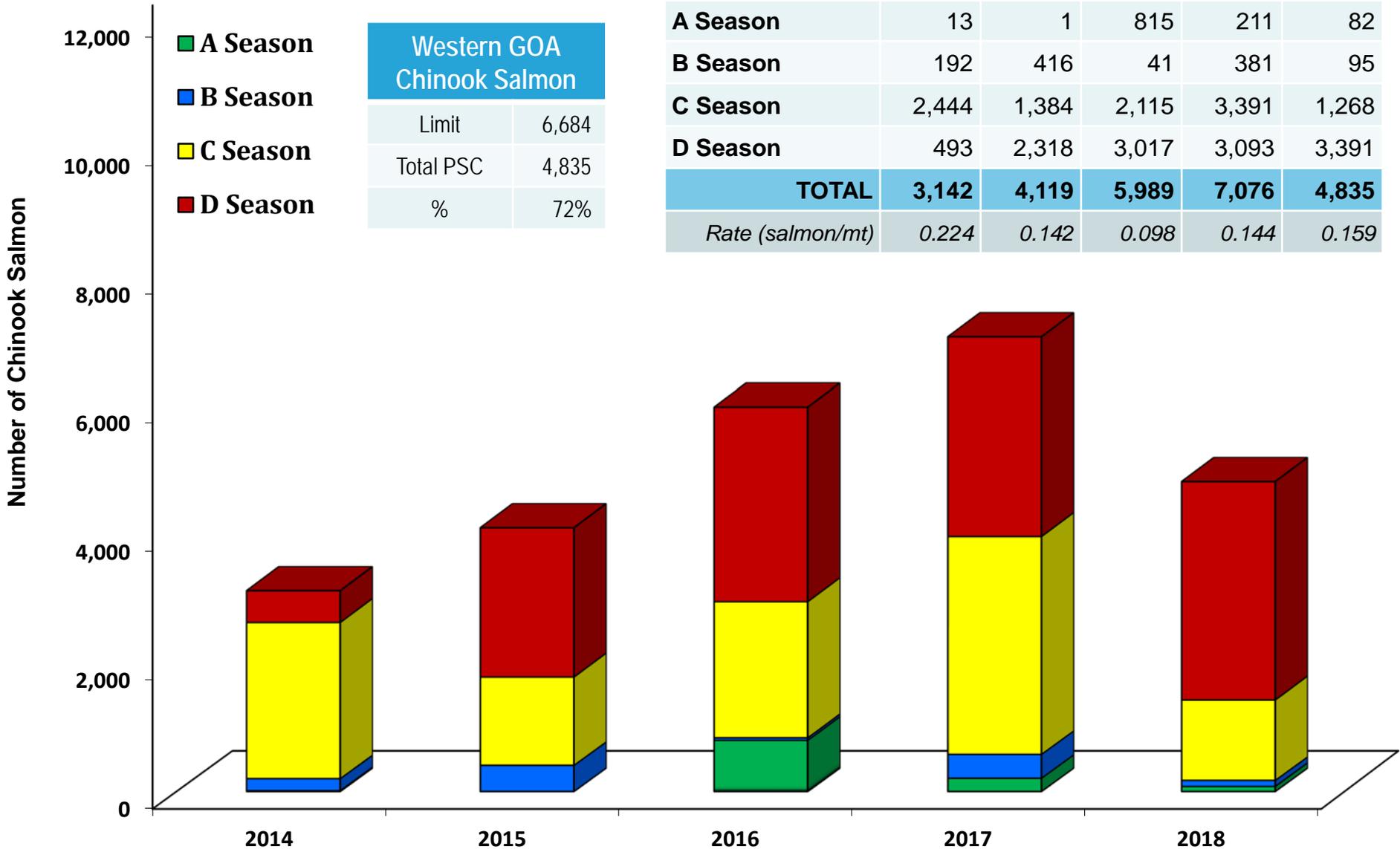
2014 – 2018 GOA *C. Bairdi* Tanner Crab Incidental Catch by Target



2014 – 2018 Chinook Salmon PSC in Western GOA Pollock Fisheries

Western GOA	2014	2015	2016	2017	2018
A Season	13	1	815	211	82
B Season	192	416	41	381	95
C Season	2,444	1,384	2,115	3,391	1,268
D Season	493	2,318	3,017	3,093	3,391
TOTAL	3,142	4,119	5,989	7,076	4,835
<i>Rate (salmon/mt)</i>	<i>0.224</i>	<i>0.142</i>	<i>0.098</i>	<i>0.144</i>	<i>0.159</i>

Western GOA Chinook Salmon	
Limit	6,684
Total PSC	4,835
%	72%

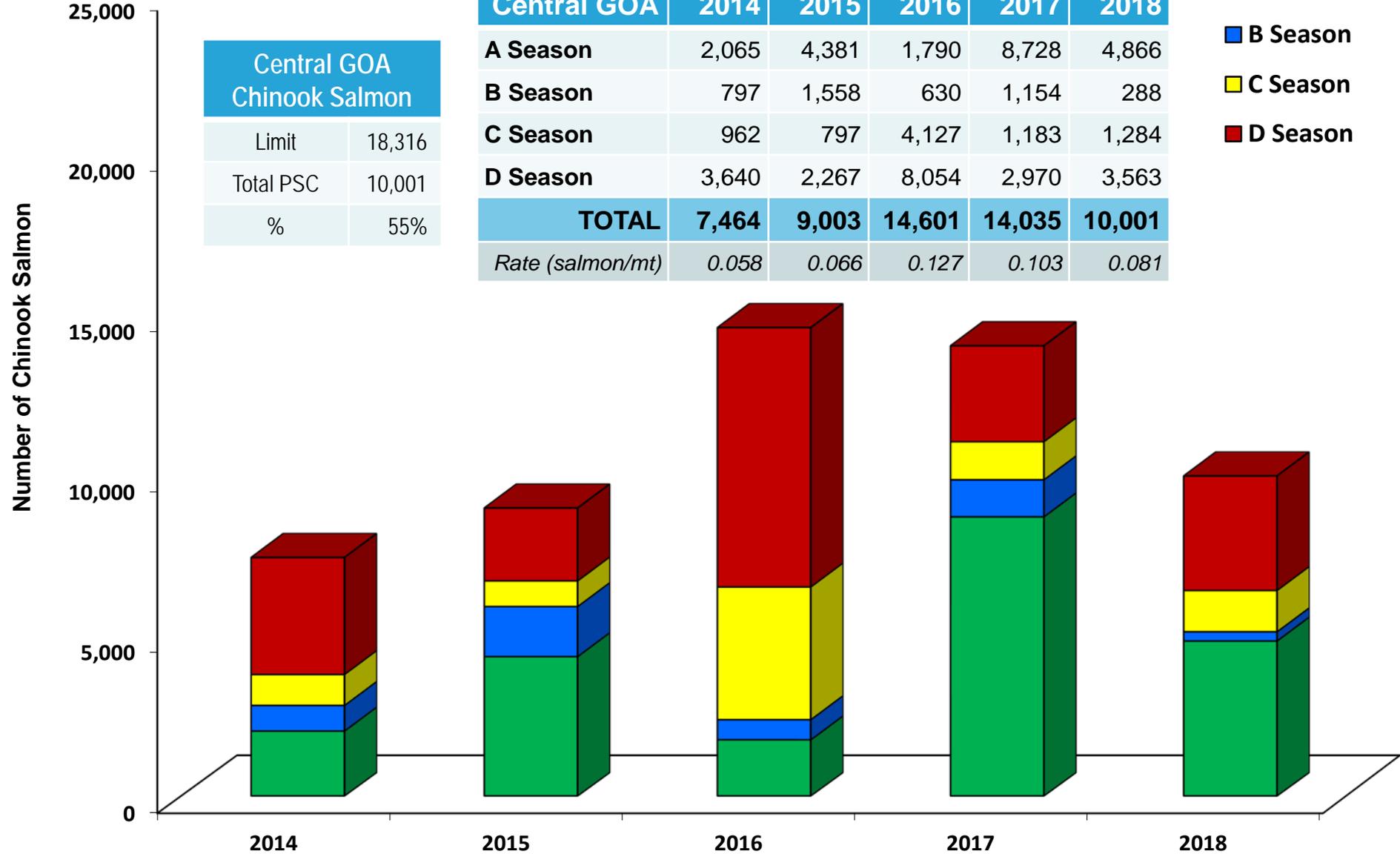


2014 – 2018 Chinook Salmon PSC in Central GOA Pollock Fisheries

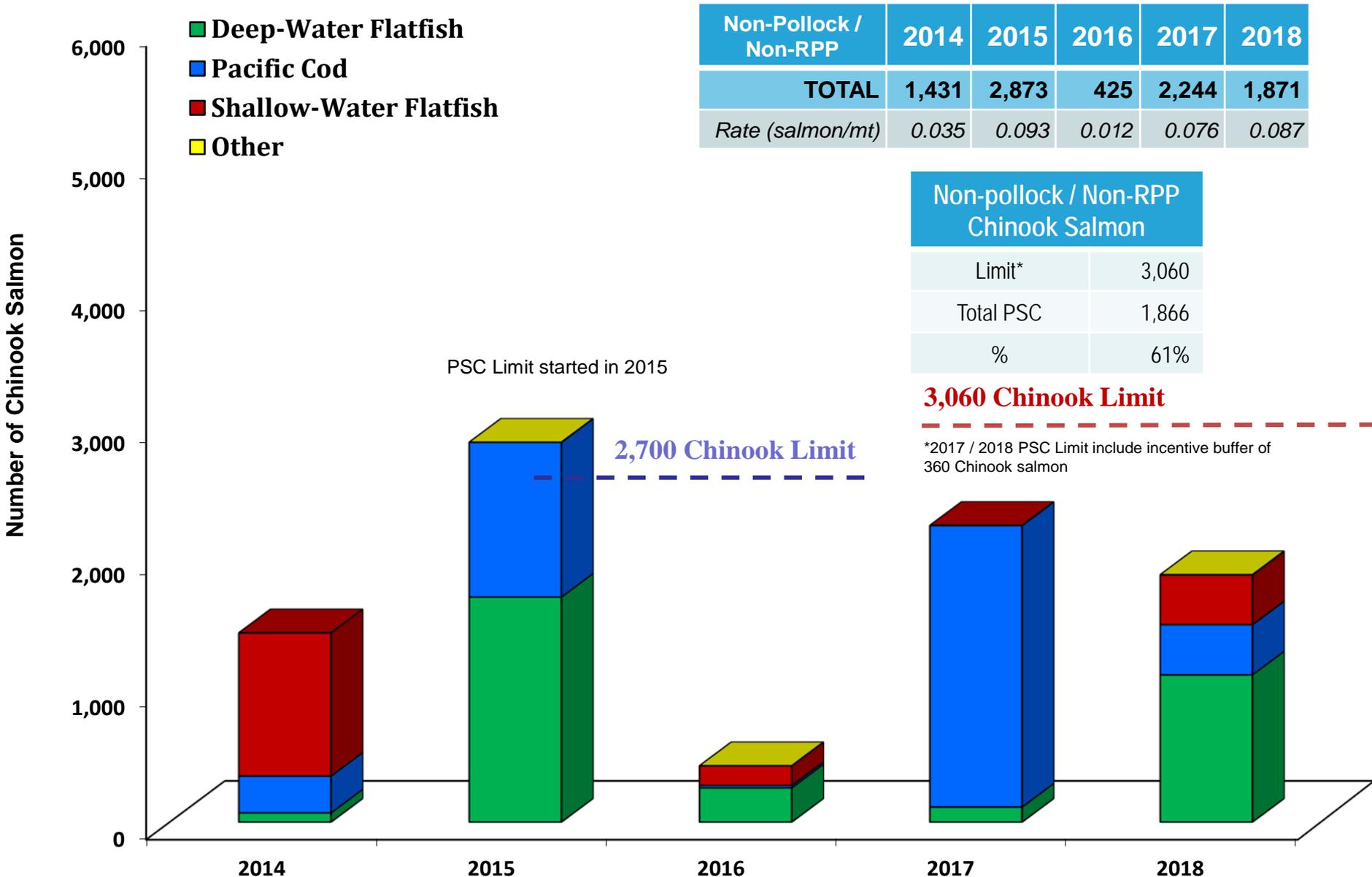
Central GOA Chinook Salmon	
Limit	18,316
Total PSC	10,001
%	55%

Central GOA	2014	2015	2016	2017	2018
A Season	2,065	4,381	1,790	8,728	4,866
B Season	797	1,558	630	1,154	288
C Season	962	797	4,127	1,183	1,284
D Season	3,640	2,267	8,054	2,970	3,563
TOTAL	7,464	9,003	14,601	14,035	10,001
<i>Rate (salmon/mt)</i>	<i>0.058</i>	<i>0.066</i>	<i>0.127</i>	<i>0.103</i>	<i>0.081</i>

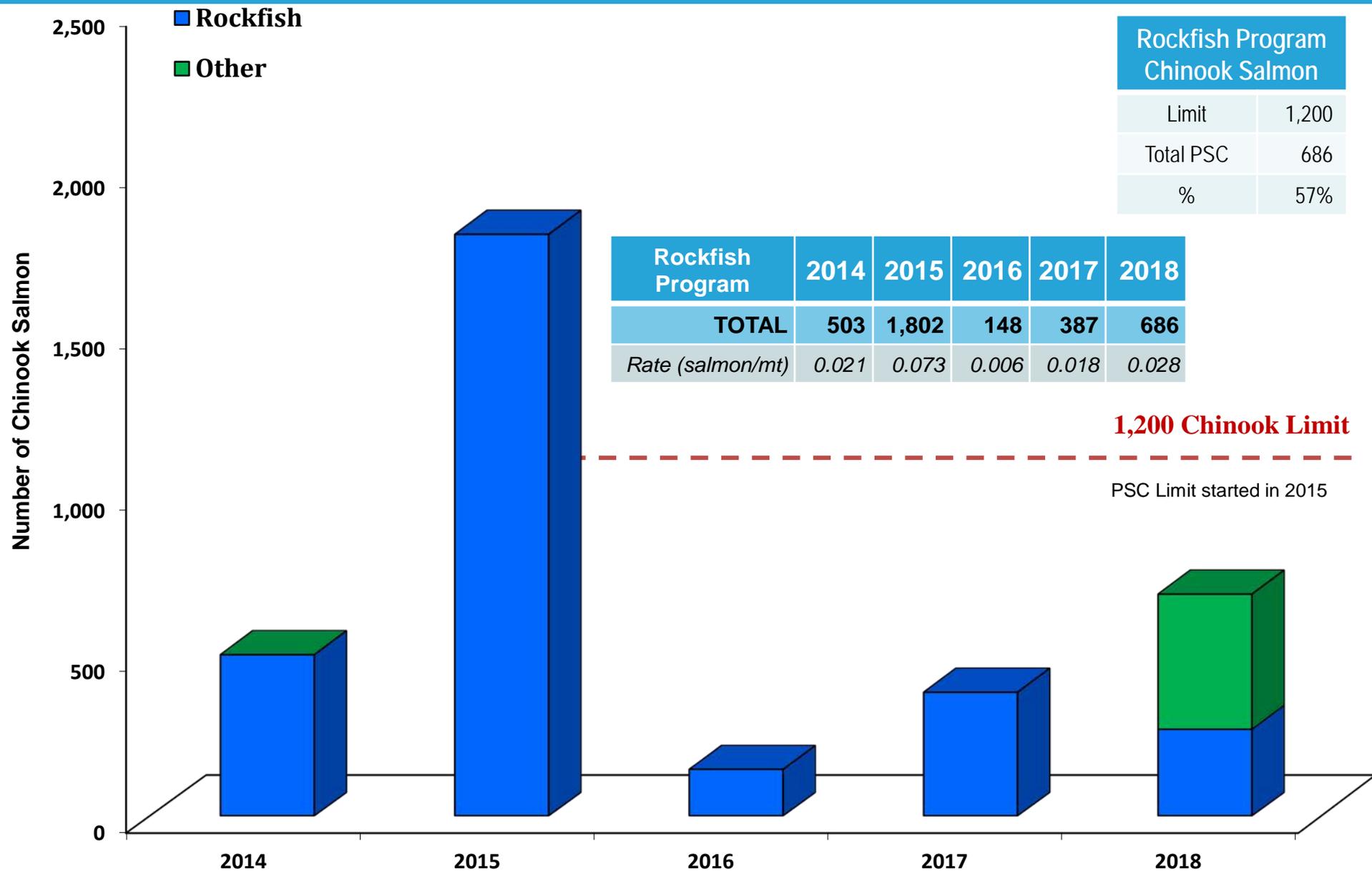
- A Season
- B Season
- C Season
- D Season



2014 – 2018 Chinook Salmon PSC in Non-Pollock / Non-Rockfish Program by Catcher Vessels



2014 – 2018 Chinook Salmon PSC in Rockfish Program by Catcher Vessels



2014 – 2018 Chinook Salmon PSC by Catcher/Processors

C/Ps	2014	2015	2016	2017	2018
TOTAL	2,845	655	442	778	49
<i>Rate (salmon/mt)</i>	<i>0.061</i>	<i>0.020</i>	<i>0.018</i>	<i>0.021</i>	<i>0.002</i>

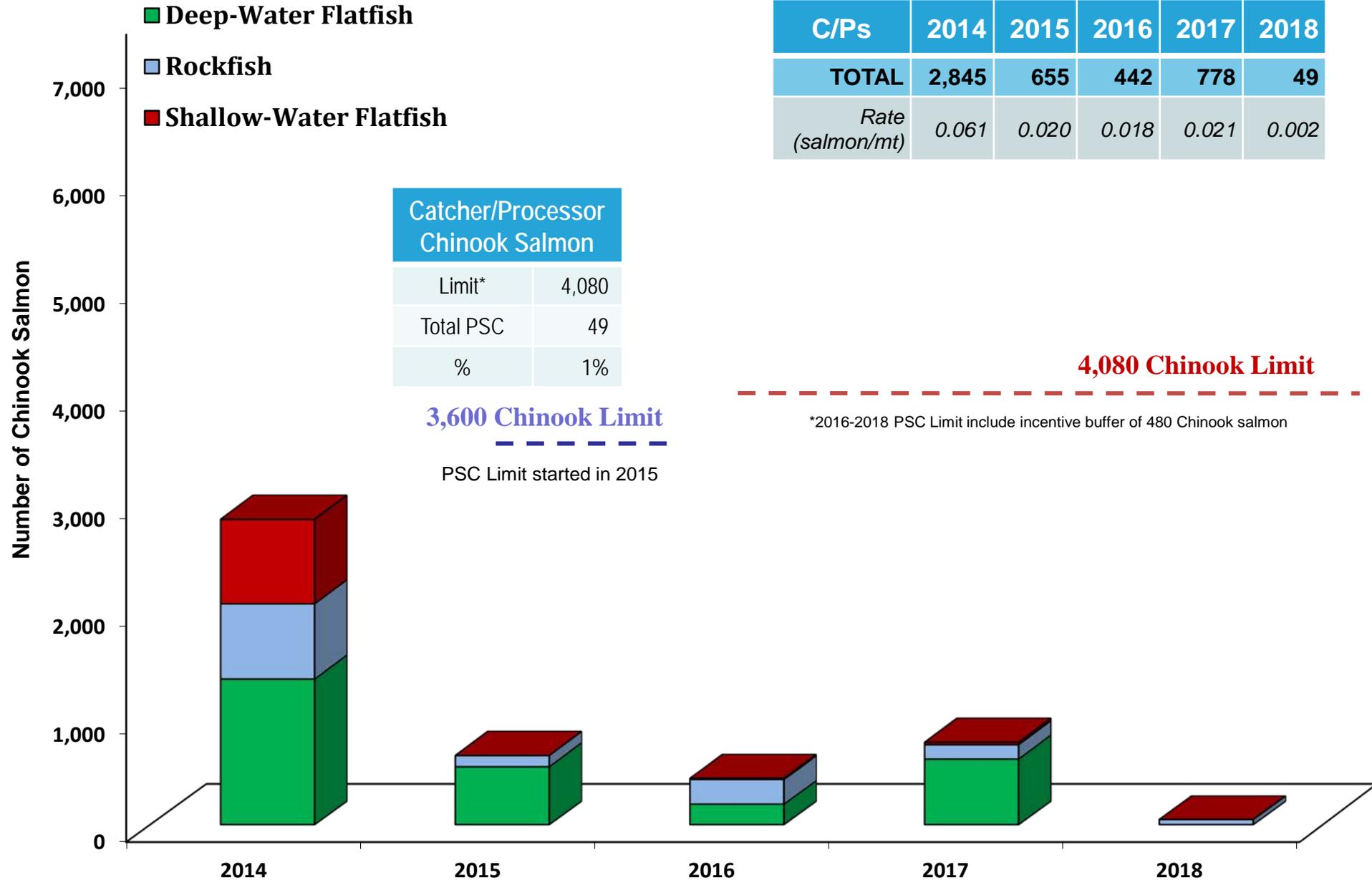
Catcher/Processor Chinook Salmon	
Limit*	4,080
Total PSC	49
%	1%

3,600 Chinook Limit

PSC Limit started in 2015

4,080 Chinook Limit

*2016-2018 PSC Limit include incentive buffer of 480 Chinook salmon



2018 GOA Halibut Catch

Hook-and-Line Halibut (mt)	Retained	Discard*	% Discarded	Mortality**	Limit	%
IFQ Halibut Fishery	7,093	4,483	39%	717	na	na
IFQ Sablefish Fishery	773	1,013	57%	132	na	na
Pacific Cod \ Other Targets	30	320	91%	47	257	18%
TOTAL	7,896	5,816	42%	896	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.

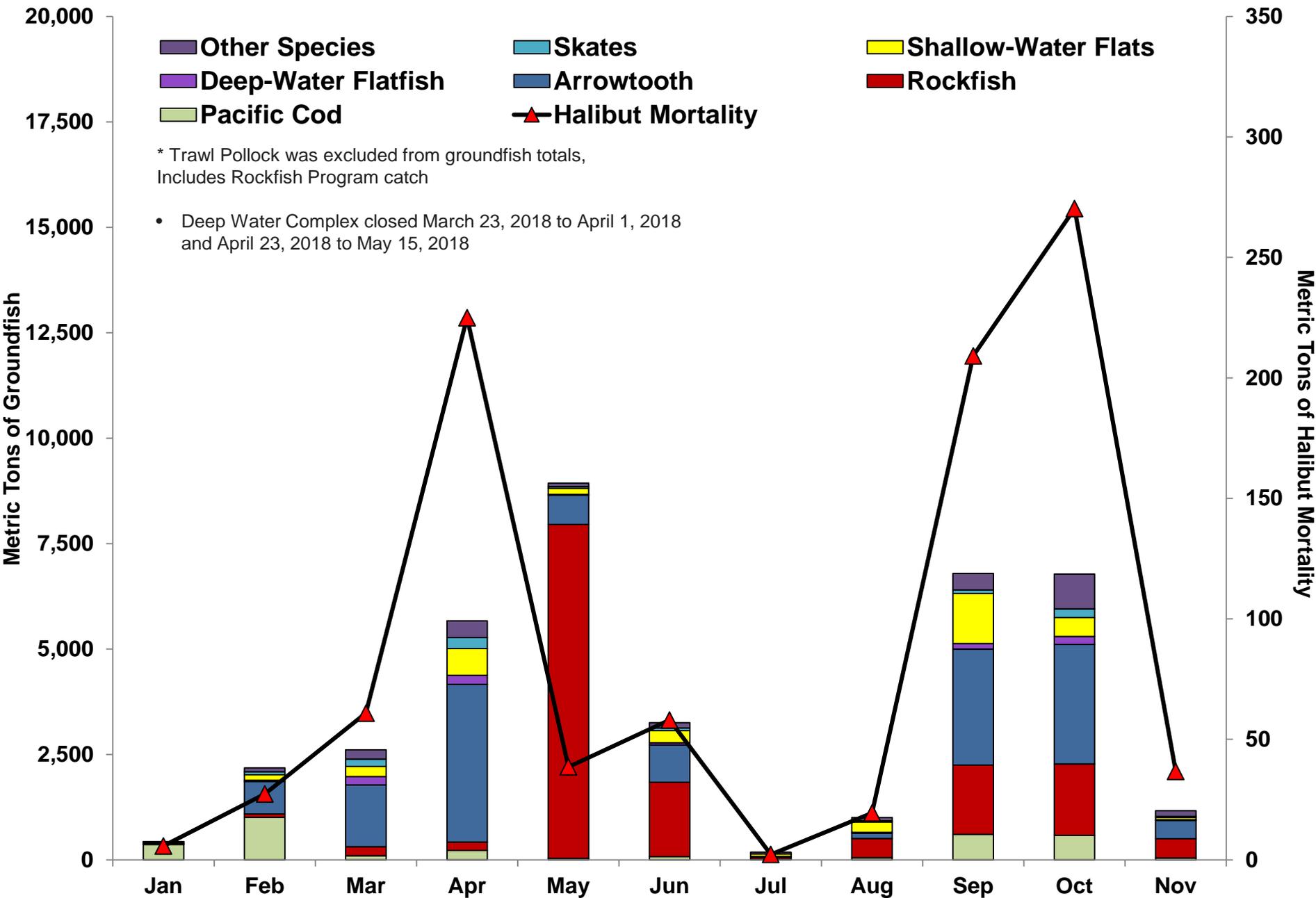
**Halibut Mortality rate in IFQ Halibut is 16%,

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

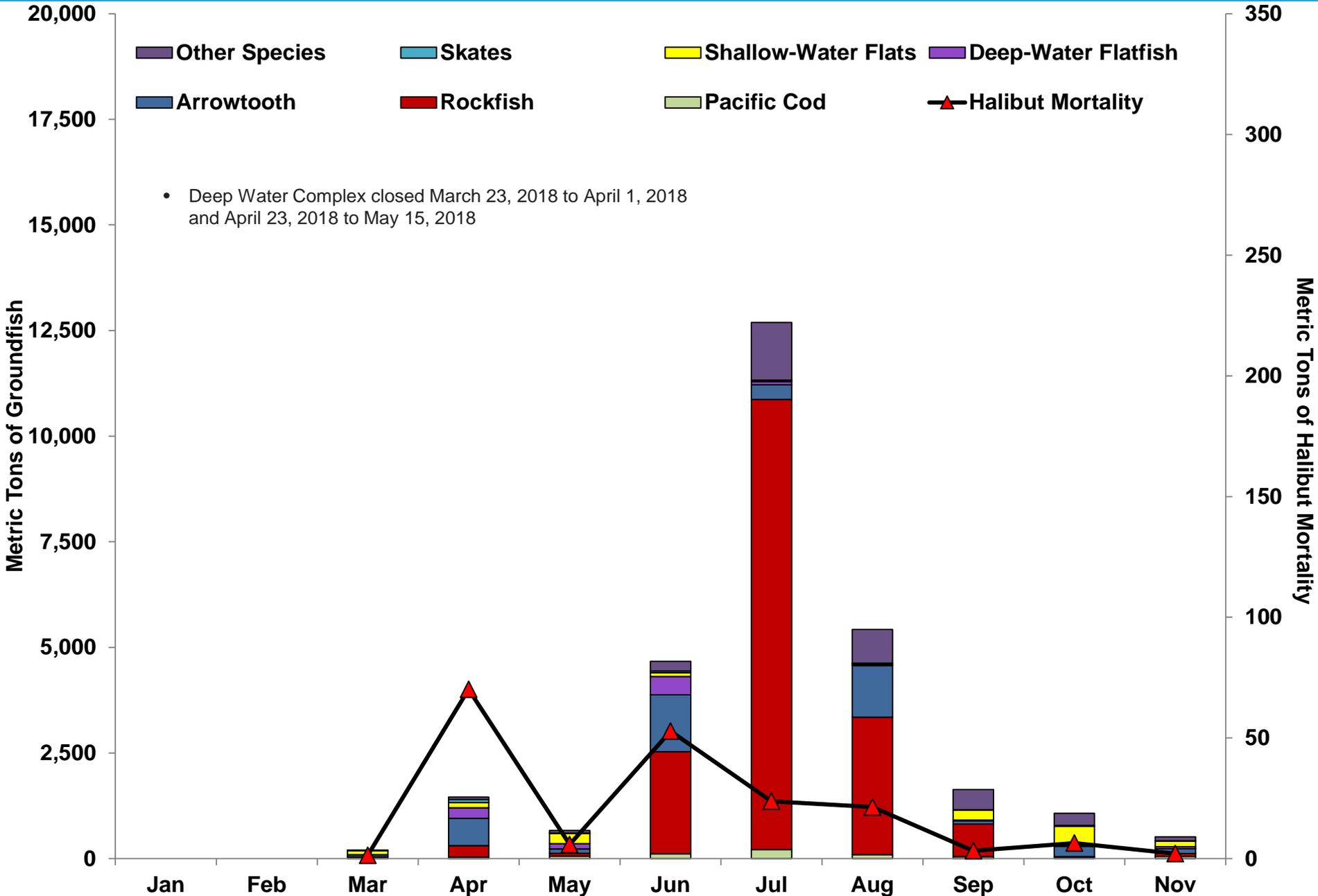
IFQ Sablefish and Pacific cod halibut mortality rate is 11% for catcher processors and 12% for catcher vessels

Trawl Halibut (mt)	Total Discard	Mortality	Mortality Limit	%
Pollock	295	207	1,706	67%
Pacific Cod	10	6		
Rockfish \ Sablefish	109	87		
Arrowtooth Flounder	1041	762		
Deep Water Flatfish	4	4		
Shallow Water Flatfish	111	77		
TOTAL	1,570	1,143	1,706	67%

2018 GOA Catcher Vessel Trawl Catch and Halibut Mortality



2018 GOA Catcher/Processor Trawl Catch and Halibut Mortality



2018 Trawl Halibut Mortality

	Season	Start Date	End Date	Limit (mt)	Total Mortality (mt)	%
Deep Water Species	1	Jan 20	Apr 1	81	81	100%
	2	Apr 1	Jul 1	428	428	100%
	3	Jul 1	Sep 1	610	24	4%
	4	Sep 1	Sep 30	0	99	n/a
	TOTAL				1,119	632
Shallow Water Species	Season					
	1	Jan 20	Apr 1	15	15	100%
	2	Apr 1	Jul 1	9	9	100%
	3	Jul 1	Sep 1	179	21	12%
	4	Sep 1	Sep 30	128	111	86%
TOTAL				331	155	47%
Rockfish Program				191	73	38%
Season 5 Halibut Allocation		Oct 1	Dec 31	256	283	NA
TOTAL Halibut Mortality				1,706	1,143	67%

*Includes reallocation between Deep water and Shallow water in July

2018 GOA Reduction in Halibut Mortality Compared to 5 year Average

Sector	2013-2017 Average (mt)	2018** (mt)	% Change (mt)	2013-2017 Rate*	2018 Rate*	% Change in rate
Hook-and-line						
Catcher/Processors	65	10	-84%	10.59	6.03	-43%
Catcher Vessels	133	35	-73%	18.29	19.83	8%
Total	197	46	-77%	14.23	13.02	-9%
Trawl Catcher Vessels						
Central GOA Catcher Vessels (NPT)	851	884	4%	19.34	26.01	34%
Western GOA Catcher Vessels (NPT)	67	33	-51%	9.09	12.31	35%
Pelagic Trawl Catcher Vessels	12	38	223%	0.09	0.24	168%
Total	930	955	3%	4.66	4.87	5%
Trawl Catcher/Processors						
Total	387	188	-51%	10.44	6.58	-37%
All Sectors						
TOTAL	1,514	1,189	-21%	6.03	5.21	-13%

* Rate is kg of halibut / mt of groundfish

** 2018 data not complete year. Data through November 11, 2018

2018 GOA Reduction in Halibut Mortality Compared to 2017

Sector	2017 (mt)	2018 ** (mt)	% Change (mt)	2017 Rate*	2018 Rate*	% Change in rate
Hook-and-line						
Catcher/Processors	69	10	-85%	9.57	6.03	-37%
Catcher Vessels	100	35	-65%	22.37	19.83	-11%
Total	169	46	-73%	14.48	13.02	-10%
Trawl Catcher Vessels						
Central GOA Catcher Vessels (NPT)	751	884	18%	21.67	26.01	20%
Western GOA Catcher Vessels (NPT)	18	33	83%	2.22	12.31	453%
Pelagic Trawl Catcher Vessels	13	38	188%	0.07	0.24	233%
Total	782	955	22%	3.44	4.87	42%
Trawl Catcher/Processors						
Total	433	188	-57%	10.90	6.58	-40%
All Sectors						
TOTAL	1,384	1,189	-14%	4.97	5.21	5%

* Rate is kg of halibut / mt of groundfish

** 2018 data not complete year. Data through November 11, 2018