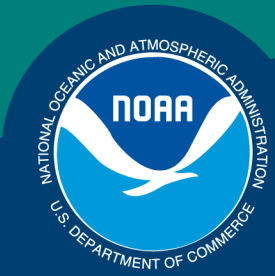


Science, Service, Stewardship



Crab SAFE: Economic Status Report 2023

Presented by:

Brian Garber-Yonts

Alaska Fisheries Science Center

Economics and Social Science Research Program

Contributors:

Steve Kasperski and Rusty Dame (AFSC)

Jean Lee and Anna Abelman (AKFIN)

January 11, 2024

**NOAA
FISHERIES
SERVICE**

2023 Crab Economic SAFE Overview

- Executive Summary
 - ✓ Report card indices
- Economic Status and Trends
 - Economic output
 - TACs, landings, ex-vessel and finished product volume
 - Ex-vessel and first wholesale revenue and price indices
 - Income and employment
 - ✓ Community-level detail
 - Operating costs and Income Statement
 - Quota Market and Holdings
 - Quota entity decomposition and ownership distribution
 - Active/inactive
 - Fishing capacity and effort
 - International trade
- ✓ 2023 Ex-vessel Revenue Nowcast Estimates and International Crab Trade Summary (in-progress)

Economic SAFE availability

Alaska Fisheries Information Network

AKFIN Reports Dashboard | Human Dimensions Data Explorer

Alaska Fisheries Science Center

Human Dimensions of Fisheries Data Explorer

NOAA FISHERIES

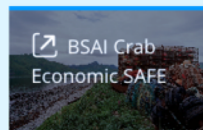
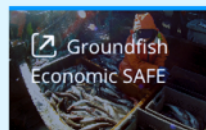
Photo: NOAA Fisheries

About the Human Dimensions Data Explorer

The Human Dimensions Data Explorer provides access to data, data visualizations, and other tools for understanding the economic and sociocultural dimensions of Alaska fisheries. These resources have been developed by, in or in collaboration with, the Alaska Fisheries Science Center Economics and Social Science Research Program (ESSRP), which collects and analyzes economic and sociocultural data to support the conversation and management of Alaska marine resources. ESSRP's research foci include seafood markets and trade, recreational fisheries and non-market valuation, regional economic modeling, catch share programs and quota markets, economic performance indicators, and fishing behavior models, among others.

Economic Status Reports (SAFE)

Economic Status Reports are published with the annual Stock Assessment and Fishery Evaluation (SAFE).



AKFIN Reports Dashboard | Human Dimensions Data Explorer | BSAI Crab Economic SAFE | CRSAFEEEC01

CRSAFEEEC01 - BSAI Crab SAFE: harvesting and processing sector output - product volume, gross revenue, and average price, 1998-present

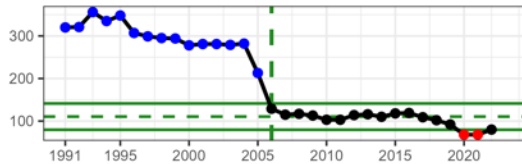
Crab Economic SAFE, produced annually by NOAA Fisheries, Alaska Fisheries Science Center Economics and Social Science Research Program.

Year	Fishery Code	Fishery Name	Count of harvesting vessels	Count of processors	Count of catch shares	Count of catch processors	Total weight (MT)	
2021	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	17	10	2,877.9	
2020	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	14	11	2,883.54	
2019	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	16	11	3,076.16	
2018	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	14	9	3,001.80	
2017	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	12	10	2,924.16	
2016	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	12	10	2,947.20	
2015	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	12	9	2,817.28	
2014	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	11	10	2,753.50	
2013	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	1	14	10	2,885.96
2012	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	2	14	14	2,888.42
2011	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	1	13	14	2,716.07
2010	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	1	13	9	2,762.25
2009	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	1	13	9	2,869.37
2008	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	1	12	7	2,907.62
2007	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	1	11	6	2,817.69
2006	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	7	9	1	10	6	2,973.92
2005	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	9	9	1	13	6	2,972.33
2004	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	22	21	1	24	5	2,728.76
2003	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	21	20	1	22	6	2,829.80
2002	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	22	21	1	20	6	2,819.66
2001	AG0	ALEUTIAN ISLANDS GOLDEN KING CRAB	21	20	1	20	7	2,880.12

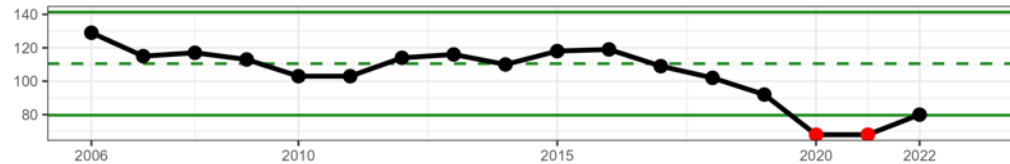
<https://reports.psmfc.org/akfin/f?p=501:2000>

Report Card Metrics – FMP Crab Fisheries

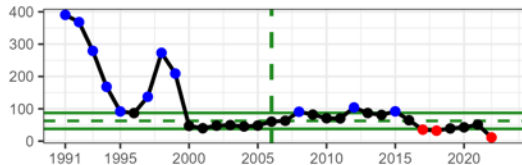
1. Count of active crab vessels



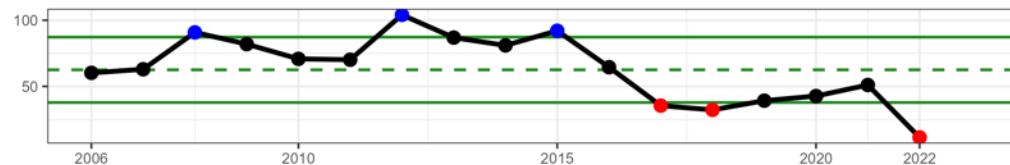
Post-Rationalization



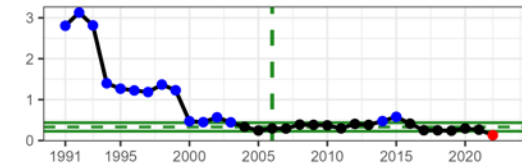
2. Ex-vessel pounds landed, total (million)



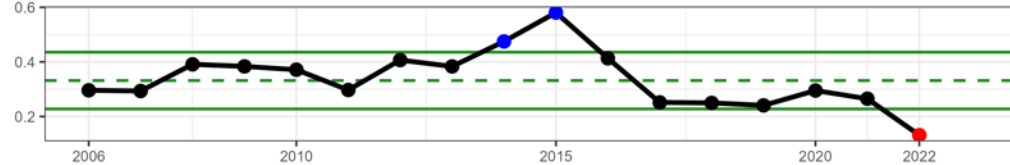
Post-Rationalization



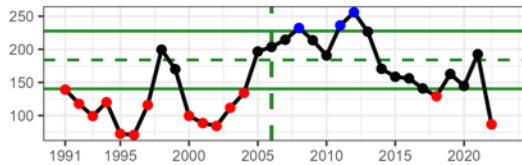
3. Total potlifts (million)



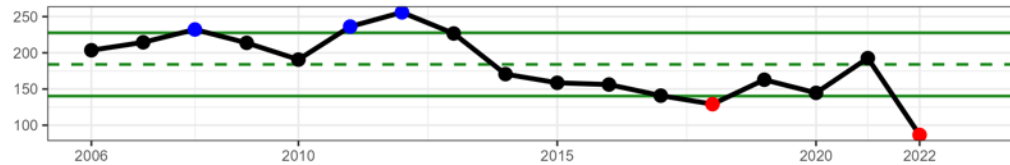
Post-Rationalization



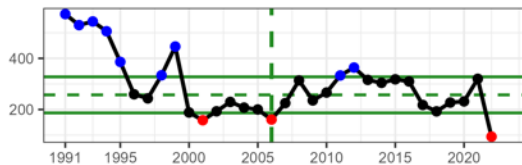
4. Pounds landed per potlift (wtd average)



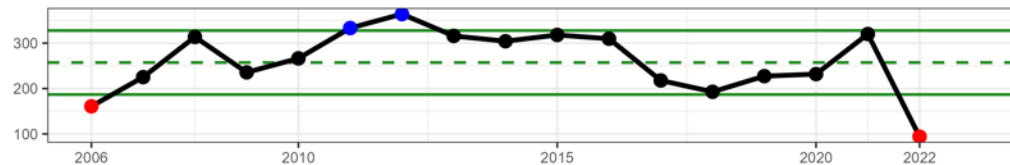
Post-Rationalization



5. Ex-vessel value, total (\$2022 million)

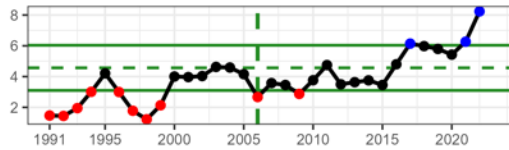


Post-Rationalization

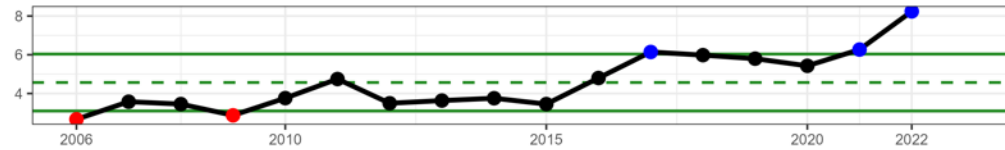


Report Card Metrics – FMP Crab Fisheries

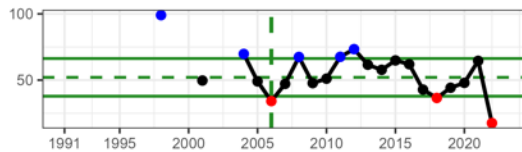
6. Price index - wtd average, all ex-vessel sales (\$2022)



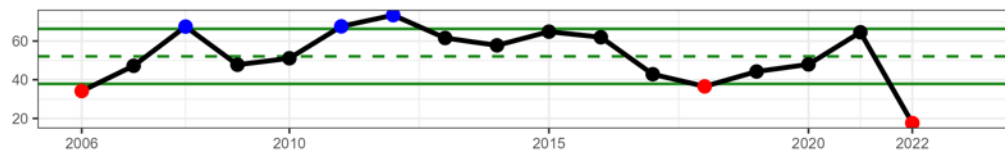
Post-Rationalization



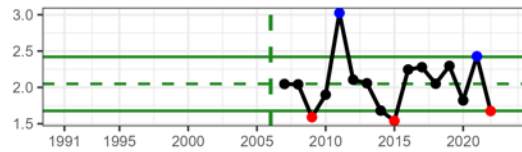
7. Crew labor payment, total, all vessel crew (\$2022 million)



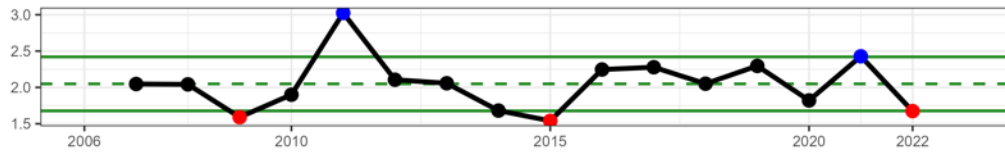
Post-Rationalization



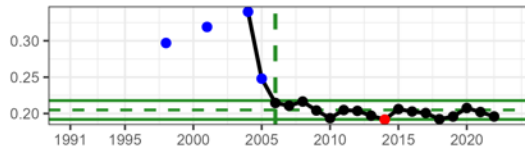
8. Deck crew pay per day - average per crew member, per day (\$2022K)



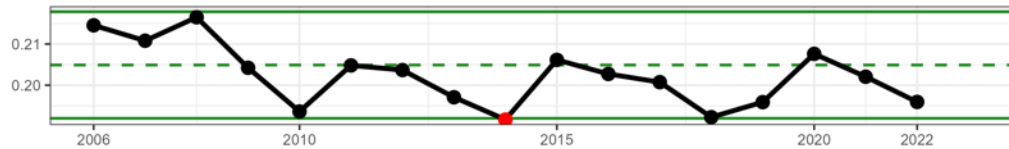
Post-Rationalization



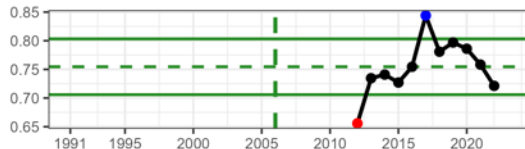
9. Crew labor payment as share of ex-vessel gross revenue (%)



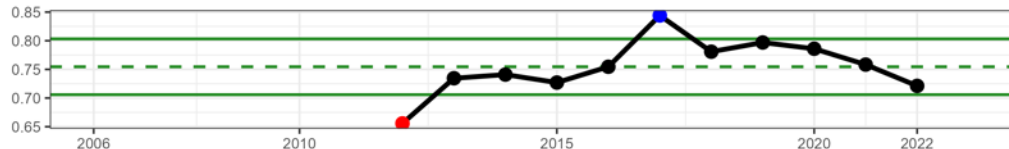
Post-Rationalization



10. Quota lease royalty cost as share of ex-vessel gross revenue (%)

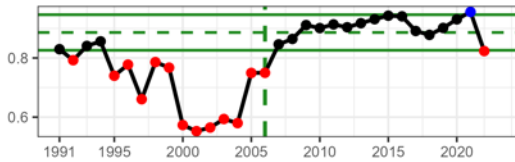


Post-Rationalization

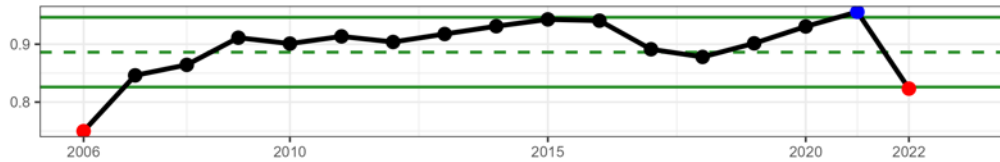


Report Card Metrics – FMP Crab Fisheries

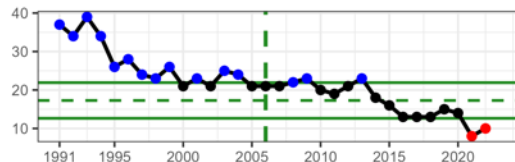
11. Crab ex-vessel revenue share



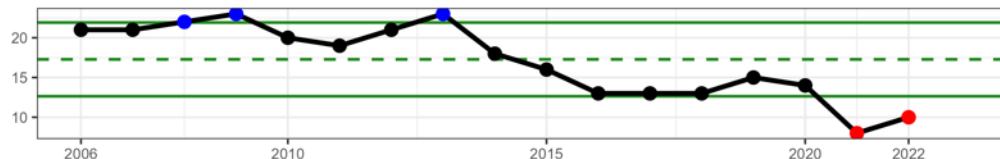
Post-Rationalization



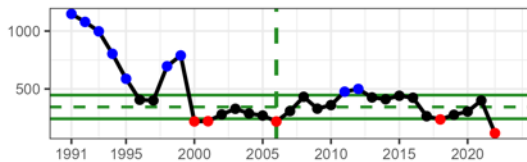
12. Count of active crab processing plants



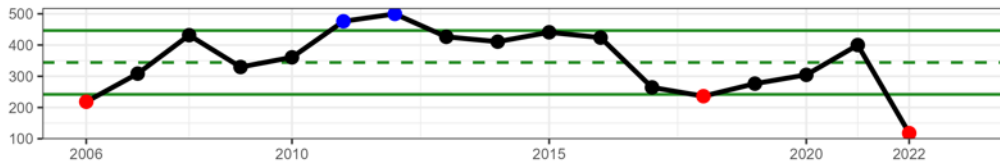
Post-Rationalization



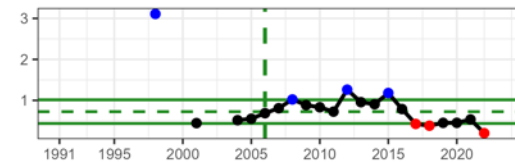
13. First-wholesale revenue, total (\$2022 million)



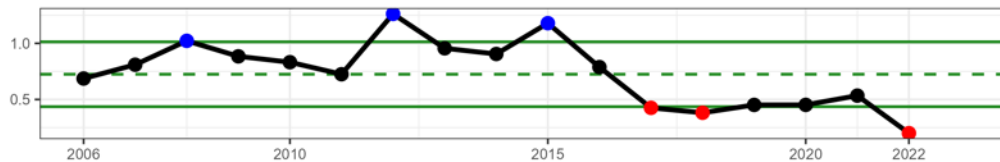
Post-Rationalization



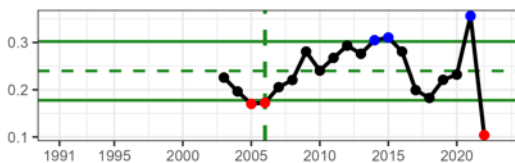
14. Processing labor hours, total (million)



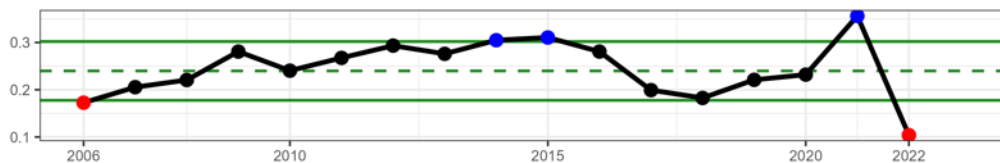
Post-Rationalization



15. Crab first wholesale revenue share

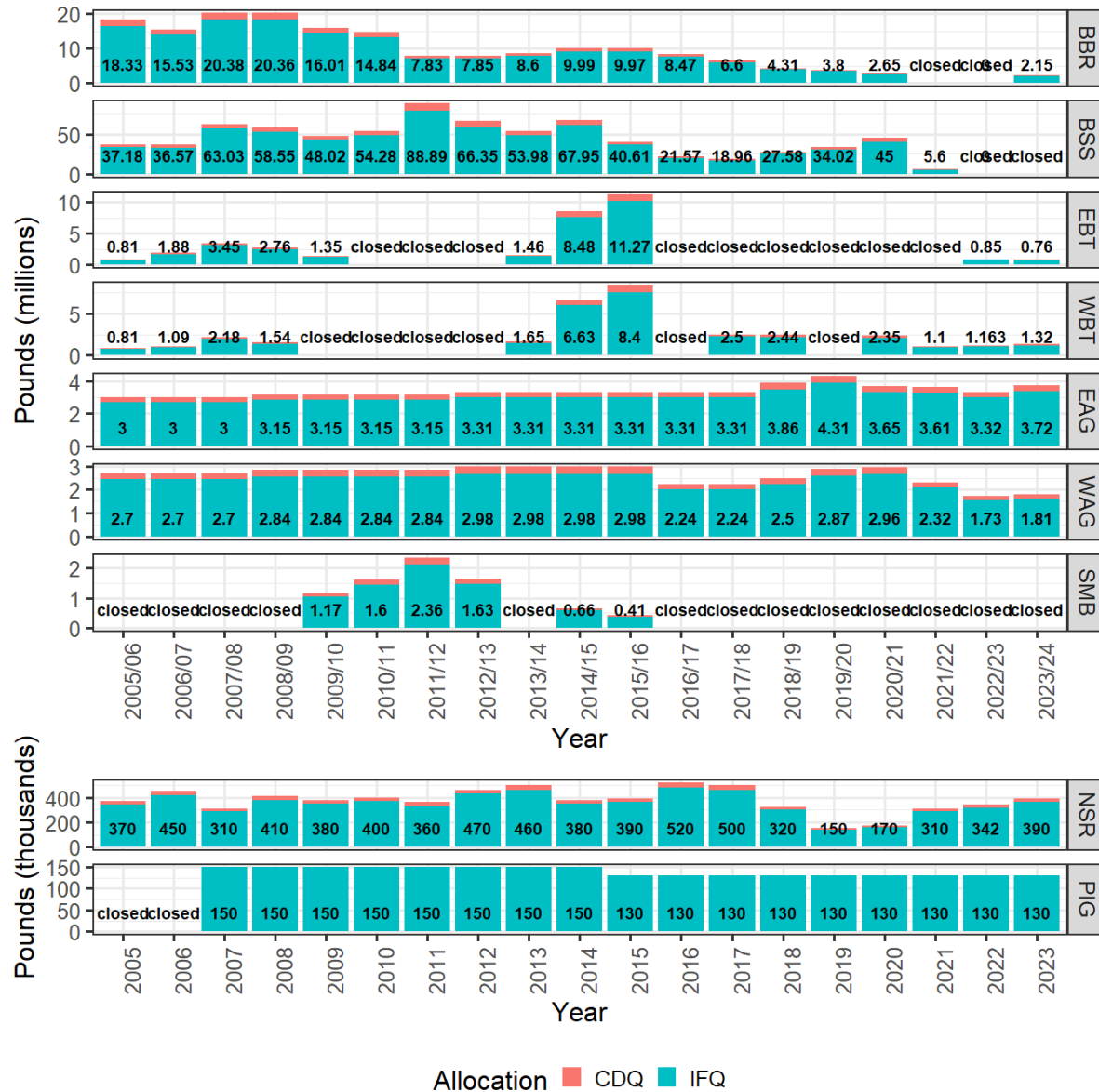


Post-Rationalization



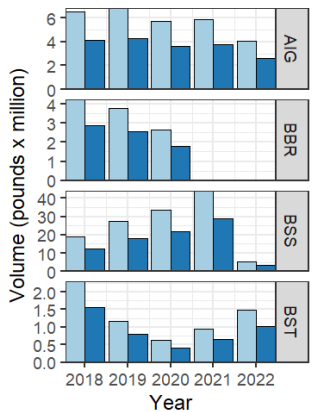
Note: Green vertical line indicates the first full calendar year of implementation of the CR program. Green horizontal lines show the mean (dashed) and 1 standard deviation (solid) for the 2005-present reference period. Color of plotted values indicates values within (black), above (blue), and below (red) one standard deviation of the mean.

TACs & GHGs 2005/06 - 2023/24

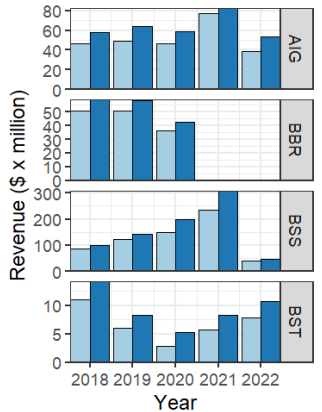


Production & Value 2022

Production Volume, by Fishery and Sector

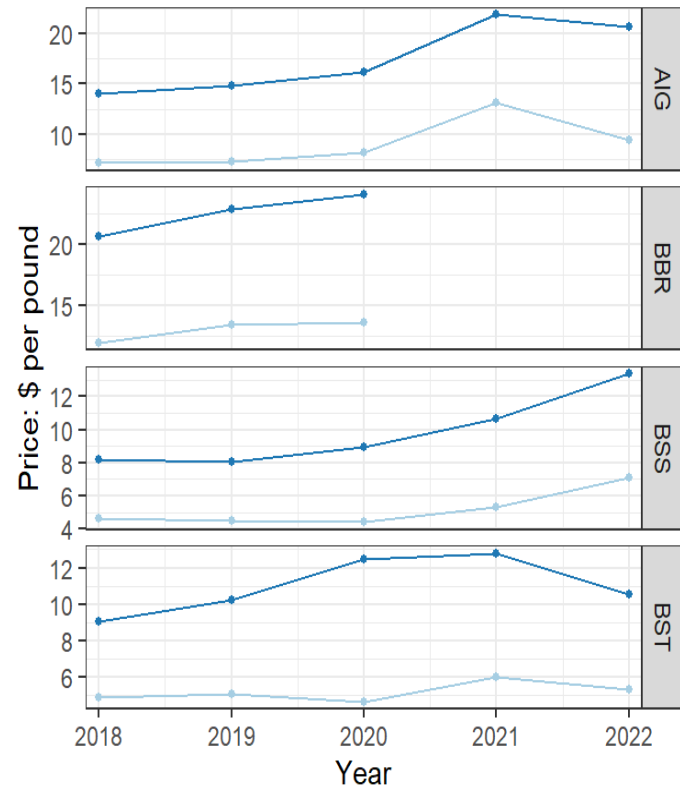


Gross Revenue, by Fishery and Sector



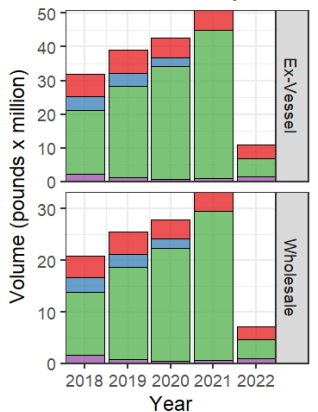
Sector
 Ex-Vessel
 Wholesale

Weighted-average Price, by Fishery and Sector

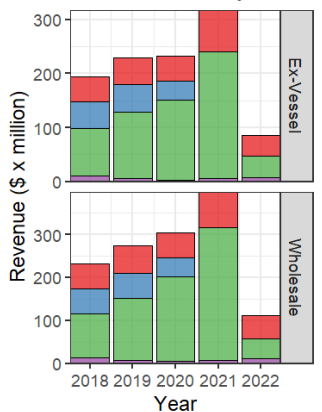


Sector
 Ex-Vessel
 Wholesale

Production Volume, All Fisheries by Sector

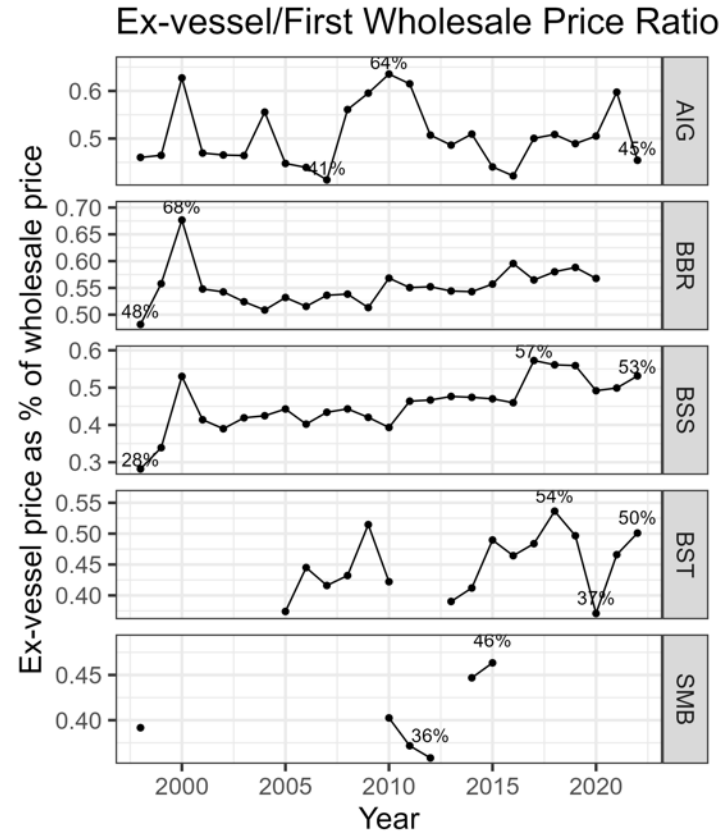
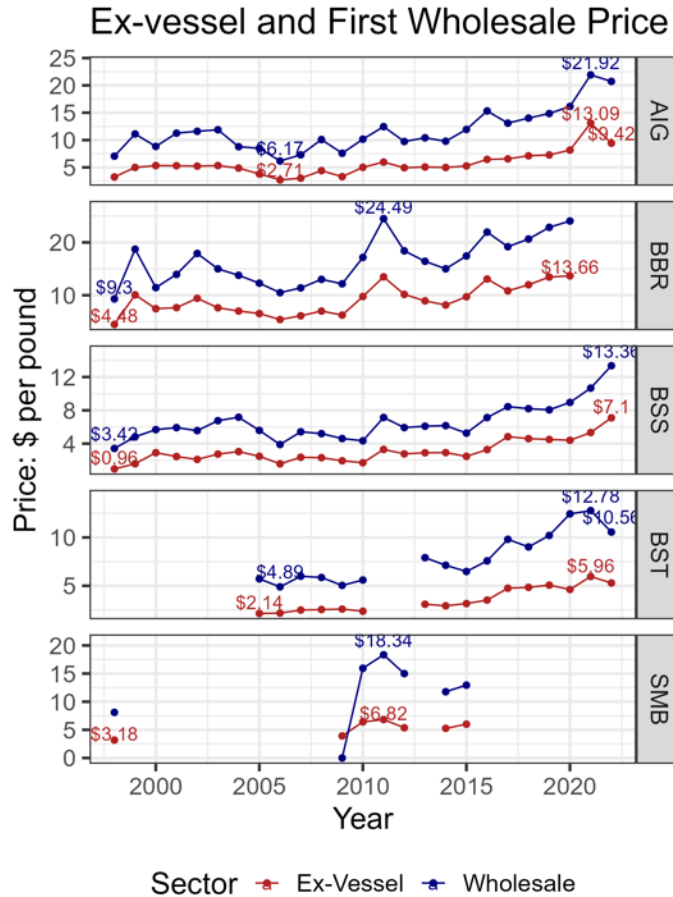


Gross Revenue, All Fisheries by Sector

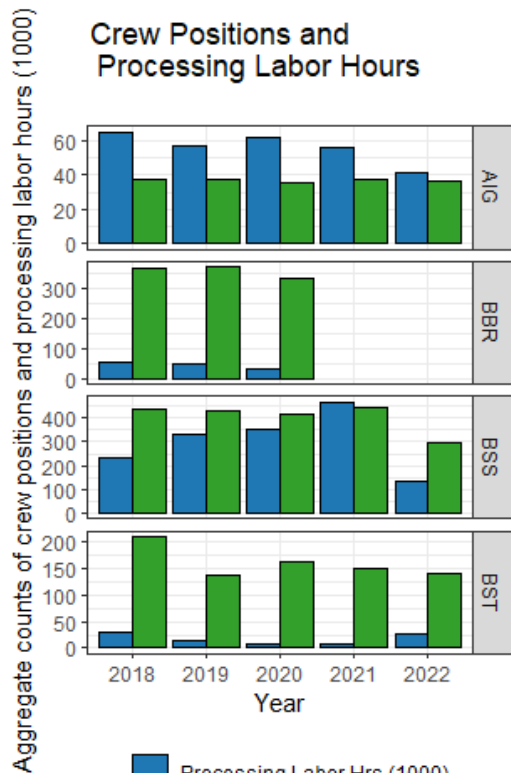


Crab Fishery
 AIG
 BBR
 BSS
 BST

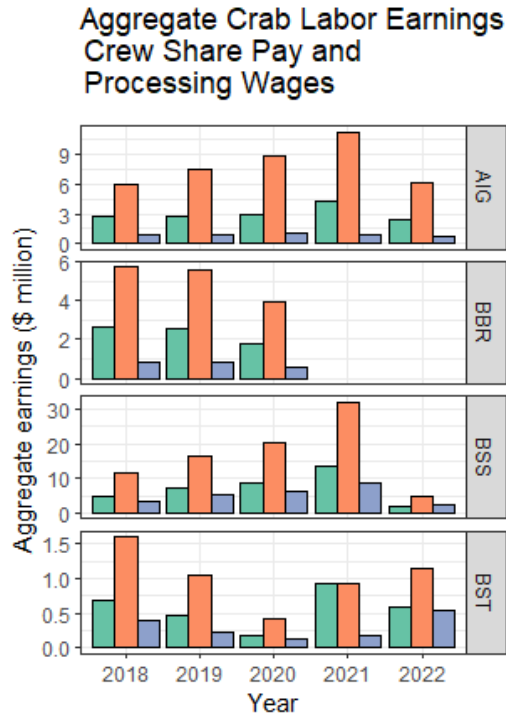
Ex-vessel & Wholesale Price



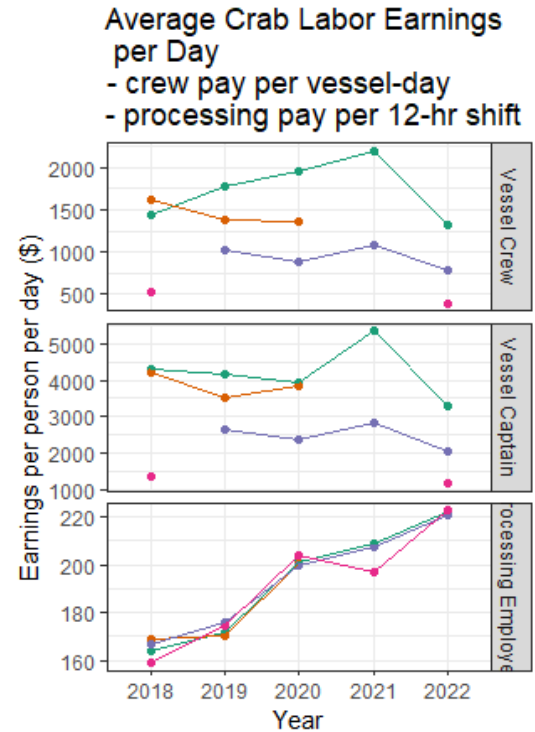
Harvest & Processing Sector Employment



■ Processing Labor Hrs (1000)
■ Crew positions



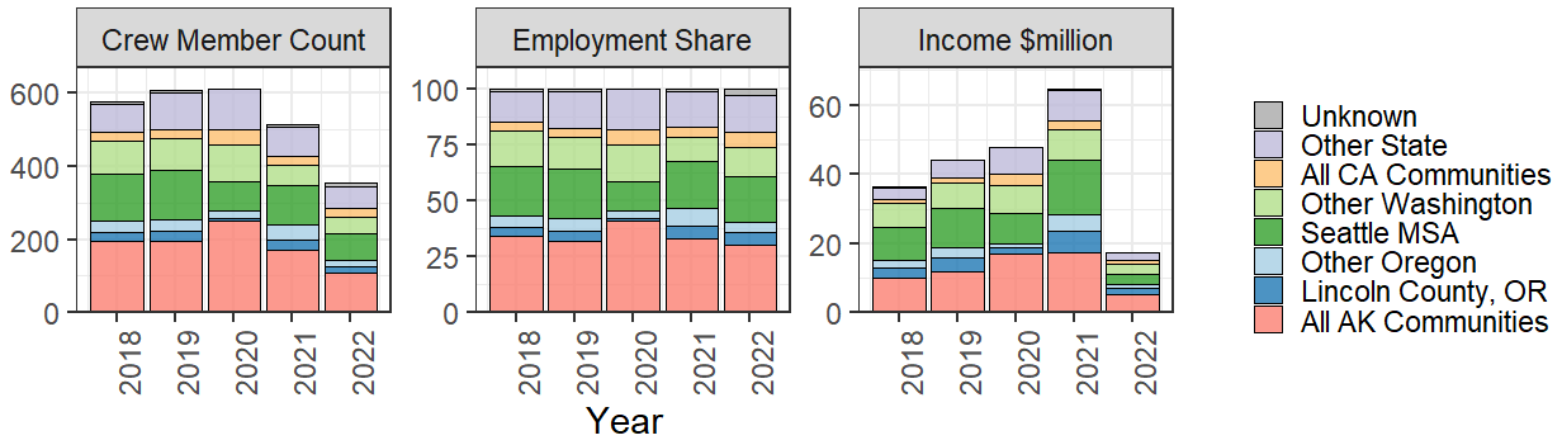
■ Captain share
■ Crew share
■ Processing wages



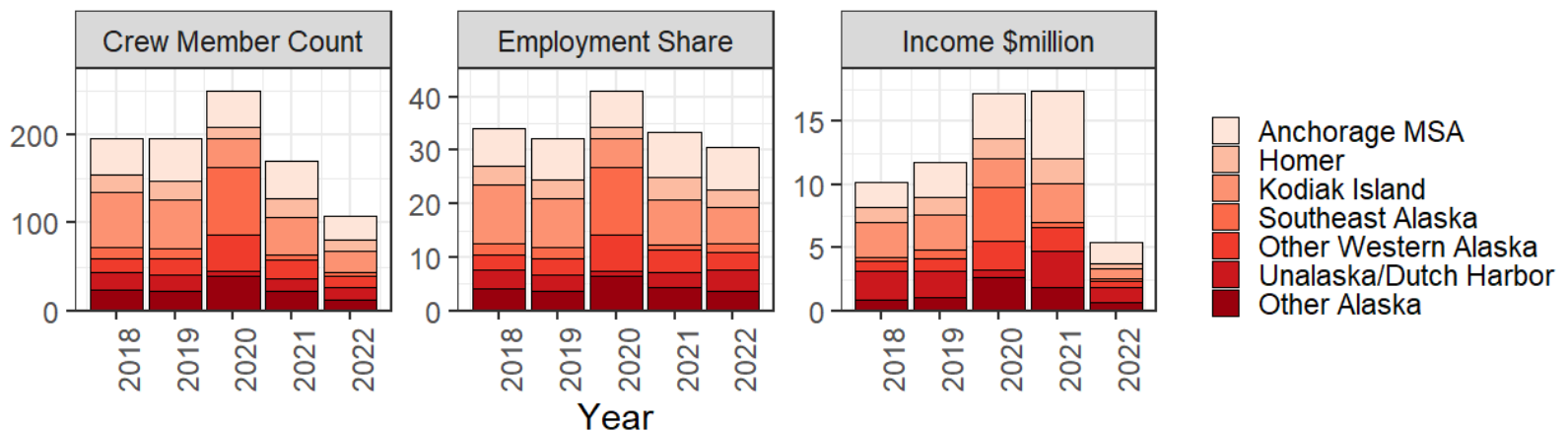
—●— AIG
—●— BBR
—●— BSS
—●— BST

Crew Employment and Income, by Community/Region of Residence

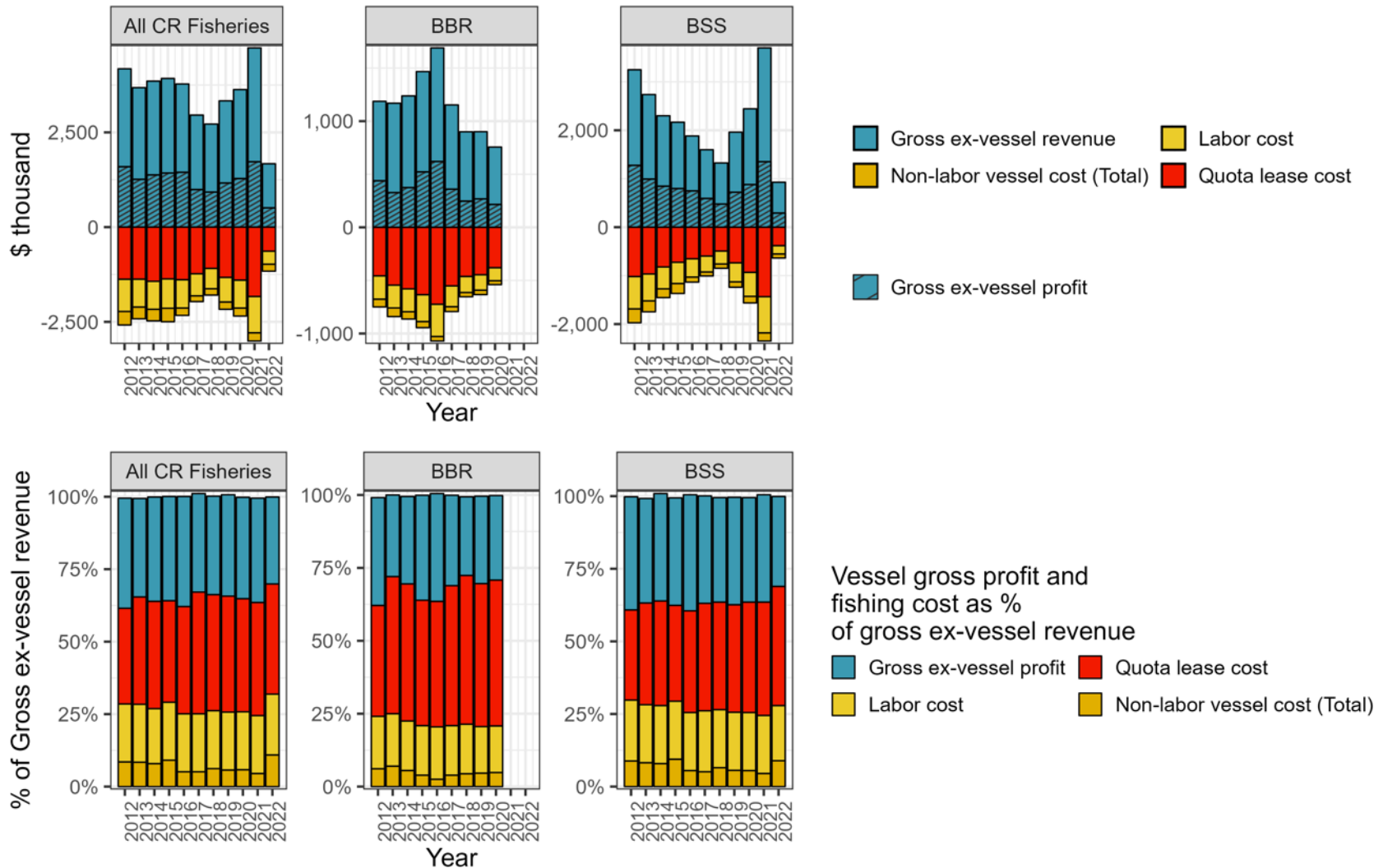
All Communities



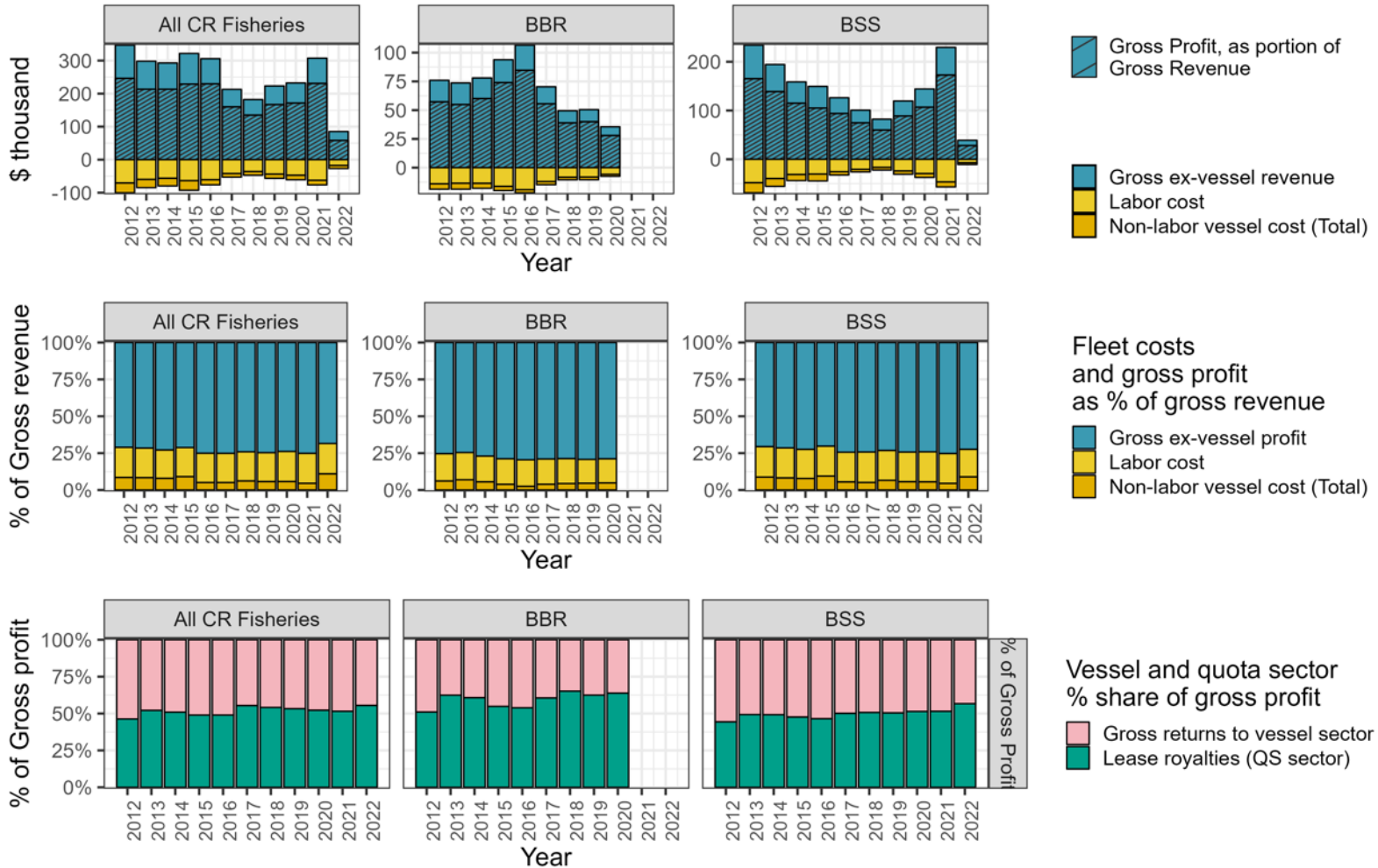
Alaska Communities



Vessel Income Statement

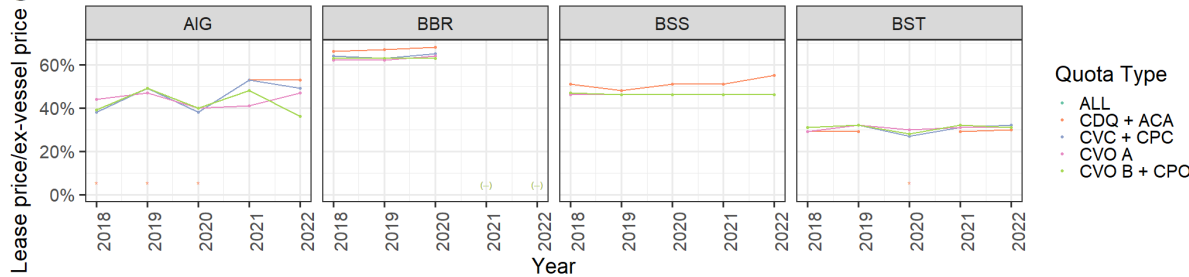


Fleet Income Statement

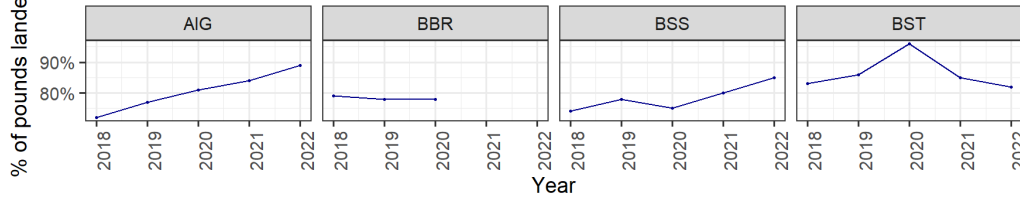


IFQ Lease Activity and Rates

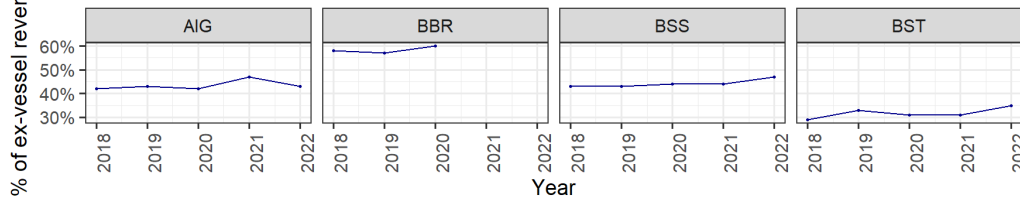
Average lease rate (lease price as % of ex-vessel price), vessel median, by quota type



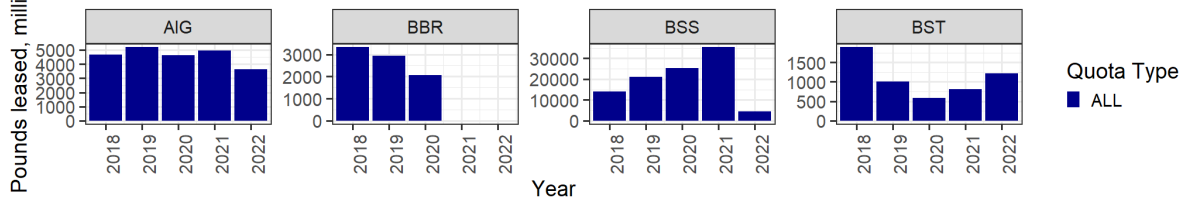
Lease volume as % of pounds landed by fishery, weighted mean



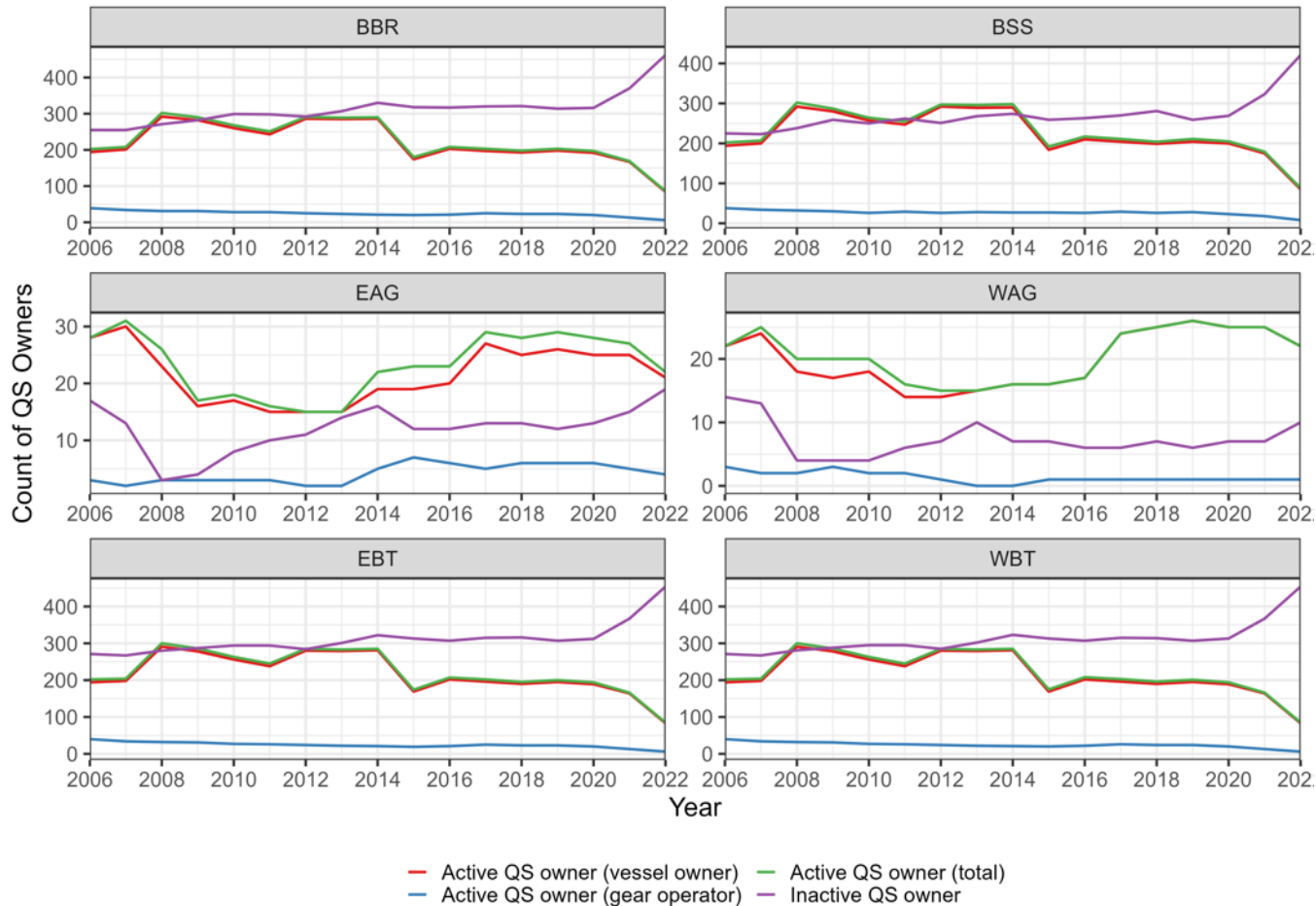
Lease cost as % of ex-vessel gross by fishery, weighted mean



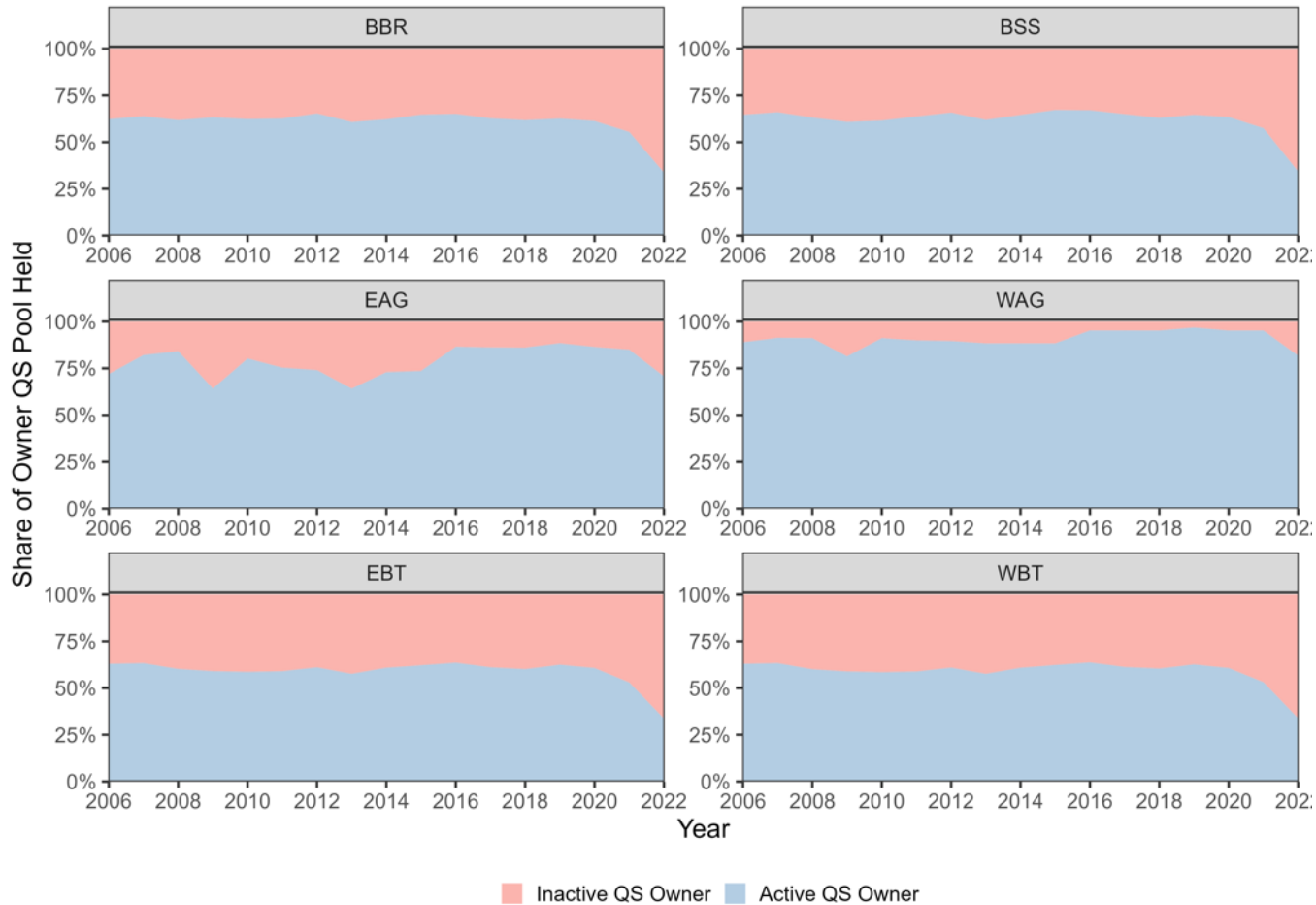
Total fishing quota leased volume, all vessels



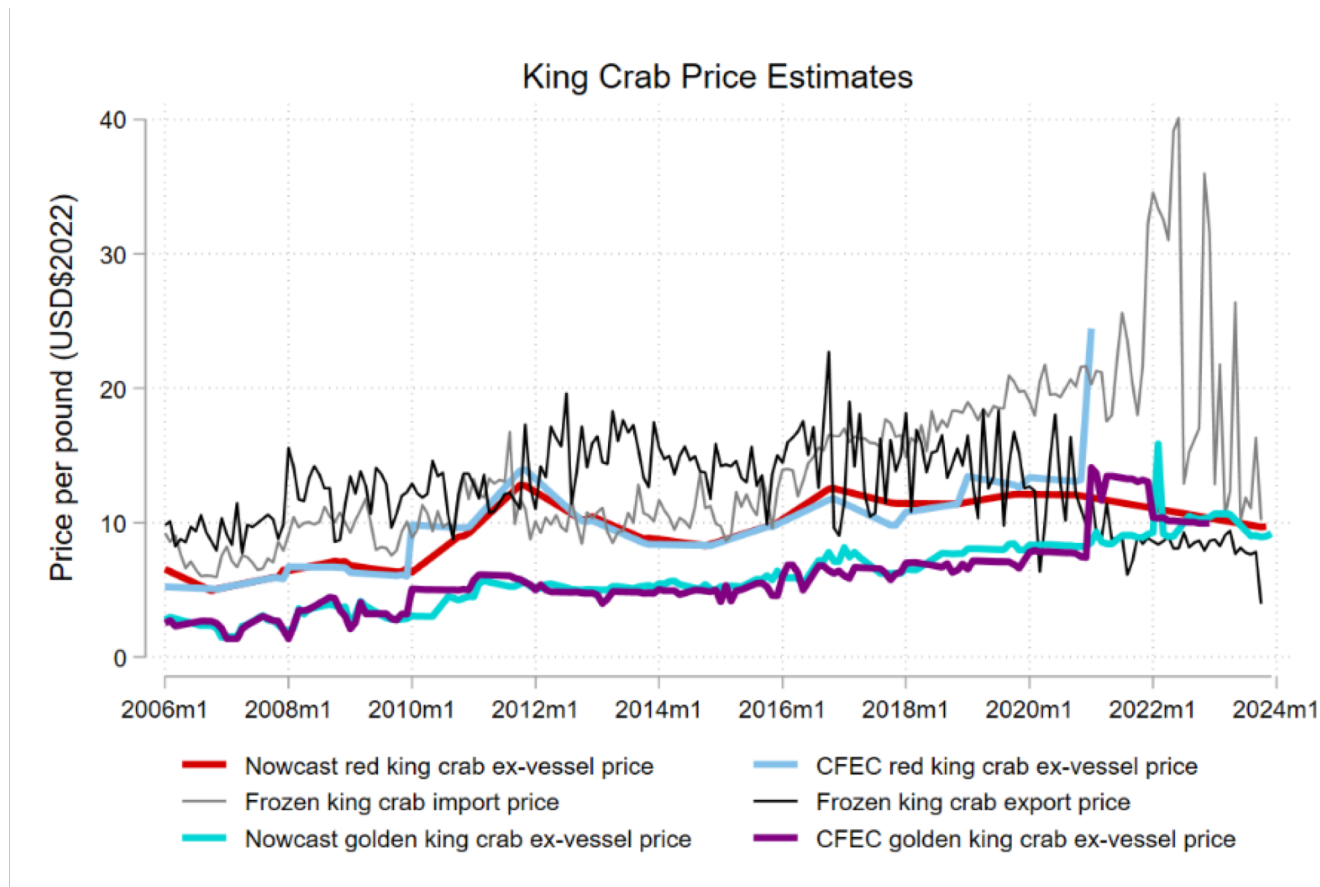
Owner QS Pool Decomposition: Active and Inactive Owners



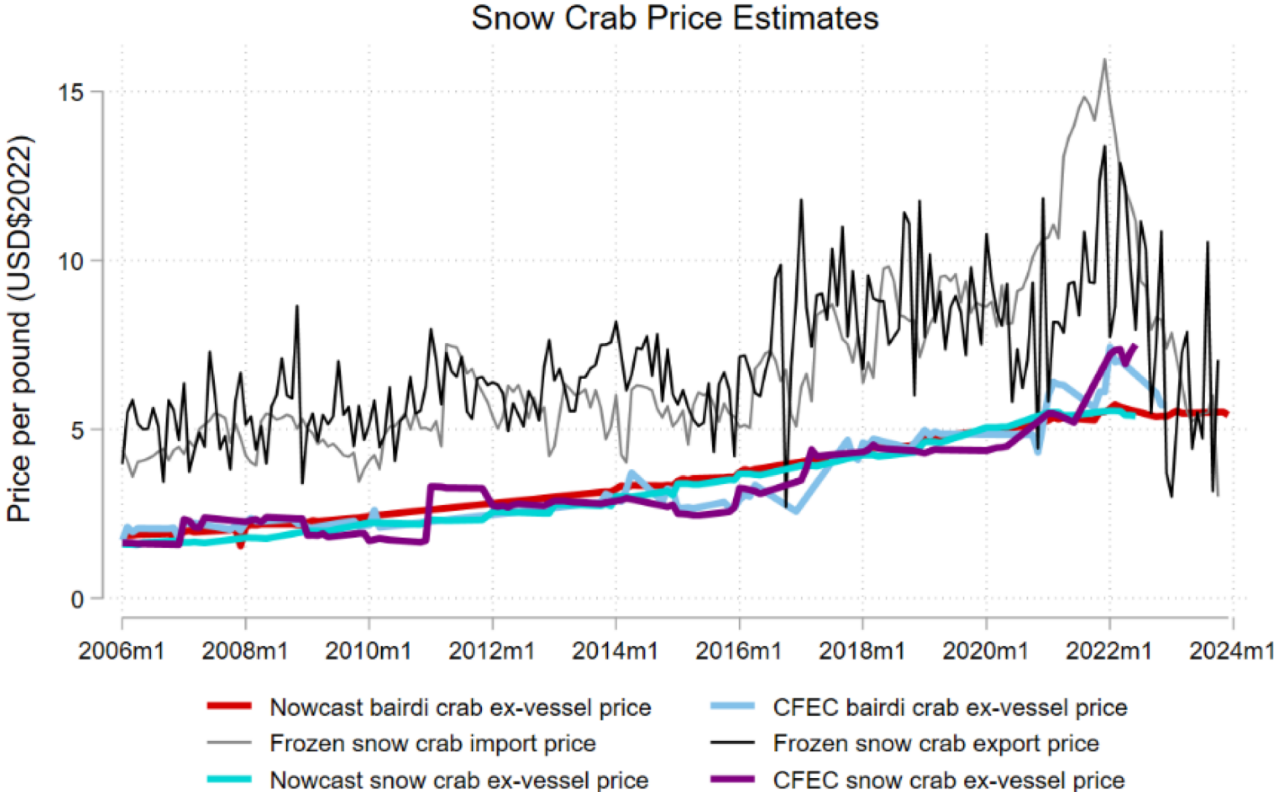
Owner QS Pool Decomposition: Active and Inactive Owners



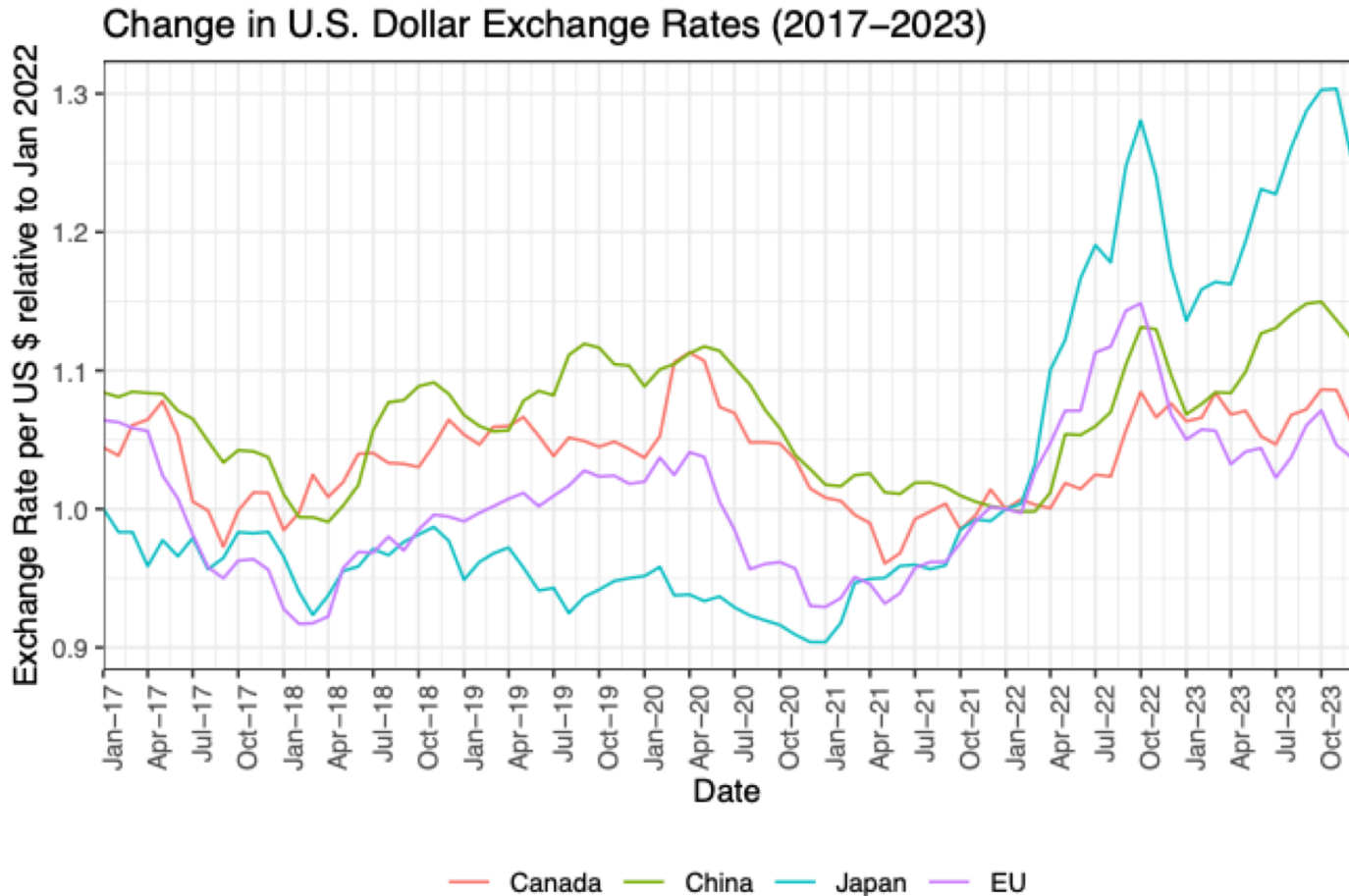
2023 Ex-vessel Price and Revenue Nowcasts (preliminary)



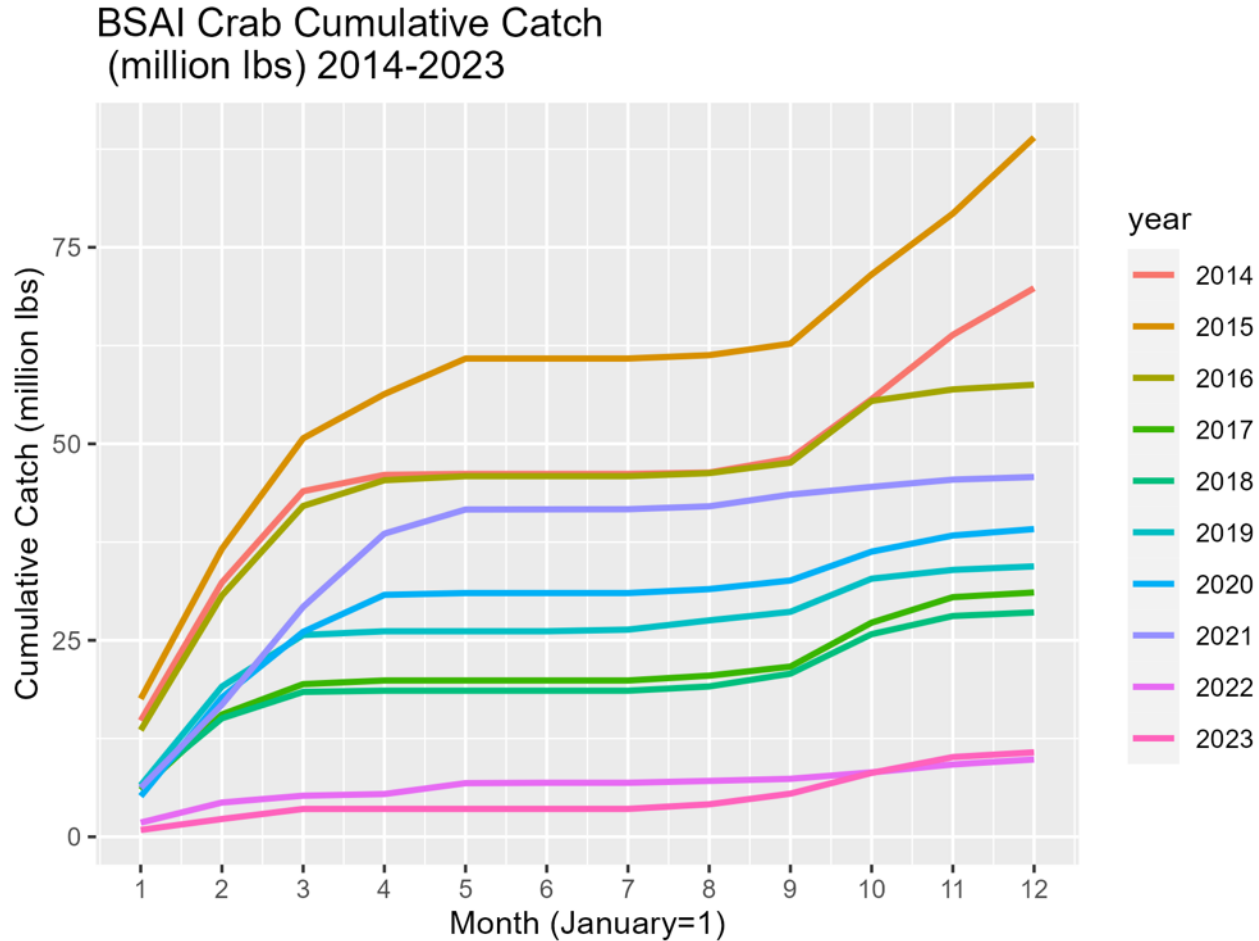
2023 Ex-vessel Price and Revenue Nowcasts (preliminary)



U.S. Dollar Exchange Rate

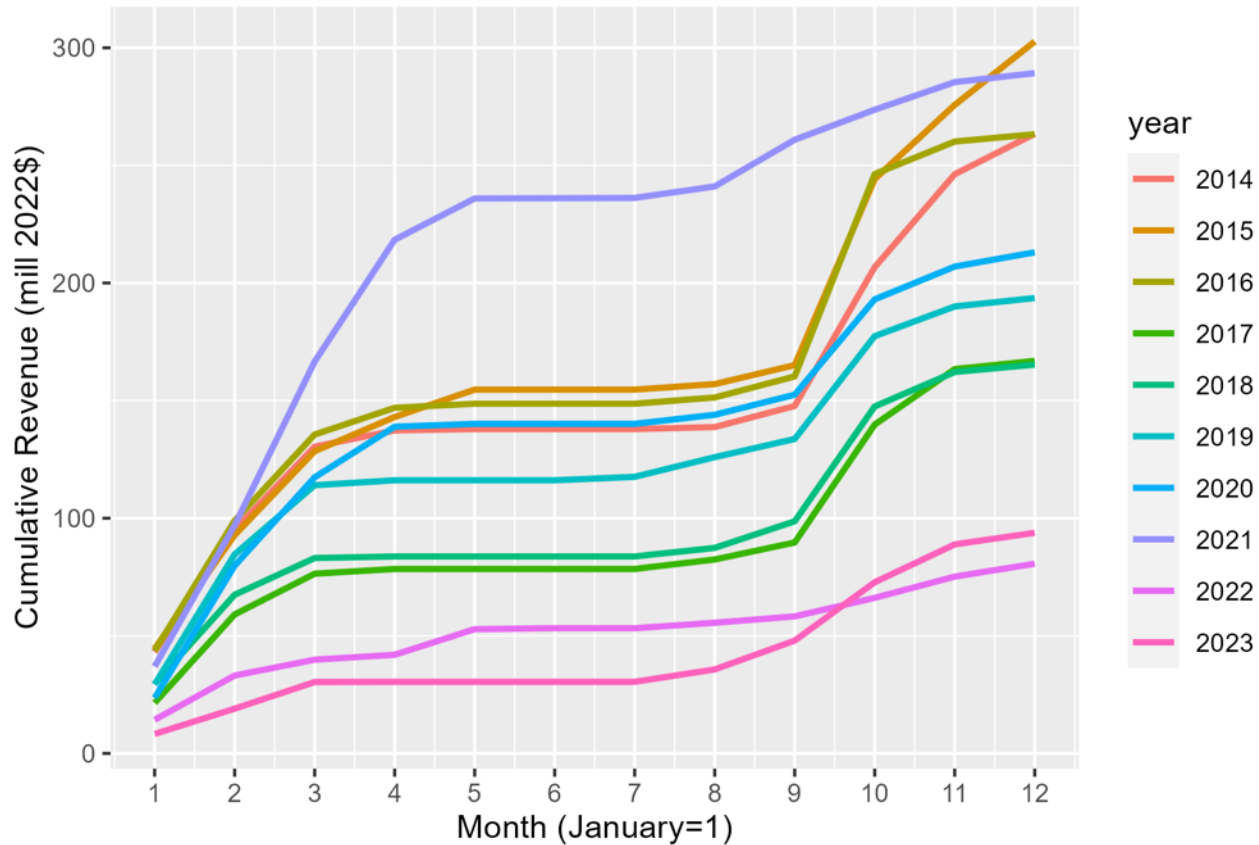


BSAI Crab Cumulative Landings , 2014- 2023



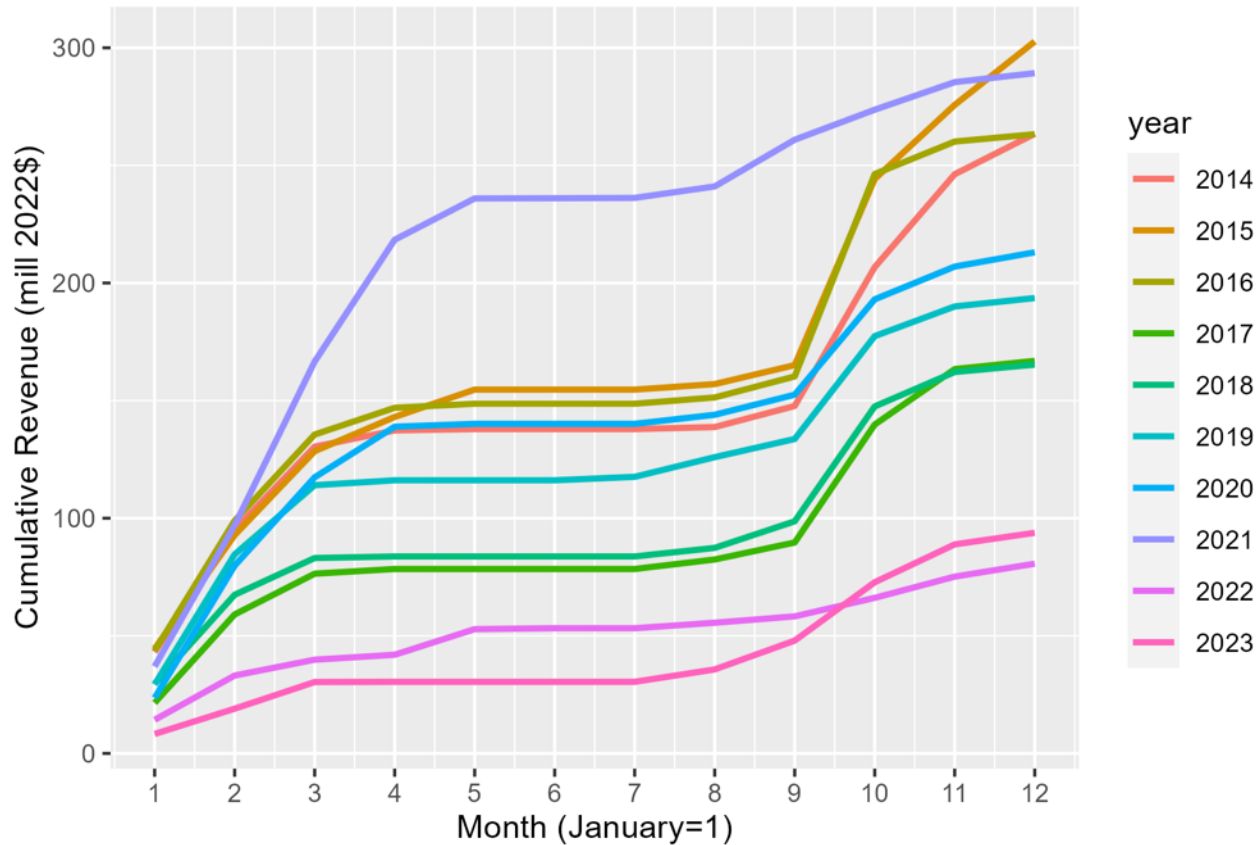
BSAI Crab Cumulative Revenue , 2014- 2023

BSAI Crab Cumulative Estimated Revenue
(million 2022\$) 2014-2023

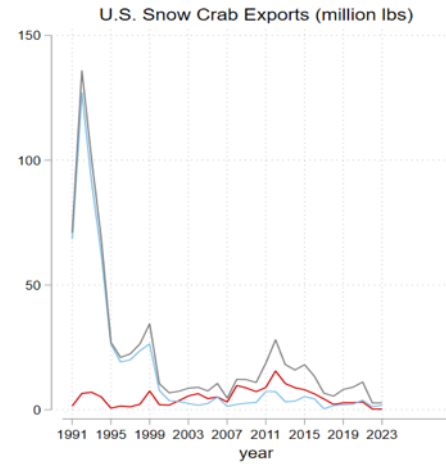
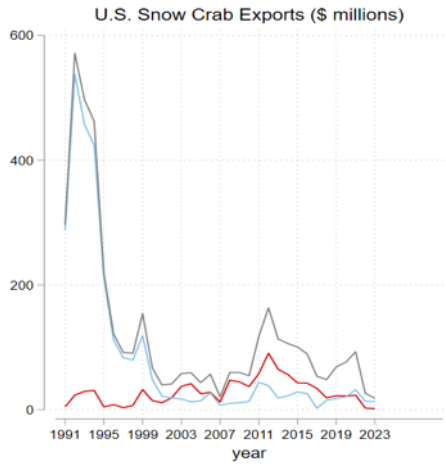


BSAI Crab Cumulative Revenue , 2014- 2023

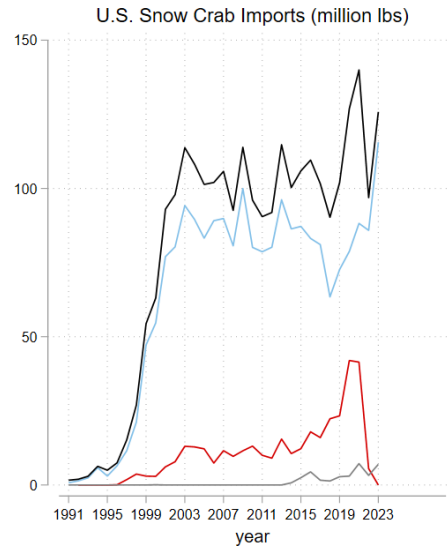
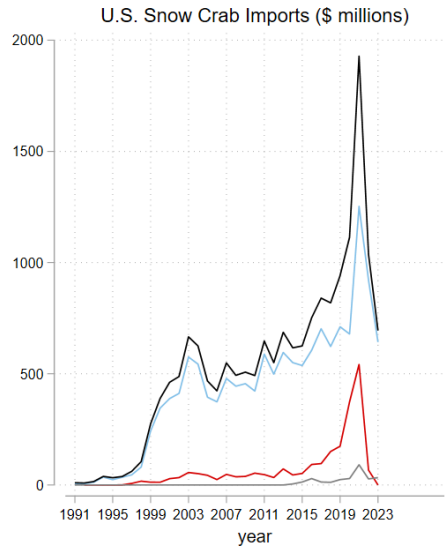
BSAI Crab Cumulative Estimated Revenue
(million 2022\$) 2014-2023



U.S. Snow Crab Imports/Exports, 1991-2023

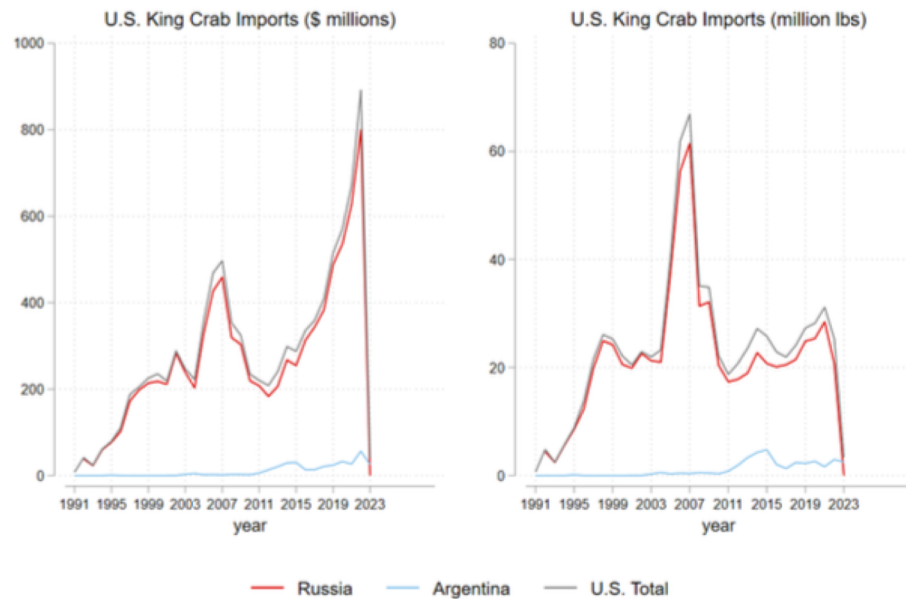
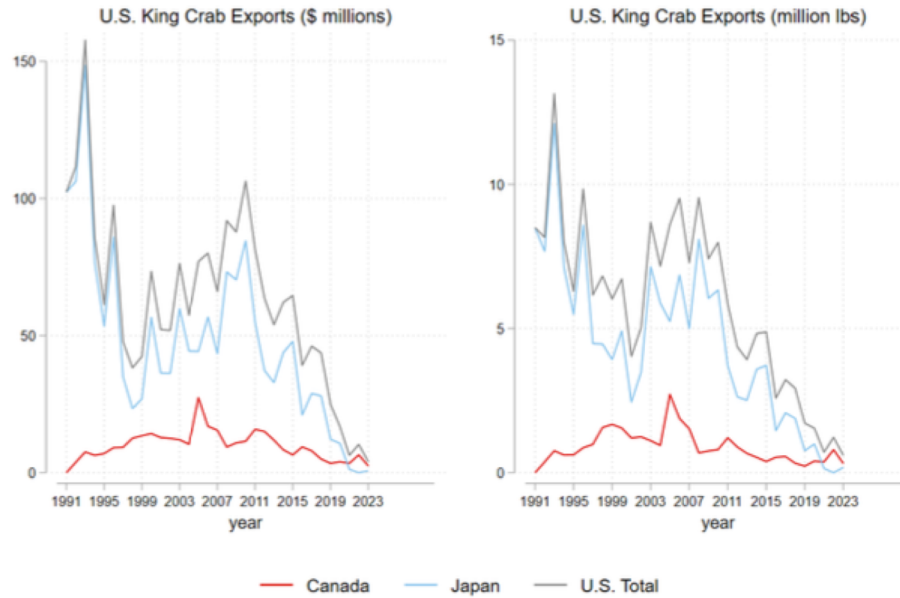


— China — Japan — U.S. Total



— Russia — Canada — Norway — U.S. Total

U.S. King Crab Imports/Exports, 1991-2023



Discussion

Priorities for completion of 2023 Economic SAFE:

- Minimal changes in scope and content of document per SSC
- Price forecasts and current-year estimates in development
- Salient indicators of current state of industry, stakeholders
- Potentially report on regional economic impact analysis of closures (ESSR study ongoing, C. Seung et al)

- ESSR Program Annual Report Coordination

- Crab, Groundfish Econ SAFE
- ACEPO
- ESPs, EPRs

Strategic plan/framework/index and communication

Stakeholder outreach

Delayed due to staffing issues



