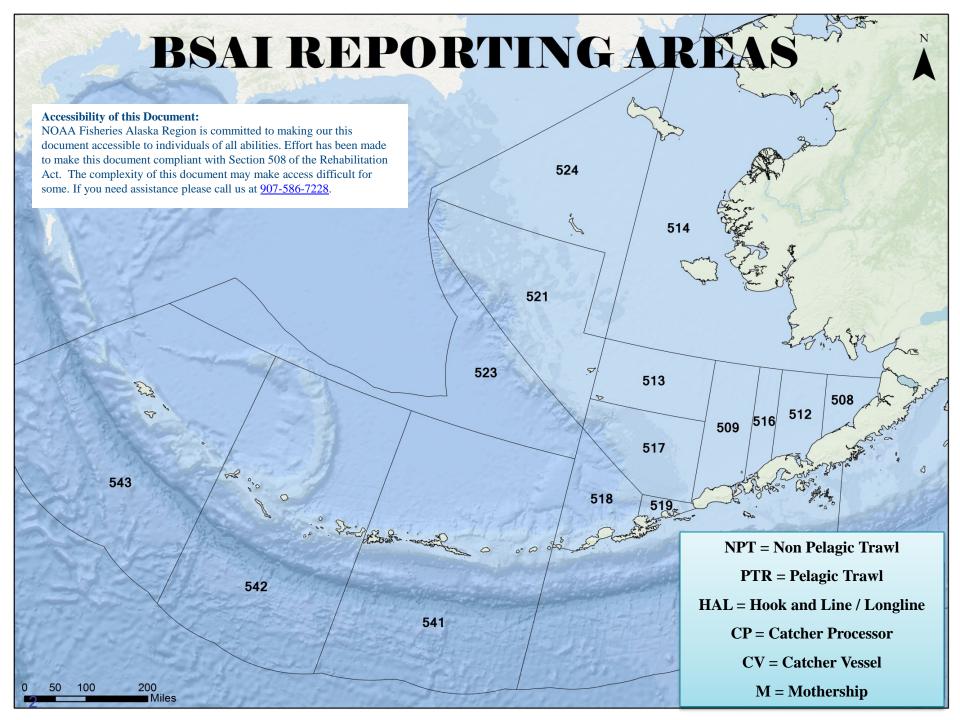


BSAI Inseason Management Report

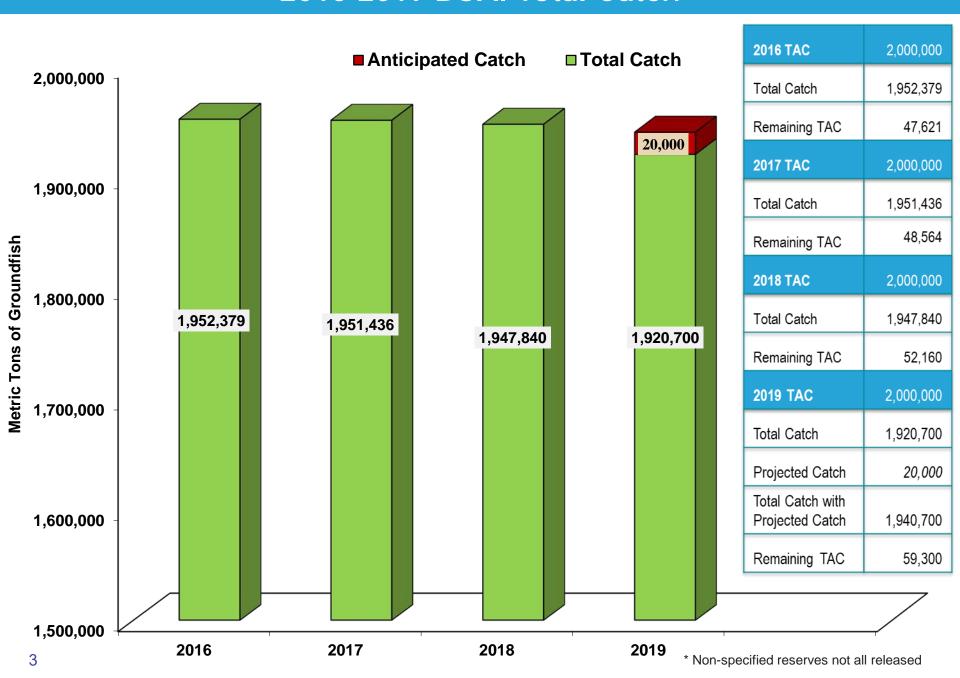
December 2019

Catch data are through November 9, 2019

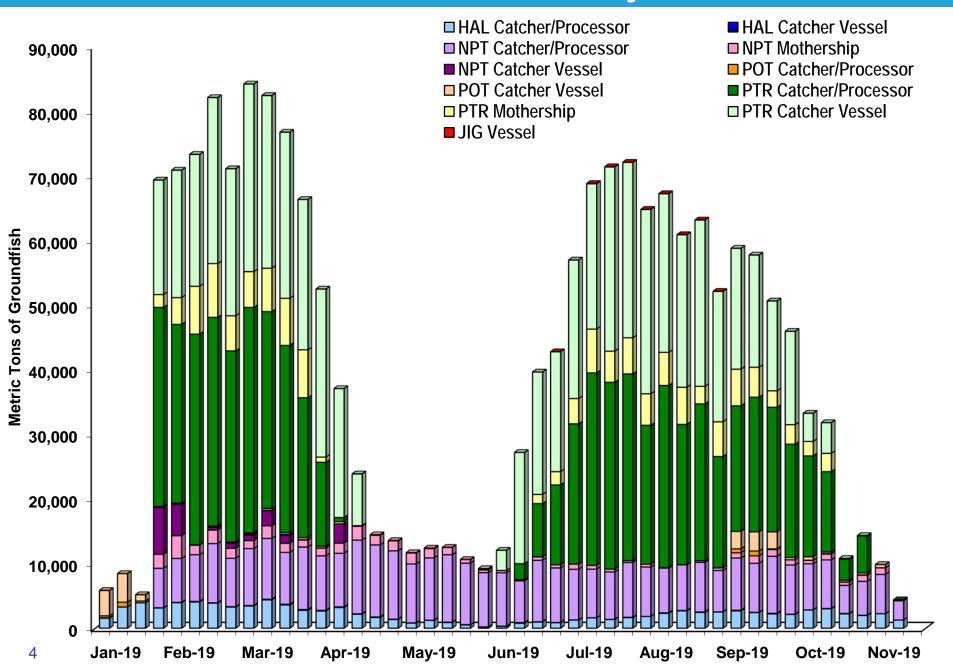
Management reports can be found at: https://www.fisheries.noaa.gov/alaska/commercial-fishing/fisheries-catch-and-landings-reports



2016-2019 BSAI Total Catch



2019 BSAI Total Groundfish Catch by Gear & Sector

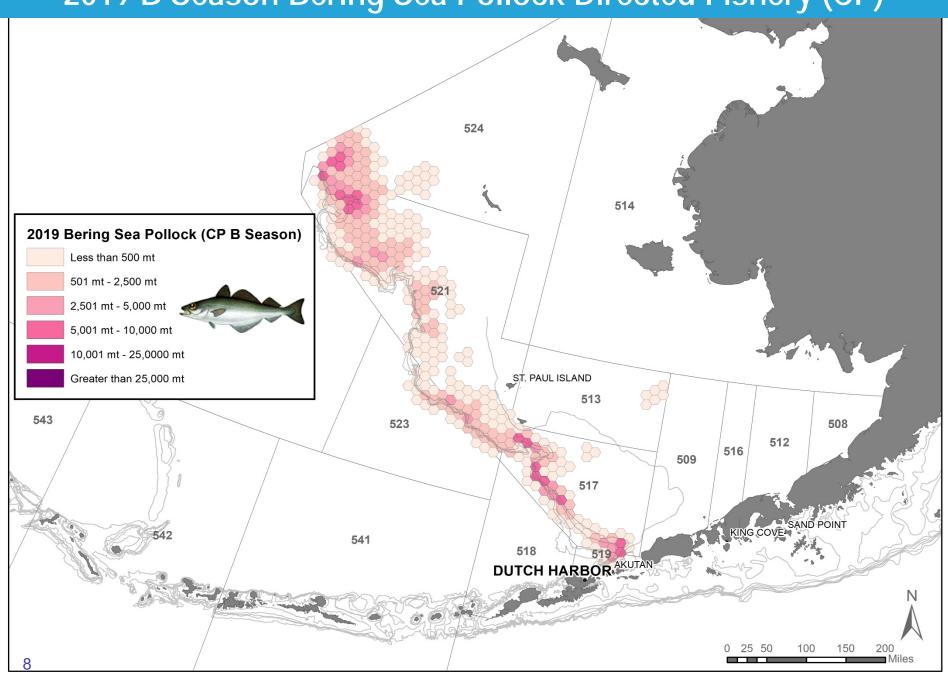


2019 A Season Bering Sea Pollock Directed Fishery (CV) 524 514 2019 Bering Sea Pollock (CV A Season) Less than 500 mt 501 mt - 2,500 mt 2,501 mt - 5,000 mt 5,001 mt - 10,000 mt 10,001 mt - 25,0000 mt ST. PAUL ISLAND Greater than 25,000 mt 513 543 523 508 512 516 509 KING COVE SAND POINT 541 518 DUTCH HARBOR AKUTAN

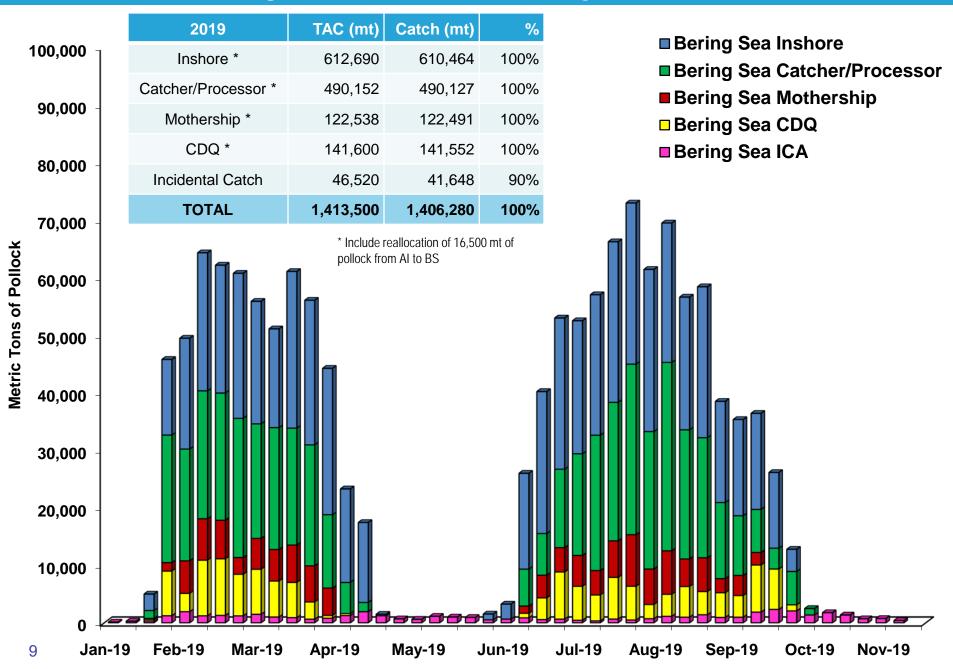
2019 A Season Bering Sea Pollock Directed Fishery (CP) 524 514 2019 Bering Sea Pollock (CP A Season) Less than 500 mt 501 mt - 2,500 mt 2,501 mt - 5,000 mt 5,001 mt - 10,000 mt 10,001 mt - 25,0000 mt ST. PAUL ISLAND Greater than 25,000 mt 513 543 523 508 512 516 517 KING COVE SAND POINT 541 518 DUTCH HARBOR AKUTAN

2019 B Season Bering Sea Pollock Directed Fishery (CV) 524 514 2019 Bering Sea Pollock (CV B Season) Less than 500 mt 501 mt - 2,500 mt 2,501 mt - 5,000 mt 5,001 mt - 10,000 mt 10,001 mt - 25,0000 mt ST. PAUL ISLAND Greater than 25,000 mt 513 543 523 508 512 516 509 517 KING COVE SAND POINT 541 518 DUTCH HARBOR AKUTA

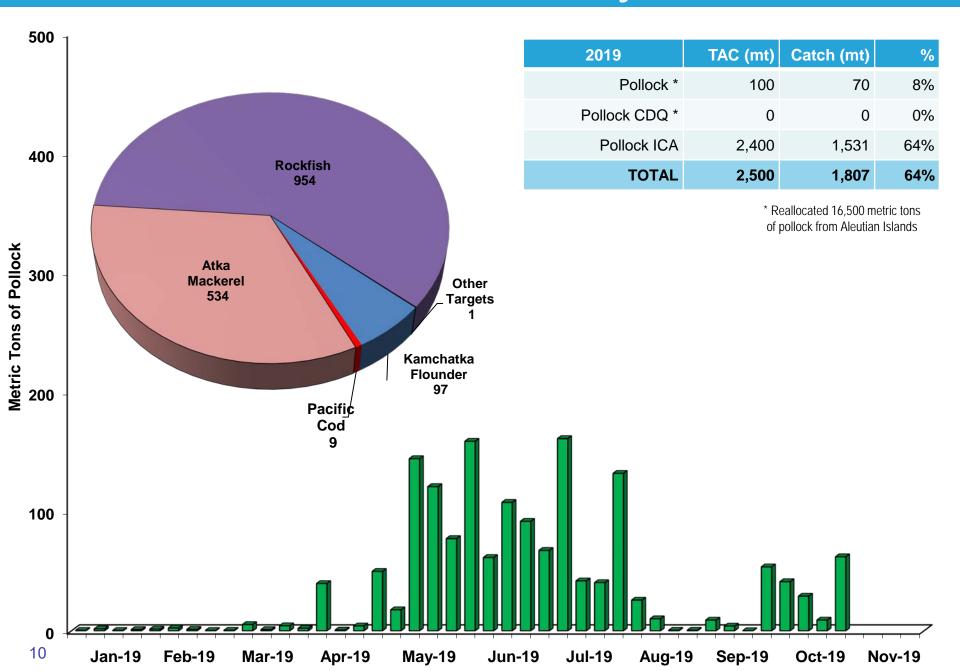
2019 B Season Bering Sea Pollock Directed Fishery (CP)



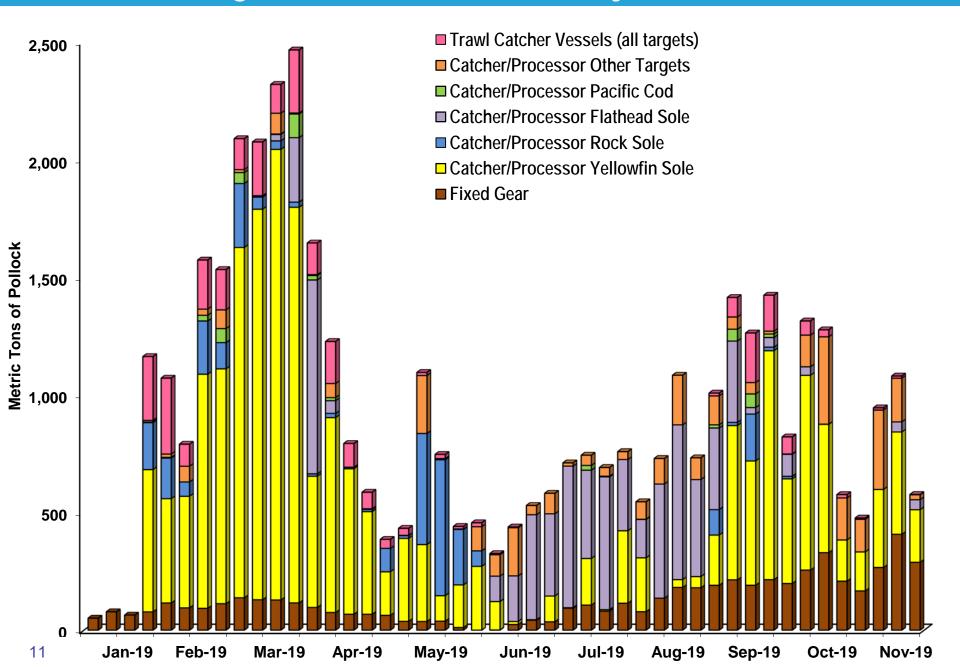
2019 Bering Sea Pollock Catch by Week and Sector



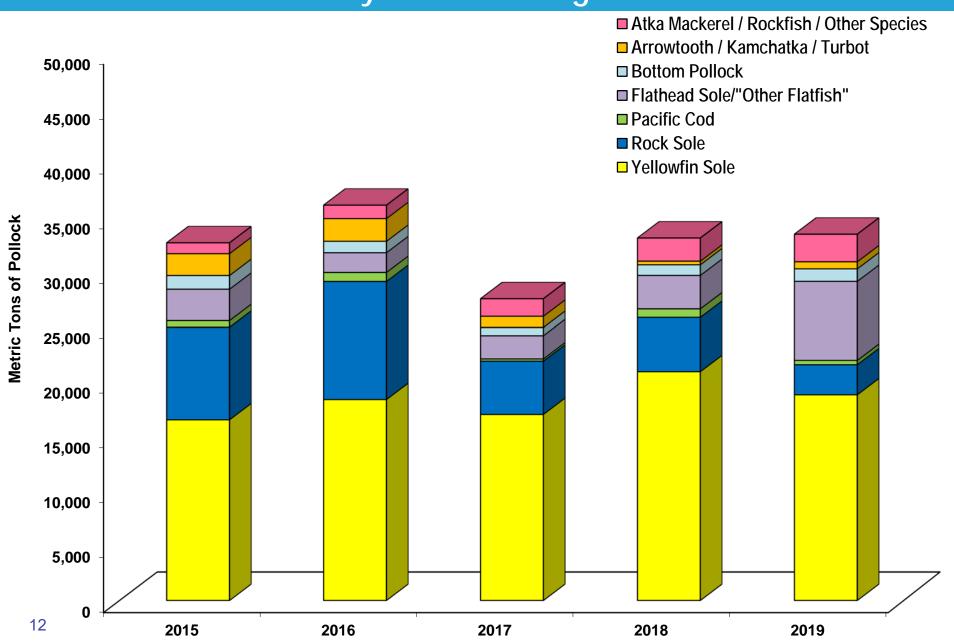
2019 Aleutian Islands Pollock Catch by Week and Sector



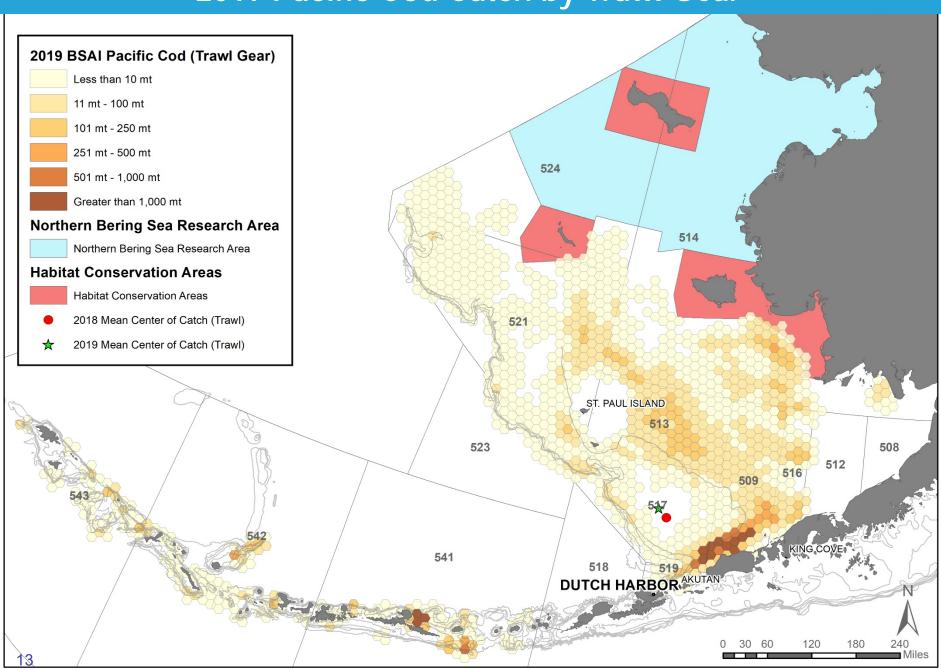
2019 Bering Sea Pollock ICA Catch by Week and Sector



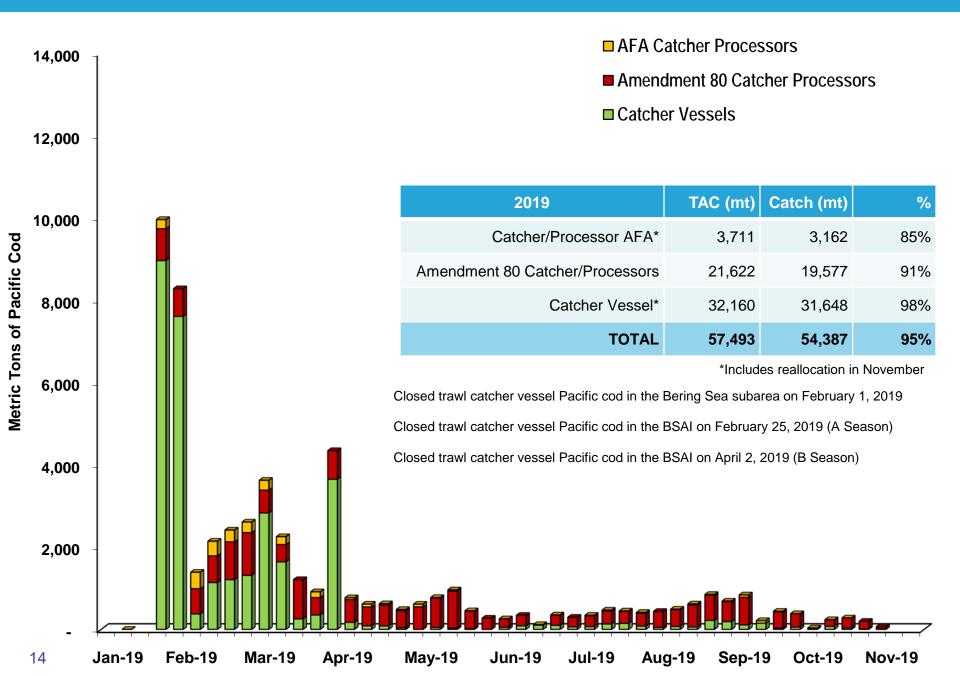
2015-2019 Trawl Catcher/Processor Incidental Catch of Pollock by Year and Target



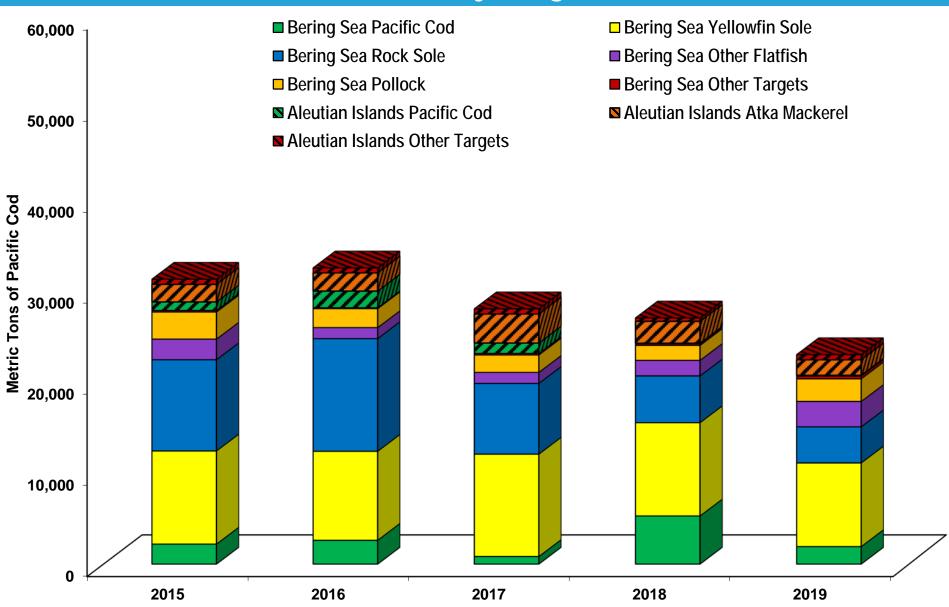
2019 Pacific Cod Catch by Trawl Gear



2019 BSAI Trawl Pacific Cod Catch

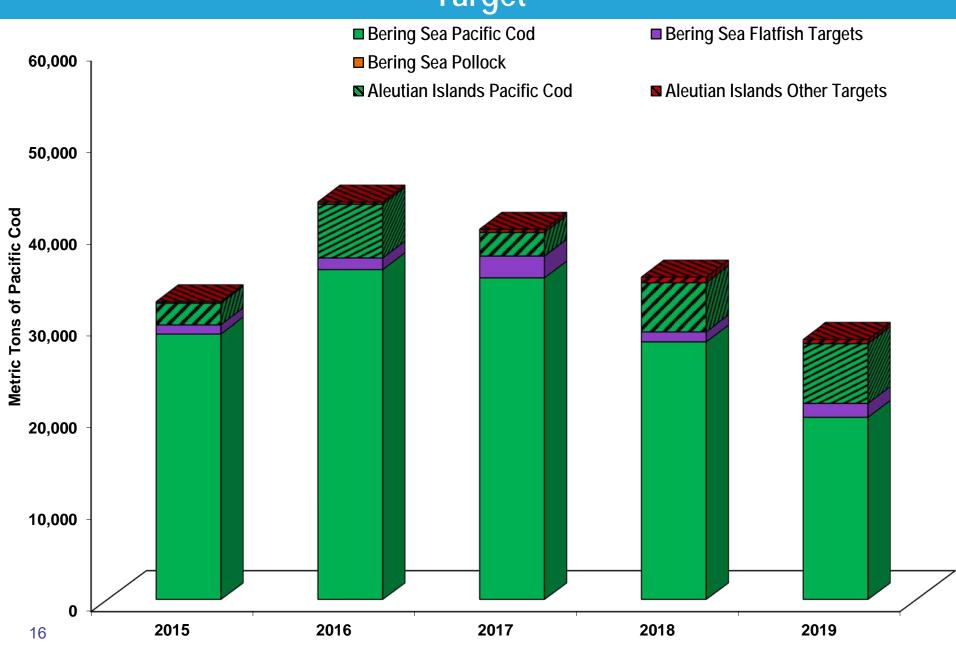


2015-2019 BSAI Trawl Catcher/Processor Pacific Cod Catch by Target

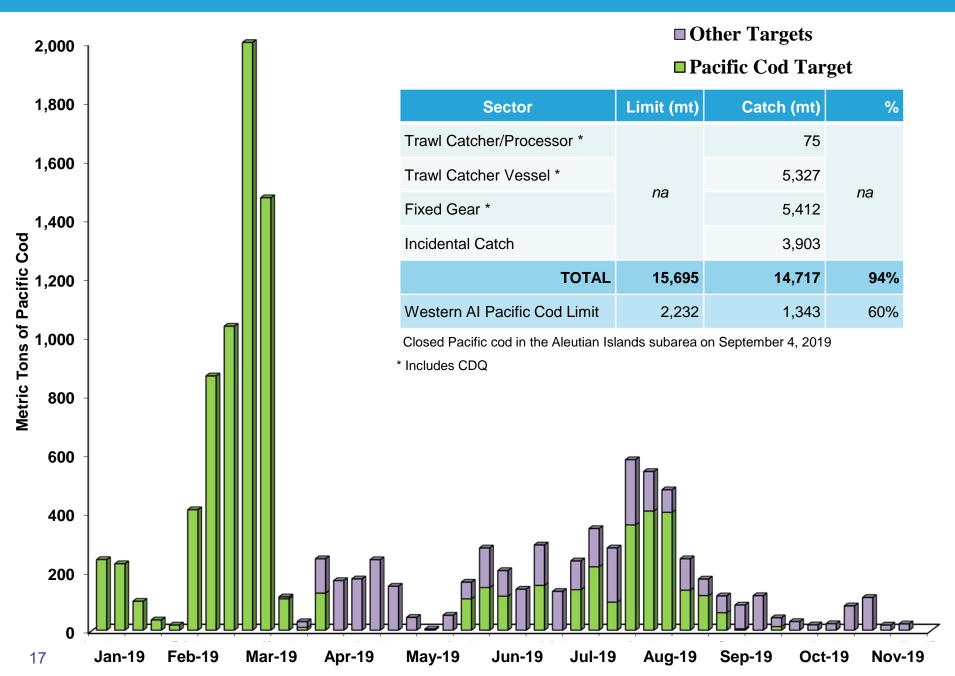


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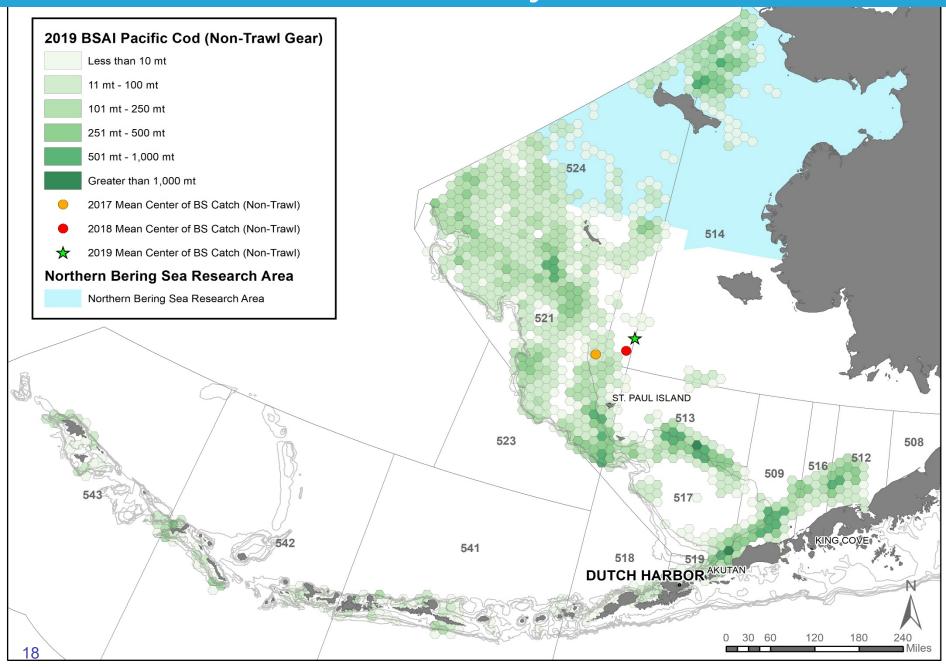
2015-2019 BSAI Trawl Catcher Vessel Pacific Cod Catch by Target



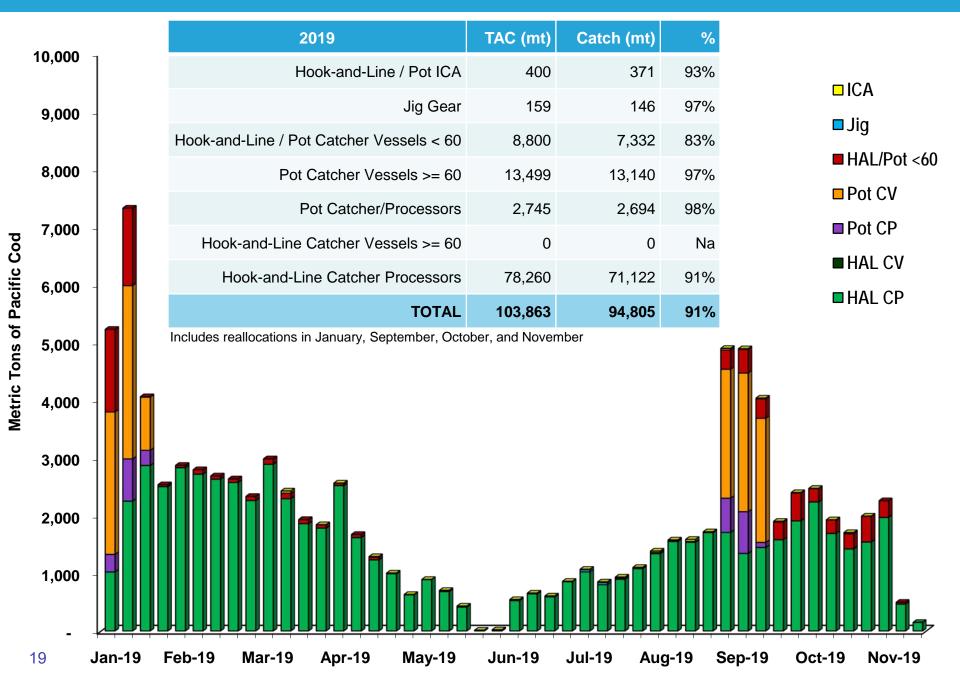
2019 Aleutian Islands Pacific Cod Catch



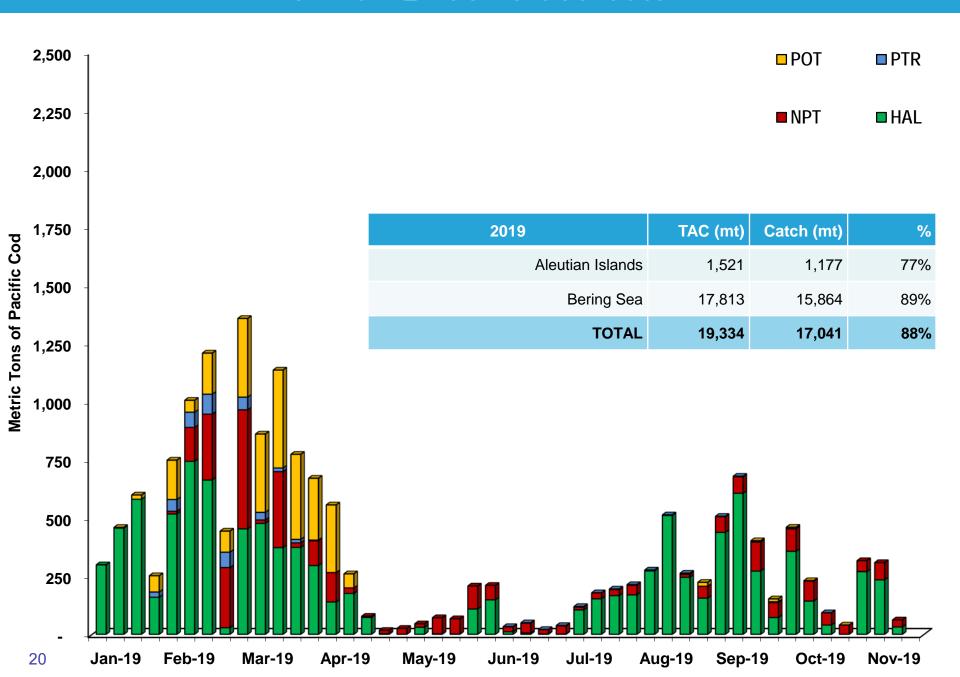
2019 Pacific Cod Catch by Non-Trawl Gear



2019 BSAI Non-Trawl Pacific Cod Catch



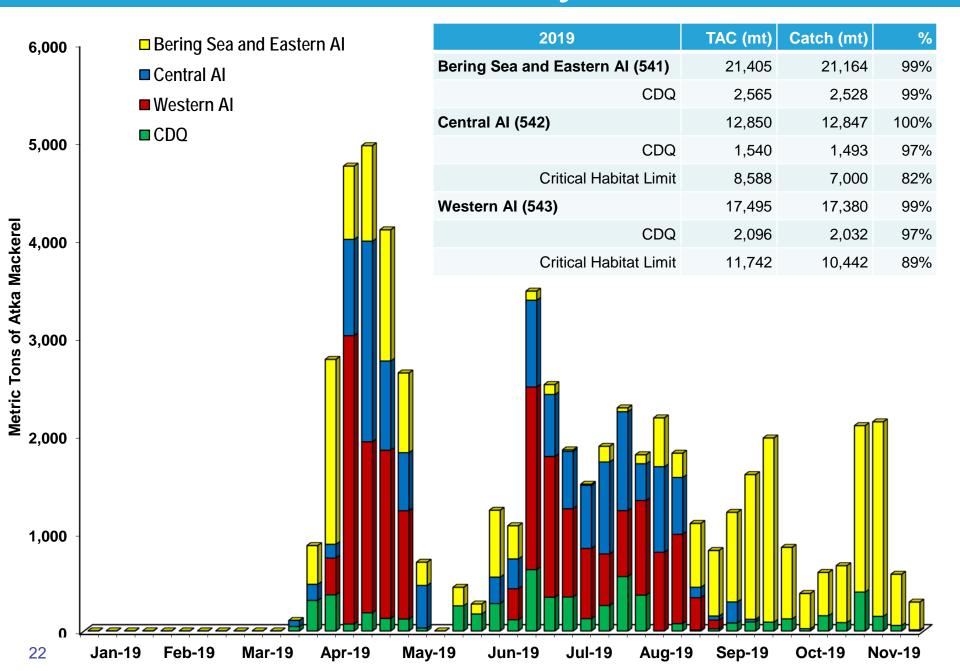
2019 CDQ Pacific Cod Catch



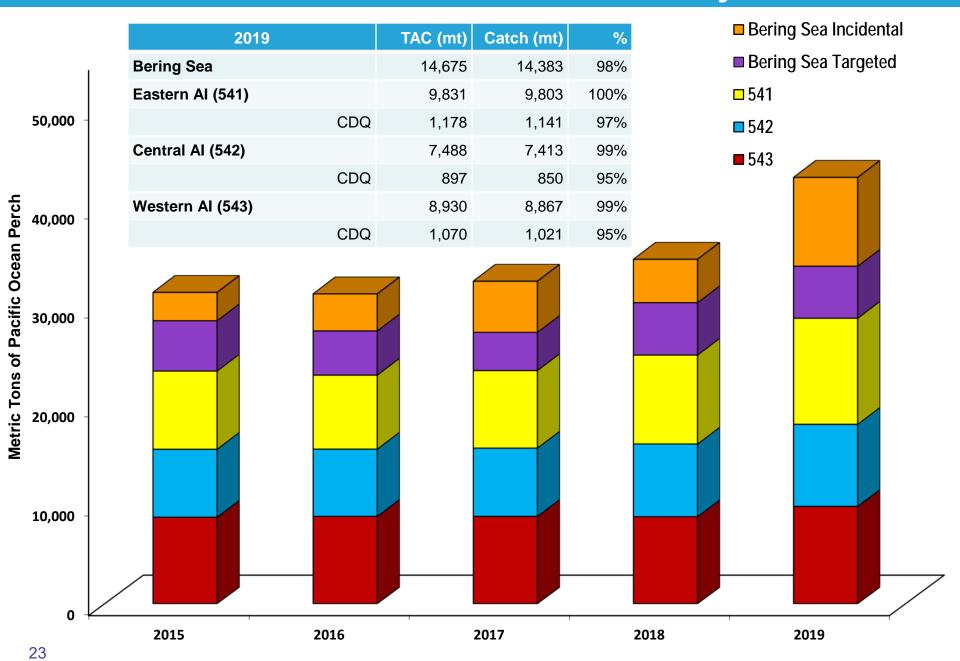
2019 Pacific Cod Apportionments and Catch in the BSAI

Fishery	Component	TAC (mt)	Reallocations	Revised TAC	Catch (mt)	%
Hook-and-Line G	ear					
	Catcher/Processors	78,260	0	78,260	71,122	91%
Cato	cher Vessels >= 60 Feet	321	-321	0	0	0%
Pot Gear						
	Catcher/Processors	2,410	+335	2,745	2,694	98%
Cato	cher Vessels >= 60 Feet	13,499	0	13,499	13,140	97%
Hook-and-Line ar	nd Pot Gear atcher Vessels < 60 feet	3,214	+ 5,586	8,800	7,332	83%
Trawl Gear						
A	AFA Catcher/Processors	3,711	0	3,711	3,162	85%
	A80 Catcher/Processors	21,622	0	21,622	19,883	92%
	Catcher Vessels	35,660	-3,500	32,160	31,666	98%
Jig Gear		2,259	- 2,100	159	146	92%
CDQ						
	Aleutian Islands	1,521	0	1,521	1,177	77%
	Bering Sea	17,813	0	17,813	15,864	89%
Hook-and-Line / Pot Gear ICA		400	0	400	371	93%
21	TOTAL	180,690	0	180,690	166,557	92%

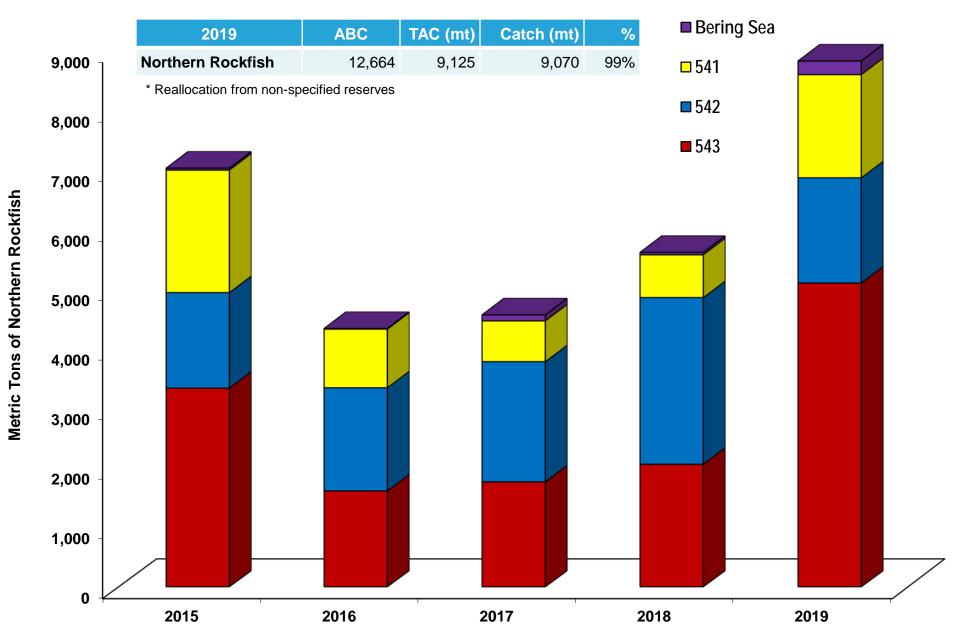
2019 Atka Mackerel Catch by Week and Area



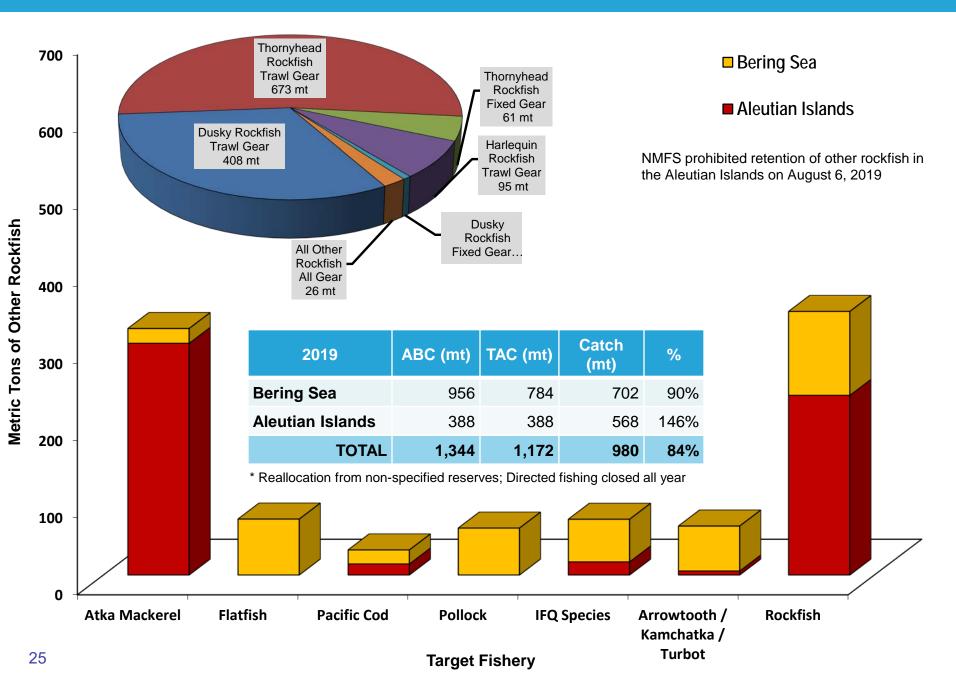
2015-2019 Pacific Ocean Perch Catch by Area



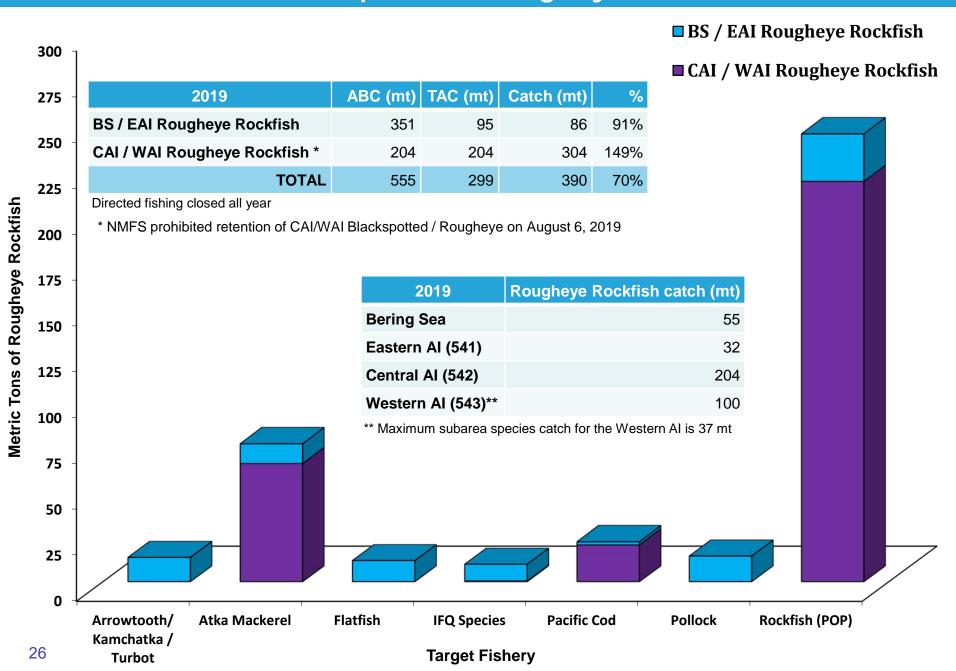
2015-2019 Northern Rockfish Catch by Area



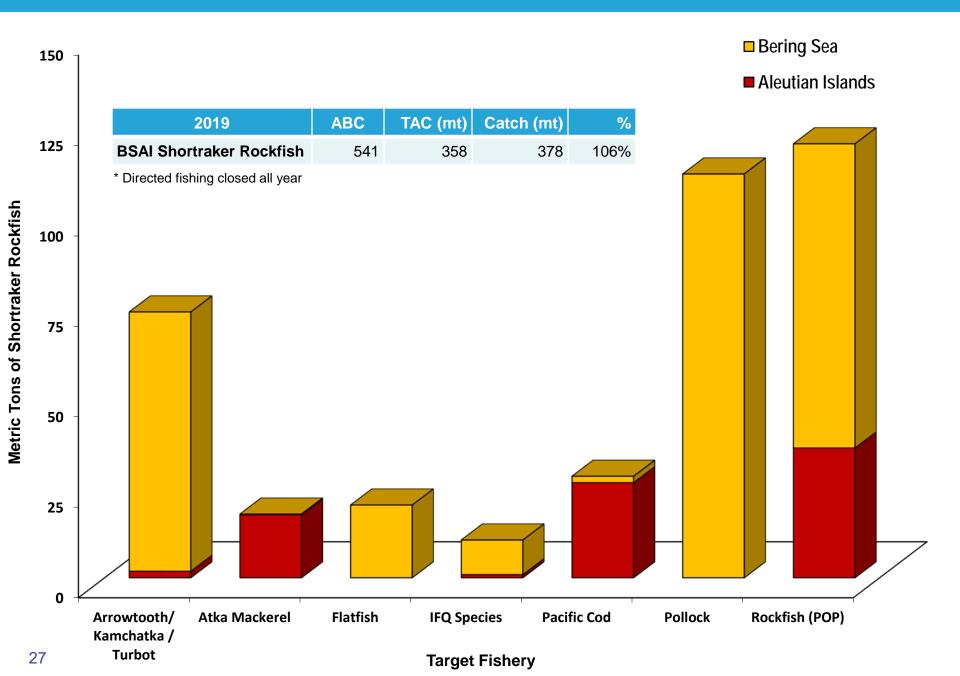
2019 BSAI Other Rockfish Catch



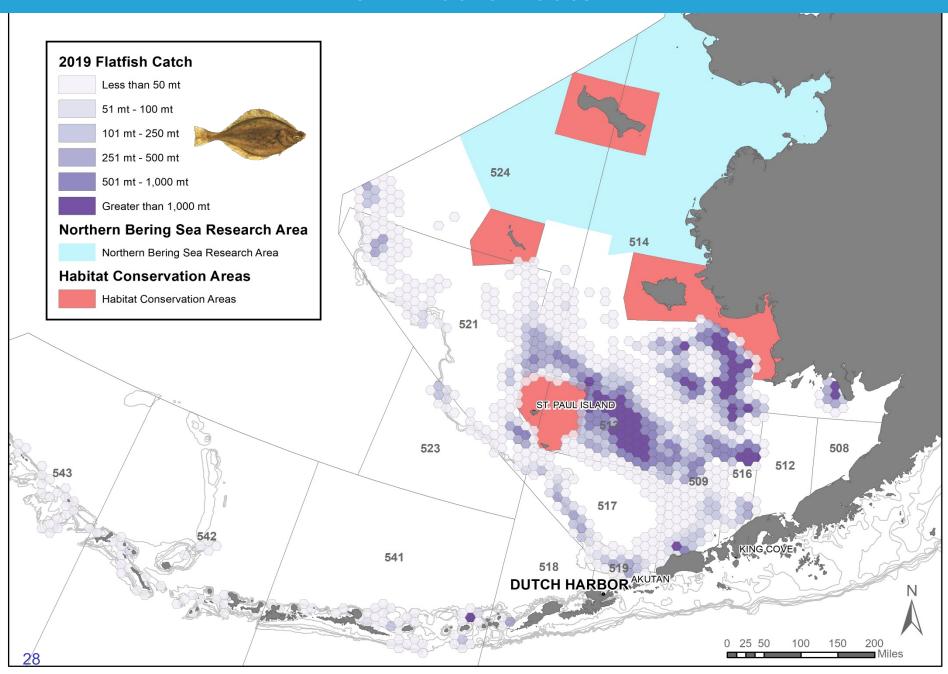
2019 BSAI Blackspotted / Rougheye Rockfish Catch



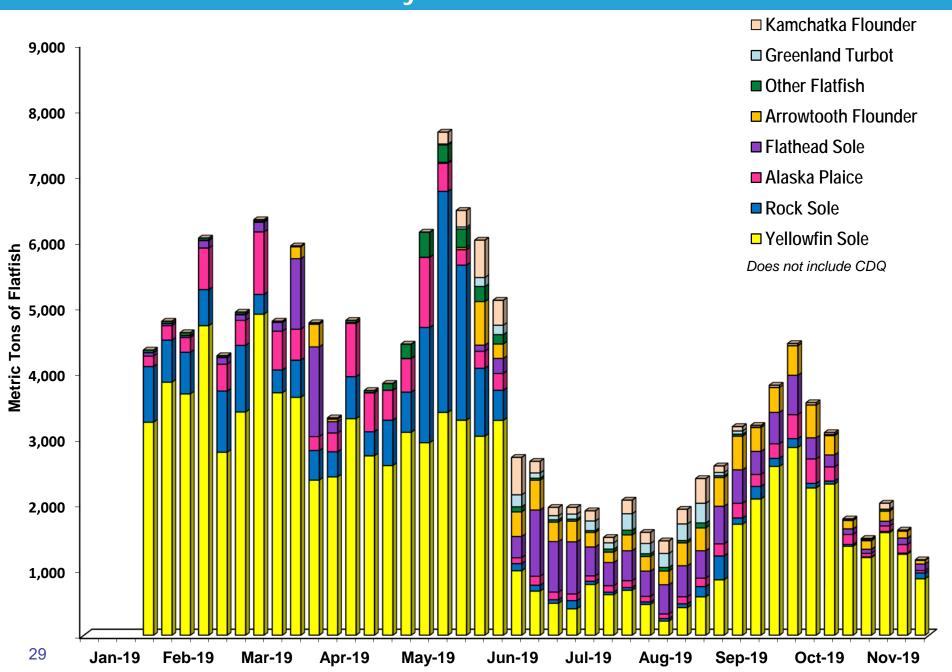
2019 BSAI Shortraker Rockfish Catch



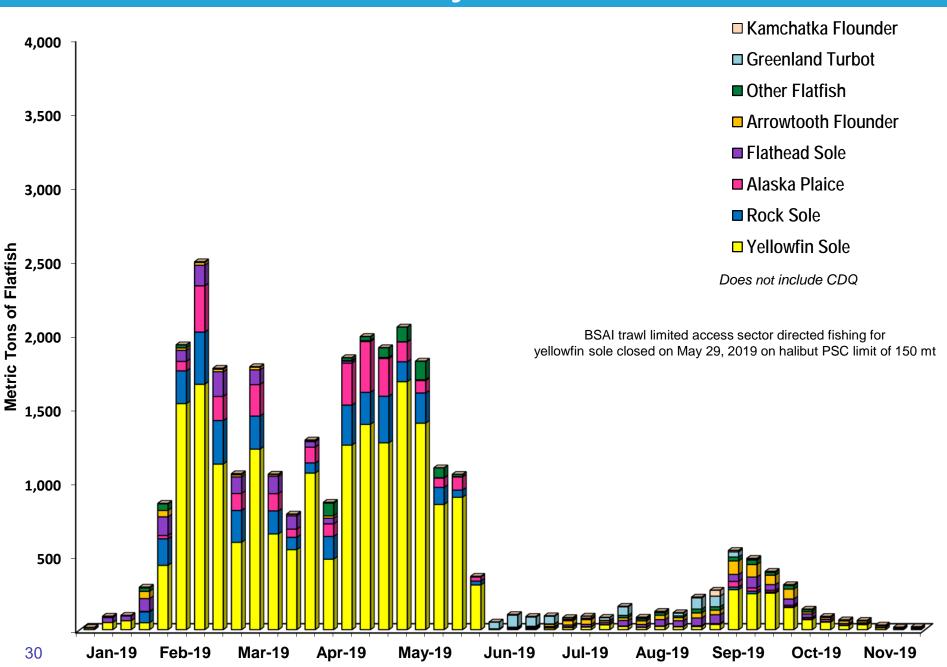
2019 Flatfish Catch



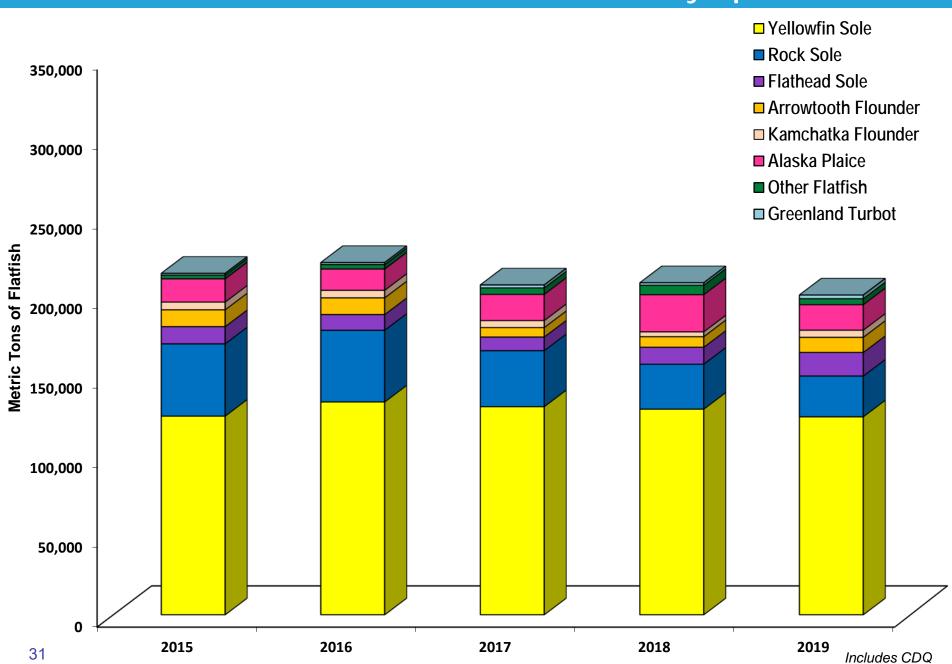
2019 BSAI Flatfish Catch by Amendment 80 Catcher/Processors



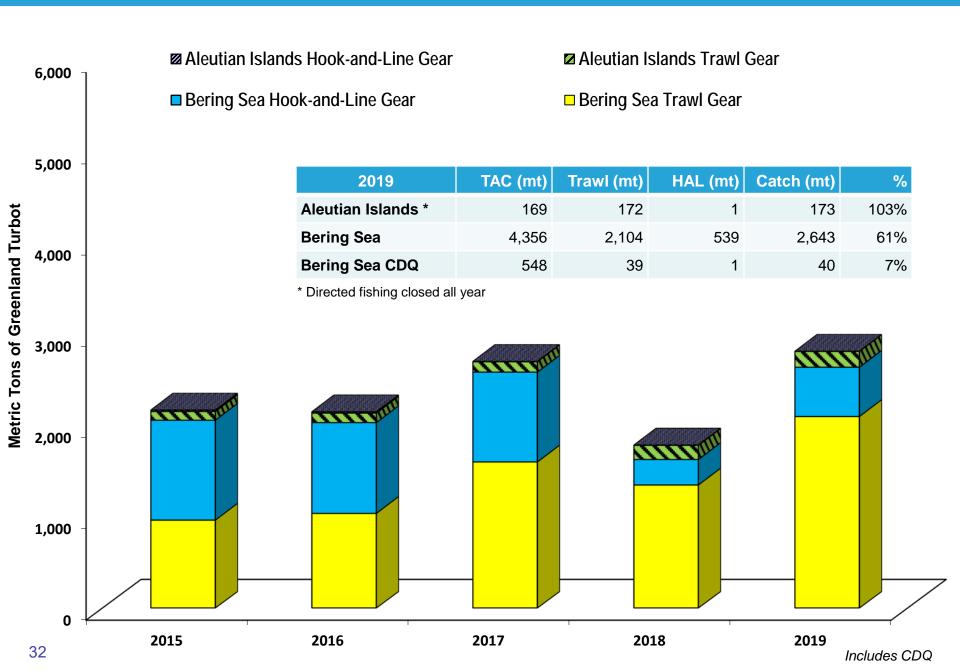
2019 BSAI Flatfish Catch by Non-Amendment 80 Vessels



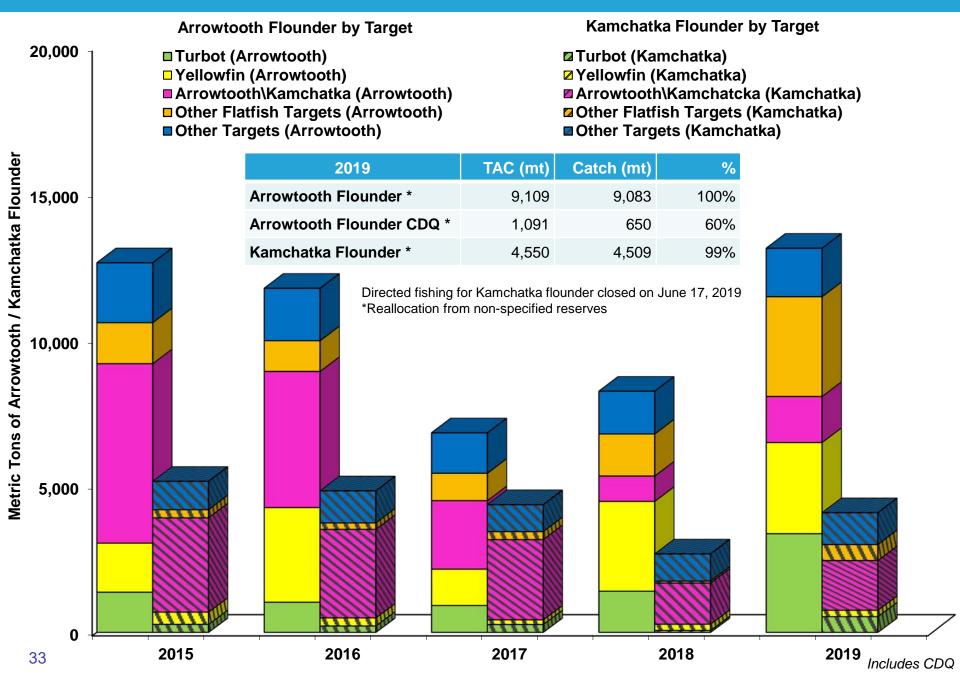
2015-2019 BSAI Trawl Flatfish Catch by Species



2015-2019 BSAI Greenland Turbot Catch



2015-2019 BSAI Arrowtooth / Kamchatka Flounder Catch



2019 Flatfish Catch in the BSAI

2019	ABC (mt)	Sector	TAC (mt)	Catch (mt)	%
	70 672		9,109	9,083	100%
Arrowtooth Flounder	70,673	CDQ	1,091	650	60%
Flathead Sole*	66 625		19,749	14,592	74%
Flatileau Sole	66,625	CDQ	1,602	596	37%
Rock Sole*			33,960	23,277	69%
Nock Sole	118,900	CDQ	5,040	2,266	45%
Yellowfin Sole*	263,200		138,822	112,189	81%
reliowiin Sole		CDQ	16,428	12,216	74%
Kamchatka Flounder Includes CDQ	9,260		4,550	4,509	99%
Alaska Plaice Includes CDQ	33,600		16,300	15,993	98%
"Other Flatfish" Includes CDQ	16,368		5,525	3,763	68%

Includes CDQ means there is no CDQ allocation for that species * Include flatfish flexibility exchanges









Flathead Sole Rock Sole

Yellowfin Sole

2019 Changes in Flatfish TAC from Flatfish Exchanges

Croup	Date	Flathead Sole		Rock Sole		Yellowfin Sole	
Group		TAC	Exchange	TAC	Exchange	TAC	Exchange
Initial	13-Mar	14,500		47,100		154,000	
APICDA (1)	5-May	14,500	0	47,500	400	153,600	-400
ASC (1)	17-Jul	16,500	2,000	42,300	-5,200	156,800	3,200
ASC (2)	18-Sep	20,100	3,600	39,400	-2,900	156,100	-700
APIDCA (2)	7-Oct	20,150	50	39,000	-400	156,450	350
Total C	hange		5,650		-8,100		2,450

Number of Amendment 80 Catcher/Processors				
2018	19			
2019	19			

Number of Motherships (non-pollock)				
2018	10			
2019	10			

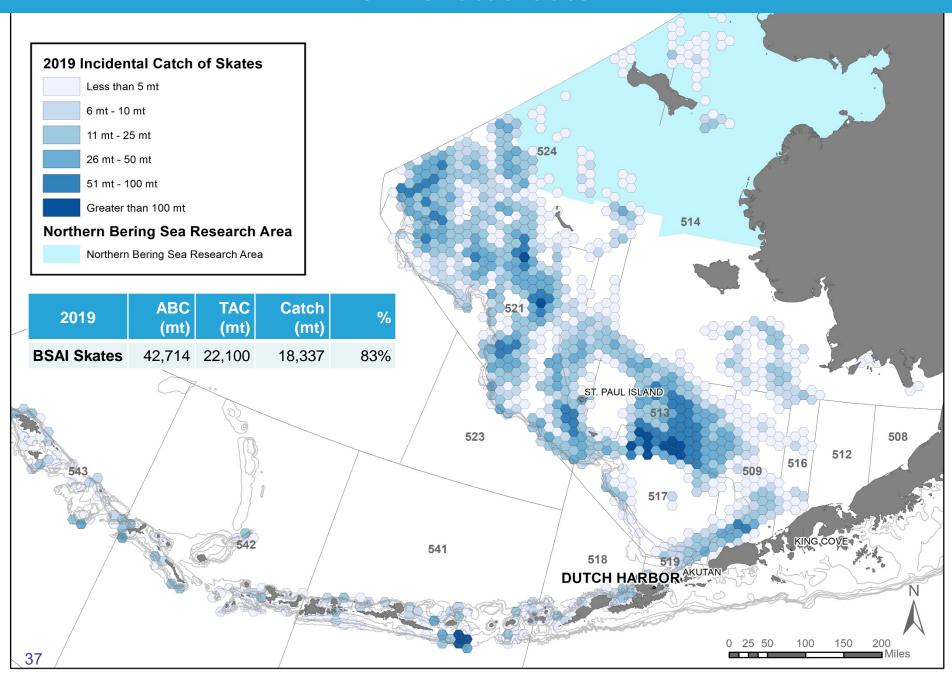
Number of CVs delivering to Motherships (non-pollock)					
2018	12				
2019	15				

2019 CDQ Inter-Group Transfers

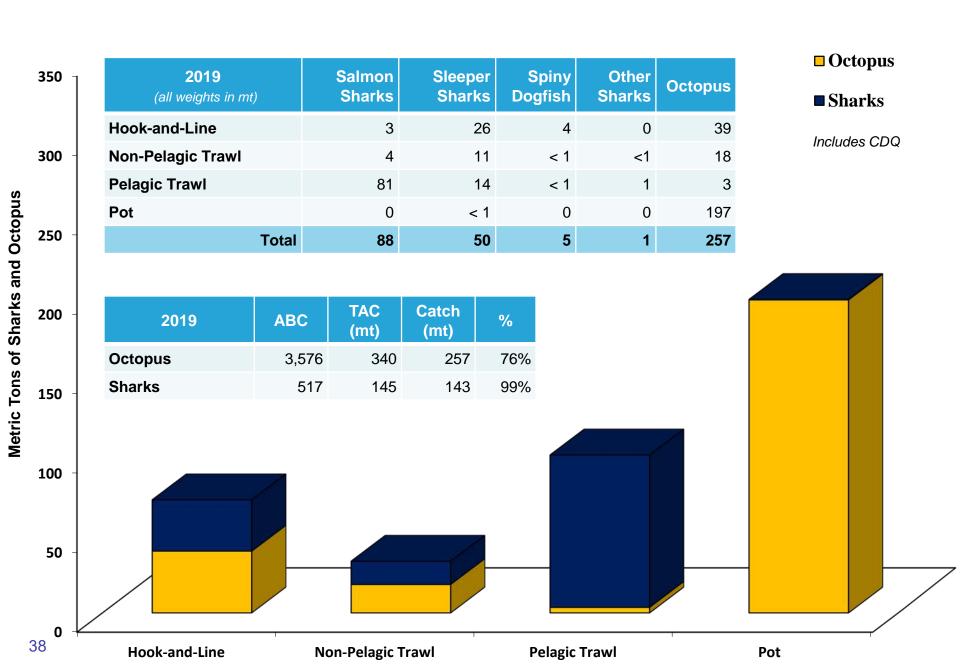


Species	# of Transfers	Weight	Count
Arrowtooth Flounder	8	309	n/a
Atka Mackerel	10	1,229	n/a
Flathead Sole	3	326	n/a
Greenland Turbot	2	42	n/a
Pacific Cod	11	963	n/a
Pacific Ocean Perch	8	415	n/a
Pollock	2	6,005	n/a
Rock Sole	6	1,388	n/a
Sablefish	9	35	n/a
Yellowfin Sole	5	5,198	n/a
Crab Species	8	n/a	365,815
Halibut	5	46	n/a
TOTAL	77	15,956	365,815

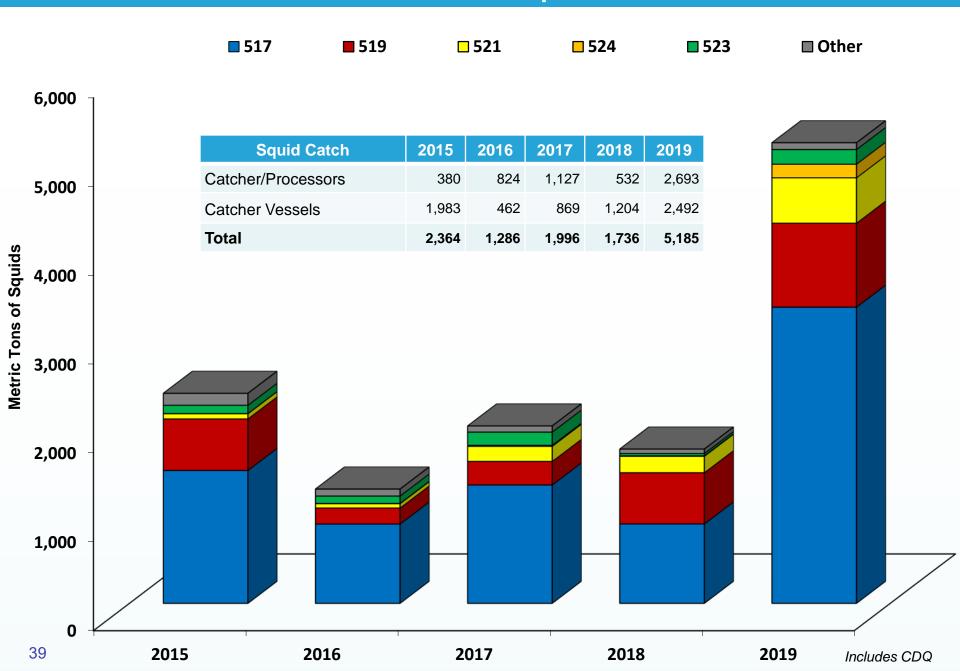
2019 Skates Catch



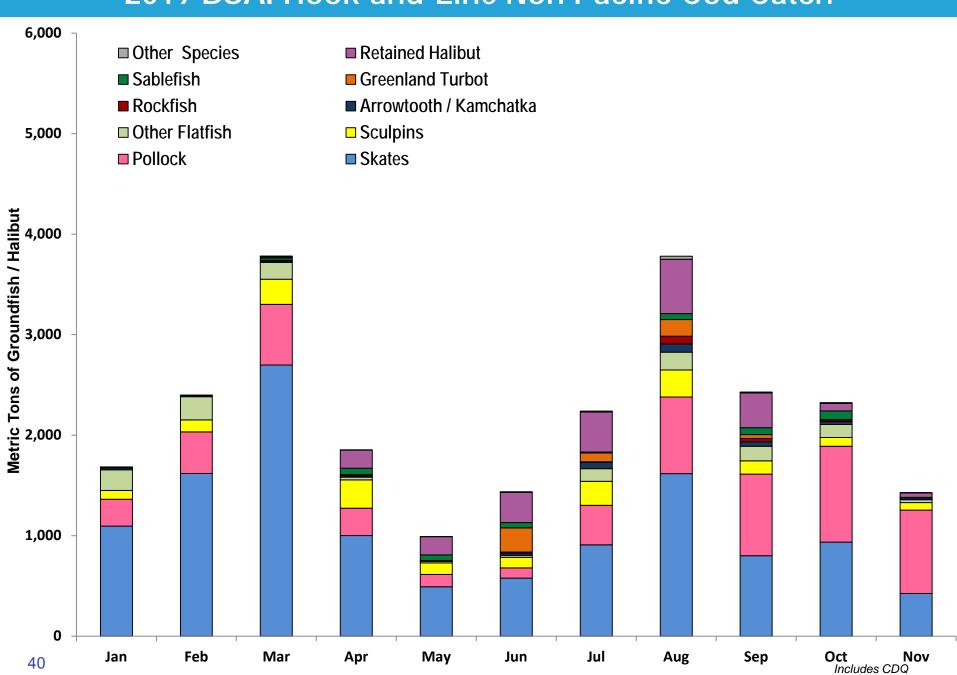
2019 BSAI Sharks and Octopus



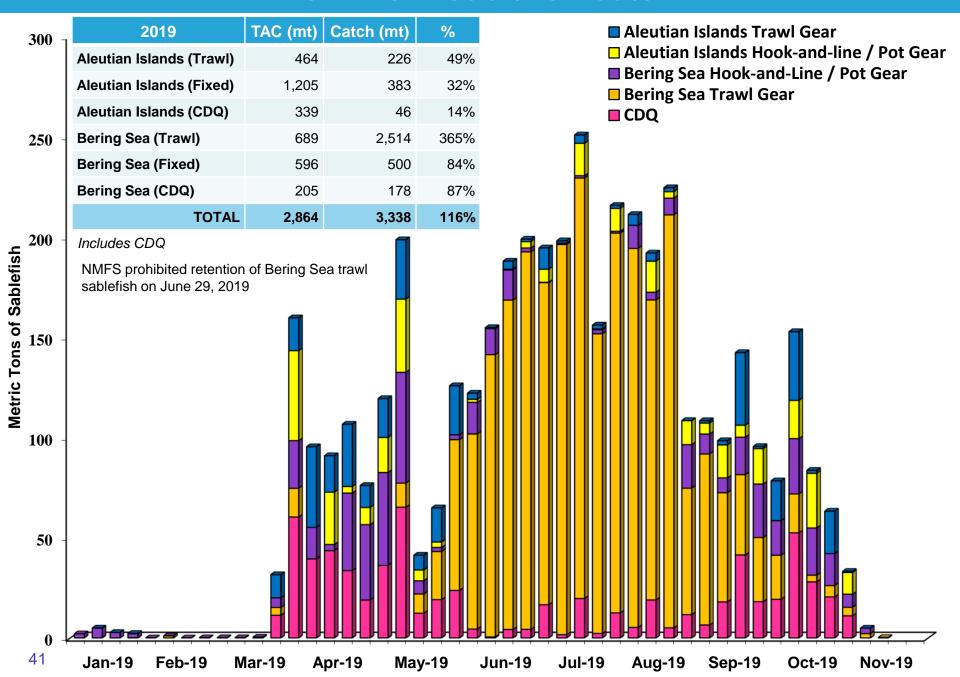
2015-2019 BSAI Squid Catch



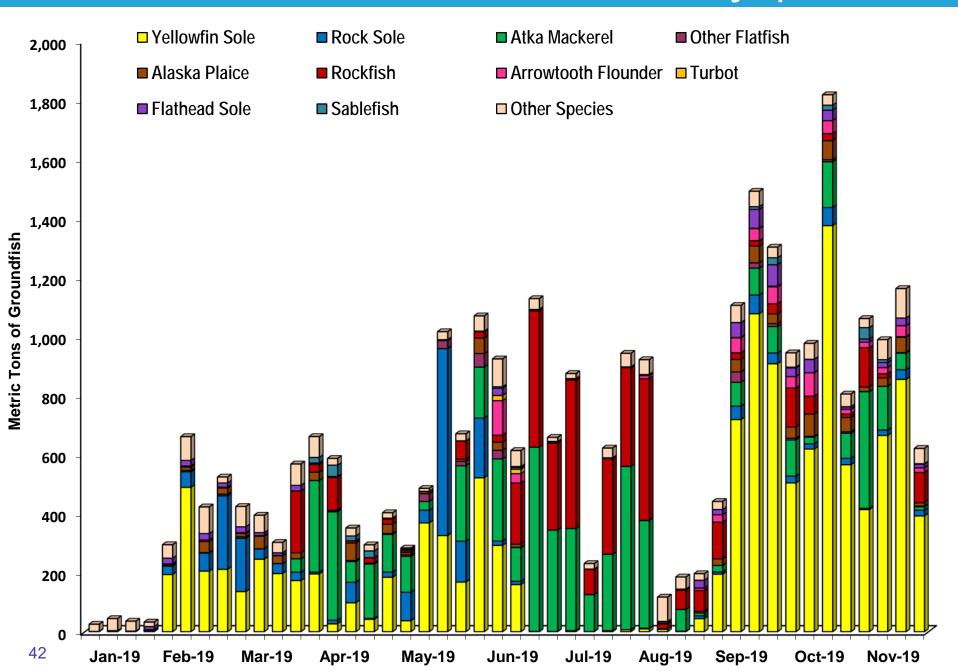
2019 BSAI Hook-and-Line Non Pacific Cod Catch



2019 BSAI Sablefish Catch



2019 CDQ Non Pollock / Pacific Cod Catch by Species



2019 Non-specified Reserve Releases

Species	Initial TAC (mt)	Reallocations	Revised TAC	Catch (mt)	%
Al Greenland Turbot*	144	+35	179	174	97%
Al Sablefish	1,971	+37	2,008	561	28%
BS "Other Rockfish"*	234	+ 550	784	703	90%
BS Pacific Ocean Perch	12,474	+ 2,201	14,675	14,413	98%
BS Sablefish	1,433	+ 56	1,489	3,192	214%
BSAI Alaska Plaice	15,300	+ 1,000	16,300	16,078	99%
BSAI Arrowtooth Flounder*	7,656	+ 3,796	11,452	9,849	86%
BSAI Kamchatka Flounder	4,250	+300	4,550	4,522	99%
BSAI Northern Rockfish*	5,525	+3,600	9,125	9,071	99%
BSAI Sculpins*	4,250	+1,358	5,608	5,438	97%
BSAI Sharks*	106	+49	155	143	92%
BSAI Shortraker Rockfish*	304	+96	400	381	95%
BS/EAI Rougheye Rockfish*	64	+41	105	90	86%
CAI/WAI Rougheye Rockfish	173	+31	204	304	149%
Reserves	13,150	-13,150	0	Na	Na

BSAI Groundfish Species Placed on Prohibited Species Status

2018	Date
Sablefish in BS subarea by non-CDQ trawl	April 5
"Other Flatfish" in the BSAI	September 13
"Other Rockfish" in the AI subarea	September 27

2019	Date
Sablefish in BS subarea by non-CDQ trawl	June 29
Blackspotted /Rougheye in Western/Central Al	August 6
"Other Rockfish" in the AI subarea	August 6

BSAI Trawl Groundfish Retained and Discards

2018 Trawl	Retained	Discards	% Retained	2019 Trawl	Retained	Discards	% Retained
Pollock	1,364,481	10,846	99%	Pollock	1,395,497	8,438	99%
Yellowfin Sole	127,109	2,070	98%	Yellowfin Sole	123,188	1,676	99%
Pacific Cod	68,754	454	99%	Pacific Cod	57,902	511	99%
Atka Mackerel	69,691	652	99%	Atka Mackerel	56,823	587	99%
Pacific Ocean Perch	32,459	2,288	93%	Pacific Ocean Perch	39,398	3,807	91%
Rock Sole	27,150	1,099	96%	Rock Sole	24,192	1,457	94%
Alaska Plaice	21,323	2,018	91%	Alaska Plaice	15,451	607	96%
Flathead Sole	10,180	462	96%	Flathead Sole	14,367	501	97%
Arrowtooth Flounder	5,797	845	87%	Arrowtooth Flounder	8,650	898	91%
Northern Rockfish	5,240	493	91%	Northern Rockfish	8,577	462	95%
Skates	2,810	2,664	51%	Skates	3,048	3,346	48%
Kamchatka Flounder	2,853	189	94%	Kamchatka Flounder	4,188	283	94%
Other Flatfish *	876	5,068	15%	Other Flatfish	1,090	2,642	29%
Sculpin	87	3,118	3%	Sculpin	39	3,393	1%
Sablefish *	892	355	72%	Sablefish *	1,317	1,481	47%
Greenland Turbot	1,509	41	97%	Greenland Turbot	2,276	40	98%
Other Rockfish *	687	205	77%	Other Rockfish *	829	360	70%
Rougheye Rockfish	186	21	90%	Rougheye Rockfish*	264	102	72%
Shortraker Rockfish	174	54	76%	Shortraker Rockfish	282	66	81%
Other Species	16	90	15%	Other Species	11	121	9%
Squid	1,299	437	75%	Squid	na	na	na
44 TOTAL	1,743,574	33,471	98%	TOTAL Sorted by 2019 Total	1,757,388 catch; * prohibited rete	30,776	98% s in that year

BSAI Fixed Gear Groundfish Retained and Discards

2018 Hook-and-Line	Retained	Discards	% Retained
Pacific Cod	101,787	1,707	98%
Skates	9,472	16,261	37%
Pollock	5,272	577	90%
Sculpins	2	1,684	0%
Other Flatfish	192	2,251	8%
Greenland Turbot	251	26	90%
Sablefish	274	73	79%
Arrowtooth	132	286	32%
Other Rockfish	43	80	35%
Other Species	15	48	24%
Sharks	0	25	0%
Shortraker Rockfish	6	15	29%
Rougheye Rockfish	14	17	44%
TOTAL	117,460	23,051	84%

2019 Hook-and-Line	Retained	Discards	% Retained
Pacific Cod	82,444	1,365	98%
Skates	5,786	6,280	48%
Pollock	5,172	632	89%
Sculpins	4	1,704	0%
Other Flatfish	35	1,241	3%
Greenland Turbot	521	20	96%
Sablefish	277	138	67%
Arrowtooth	138	178	44%
Other Rockfish*	35	64	36%
Other Species	15	32	32%
Sharks	0	32	0%
Shortraker Rockfish	1	29	5%
Rougheye Rockfish*	6	19	23%
TOTAL	94.434	11.732	89%

2018 Pot	Retained	Discards	% Retained
Pacific Cod	28,620	43	100%
Sablefish	623	40	94%
Octopus	163	69	70%
Other Species	86	537	14%
TOTAL	29,492	735	98%

2019 Pot	Retained	Discards	% Retained
Pacific Cod	25,076	17	100%
Sablefish	109	63	63%
Octopus	595	27	96%
Other Species	46	739	6%
TOTAL	25,825	846	97%

2019 Salmon, Crab, and Herring PSC

Chinook Salmon (#)	Total Catch	Limit	%
Pollock Fishery	24,984	45,000	56%
Non-Pollock Fisheries	6,327	na	na
Non-Chinook Salmon (#)	Total Catch	Limit	%
Non-Chinook Salmon (#) Pollock Fishery	Total Catch 347,879	Limit na	% na

Trawl Gear

Other PSC Species	Total Catch
Opilio Tanner Crab (#)	930,241
Bairdi Tanner Crab (#)	324,420
Red King Crab (#)	65,711
Blue King Crab (#)	727
Golden King Crab (#)	32,879
Herring (mt)	1,182

Fixed Gear

Other PSC Species	Total Catch
Opilio Tanner Crab (#)	85,239
Bairdi Tanner Crab (#)	125,339
Red King Crab (#)	46,703
Blue King Crab (#)	4,206
Golden King Crab (#)	13,335

2019 BSAI Halibut Catch

Hook-and-Line Halibut Catch

Hook-and-Line Halibut (mt)	Retained	Discard *	% Discarded	Mortality **	Limit	%
IFQ \ CDQ Halibut Fishery	2,060	639	24%	102	na	na
IFQ \ CDQ Sablefish Fishery	17	8	32%	1	na	na
Pacific Cod \ Other Species	5	1,002	99%	79	710	11%
TOTAL	2,082	1,649	44%	182	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.
- ** IFQ Halibut discard mortality rate 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 8% for HAL CPs, 4% for HAL CVs, and 19% for Pot CPs and CVs.

Trawl Halibut Catch*

Trip Target	Mortality	Limit
Arrowtooth / Kamchatka / Turbot	77	
Atka Mackerel	51	
Flathead Sole / Other Flatfish	189	
Pacific Cod	377	
Pollock	95	2,490
Rockfish	49	
Rock Sole	192	
Yellowfin Sole	1,017	
TOTAL	2,047	

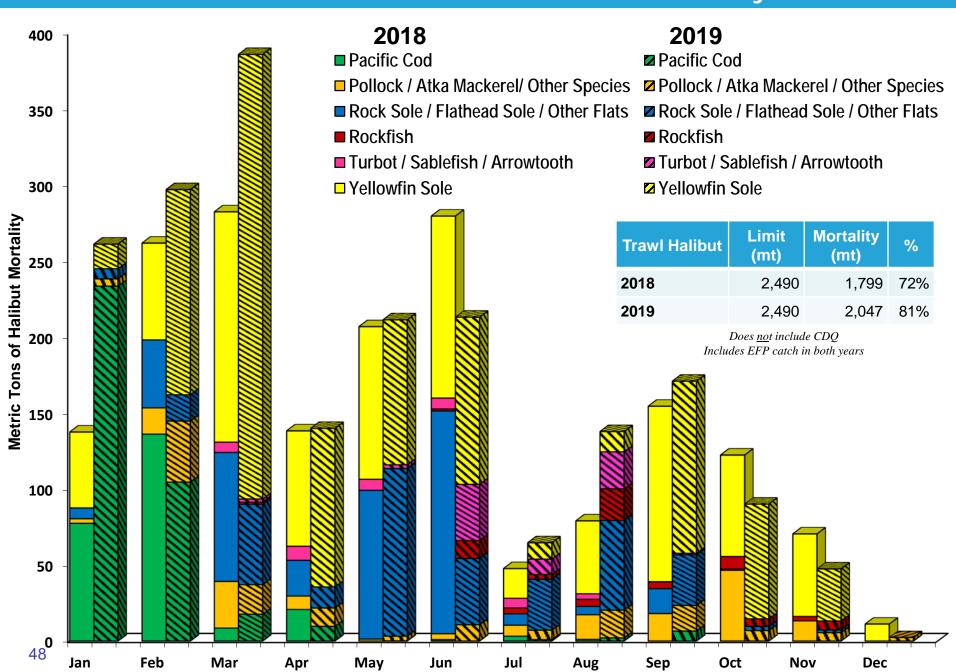
EFP Deck Sorting Halibut Mortality

Year	EFP Mortality	Vessels	% of Trawl Halibut Mortality	
2016	206	11	10%	
2017	578	17	33%	
2018	895	21	50%	
2019	1,107	22	54%	

The EFP halibut mortality above is included in the Trawl halibut mortality totals to the left.

^{*} Includes EFP Catch and does not include CDQ

2018 / 2019 BSAI Trawl Halibut Mortality



2019 BSAI 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	238	74	-69%	1.71	0.83	-52%
Catcher Vessels	2	2	-36%	3.09	1.43	-54%
Total	241	76	-69%	1.72	0.84	-51%
Non-Pelagic Trawl						
Amendment 80 Catcher/Processors	1,547	1,404	-9%	4.96	4.61	-7%
AFA Catcher/Processors	103	39	-62%	5.00	4.26	-15%
Catcher Vessels	334	499	49%	5.62	8.94	59%
Total	1,984	1,943	-2%	5.06	5.26	4%
Pelagic Trawl						
AFA Catcher/Processors	61	66	8%	0.13	0.13	2%
AFA Catcher Vessels	27	16	-41%	0.04	0.02	-44%
Total	88	82	-7%	0.07	0.07	-12%
CDQ						
Hook-and-line Vessels	23	4	-83%	1.10	0.32	-71%
Non-pelagic Trawl Vessels	138	154	12%	3.60	4.72	31%
Pelagic Trawl Vessels	10	17	67%	0.07	0.12	59%
Total	171	175	2%	1.09	0.93	-14%
** Rate is kg of halibut / mt of groundfish ** 2019 Data to	2,484	2,275	-8%	1.33	1.20	-10%

^{*} Rate is kg of halibut / mt of groundfish

^{** 2019} Data through November 11, 2019

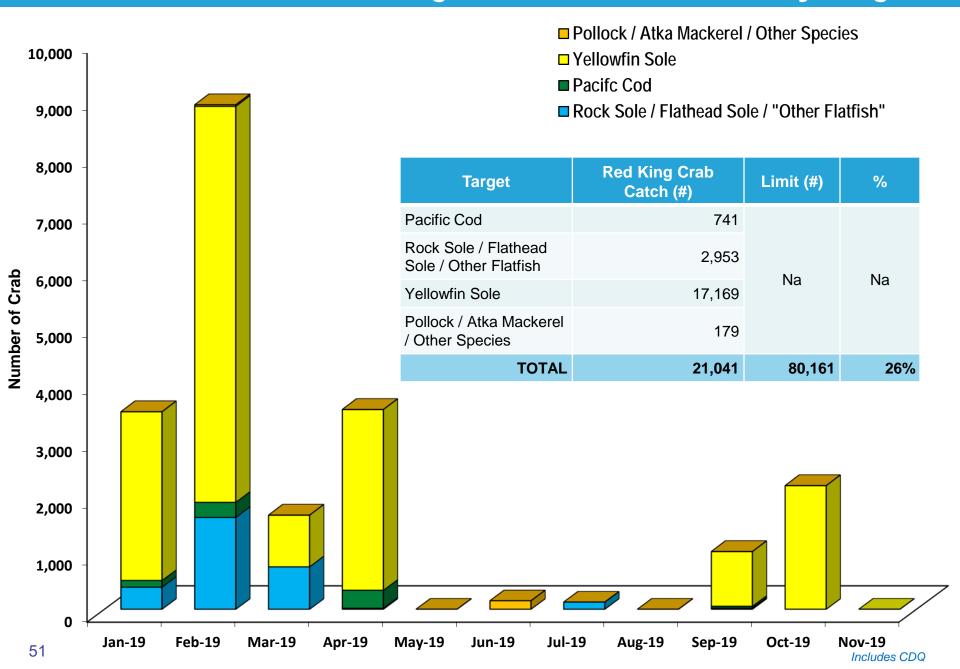
2019 BSAI Reduction in Halibut Mortality Compared to 2018

Sector	2018 (mt)	2019 (mt) **	% Change (mt)	2018 Rate*	2019 Rate*	% Change (Rate)
Hook-and-line						
Catcher/Processors	115	74	-36%	0.96	0.83	-14%
Catcher Vessels	4	2	-63%	4.52	1.43	-68%
Total	120	76	-37%	0.99	0.84	-15%
Non-Pelagic Trawl						
Amendment 80 Catcher/Processors	1,343	1,404	4%	4.32	4.61	7%
AFA Catcher/Processors	105	39	-62%	5.34	4.26	-20%
Catcher Vessels	309	499	62%	5.21	8.94	72%
Total	1,757	1,943	11%	4.51	5.26	17%
Pelagic Trawl						
AFA Catcher/Processors	32	66	106%	0.07	0.13	100%
AFA Catcher Vessels	10	16	57%	0.01	0.02	53%
Total	42	82	95%	0.03	0.07	89%
CDQ						
Hook-and-line Vessels	11	4	-66%	0.62	0.32	-49%
Non-pelagic Trawl Vessels	137	154	13%	3.44	4.72	37%
Pelagic Trawl Vessels	7	17	135%	0.05	0.12	129%
Total	156	175	13%	0.79	0.93	18%
TOTAL	2,074	2,275	10%	1.08	1.20	11%

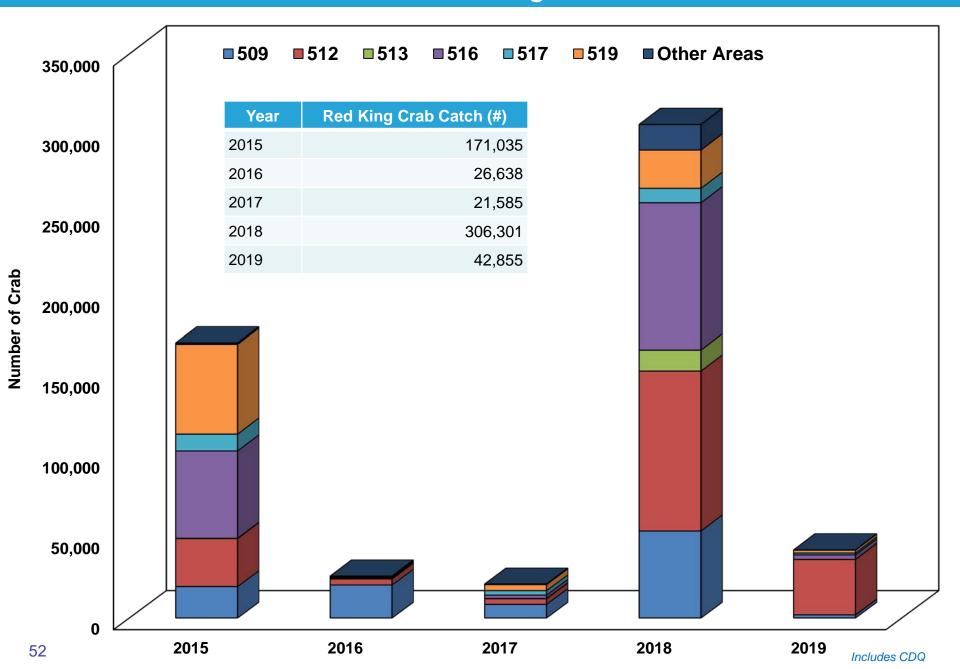
Rate is kg of halibut / mt of groundfish

^{** 2019} Data through November 11, 2019

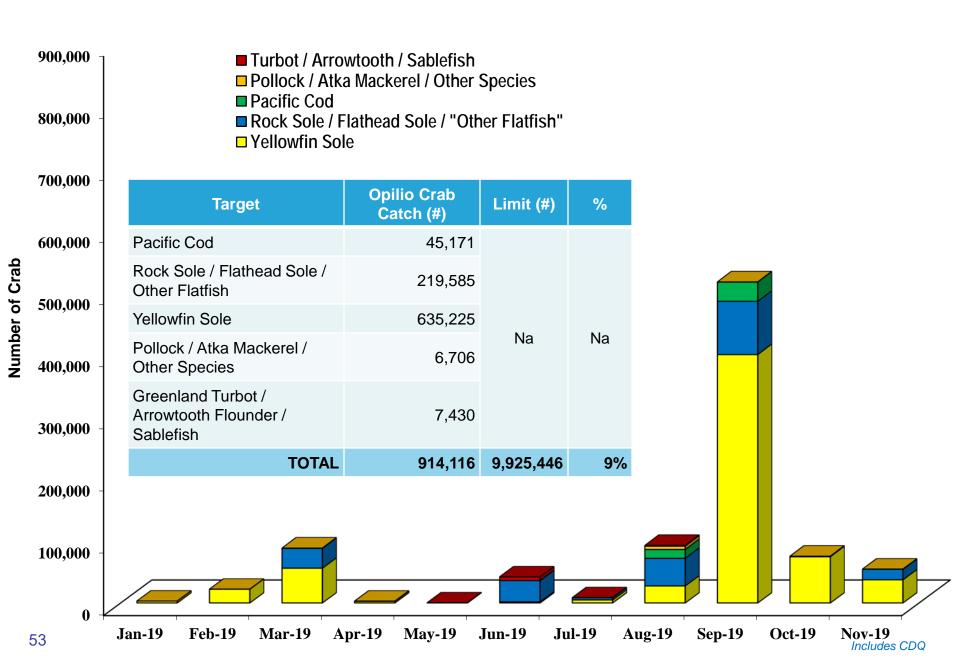
2019 Zone 1 Trawl Red King Crab Incidental Catch by Target



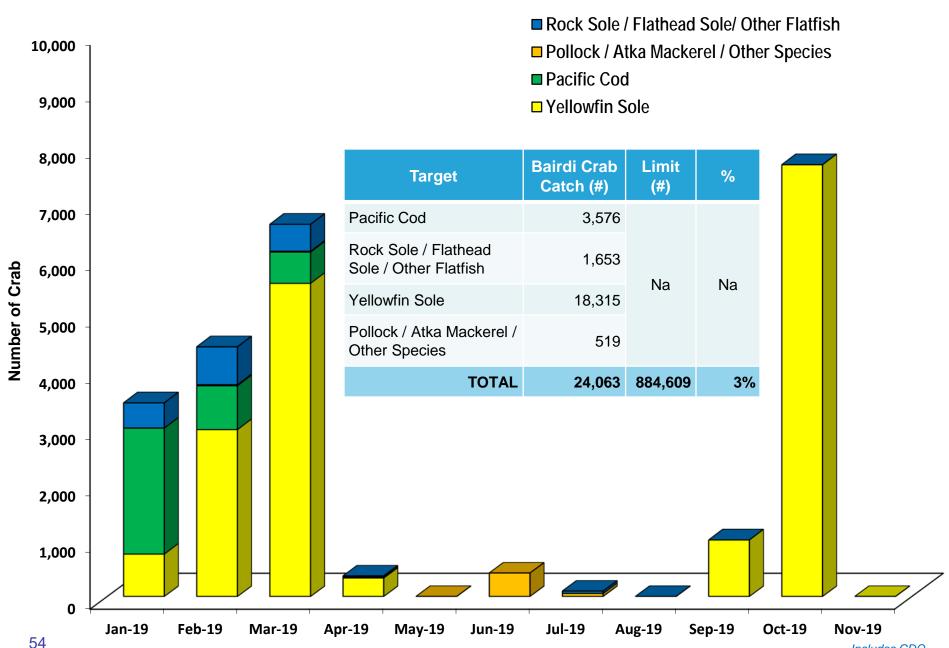
2015-2019 Fixed Gear Red King Crab Incidental Catch



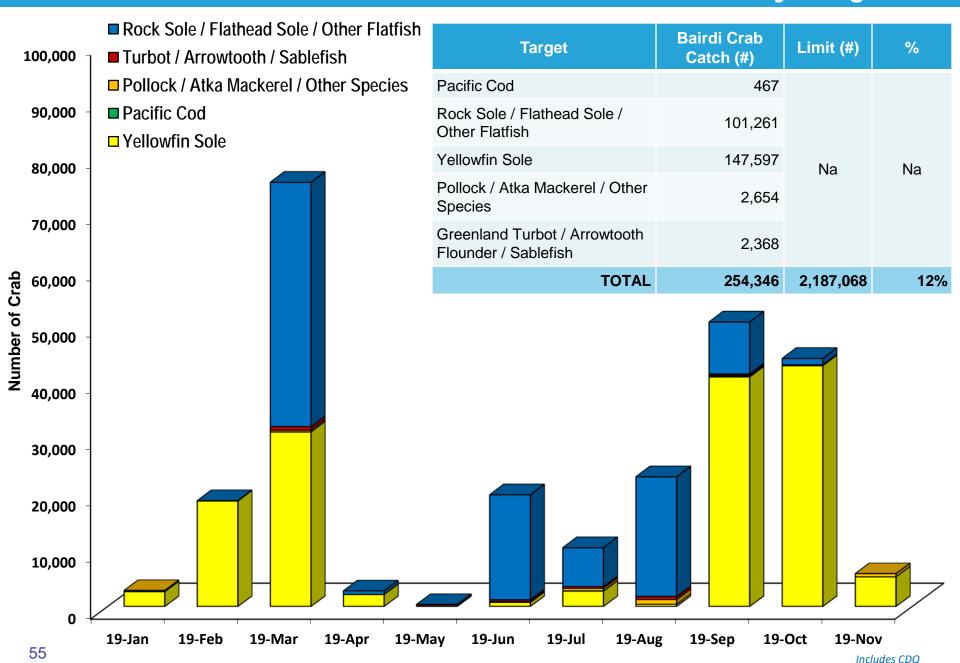
2019 COBLZ Trawl Opilio Crab Incidental Catch by Target



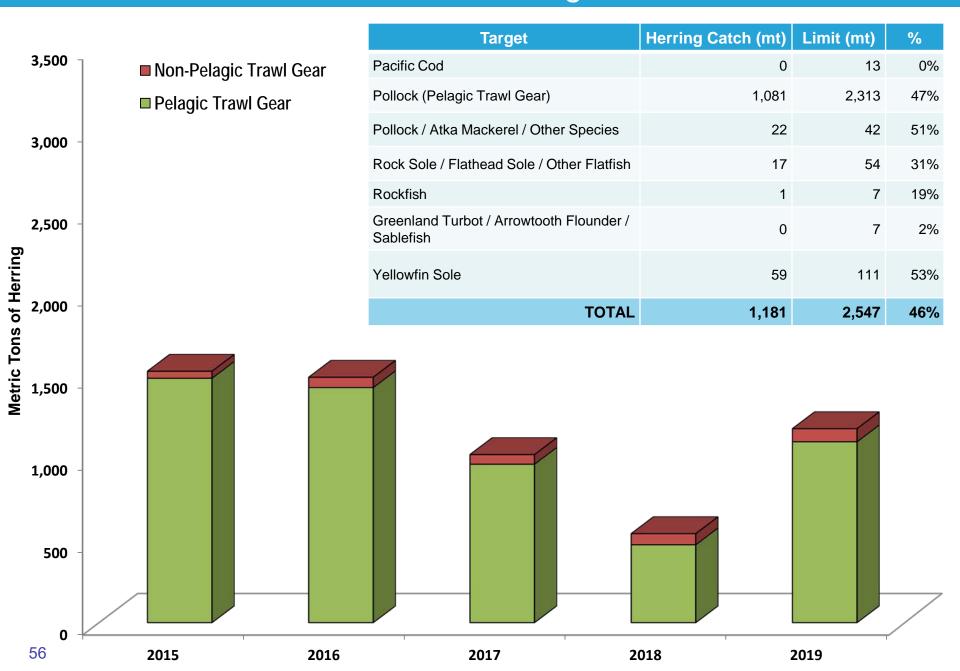
2019 Zone 1 Trawl Bairdi Crab Incidental Catch by Target



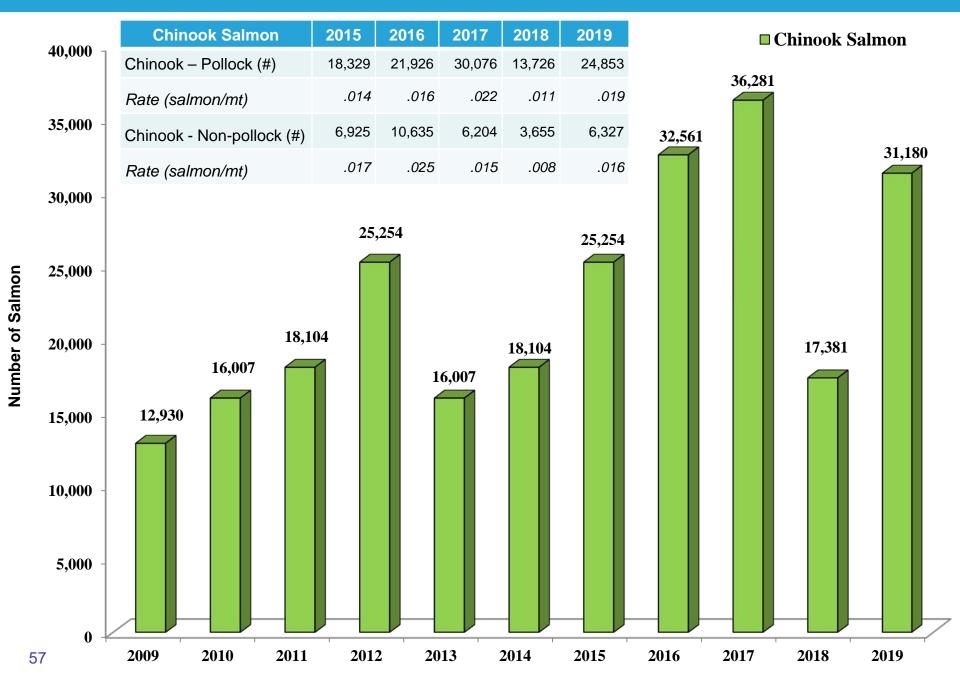
2019 Zone 2 Trawl Bairdi Crab Incidental Catch by Target



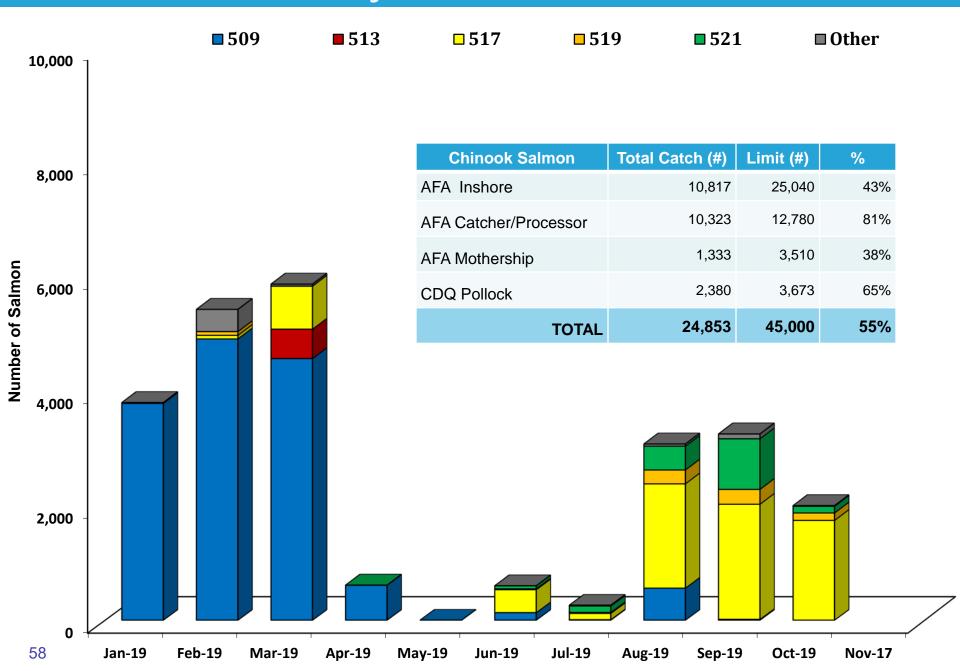
2015 - 2019 BSAI Trawl Herring Incidental Catch



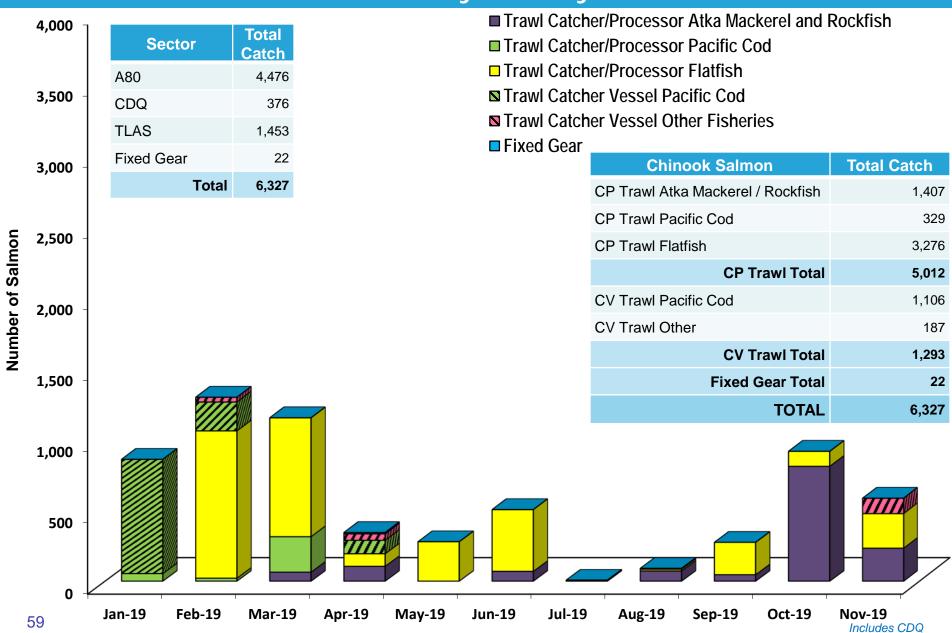
BSAI Trawl Chinook Salmon Incidental Catch



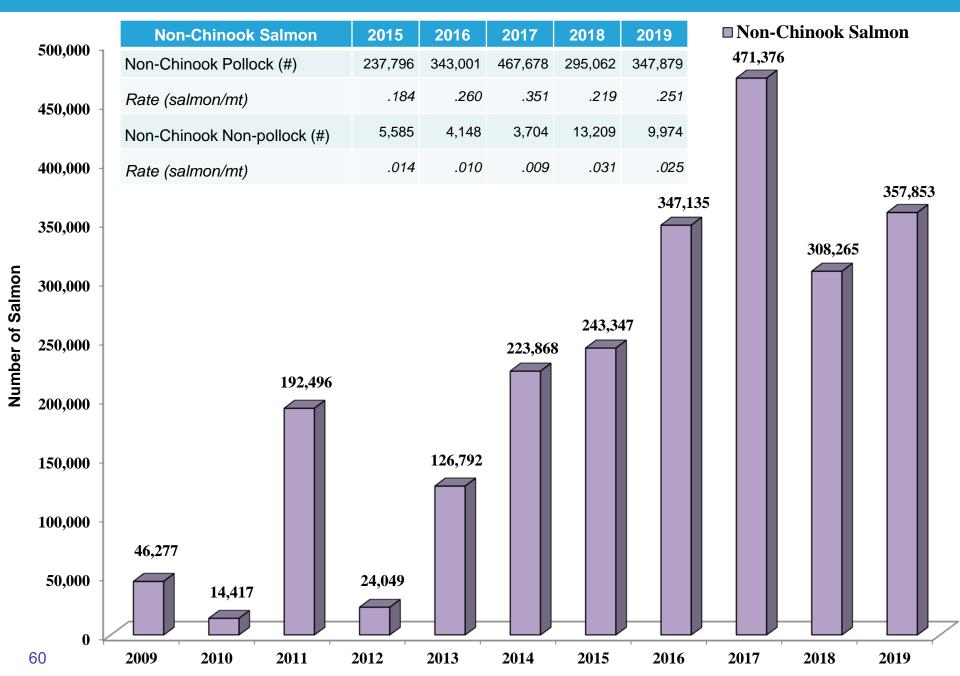
BSAI Pollock Fishery Chinook Salmon Incidental Catch



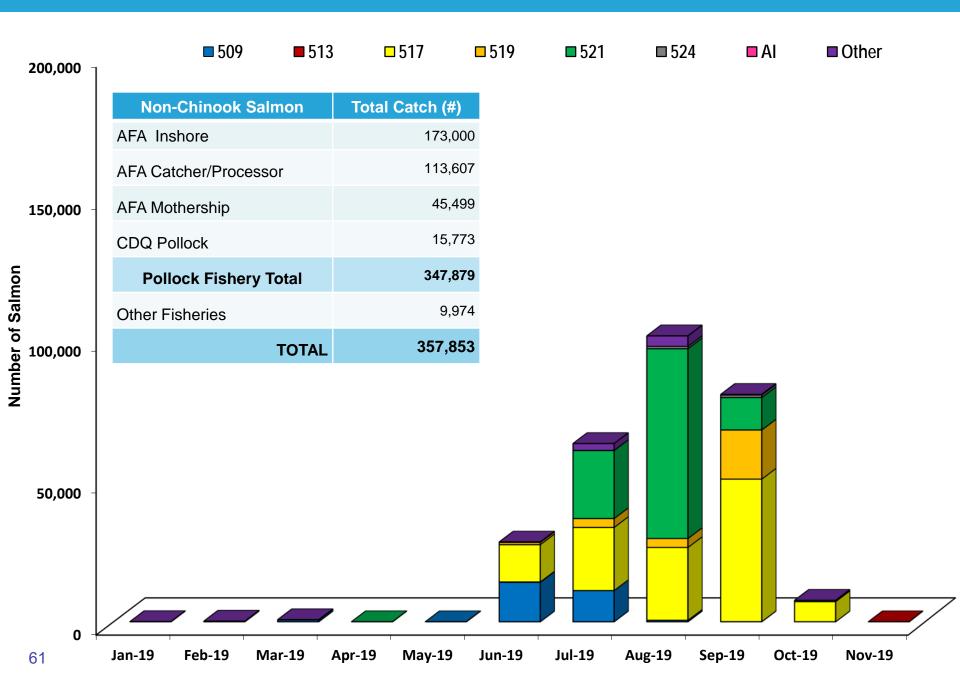
2019 Non-Pollock Fishery Chinook Salmon Incidental Catch by Fishery and Sector



BSAI Trawl Non-Chinook Salmon Incidental Catch



BSAI Trawl Non-Chinook Salmon Incidental Catch



Acknowledgements (BSAI and GOA)

Industry Reports:

Catcher vessels

- 1,267 unique vessels with approximately 12,548 landings to 75 unique processors Catcher processors
- 67 unique vessels fishing approximately 13,475 vessel days

Observer Program

- FMA staff
- All observers

Elandings Team

ADF&G, IPHC and Enforcement

Inseason Staff

- Mary Furuness
- Josh Keaton
- Obren Davis
- Steve Whitney
- Krista Milani (Dutch Harbor)

Information Services

- Application Development Staff
- Contractors

Permits Staff

Restricted Access Management

Catch accounting Staff

- Jennifer Mondragon
- Jason Gasper
- Cathy Tide
- Steve Lewis
- Maggie Chan
- Jennifer Watson
- Phil Ganz
- Vernon Shoemaker
- Bill Donaldson (Kodiak)