

# BSAI Pacific Cod Allocation Review



June 2019



# Outline of Presentation

- ▶ Introduction
  - ▶ Fisheries Allocation Policy Directive
  - ▶ Amendment 85 and BSAI groundfish FMP objectives
- ▶ BSAI Pacific cod environment
- ▶ Management of BSAI Pacific cod fishery
- ▶ Sector Profiles

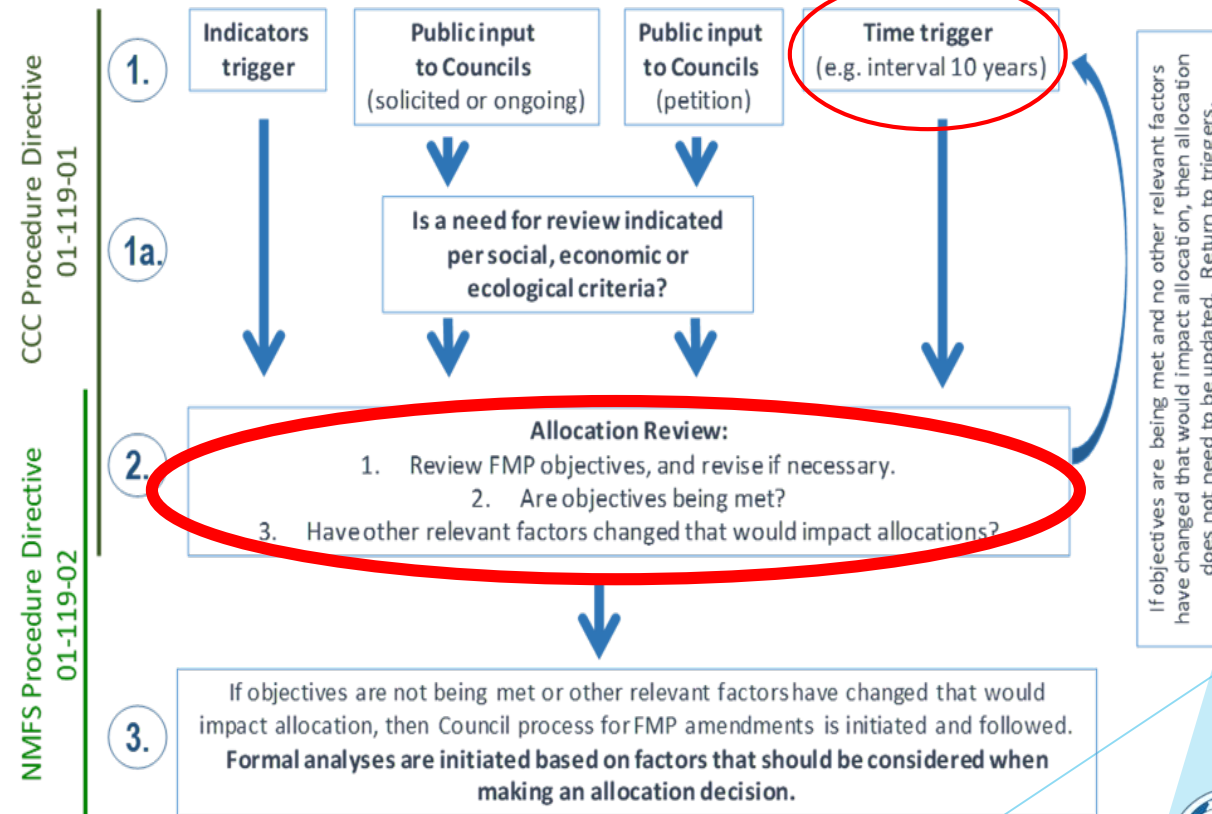


# Introduction

June 2017 Council adopted a 10-year review period for BSAI cod, GOA cod, and halibut catch share plan

- ▶ Based on NMFS issued Fisheries Allocation Policy Directive (July 2016), Council is required to conduct a periodic review of BSAI Pacific cod allocations every 10 years to ensure OY is being achieved under conditions
  - ▶ BSAI cod - 2019
  - ▶ GOA cod - 2020
  - ▶ Halibut catch share plan - 2021
- ▶ Goal: Assist Council in determining whether or not the development and evaluation of BSAI cod allocation alternatives are warranted

## Steps in Adaptive Management of Allocations



# Objectives

## Page 12

### ▶ Amendment 85

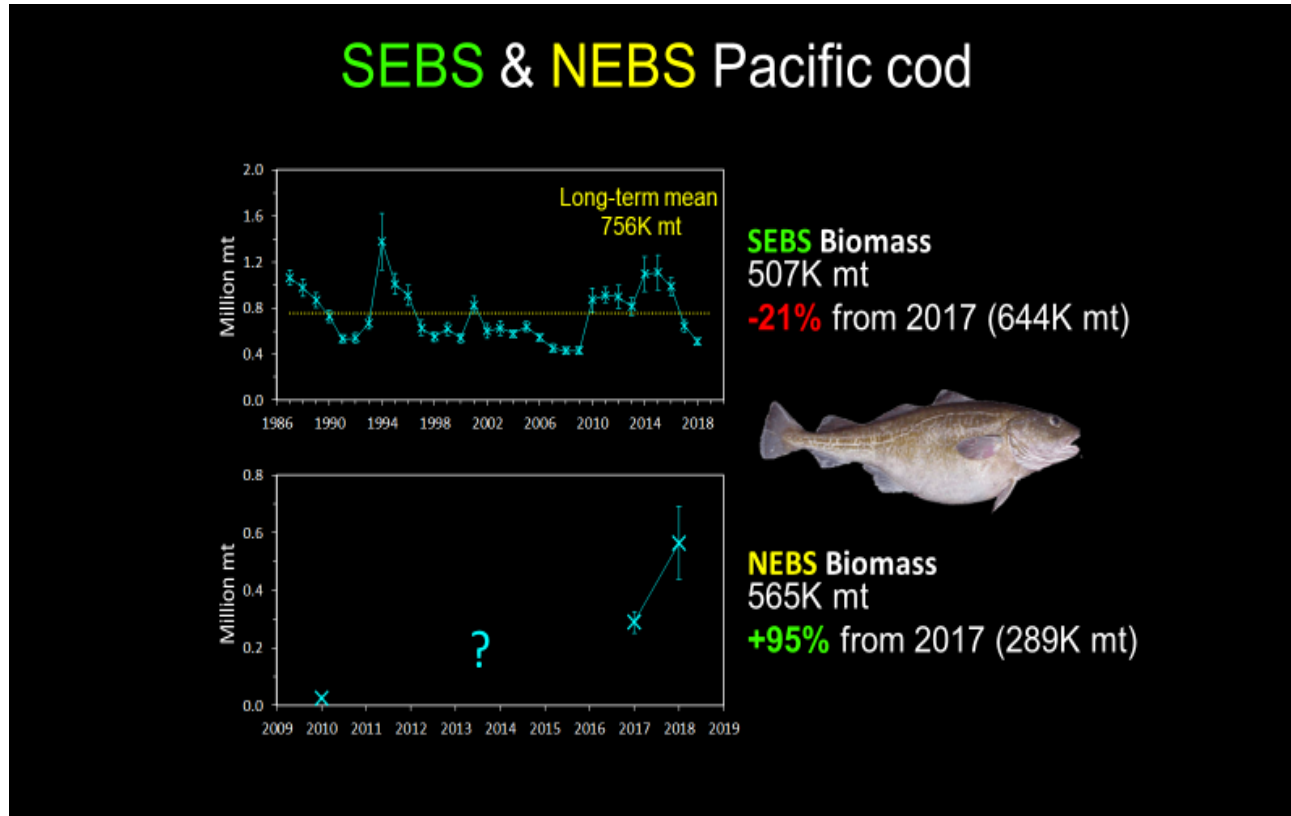
- ▶ 1. Establish allocations more closely reflect historical use
- ▶ 2. Consider catch history, socioeconomic, and community factors to include allocations to small boat sectors to expand entry-level and local opportunities
- ▶ 3. Reduce need for inseason reallocation during fishing year
- ▶ 4. Reduce uncertainty of yearly harvests within sectors caused by reallocations
- ▶ 5. Provide stability among sectors

### ▶ BSAI FMP

- ▶ 1. Promote sustainable fisheries and communities
  - ▶ Promote management measures that avoid significant disruption of social and economic structures
  - ▶ Promote fair and equitable allocation
- ▶ 2. Promote equitable and efficient use of fishery resource
  - ▶ Provide economic and community stability to harvesting and processing sectors
  - ▶ Develop management measures that consider efficient use of resource



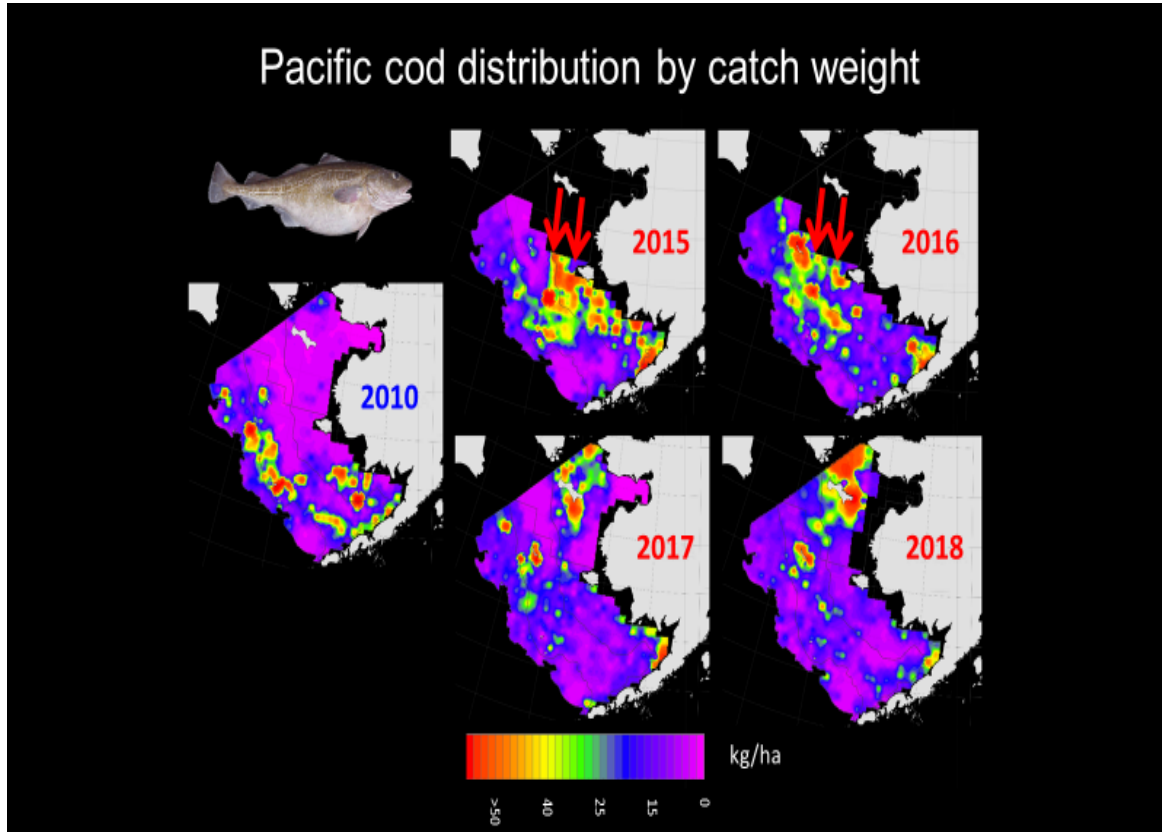
# BSAI Pacific Cod Environment (pages 13-15)



- ▶ In SEBS - survey biomass continued to decline in 2018
- ▶ In NBS - survey biomass almost doubled in 2018
- ▶ All combined - survey show lower sampling density in the NBS & EBS which point to a decline in numbers of cod but a slight increase in biomass



# BSAI Pacific Cod Environment



- ▶ Plan Team expressed considerable concern:
  - ▶ Overall observed population trends
  - ▶ Environment/ecosystem conditions with EBS Pacific cod
  - ▶ Some of the concerns are provided on page 15 of review



# BSAI Pacific cod fishery

## Management of the fishery

- ▶ Section 4.1 (page 16) provides general information on management of BSAI cod
  - ▶ Harvest specification process
  - ▶ Info on GHL (Section 4.1.4 provides more details)
  - ▶ CDQ allocations
  - ▶ Section allocations (9 sector allocations)
  - ▶ NMFS management of non-CDQ sector allocations

Sector	Amend. 24 1994	Amend. 46 1997	Amend. 64 2000	Amend. 77 2004	Amend. 85 2008
Jig	2.0	2.0	2.0	2.0	1.4
HAL/pot CV <60 ft LOA	44.0	51.0	0.7	0.7	2.0
HAL CV ≥60 ft LOA			0.2	0.2	0.2
HAL C/P			40.8	40.8	48.7
Pot CV ≥60 ft LOA			9.3	7.6	8.4
Pot C/P				1.7	1.5
AFA trawl C/P			54.0	23.5	23.5
Non-AFA trawl C/P	13.4				
Trawl CV	23.5	23.5			

# BSAI Pacific cod fishery

## Management of the fishery

- ▶ Seasonal apportionment (Section 4.1.1 on pages 18-19)
  - ▶ Section allocations are managed as the BSAI level
  - ▶ Since no sector allocations are area specific, there is no gear specific seasonal allowance by area
  - ▶ While overall guideline is 70:30, seasonal allowances due vary by gear type taking into account of 2015 Steller sea lion protection measures

Pot	Jan 1 – June 10 (51%), Sept 1 – Dec 31 (49%) Pot CVs <60' do not have seasonal allowances.	Trawl CV	Jan 20 – April 1 (74%), April 1 – June 10 (11%); June 10 – Nov 1 (15%)
HAL	Jan 1 – June 10 (51%), June 10 – Dec 31 (49%) HAL CVs <60' do not have seasonal allowances.	Trawl C/P	Jan 20 – April 1 (75%), April 1 – June 10 (25%); June 10 – Nov 1 (0%) (Amendment 80 changed to Dec 31 (0%) in 2015)
Jig	Jan 1 – Apr 30 (60%) Apr 30 – Aug 31 (20%) Aug 31 – Dec 31 (20%)		

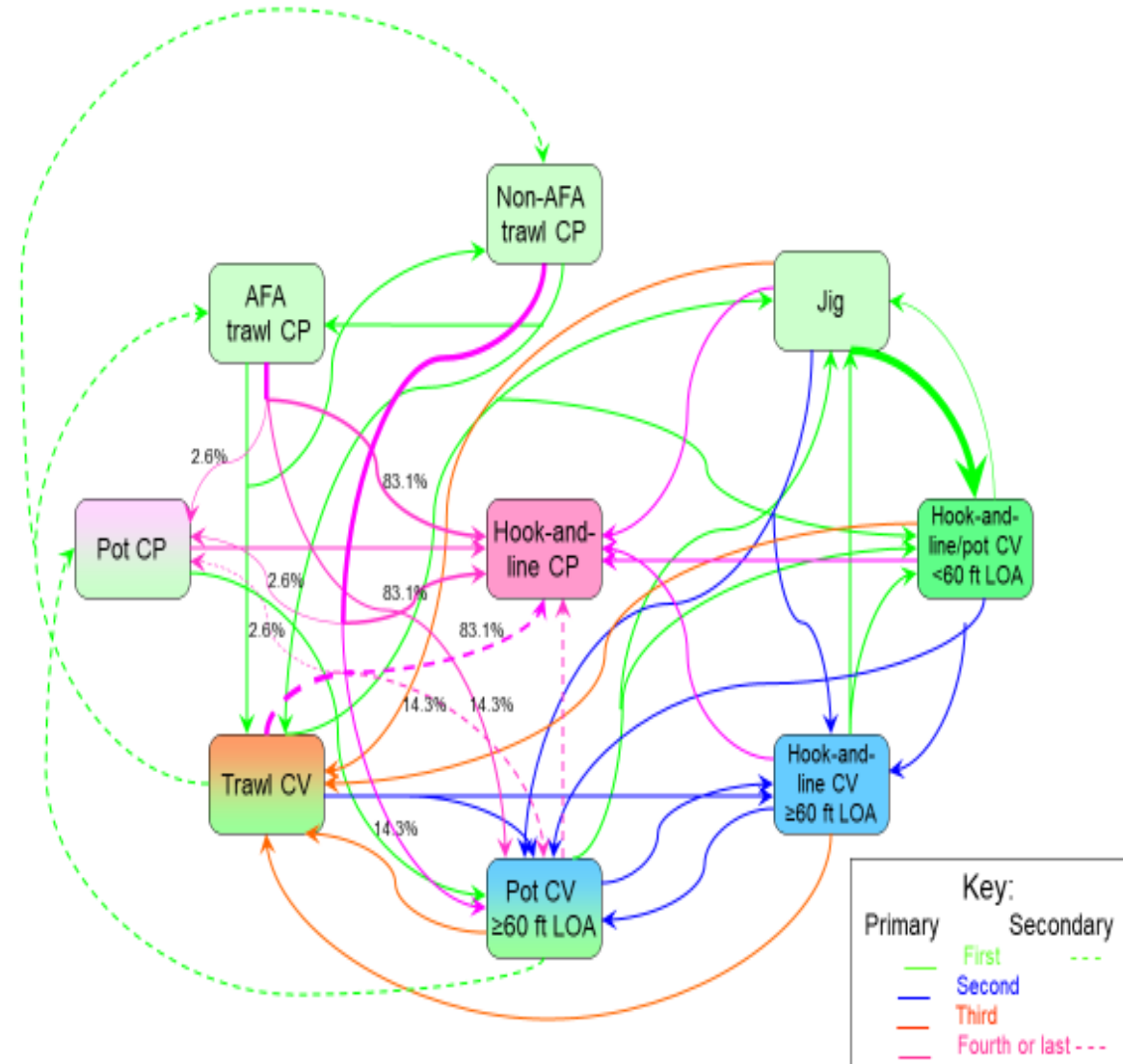




# BSAI Pacific cod fishery

## Management of the fishery

- ▶ Reallocation (Section 4.1.2 pages 19-21) provides general information on system of reallocation of cod (Table 4.5 page 21 provides reallocations amounts for 08, 09, 17, and 18 by sector)
  - ▶ With the exception of jig, unused seasonal apportionment to a sector is reallocated to next season
  - ▶ Near year of year, NMFS determines unused cod and reallocates based on system
    - ▶ Jig or HAL/Pot  $\leq 60'$  CV to jig or HAL/Pot  $\leq 60'$  CV or both first; then HAL  $\geq 60'$  CV or Pot  $\geq 60'$  CV; then trawl CV, and last HAL C/P
    - ▶ Pot  $\geq 60'$  CV to pot C/P, and from pot C/P to Pot  $\geq 60'$  CV, then HAL C/P
    - ▶ Trawl CV or AFA C/P to other trawl sectors before: 83.1% to HAL C/P; 2.6% to pot C/P; and 14.3% to Pot  $\geq 60'$  CV



# BSAI Pacific cod fishery

## Management of the fishery

- ▶ Section 4.1.4 (pages 22-26) provides information on GHL fisheries
- ▶ AI GHL started in 2006
  - ▶ Currently 31% of AI ABC
  - ▶ Includes step-up of 4% if 90% harvested to max of 39% of AI ABC
  - ▶ Capped at 15 million pounds.
  - ▶ Includes 4% step-down if less than 90% not harvest two consecutive years, but not below 15% of AI ABC
  - ▶ Mostly harvested by trawl and pot gears
- ▶ DHS GHL started in 2014
  - ▶ Currently 8% of BS ABC
  - ▶ Includes step-up of 1% (if 90% harvested) until 15% in 2026
  - ▶ Open to vessels 58' or less using pot gear, with a limit of 60 pots per vessel
  - ▶ Season opens 7 days after federal **HAL/Pot** ≤ **60' CV** sector closes
- ▶ DHS Jig GHL fishery started in 2019
  - ▶ Currently 45 mt
  - ▶ Begins May 1

# BSAI Pacific cod fishery

## Management of the fishery

- ▶ GHL for the AI and BS have a reciprocal reduction in available BSAI cod sector allocation
- ▶ Table 4-9 on page 26 highlights the reduction in sector allocations for 2019

Sectors	Reduction in 2019 non-CDQ total BSAI TAC (mt) due to new 2019 GHL
Trawl CV	743
HAL CV $\geq$ 60	7
Pot CV $\geq$ 60	282
HAL/Pot CV $<$ 60	67
Jig	47
AFA C/P	77
AM80	451
Pot C/P	50
HAL C/P	1,637
<b>Total</b>	<b>3,362</b>

Source: NMFS, Sustainable Fisheries

# BSAI Pacific cod fishery

## Management of the fishery

- ▶ Section 4.1.5 (page 27) provides information on the parallel fishery
  - ▶ In the BS and AI, vessels can fish inside state water under federal TAC
  - ▶ Vessels can participate with or without federal permitting (FFP or LLP)
  - ▶ State does not differentiate between CVs and C/Ps so vessels can participate as long as either the C/P or CV sector is open for the gear type and vessel length
  - ▶ All catch in parallel fishery comes off federal TAC
  - ▶ Currently the HAL/Pot  $\leq$  60' CV sector vessels are the primary participants
    - ▶ Harvest accrues towards their sector allocation and reallocations must first cover any overage harvested by these vessel for re-opening the federal fishery for the sector

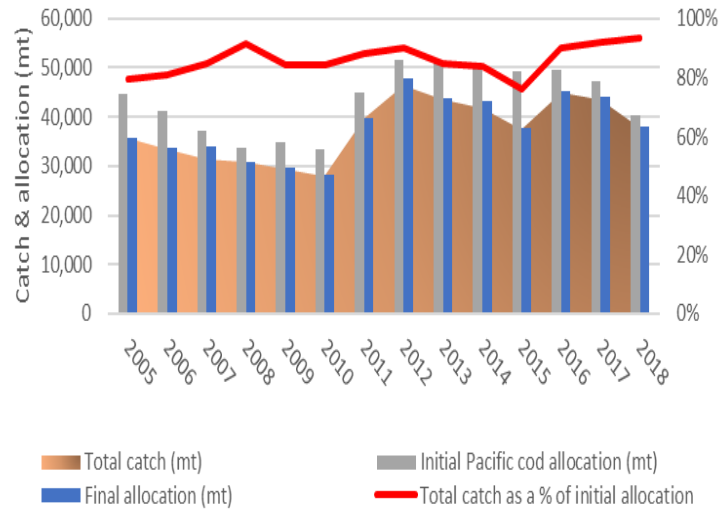
# BSAI Pacific cod fishery

## Management of the fishery

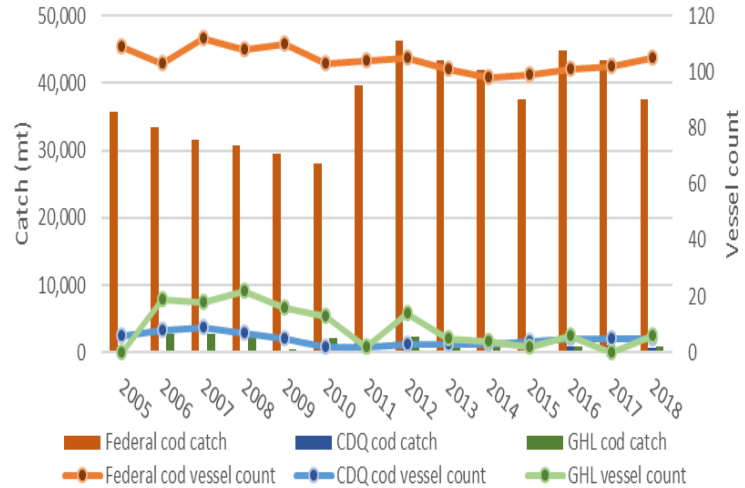
- ▶ Section 4.1.6 (pages 27-30) provides information on the AI set-aside
  - ▶ This same information is included in agenda D3, so will provide the information during that agenda item
- ▶ Section 4.1.7 (pages 30-31) provide information in number of LLP licenses issues for the BSAI by endorsement for 2018

# Trawl CV

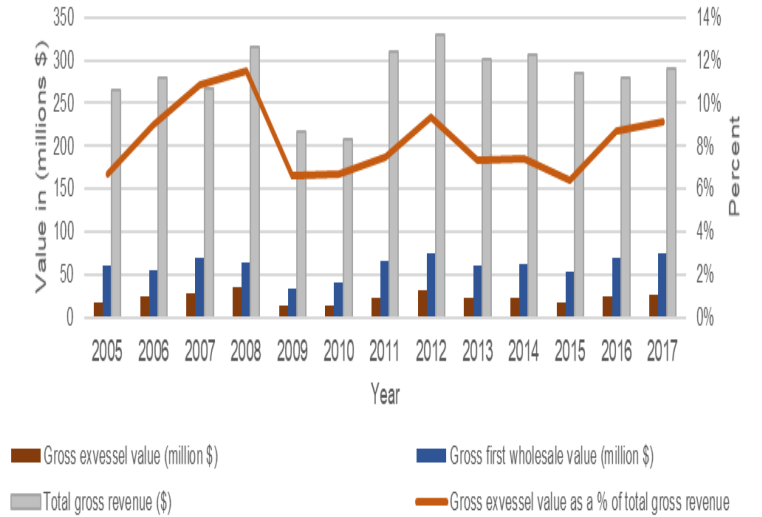
## Catch and allocations



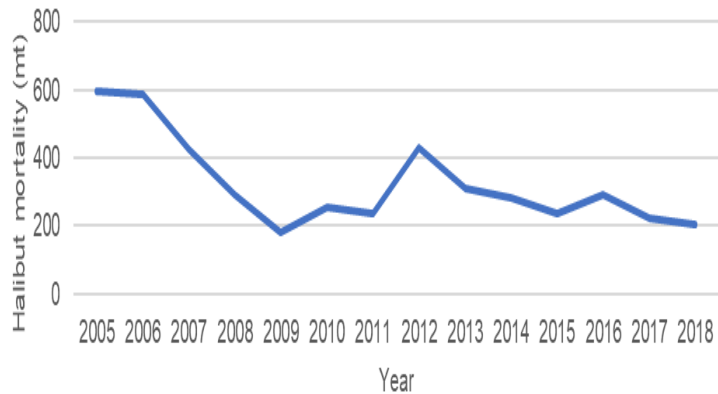
## Catch and vessel count



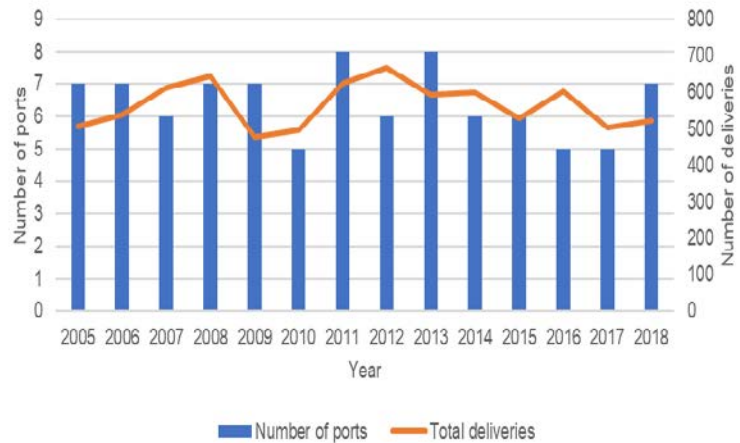
## Pacific cod value



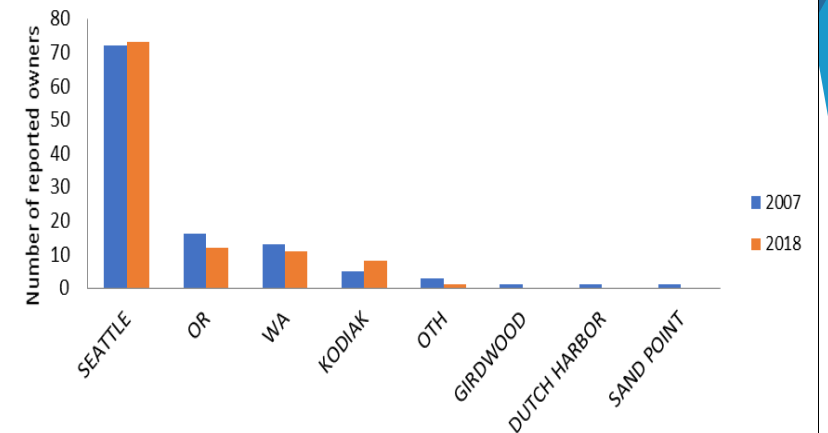
## Halibut mortality (mt)



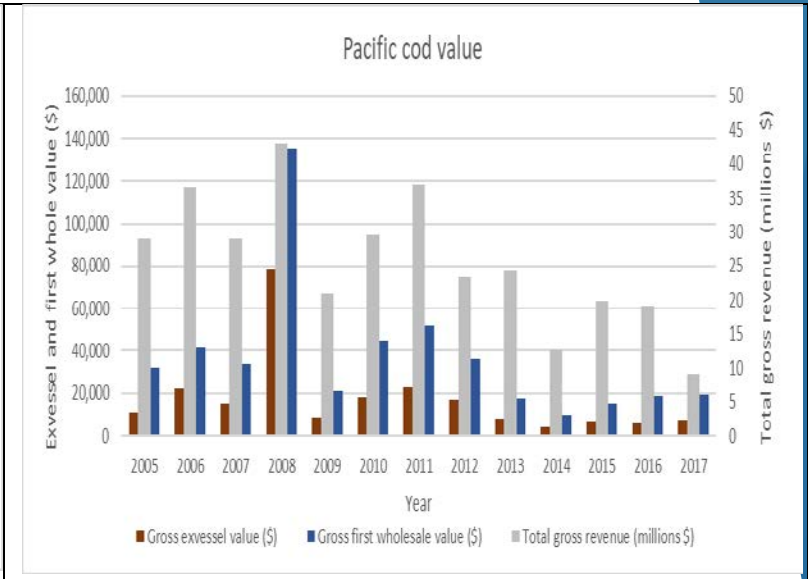
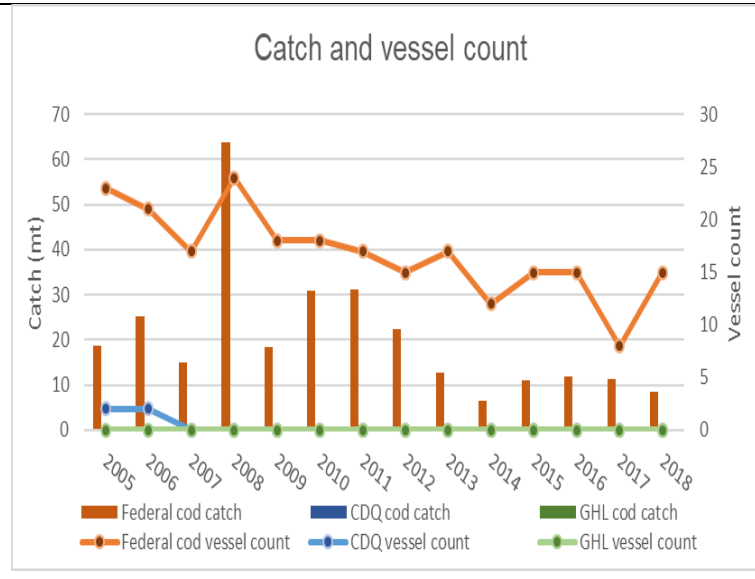
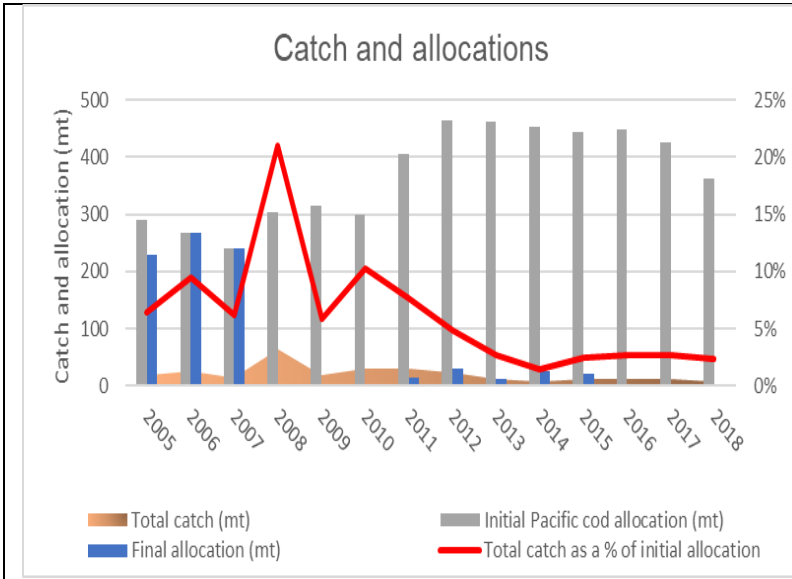
## BSAI Pacific cod deliveries



## Owner city

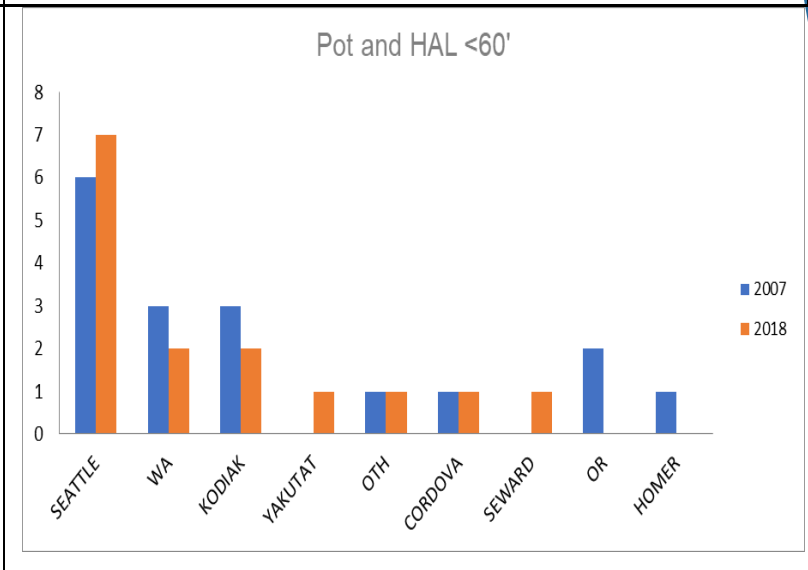


# HAL CV ≥ 60'

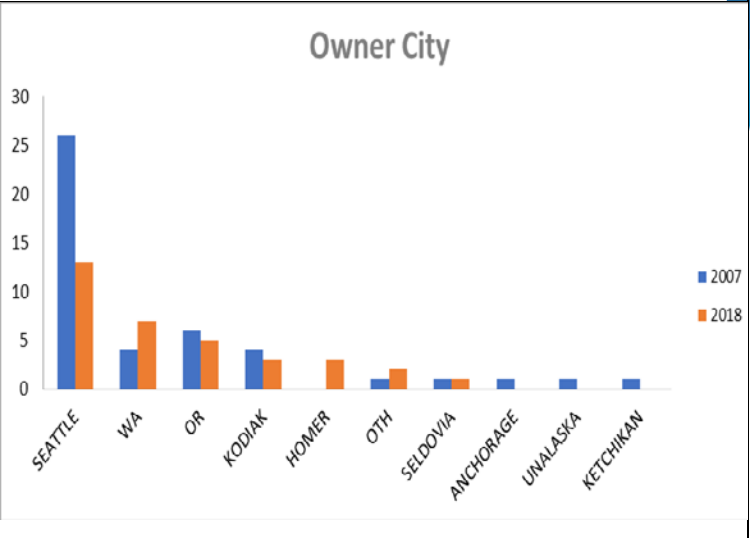
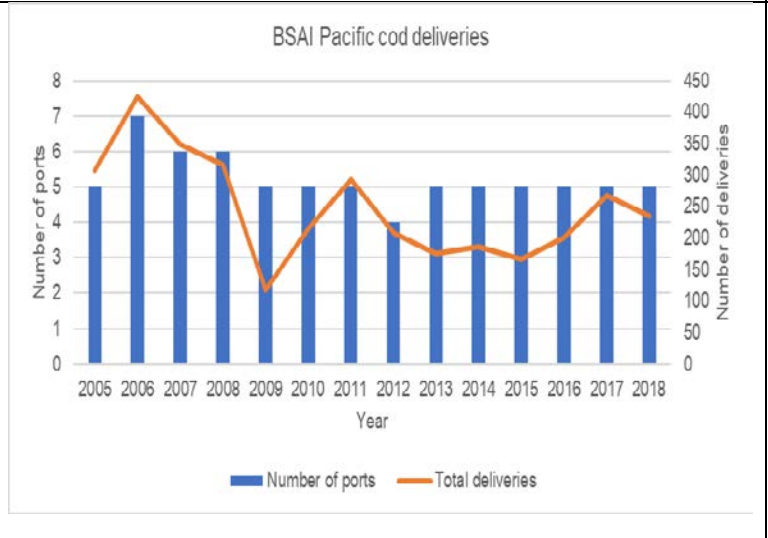
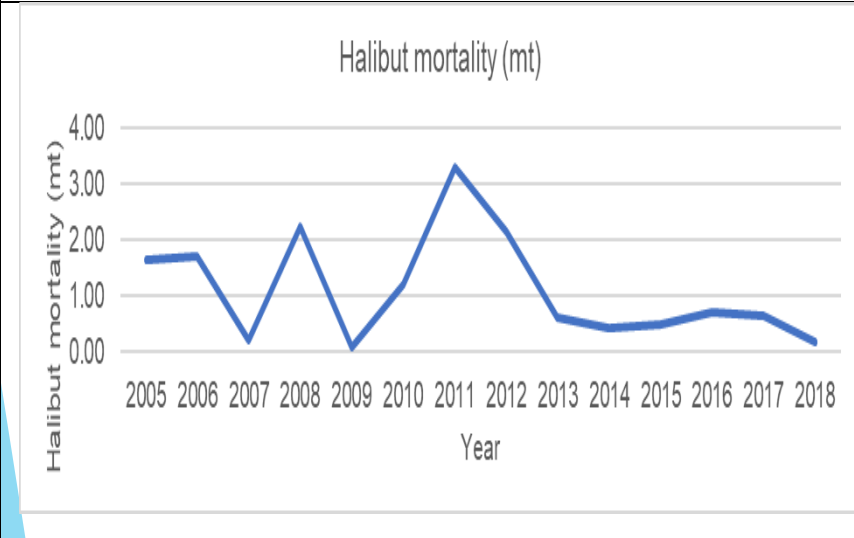
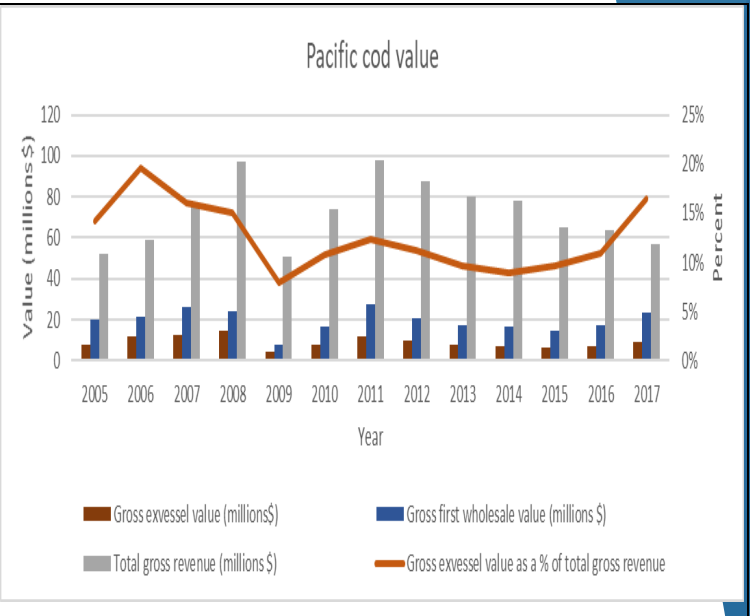
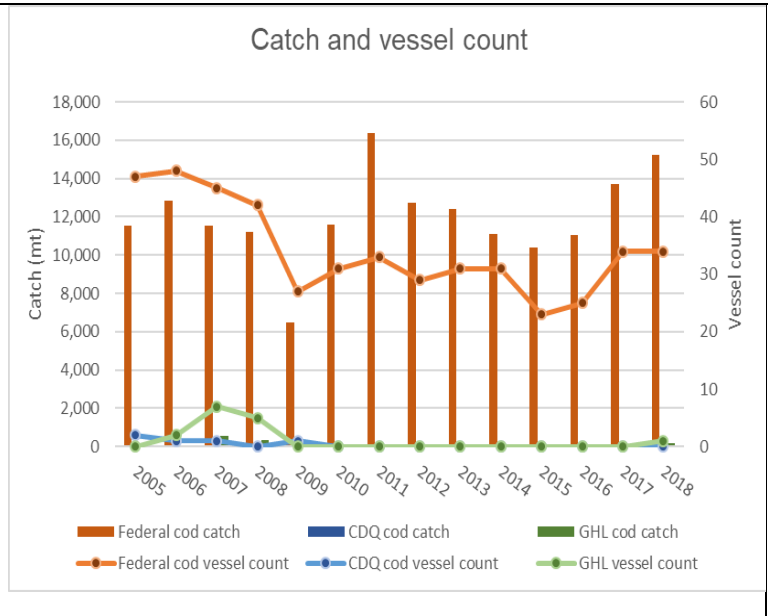
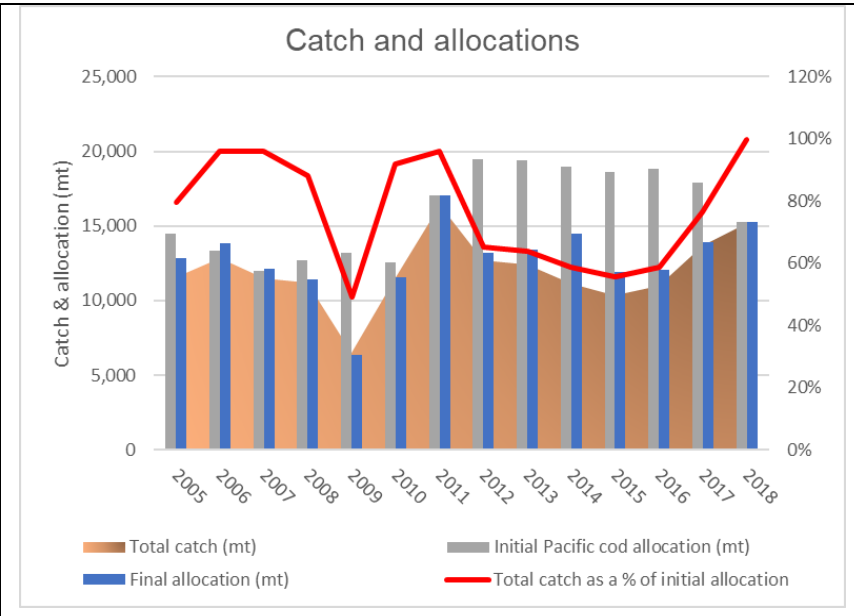


**PSC for target BSAI Pacific cod is confidential therefore cannot be reported**

**Delivery data for target BSAI Pacific cod is confidential and therefore cannot be reported**



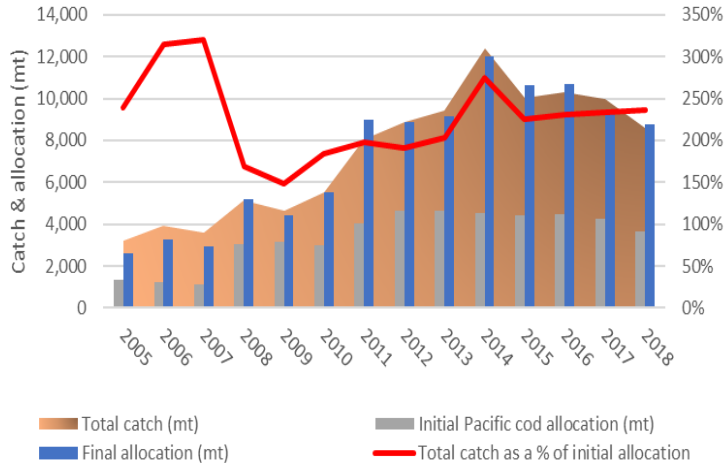
# Pot CV $\geq 60'$



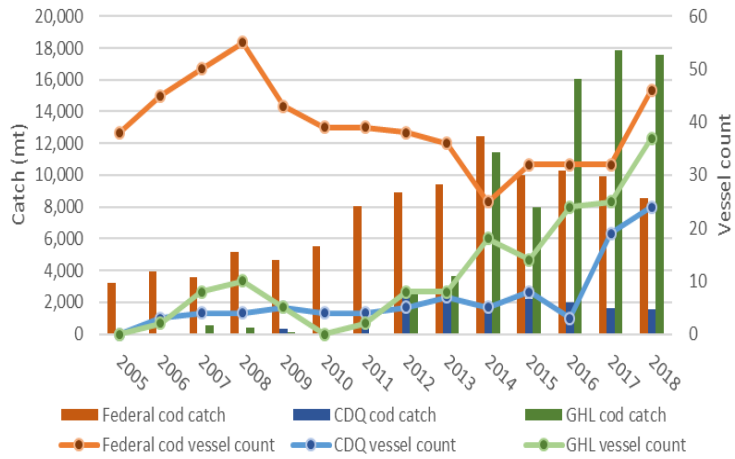


# HAL/Pot CV<60'

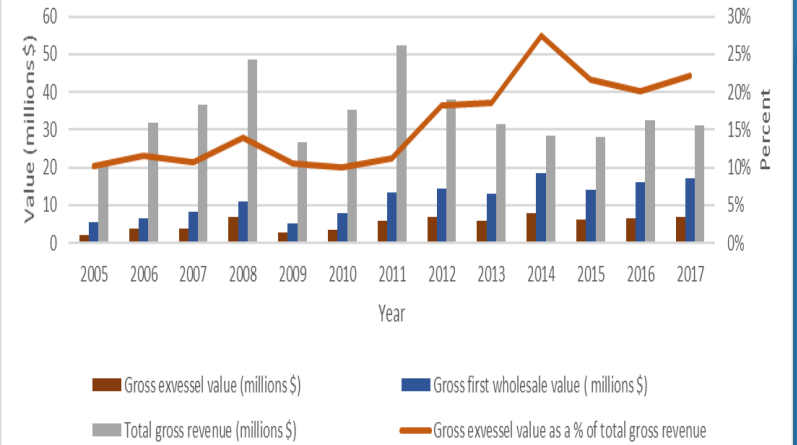
### Catch and allocations



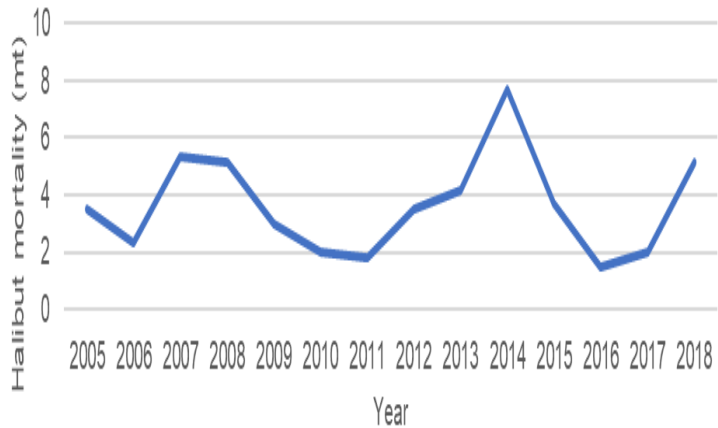
### Catch and vessel count



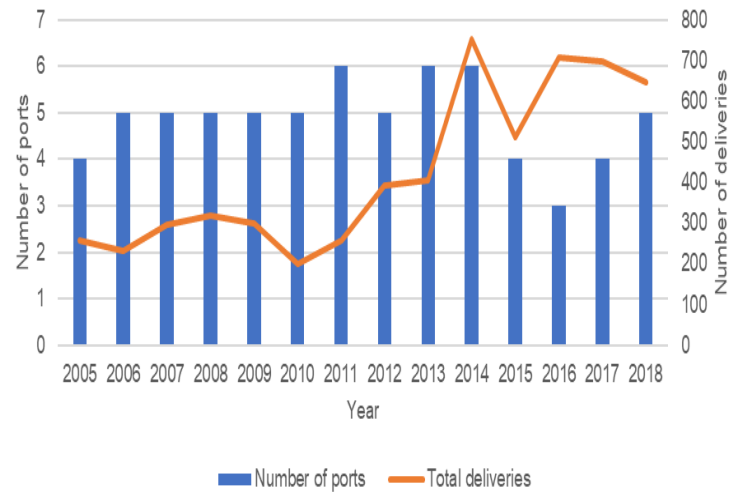
### Pacific cod value



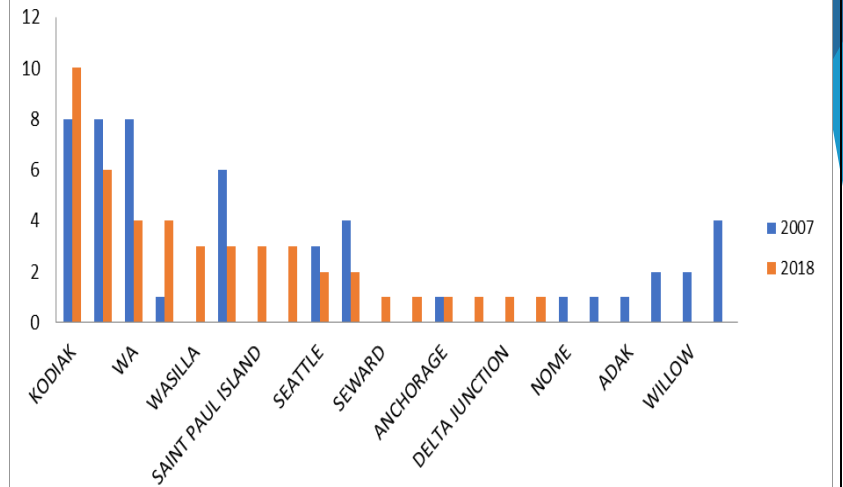
### Halibut mortality (mt)



### BSAI Pacific cod deliveries

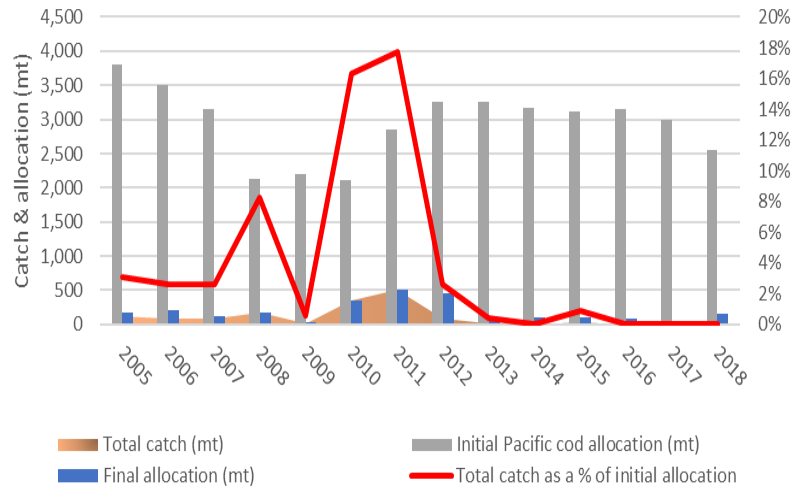


### Owner City

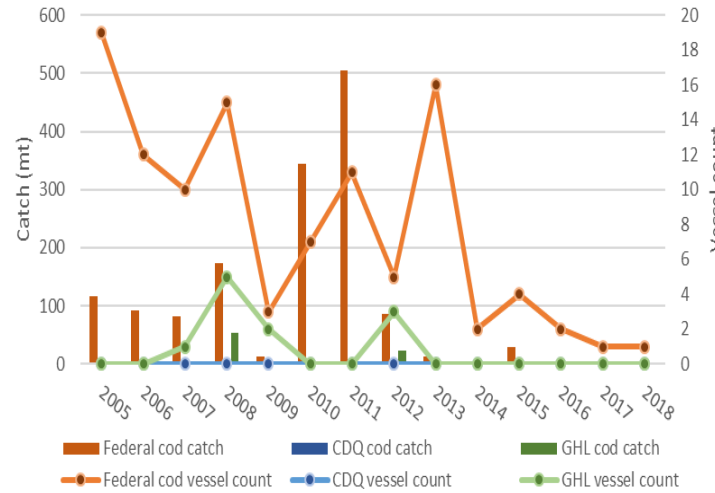


# Jig

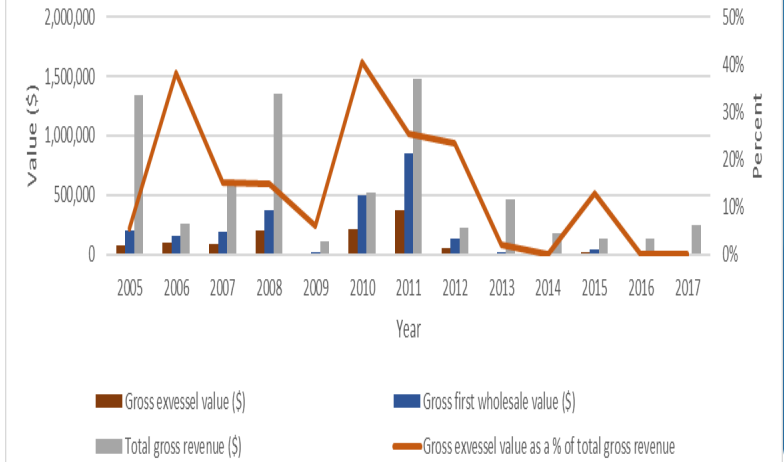
### Catch and allocations



### Catch and vessel count

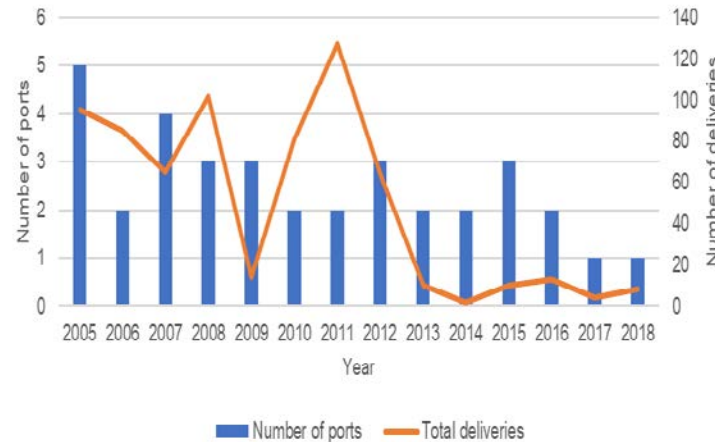


### Pacific cod value

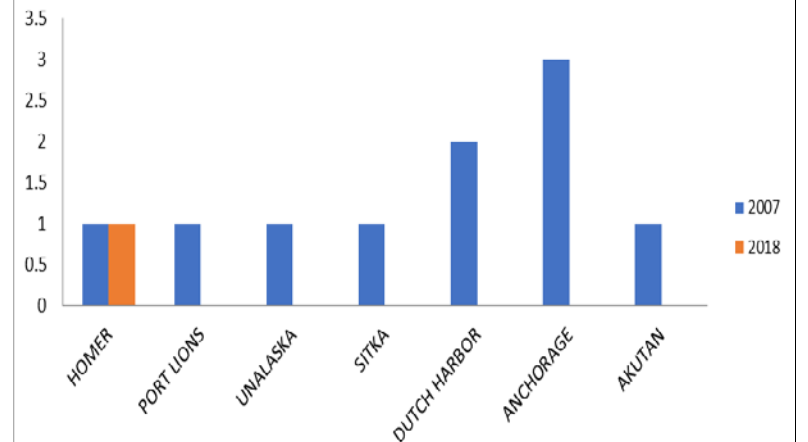


**Jig vessels are exempt from PSC limits and since jig vessels do not carry observers there is no halibut, crab, and salmon bycatch data collected.**

### BSAI Pacific cod deliveries

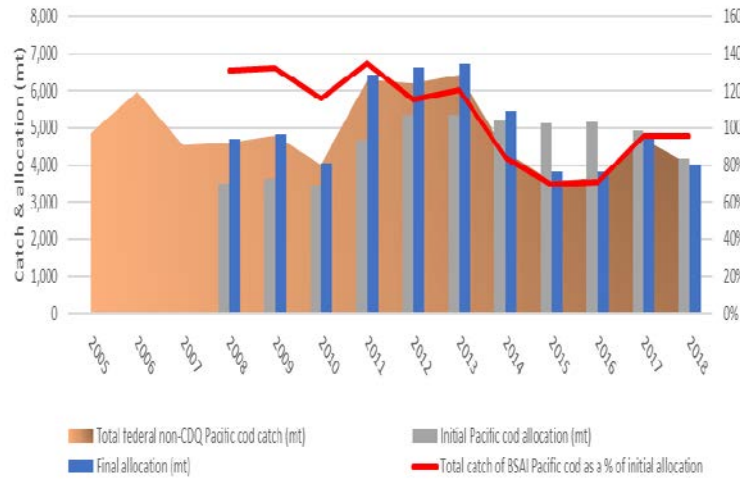


### Owner City

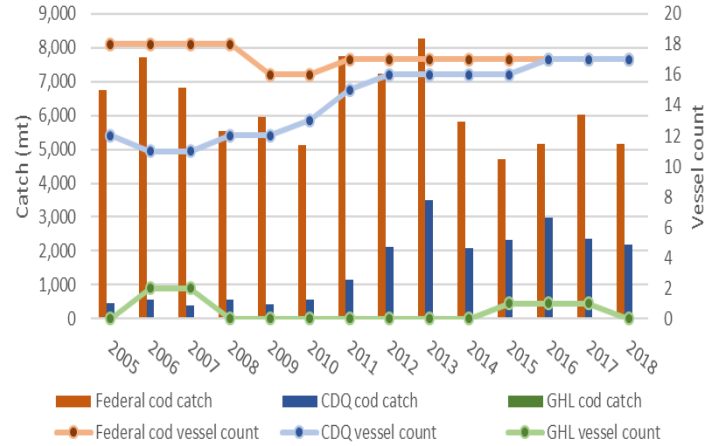


# AFA C/P

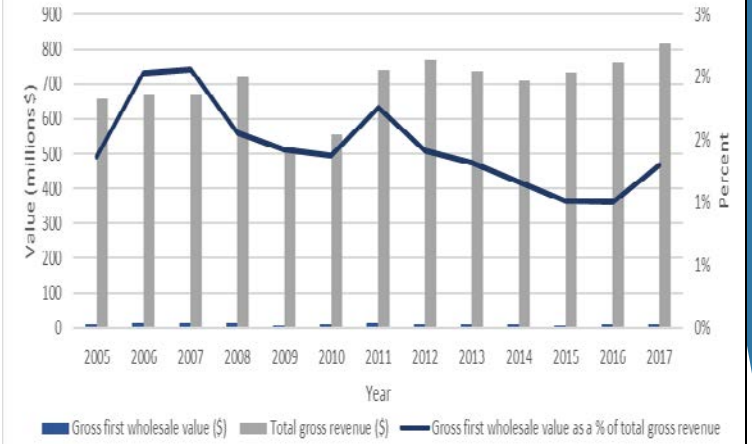
### Catch and allocations



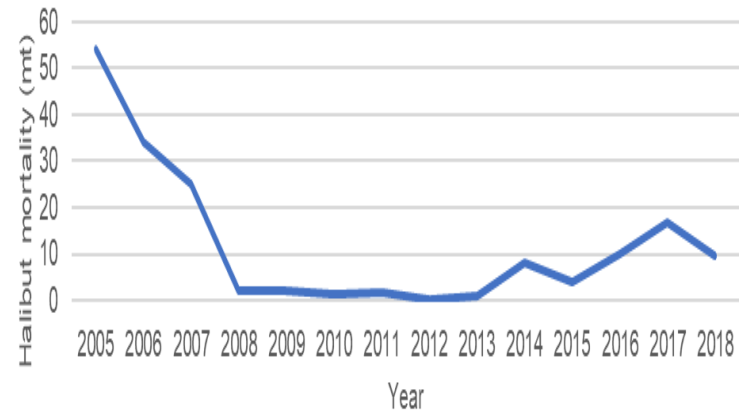
### Catch and vessel count



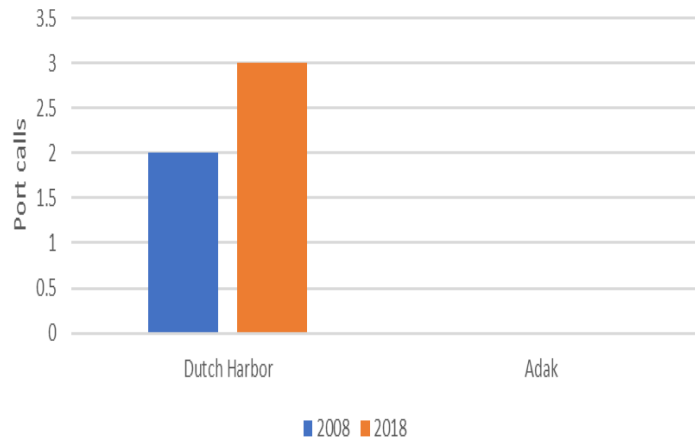
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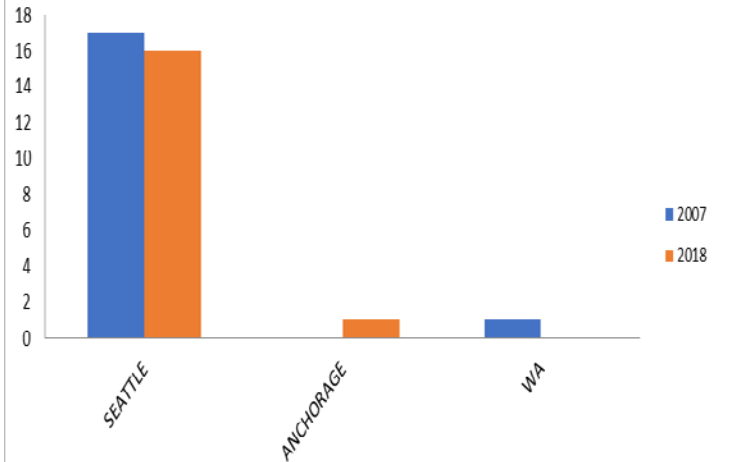
### Halibut mortality



### Number of port calls

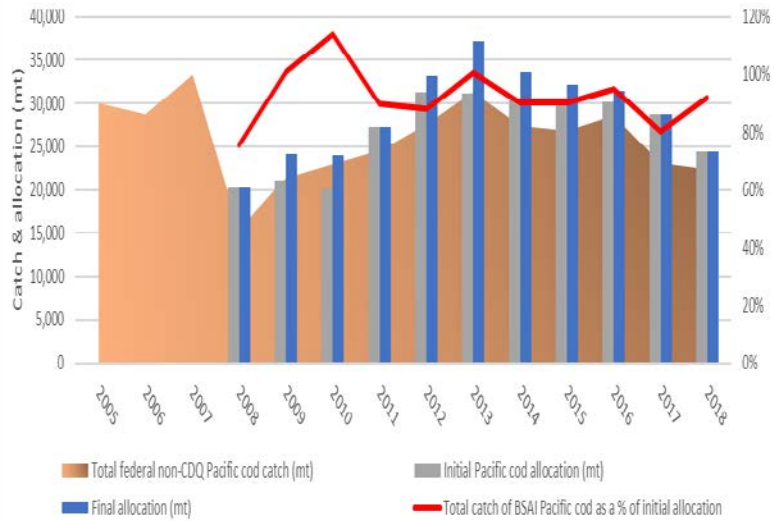


### Owner City

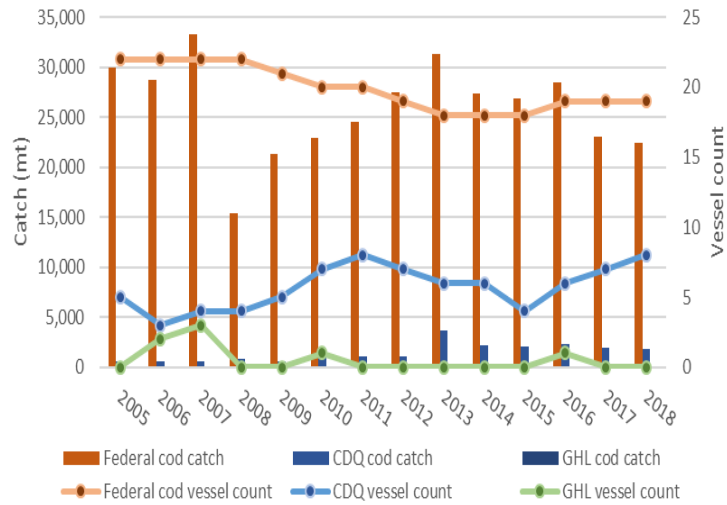


# AM80

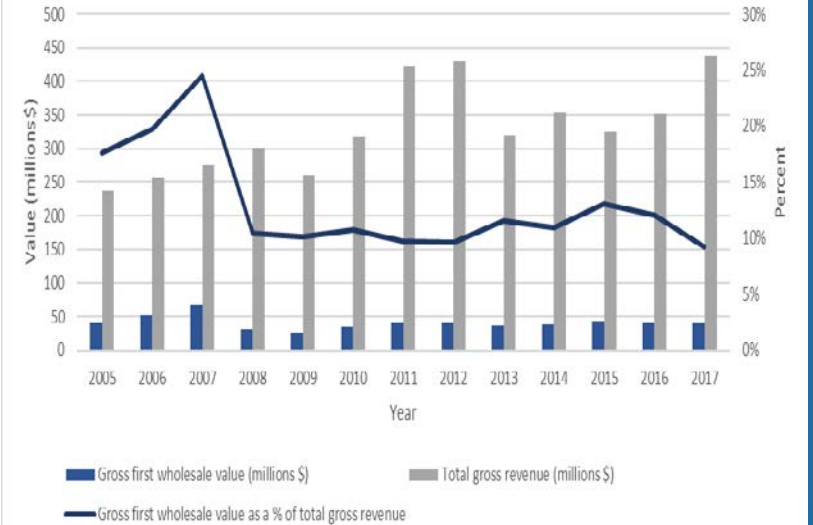
### Catch and allocations



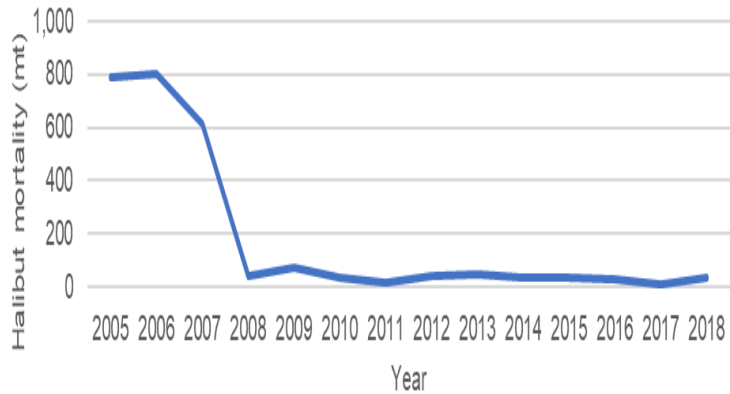
### Catch and vessel count



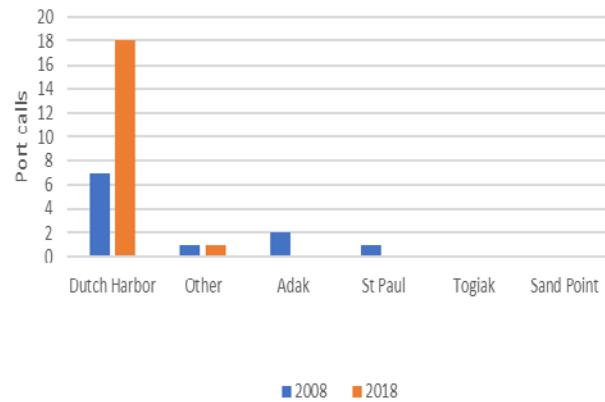
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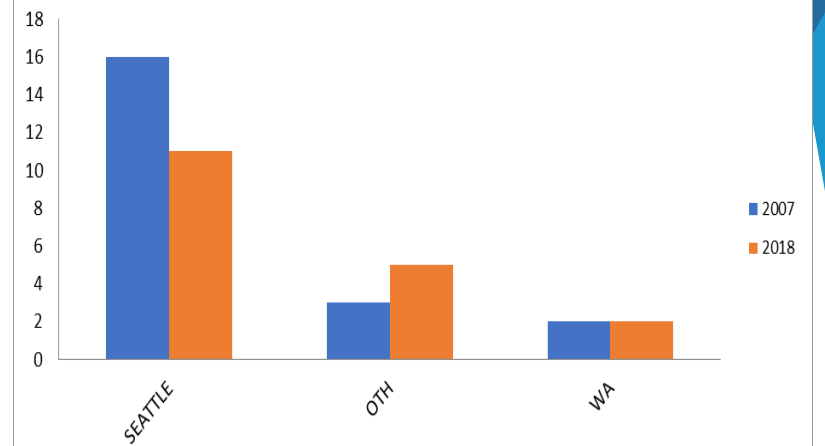
### Halibut mortality



### Number of port calls

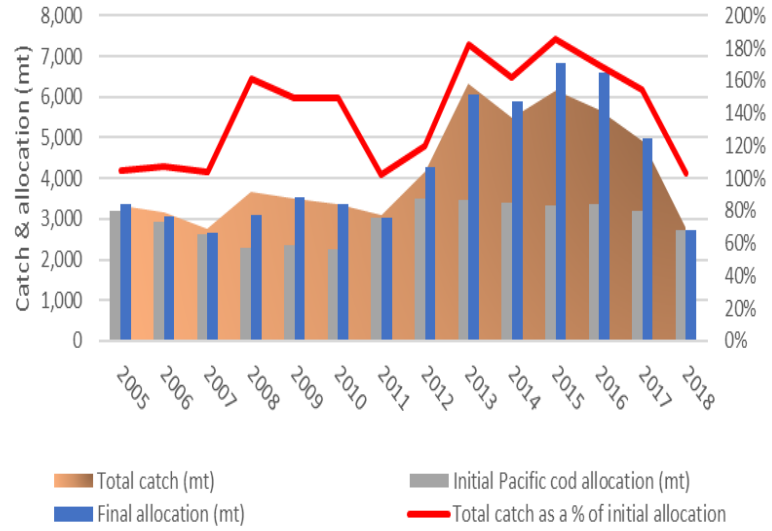


### Owner City

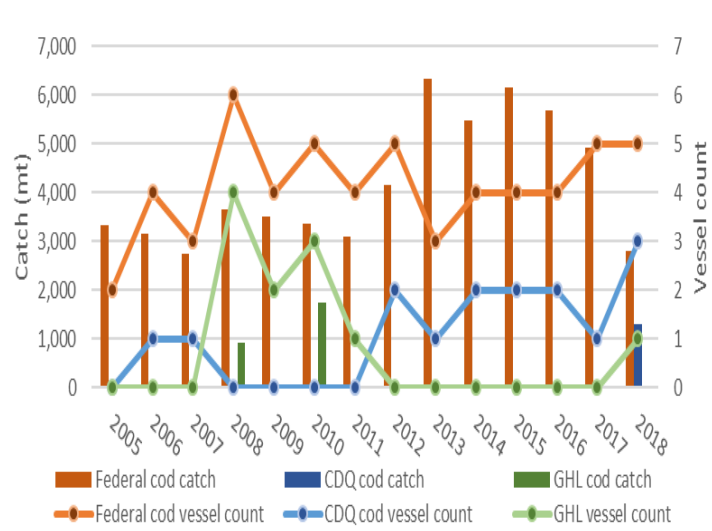


# Pot C/P

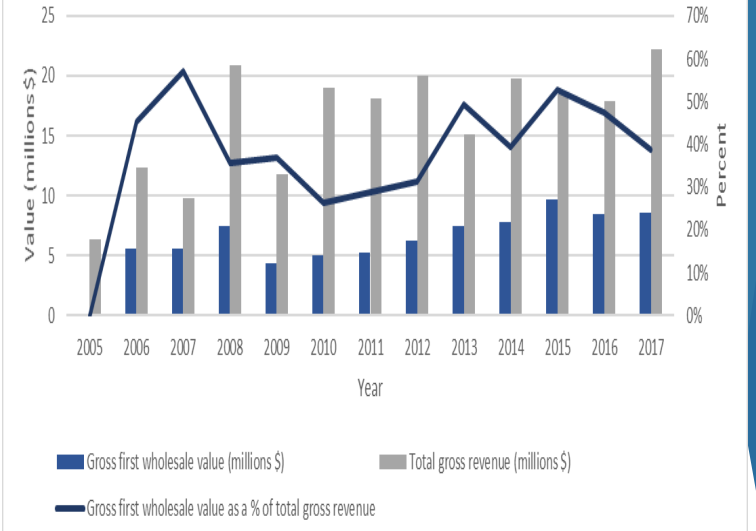
### Catch and allocations



### Catch and vessel count



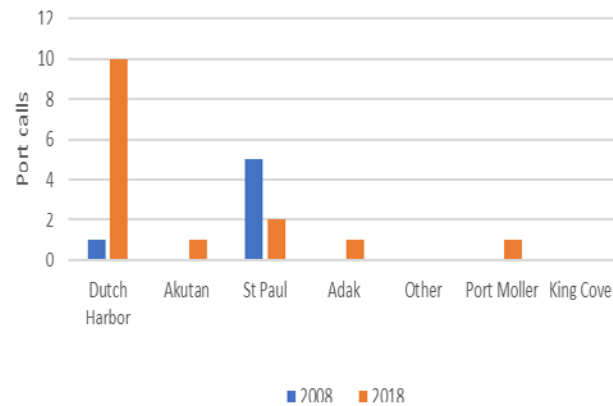
### Pacific cod value



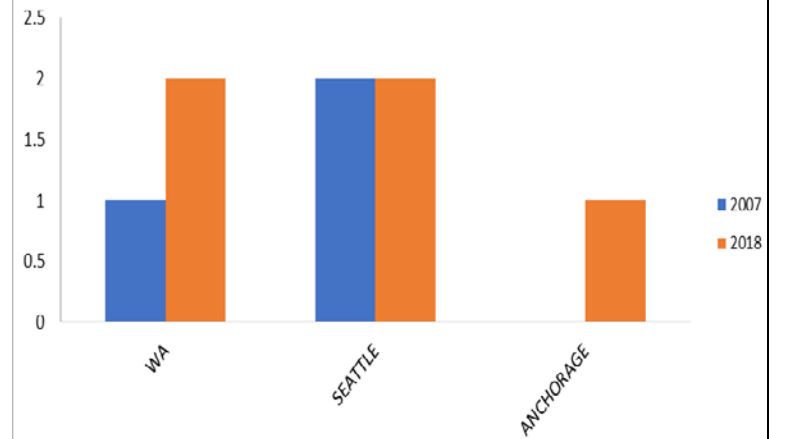
### Halibut mortality



### Number of port calls

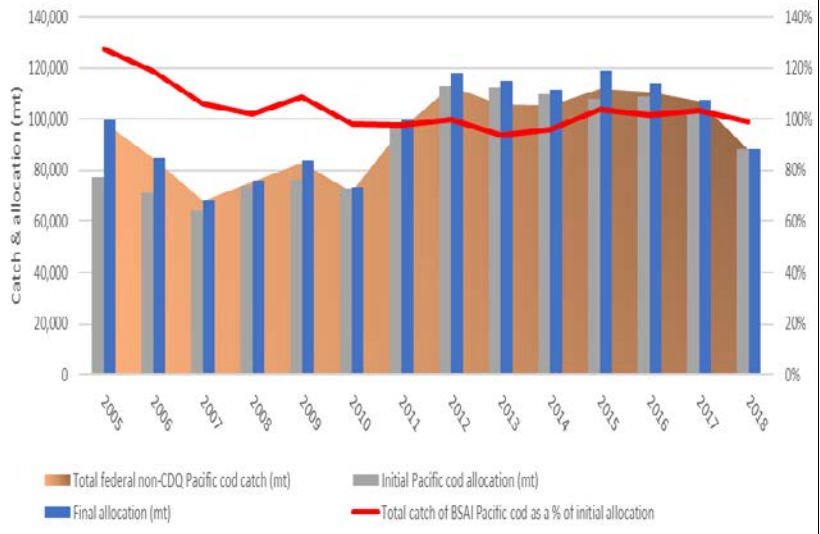


### Owner City

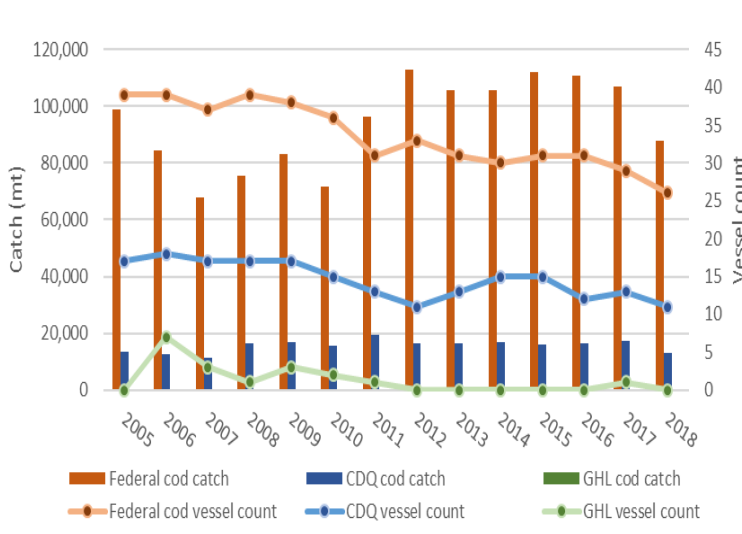


# HAL C/P

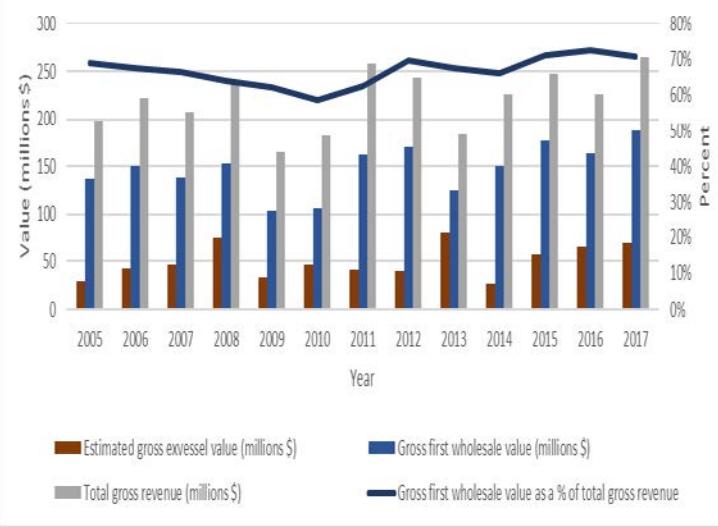
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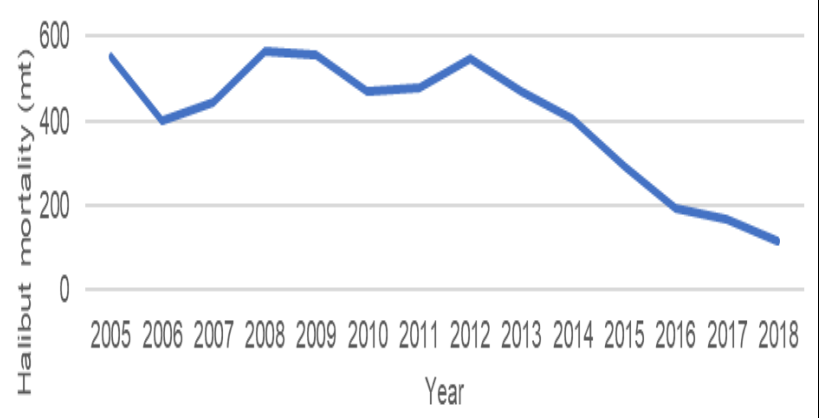
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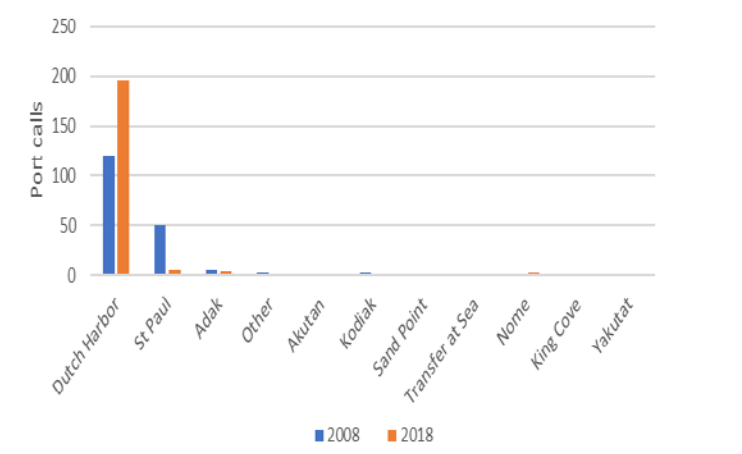
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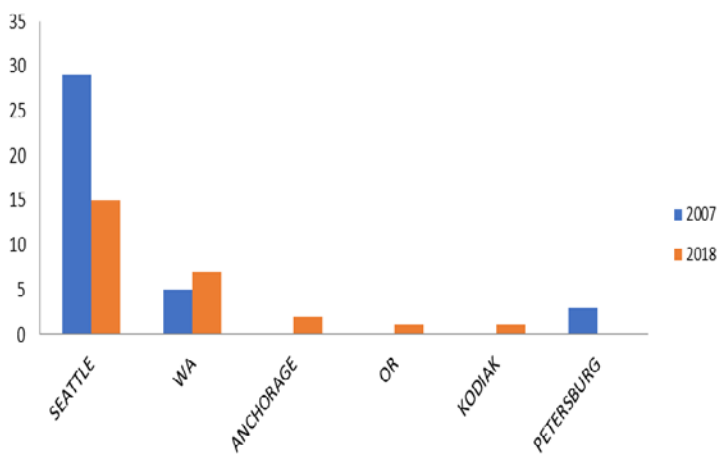
### Halibut mortality (mt)



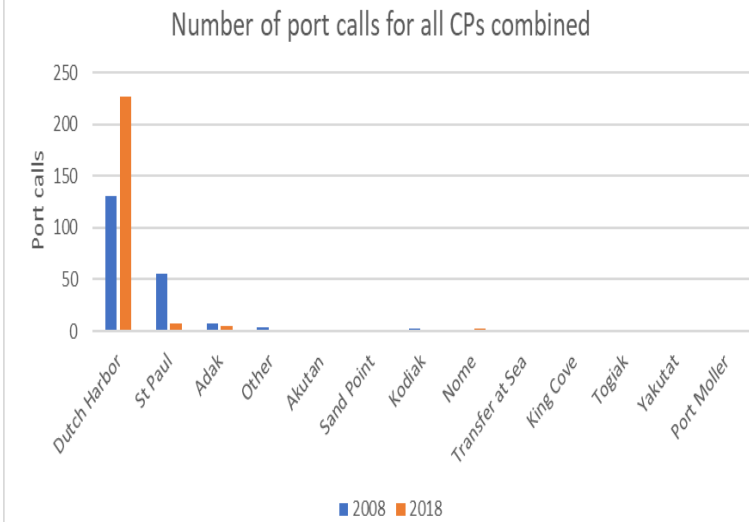
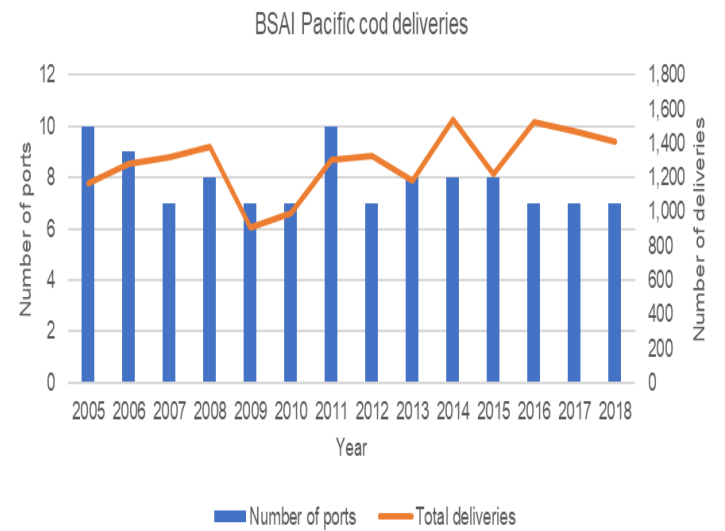
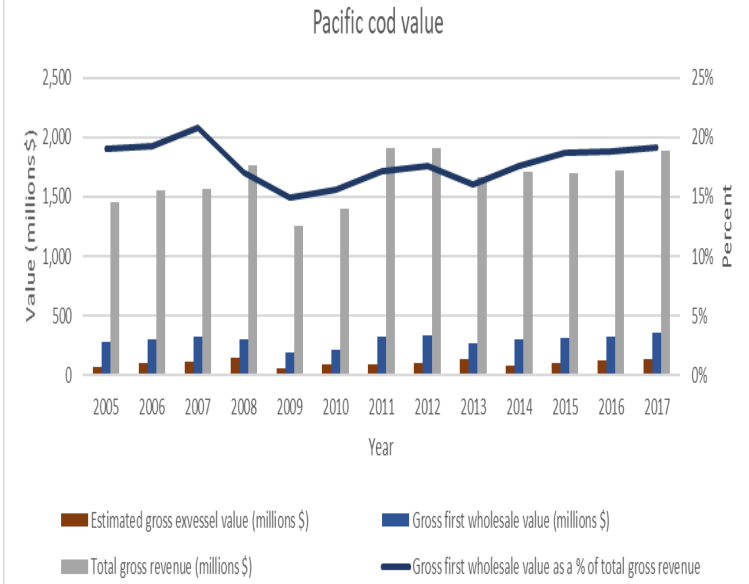
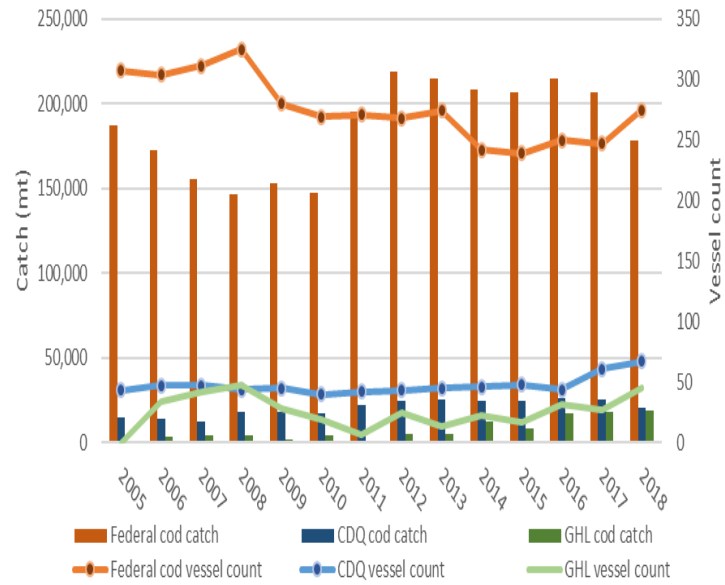
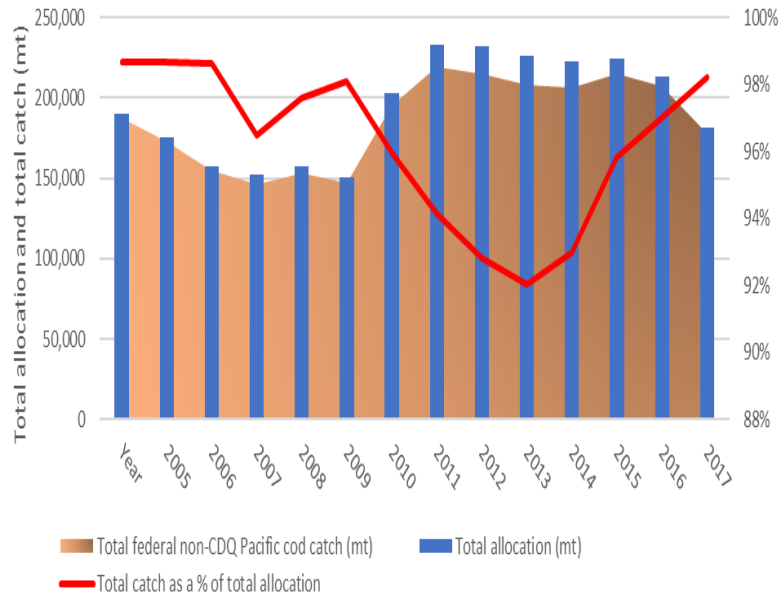
### Number of port calls



### Owner City



# All sectors



# Summary of Allocation Review

- ▶ Sectors that routinely harvest their allocation: HAL/pot CV < 60', AFA trawl C/P, pot C/P, & HAL C/P
- ▶ The other sectors that do not routinely harvest their initial allocation: Trawl CV, HAL CV ≥ 60', pot CV ≥ 60', jig, & AM80
  - ▶ Likely numerous factors hampering full harvest of initial allocation:
    - ▶ Lack of participation
    - ▶ Hard cap management (AM80 only)
    - ▶ Difficulty harvesting all C-season Pacific cod due to less aggregation
    - ▶ World market conditions
    - ▶ Level of BSAI Pacific cod TAC
  - ▶ AM85 designed reallocation hierarchy of unharvested BSAI Pacific cod has been successful
- ▶ Combined, AM85 appears to have provided Council intended stability which reduced disruptions and improved social and economic structures all while providing entry level and small vessel opportunities





# Next Step for Allocation Review

- ▶ If Council determines that AM85 and appropriate FMP objectives are still being met, the allocation review is complete
  - ▶ Council established 10-year trigger is reset
- ▶ If Council deems the AM85 or appropriate FMP objectives are no longer being met, or the Council uncertain how changes in other relevant factors may impact their objectives for sectors allocation
  - ▶ Council could initiate a process to consider whether an FMP amendment to develop new sector allocations and/or modify objectives
- ▶ Finally, the policy decision to initiate new allocations is not the only approach to address the changing BSAI Pacific cod fishery
  - ▶ Council continues to adjust management: AM113 and AM119 (limit C/Ps acting as mothership when receiving BSAI Pacific cod from trawl CVs)
  - ▶ Council also has tasked staff with BSAI cod trawl CV management scoping paper, BSAI cod pot CV management discussion paper, BS cod pot CP participation discussion paper, stranded BSAI Pacific cod discussion paper, and BSAI parallel waters limitation initial review



# Questions?

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