

# **NOAA** FISHERIES

Alaska Fisheries Science Center



# Economic Status of the Groundfish Fisheries off Alaska, 2020

Ben Fissel AFSC Economics and Social Sciences Research Program (ESSRP)

Feb. 2, 2022

# Structure of the Economic SAFE

# **Economic Status Report, 2020:**

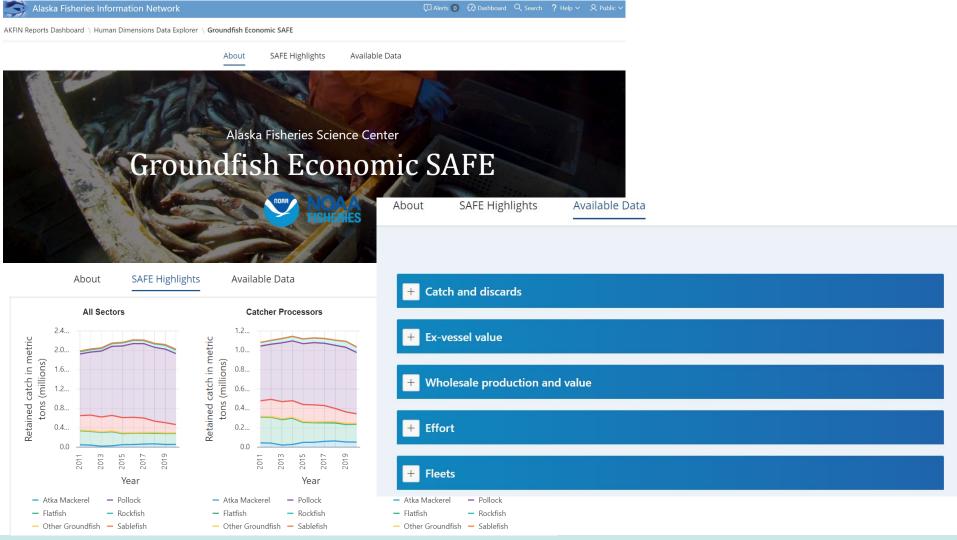
- Executive Summary: 2020 highlights
  - Report Card Metrics
  - Plan Team Reports
- Overview of the Economic Data Tables
- Economic Data Tables
  - All Alaska summary Tables (1-9)
  - BSAI data Tables (10-25)
  - GOA data Tables (26-41)
  - Halibut data Tables (H1-H10).

Tables primarily cover: Retained catch, ex-vessel value and prices, first-wholesale production and prices, vessel counts, and fishing and crew weeks.



# Where to find the economic groundfish data

https://reports.psmfc.org/akfin/f?p=501:2001





#### AKFIN/AFSC Human Dimensions of Fisheries Data Explorer

https://reports.psmfc.org/akfin/f?p=501:2000

#### **Economic Status Reports**

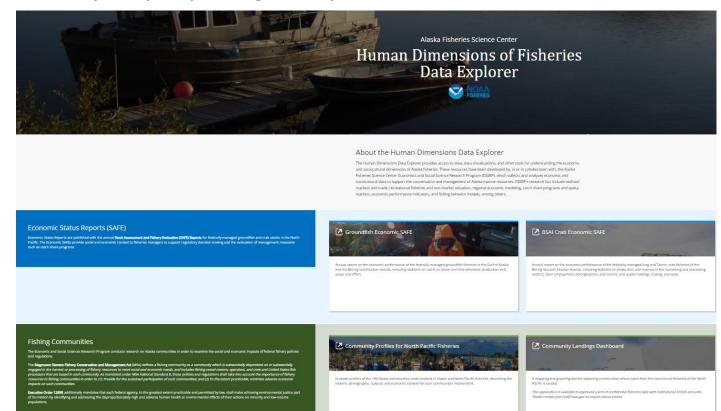
- Groundfish Econ SAFE
- Crab Econ SAFE

#### Fishing Community information

- Community Profiles
- Community Landings dashboard
- Social Indicators Toolbox
- ACEPO dashboard
- A Way of Life storymap

#### Other resources

- Catch Share performance metrics
- 10 MRSAM regional economic impact modeling Toolbox







# **Analytic Content of the Economic Status Report, 2020:**

- Economic Performance Indices
- 2021 In-season harvest and revenue estimates
- Wholesale and ex-vessel price projections
- Market Profiles (update next year)
- Amendment 80 Economic Data Report
- Gulf Trawl Economic Data Report

# **Economic Performance Report (EPR) and Ecosystem and Socioeconomic Profiles**

These documents provide stock specific socioeconomic information to stock assessment authors

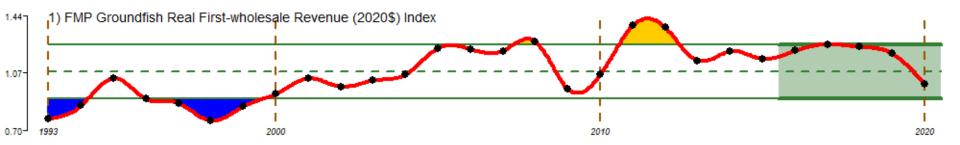
- **BSAI:** pollock, *Pacific cod (ESP)*, flatfish complex (yellowfin sole, rock sole, flathead, arrowtooth), rockfish (Pac. ocean perch, northern rockfish), Atka mackerel.
- GOA: pollock (ESP), Pacific cod (ESP), flatfish (arrowtooth), rockfish (Pac. ocean perch, northern rockfish).
- Combined: sablefish (ESP).



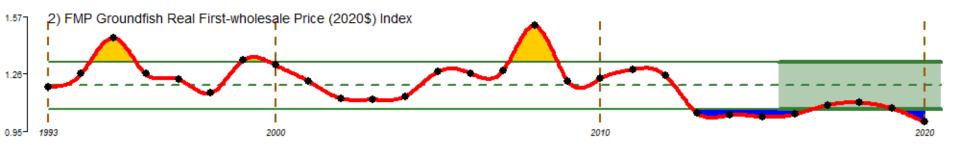
# Status and Trends

# **Report Card Indices**

FMP Groundfish real first-wholesale revenue (2020\$) index

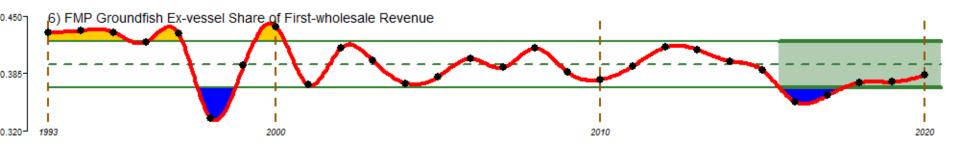


#### FMP Groundfish real first-wholesale price (2020\$) index

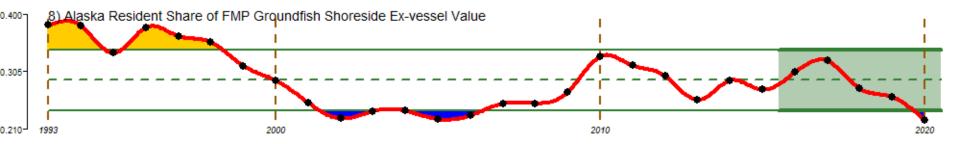


# **Report Card Indices**

FMP groundfish ex-vessel share of first-wholesale revenue

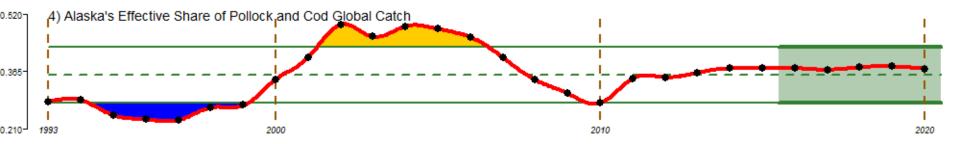


#### Alaska resident share of FMP groundfish shoreside ex-vessel value

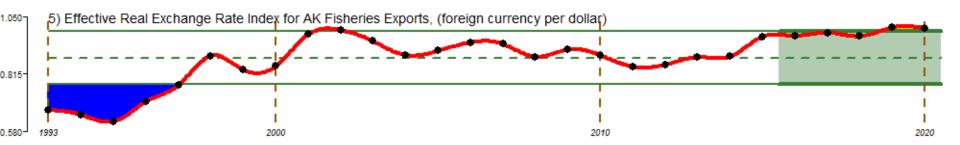


# **Report Card Indices**

Alaska's effective share of pollock and cod global catch



Effective real exchange rate index for AK fisheries exports (foreign currency per dollar)



# Alaska's Groundfish Fisheries in 2020

Total catch: 2.01 million t (decreased 4%)

Aggregate ex-vessel value decreased in the BSAI and GOA.

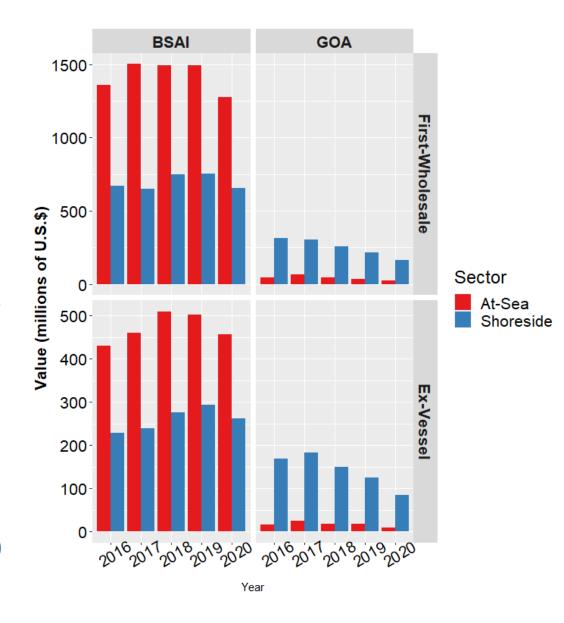
Wholesale value:

\$2.12 billion (down 16%)

Ex-vessel value:

\$810.6 million (down 15%)

Percent change adjusted for inflation.



Values in figure nominal (not adjusted for inflation)



### Alaska's Groundfish Fisheries in 2020

#### Alaska Ex-vessel Economic Indices



In the aggregate:

The decrease in value was driven by significant decreases volume and price



### **Year-over-year Revenue Decompositions 2019-2020**





# Revenue impacts from COVID

Revenue impacts from COVID-19 largely price related

- Notable decrease in prices for many of the products with significant exports to Asia.
- Ex-vessel prices down with pressure from low product prices and cost pressure from COIVD mitigation.

Some impacts in 2020 were not COVID related.

- Reductions in catch generally the result of reductions in TAC
  - Catch/TAC within a typical range. Except for BSAI pollock where unharvested pollock result of dispersed stock, difficult fishing conditions, and small fish size.



#### **COVID-19 Impacts Survey**





2020 COVID-19 Impacts Harvester Survey

2020 COVID-19 Impacts Processor Survey

PREPARED FOR:

Alaska Seafood Marketing Institute

April 2021

PREPARED FOR:

Alaska Seafood Marketing Institute

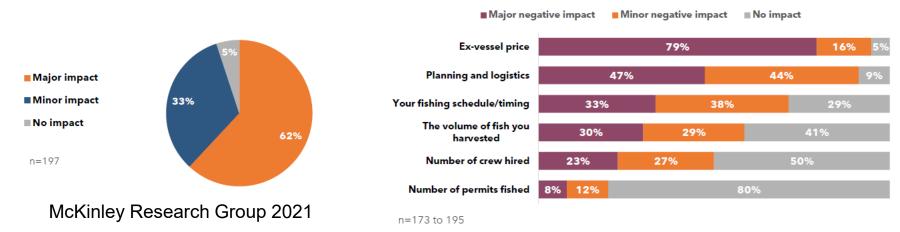
April 2021

- The most comprehensive and targeted surveys of COVID-19 impacts (particularly for costs) on Alaska's seafood industry to date was fielded by McKinley Research Group for ASMI.
- https://www.alaskaseafood.org/covid-19-impact-reports/
- Due to response rates and the voluntary nature of the surveys it's difficult to determine how representative the results are for the industry as a whole

#### **COVID-19 Impacts Harvester Survey**

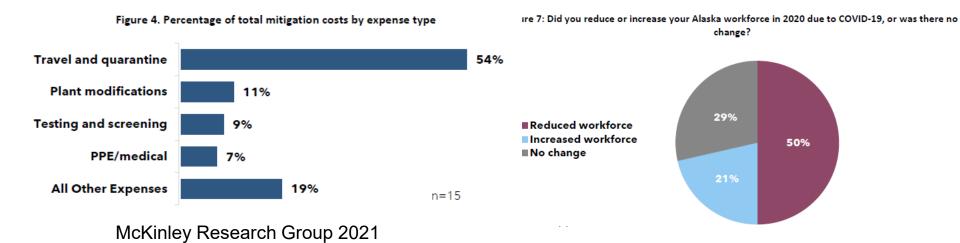
Figure 4. Considering all the 2020 fisheries you participated in, did COVID-19 have a major, minor, or no impact on your fishing operation expenses?

Figure 6. Did COVID-19 have a major, minor, or no impact on each of the following other aspects of your fishing business?



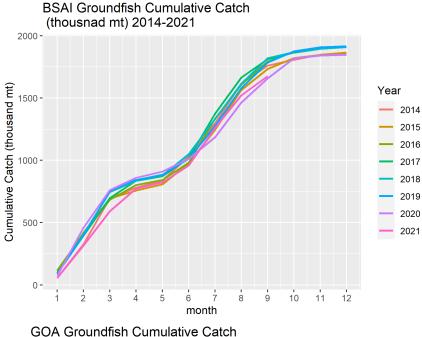
- Salmon heavily represented in the survey.
- Most harvesters reported some (major or minor) impact to their business.
- The most significant harvester impacts were reduced prices followed by logistics and planning costs.
- Roughly two-thirds reported no reduction in crew sizes.

#### **COVID-19 Impacts Processor Survey**

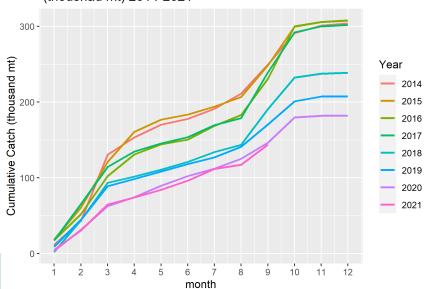


- Estimated COVID-19 mitigation costs to processing industry were \$70 million.
  - Travel and quarantine costs represented over half of the costs.
- Half reported a reduction in workforce.
- Half reported either a minor or major change in product mix and anticipate further changes in 2021.

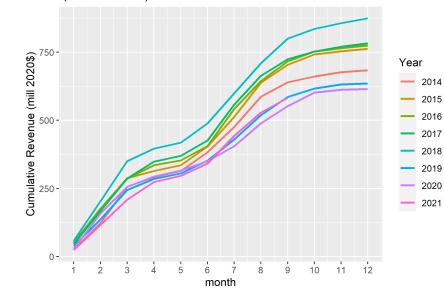
#### In-season Ex-Vessel Harvest and Revenue Estimates for 2021



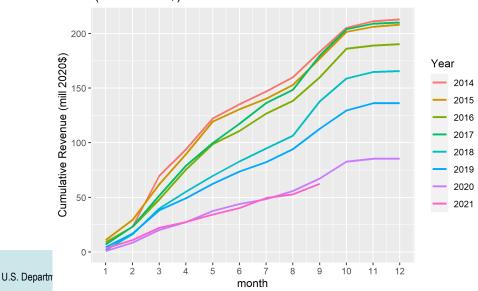
GOA Groundfish Cumulative Catch (thousnad mt) 2014-2021



BSAI Groundfish Cumulative Estimated Revenue (million 2020\$) 2014-2021

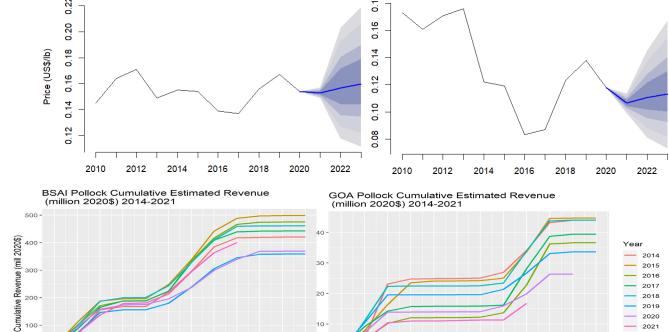


GOA Groundfish Cumulative Estimated Revenue (million 2020\$) 2014-2021

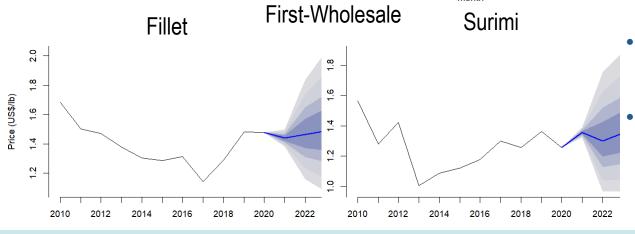


### **Pollock**

- Decreases in 2020 exvessel prices.
- 2021 ex-vessel prices projected to be stable or decrease.
- Year-over-year revenue changes largely driven by catch volumes.
  - Up in BSAI
  - Down in GOA



BSAI shoreside Ex-vessel Price/lb



Fillet price stable in 2020. Surimi prices down a bit but still strong. H&G prices decreased.

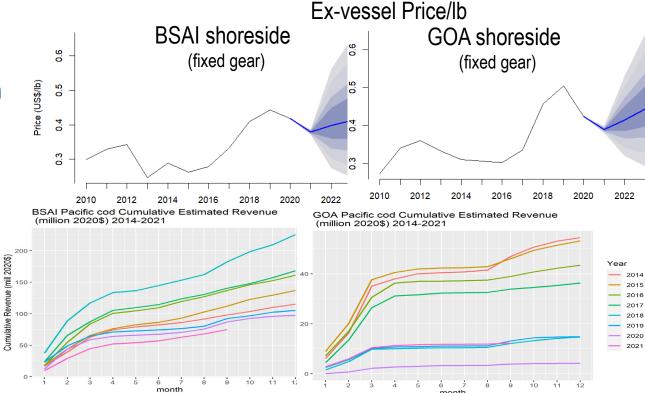
**GOA** shoreside

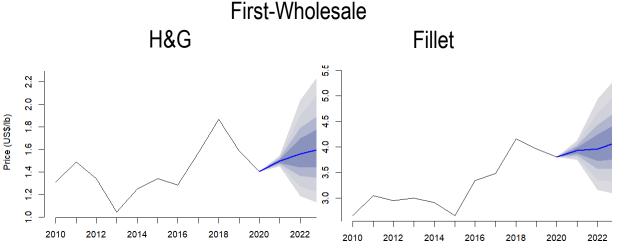
First-wholesale prices for 2021 show price stable for fillets and H&G, Rebound in prices for surimi. Decreasing price for roe.



### **Pacific cod**

- Ex-vessel prices decreased in 2020 across all sectors and regions.
- Prices expected to decrease (fixed) or flat (trawl) in 2021.
- YoY changes largely driven by changes in volume.
  - Down in BSAI
  - Up in GOA



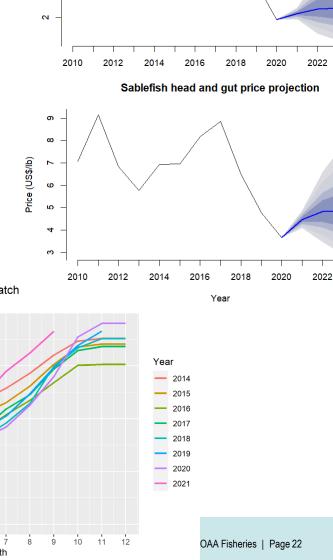


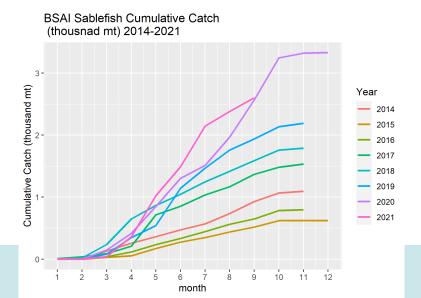
- First-whole prices for fillets and H&G decreased in 2020 and expected to rebound in 2021.
- 2021 prices to be at approximately 2017/2018 levels and remain strong relative to historical levels.

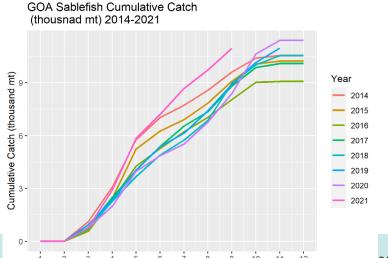


#### **Sablefish**

- Catch volumes are up in 2021 for both BSAI and GOA.
- Ex-vessel prices are estimated to be stable or increasing. First wholesale H&G prices are estimated to increase.
- Low prices driven by small in size of average fish and decreased food service demand.

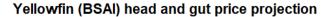




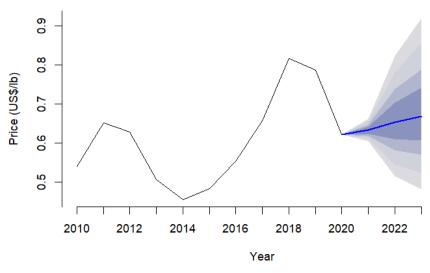


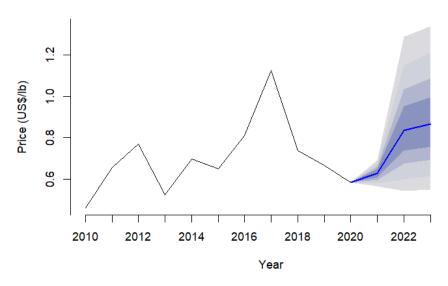
Price (US\$/lb)

### **Flatfish**



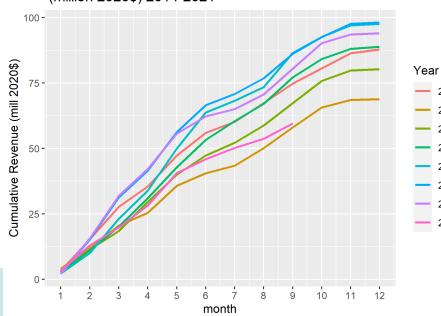
#### Arrowtooth head and gut price projection

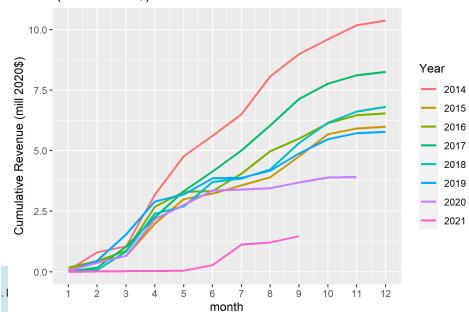




BSAI Flatfish Cumulative Estimated Revenue (million 2020\$) 2014-2021

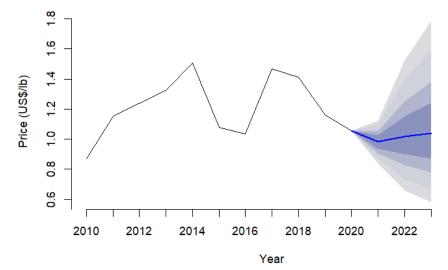
GOA Flatfish Cumulative Estimated Revenue (million 2020\$) 2014-2021



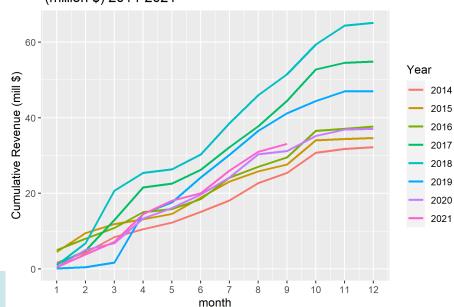


## **Atka**

#### Atka mackerel head and gut price projection

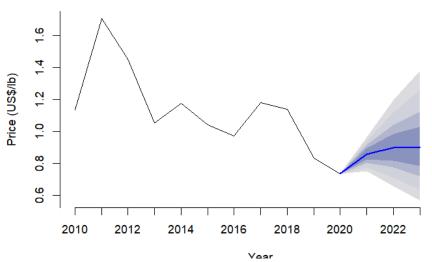


#### Other Groundfish Cumulative Estimated Revenue (million \$) 2014-2021

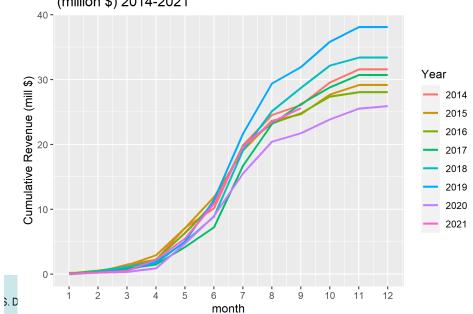


### Rockfish

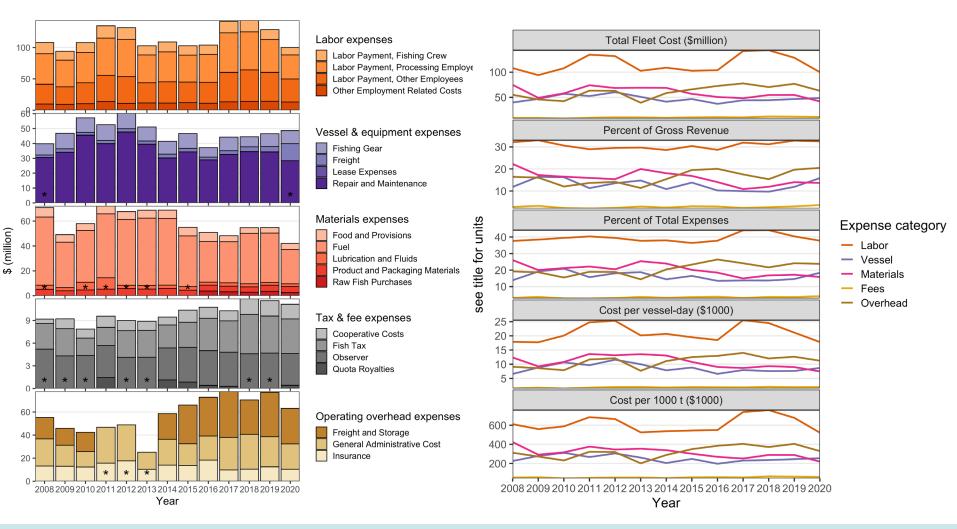
#### Rockfish head and gut price projection



#### Rockfish Cumulative Estimated Revenue (million \$) 2014-2021

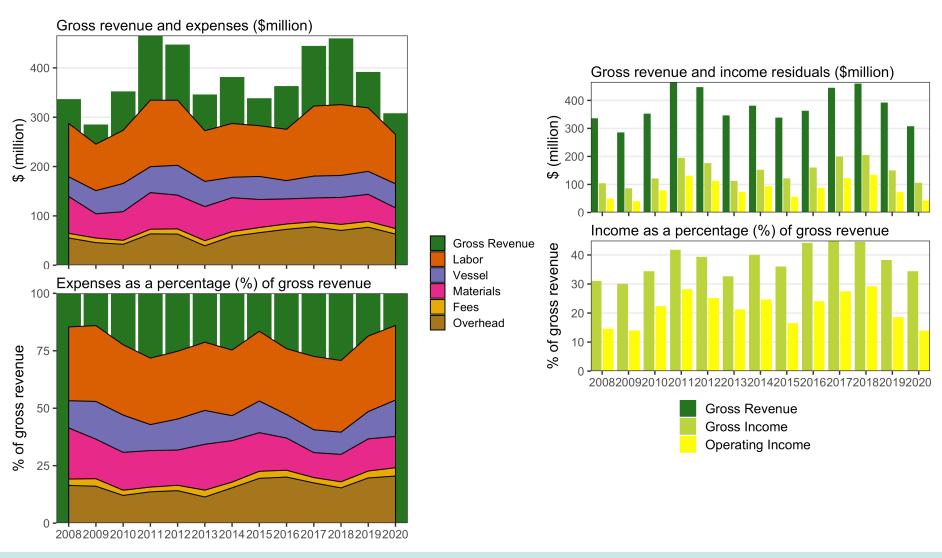


# Catcher/Processor Operating Cost Summary & Indices



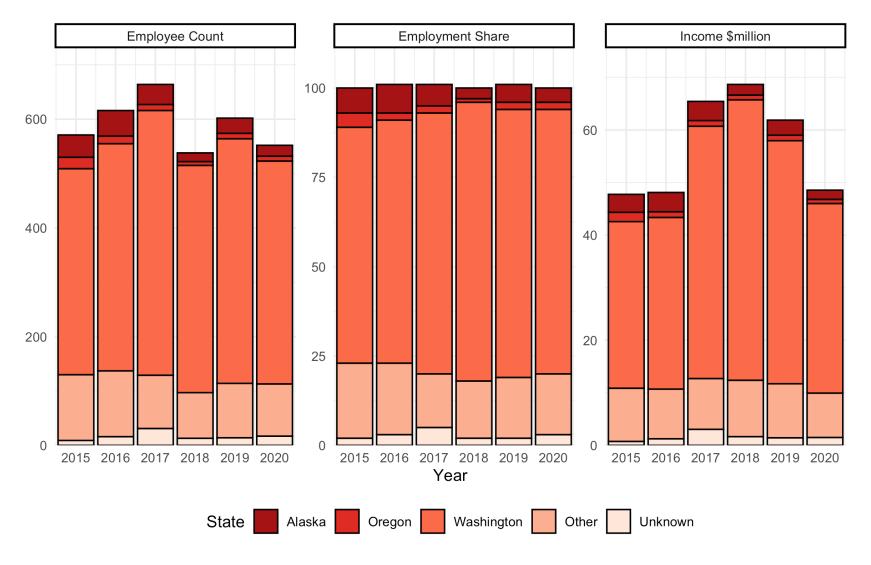


# **Catcher/processor Net Operating Income Summary**

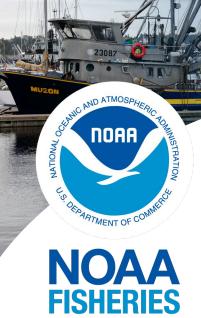




# A80 Crew Income & Employment by State of Residence







# **Economic Status Report, 2020**

The Economic Status Report serves many purposes.

Among them is to provide information to the SSC and Council.

Please give us your feedback.

Ben.Fissel@noaa.gov

# **Thanks**

- Economic Groundfish SAFE is a product of the Economics and Social Sciences Research Program (ESSRP)
- Authors: Ben Fissel, Anna Ableman, Michael Dalton, Brian Garber-Yonts, Alan Haynie, Stephen Kasperski, Jean Lee, Dan Lew, Chang Seung, Kim Sparks and Sarah Wise.
- Alaska Fisheries Information Network (AKFIN) provided database programming, data management services and support.

# Gulf Trawl CV Crew Income & Employment by Community

