



2023

The Oregon Commercial Nearshore Fishery Data Update



Photo: Stefanie Flax

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Table of Contents

Introduction	5
Fishery Management and Harvest Specification Updates	5
Fishery Effort and Logbook Compliance	7
China, Copper, and Quillback Rockfish Biological Samples	8
Acknowledgements	8
References	9
Tables	10
Figures	17
Appendices	33

Tables

Table 1. Oregon nearshore species and management groups.....	10
Table 2. 2023 commercial harvest guidelines.	11
Table 3. Bimonthly period durations.	11
Table 4. 2023 bimonthly limits.....	11
Table 5. Commercial length samples by species.....	12
Table 6. Commercial weight samples by species.....	12
Table 7. Logbook compliance by port group.....	13
Table 8. Logbook catch by species and period.	14
Table 9. Pounds landed by species with total ex-vessel value and average price.	16
Table 10. Effort, pounds landed, and attainment by period and management group.	16

Figures

Figure 1. Black Rockfish Management Areas.....	17
Figure 2. Black Rockfish bimonthly limit history..	18
Figure 3. Blue and Deacon Rockfish bimonthly limit history.....	18
Figure 4. Other Nearshore Rockfish bimonthly limit history.....	18
Figure 5. Greenling bimonthly limit history.	18
Figure 6. Cabezon bimonthly limit history.....	19
Figure 7. 2023 Black and Blue Rockfish permits by port group.	19
Figure 8. Black and Blue Rockfish permits by year.....	19

Figure 9. Commercial nearshore fishery effort by year and gear type. 19

Figure 10. Commercial nearshore pounds landed by year and species management group. 20

Figure 11. Commercial nearshore ex-vessel value by year and species management group. 20

Figure 12. Commercial nearshore pounds landed by year and gear type. 20

Figure 13. Commercial nearshore pounds landed by year and bimonthly period. 20

Figure 14. Commercial nearshore pounds landed by year and condition. 21

Figure 15. Commercial nearshore pounds landed by year and port group. 21

Figure 16. Commercial nearshore species average pounds landed per trip. 21

Figure 17. Black Rockfish pounds landed by year and gear type. 21

Figure 18. Black Rockfish pounds landed by year and port group. 22

Figure 19. Black Rockfish pounds landed by year and bimonthly period. 22

Figure 20. Black Rockfish pounds landed by year and condition. 22

Figure 21. Black Rockfish ex-vessel value by year. 22

Figure 22. Black Rockfish average pounds landed per trip. 23

Figure 23. Black Rockfish average ex-vessel price per pound by year and condition. 23

Figure 24. Blue and Deacon Rockfish pounds landed by year and gear type. 23

Figure 25. Blue and Deacon Rockfish pounds landed by year and port group. 23

Figure 26. Blue and Deacon Rockfish pounds landed by year and bimonthly period. 24

Figure 27. Blue and Deacon Rockfish pounds landed by year and condition. 24

Figure 28. Blue and Deacon Rockfish ex-vessel value by year. 24

Figure 29. Blue and Deacon Rockfish average pounds landed per trip. 24

Figure 30. Blue and Deacon Rockfish average ex-vessel price per pound by year and condition. 25

Figure 31. Other Nearshore Rockfish pounds landed by year and species group. 25

Figure 32. Other Nearshore Rockfish pounds landed by year and gear type. 25

Figure 33. Other Nearshore Rockfish pounds landed by year and port group. 25

Figure 34. Other Nearshore Rockfish pounds landed by year and bimonthly period. 26

Figure 35. Other Nearshore Rockfish pounds landed by year and condition. 26

Figure 36. Other Nearshore Rockfish ex-vessel value by year. 26

Figure 37. Other Nearshore Rockfish average pounds landed per trip. 26

Figure 38. Other Nearshore Rockfish average ex-vessel price per pound by year and condition. 27

Figure 39. Greenling pounds landed by year and gear type. 27

Figure 40. Greenling pounds landed by year and port group. 27

Figure 41. Greenling pounds landed by year and bimonthly period..... 27

Figure 42. Greenling pounds landed by year and condition..... 28

Figure 43. Greenling ex-vessel value by year. 28

Figure 44. Greenling average pounds landed per trip..... 28

Figure 45. Greenling average ex-vessel price per pound by year and condition..... 28

Figure 46. Cabezon pounds landed by year and gear type..... 29

Figure 47. Cabezon pounds landed by year and port group..... 29

Figure 48. Cabezon pounds landed by year and bimonthly period..... 29

Figure 49. Cabezon pounds landed by year and condition..... 29

Figure 50. Cabezon ex-vessel value by year. 30

Figure 51. Cabezon average pounds landed per trip..... 30

Figure 52. Cabezon average ex-vessel price per pound by year and condition..... 30

Figure 53. Other Nearshore Species pounds landed by year and species group..... 30

Figure 54. Other Nearshore Species pounds landed by year and gear type. 31

Figure 55. Other Nearshore Species pounds landed by port group. 31

Figure 56. Other Nearshore Species pounds landed by year and bimonthly period..... 31

Figure 57. Other Nearshore Species pounds landed by year and condition. 31

Figure 58. Other Nearshore Species average ex-vessel value by year..... 32

Figure 59. Other Nearshore Species average pounds landed per trip. 32

Figure 60. Other Nearshore Species average ex-vessel price per pound by year and condition.. 32

Figure 61. Landings attainment percentage of harvest quotas by management group..... 32

Appendices

Appendix A. Annual landing caps, harvest caps, and harvest guidelines: 2004-2022. 33

Appendix B. History of bimonthly period limits: 2004-2022. 34

Appendix C. Nearshore species commercial length and weight samples..... 44

Appendix D. 2023 nearshore species commercial length and weight samples by port group..... 50

Appendix E. 2023 nearshore species commercial length and weight sample by gear..... 55

Introduction

This document updates the 2021 and 2022 Commercial Nearshore Fishery Data Update (Vestfals 2023) with data and management details through 2023. Detailed narratives and summaries from previous years can be found on the Oregon Department of Fish and Wildlife's (ODFW) [Marine Resource Publications](#) page. This report also meets the requirement of [ORS 508.953](#), established by the Oregon Legislature in 2003 as part of the commercial nearshore fishery management system, to annually summarize logbook data for a report to the Oregon Fish and Wildlife Commission (Commission).

Oregon's nearshore waters support a limited-entry commercial fishery that targets rocky reef-associated groundfish species (Table 1). Data from the 2023 commercial nearshore fishery are summarized here, including harvest specifications, fishing effort, landed poundage, nominal ex-vessel value, fishery-dependent biological data, and logbook data. A brief description of 2023 fishery management actions is also included. Several ports have only a few participating vessels and to maintain individual confidentiality, data are grouped as follows: Garibaldi and Astoria are combined into the Garibaldi port group; Pacific City and Salmon River are combined into the Pacific City port group; Depoe Bay and Newport are combined into the Newport port group; and Florence, Winchester Bay, Charleston, and Bandon are combined into the Bandon port group. Since fishers sometimes use more than one gear type during a fishing trip, landings are summarized by the primary gear used during the trip that is recorded on Oregon commercial fish receiving tickets (fish tickets).

A Black/Blue Rockfish Limited Entry Permit (Black/Blue Permit) is required to participate in Oregon's commercial nearshore fishery. The basic permit allows for the harvest of Black Rockfish, and Blue and Deacon Rockfish in amounts up to the bimonthly limits set by the Commission for those management groups (Table 1), while allowing for only incidental harvest of the daily trip limit of 15 pounds per day of all other Nearshore Fish species combined. Many Black/Blue permits have a Nearshore Endorsement (Black/Blue/Nearshore Permit), which also allows for the harvest of Other Nearshore Rockfish, Greenling, and Cabezon up to the maximum bimonthly limits. The Nearshore Endorsement is also required to catch the federal monthly landing limit of tiger and vermilion rockfishes, both of which are on Oregon's Nearshore Fish species list. Permits must be renewed annually, and renewals require a minimum of five commercial fish landings of any species during the prior year.

All permit holders must complete and submit ODFW-issued commercial nearshore logbooks with detailed information on effort (e.g., time fished, number of hooks used), location, and estimated catch and discard. Non-permitted vessels that catch groundfish with hook and line gear (for example, targeting lingcod or other species not covered by the Black/Blue/Nearshore Permit) are also required to complete and submit logbooks.

Fishery Management and Harvest Specification Updates

Fishery managers from ODFW set specific management goals at the outset of each year to maintain a sustainable fishery from both a natural resources and a socio-economic perspective.

Commercial fishers and other interested parties can provide input on these management goals at a series of public meetings held by ODFW each fall, or they can provide testimony directly to the Commission when regulations are adopted. Largely based on public input, the primary goal for 2023 was to provide fishing opportunities throughout the calendar year without exceeding state annual commercial harvest guidelines (HG) or allowable impacts to yelloweye rockfish (*Sebastes ruberrimus*), a stock that is rebuilding after being declared overfished in 2002.

Commercial HGs are not quotas but are harvest limit regulations that serve to control fleetwide impacts to the fishery. Harvest guidelines are implemented in Oregon regulations to manage species or species groups with federal Annual Catch Limits (ACLs), harvest allocations derived from stock assessments, without exceeding those limits. Harvest guidelines differ from harvest caps and landing caps implemented in historical regulations in that attainment of a cap results in fishery shutdown. The attainment of a HG does not necessarily cap fishery impacts. Harvest guidelines are established in state rule through the Commission process by splitting ACLs among Oregon's commercial and recreational sectors based on historical catch.

For 2023, the state adopted individual commercial HGs for each of the Black Rockfish, Blue and Deacon Rockfish, Other Nearshore Rockfish, Greenling, and Cabezon management groups. Commercial HG amounts for 2023 are listed in Table 2, with fishery HGs and landing or harvest caps from 2022 and prior years listed in Appendices A and B. There is no HG for Other Nearshore Species. In general, HGs remain unchanged unless new information suggests an ACL should be adjusted. For most species, ACLs are adjusted every two years. These adjustments result from new or updated stock assessments, harvest control rules that automatically reduce harvest rates as a stock is fished down, and reductions due to scientific uncertainty, which increases with the age (staleness) of an assessment. ACL adjustments recommended by stock assessments often decrease through time from the initial assessment ACL as stock biomass is fished down to maximum sustainable yield.

The state commercial HG for Black Rockfish in 2023 remained at 122.9 metric tons (mt), unchanged from that in 2022, based on a constant harvest control rule used by the Pacific Fishery Management Council. For 2023, the Blue and Deacon Rockfish HG was set at 15.7 metric tons (mt), down 3.7% from 16.3 mt in 2022, the HG for Greenling decreased by 3.0%, from 103.8 mt to 100.7 mt, while the HG for Cabezon decreased by 3.3% from 33.5 to 32.4 mt (Table 2). The HGs for these management groups decreased due to a combination of staleness and fishing down the biomass. In contrast, the Other Nearshore Rockfish HG was set at 16.6 mt, a 49.6% increase from 11.1 mt in 2022, with new stock assessments for quillback rockfish and copper rockfish in 2021 (Langseth *et al.* 2021 and Wetzel *et al.* 2021, respectively) informing the 2023 ACL and HG for the first time. The quillback assessment estimated the stock to be healthy but quite small, and the Commission prohibited the retention of quillback rockfish for both sport and commercial non-trawl fisheries starting in 2022, which has continued since. The Commission also suspended per-trip limits for Black Rockfish Management Areas (BRMAs)(Figure 1) from 2022 through 2025 to evaluate impacts. Discard mortality for the commercial nearshore fishery was quantified by the Federal West Coast Groundfish Observer Program and summarized in National Oceanic and Atmospheric Administration Fisheries annual reports.

ODFW implements six bimonthly periods (Table 3) for which limits for the five species management groups are set for individual permitted vessels (Table 4; Figures 2 - 6; Appendix B). Bimonthly limits apply to permitted vessels for each period to regulate landings of commercial harvest relative to HGs across the calendar year. They are intended to balance the trade-off between early HG attainment resulting in limit reductions or even fishery closure with providing year-round fishery access. Limits can be adjusted up or down, in-season, to allow greater opportunity for reaching HGs or to slow harvest to stay below allocations. Public input regarding bimonthly limits and other management measures for 2023 was sought at the annual commercial nearshore fishery public meetings held in September 2022 and at the December 2022 Commission meeting. Based on both meeting input and recommendations from ODFW, the Commission adopted annual HGs, bimonthly limits, and other fishery regulations for 2023 at the December 2022 Commission meeting.

The bimonthly limits put into effect at the outset of 2023 were intended to require few or no in-season changes and provide predictable allocations, season lengths, and market supply. Initial limits for Black Rockfish in 2023 were set at 1,800 pounds for Periods 1, 2, 5, and 6, and 2,400 pounds for Periods 3 and 4 (Table 4). Limits for Blue and Deacon Rockfish were set at 1,500 pounds, Other Nearshore Rockfish at 450 pounds, Greenling at 1,200 pounds, and Cabezon at 1,500 pounds for all bimonthly periods for 2023. Since landings of Black Rockfish, Other Nearshore Rockfish, Greenling, and Cabezon were running below average by mid-summer 2023, in-season adjustments were made for Periods 4, 5, and 6 (Table 5). Black Rockfish limits were increased by 300 pounds (12.5%) from 2,400 pounds to 2,700 pounds for Period 4 and by 900 pounds (50%) from 1,800 pounds to 2,700 pounds for Periods 5 and 6. Other Nearshore Rockfish limits were raised by 200 lbs (44%) from 450 pounds to 650 pounds. Greenling limits were raised by 800 pounds (67%), from 1,200 pounds to 2,000 pounds per period. Cabezon limits were increased by 1,000 pounds (67%) from 1,500 pounds to 2,500 pounds per period. These increases were intended to allow additional opportunity to attain a larger portion of the state Black Rockfish, Other Nearshore Rockfish, Greenling, and Cabezon HGs.

Fishery Effort and Logbook Compliance

In 2023, 110 Black/Blue Permits were issued, 68 of which had a Nearshore Endorsement. All Black/Blue, non-endorsed permits from 2022 renewed for 2023. In addition, two Black/Blue permits were reinstated by the Commercial Fisheries Permit Board after appeals of permit renewal denials were evaluated. Landings of nearshore species were made by 104 permitted vessels (63 nearshore-endorsed), for 95% permit participation. Fishing effort by these vessels totaled 1,958 fishing days. A total of 53 non-permitted vessels made hook-and-line groundfish landings over 449 boat-days.

The total number of trips requiring nearshore logbook submissions was 2,407, which represented 601,731 pounds of fish landed. Logbooks were received for 2,295 of those trips, for a compliance rate of over 95%, a slight increase from 2022 (92%)(Table 7). ODFW staff worked collaboratively with the Oregon State Police to identify and address compliance issues with individual permit holders.

End of the year attainment of the state HGs for 2023, not including discard mortality, was 84% for Black Rockfish, 87% for Blue and Deacon Rockfish, 66% for Other Nearshore Rockfish, 14% for Greenling, and 63% for Cabezon (Table 10).

China, Copper, and Quillback Rockfish Biological Samples

Observations worth noting from commercial fishery biological samples from 2023 and prior are the significant drops and declining trends in average sizes of the main Other Nearshore Rockfish species. From 2019 to 2020, the average China rockfish length decreased by half an inch and this lower average has persisted ever since, with 2023 having the lowest average length over the entire record (12.8 cm). Similarly, there was a gradual decline in average weight from 2016 to 2020, and while this trend appeared to have leveled off in 2021 and 2022, 2023 had the second lowest average weight (1.75 lbs) for China rockfish over the time series. The decline in China rockfish size has been loosely mirrored in quillback rockfish length and weight trends, although slight increases were seen in 2023. Copper rockfish average length and weight gradually increased from 2017 through 2020 before declining slightly in 2021 and more sharply in 2022. A slight decrease in average length was observed in 2023, while average weight increased slightly. For all three species, average lengths and weights in 2023 were at the low end of the historical range of these values (Appendix C).

While the cause of these patterns is unclear, it is possible that either environmental or harvest related factors, or a combination of both, are driving these observed declines. An increase in the number of younger and smaller fish entering the fishery due to above average recruitment may also be driving length and weight distributions smaller. Conversely, it is possible that older fish are becoming smaller and lighter, influenced by environmental drivers such as food availability altered by warm water conditions that have occurred frequently in the northeastern Pacific since 2015. Alternatively, harvest patterns across space and time or by gear type may be hyper stable, changing stock size distributions while masking depletion concerns. Sampling patterns will be evaluated to determine if these patterns are driven by variability in the proportion of samples taken by gear type (longline vs. hook and line). Quillback rockfish and copper rockfish underwent separate data-moderate assessments in 2021 (Langseth *et al.* 2021 and Wetzell *et al.* 2021, respectively). Given that retention of quillback rockfish has been prohibited in the non-trawl fishery since late 2021, data from other fisheries or fishery-independent surveys will be required to determine biological trends. Indeed, the quillback rockfish biological data presented in this report were obtained from the trawl fishery, coming almost exclusively from the Garibaldi port group. ODFW will continue to monitor these species, evaluate the available data, consider regulation adjustments, and support ongoing stock assessment efforts.

Acknowledgements

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Tables

Table 1. Fish species on Oregon’s nearshore species list, including the state management group under which each is managed.

Management Group	Common Name	Scientific Name
Black Rockfish	Black rockfish	<i>Sebastes melanops</i>
Blue & Deacon Rockfish	Blue rockfish	<i>Sebastes mystinus</i>
	Deacon rockfish	<i>Sebastes diaconus</i>
Other Nearshore Rockfish	Kelp rockfish	<i>Sebastes atrovirens</i>
	Brown rockfish	<i>Sebastes auriculatus</i>
	Gopher rockfish	<i>Sebastes carnatus</i>
	Copper rockfish	<i>Sebastes caurinus</i>
	Black & yellow rockfish	<i>Sebastes chrysomelas</i>
	Calico rockfish	<i>Sebastes dalli</i>
	Quillback rockfish	<i>Sebastes maliger</i>
	China rockfish	<i>Sebastes nebulosus</i>
	Grass rockfish	<i>Sebastes rastrelliger</i>
	Olive rockfish	<i>Sebastes serranoides</i>
Treefish	Treefish	<i>Sebastes serriceps</i>
Greenling	Kelp greenling	<i>Hexagrammos decagrammus</i>
	Rock greenling	<i>Hexagrammos lagocephalus</i>
	Whitespotted greenling	<i>Hexagrammos stelleri</i>
	Painted greenling	<i>Oxylebius pictus</i>
Cabazon	Cabazon	<i>Scorpaneichthys marmoratus</i>
Other Nearshore Species	Buffalo sculpin	<i>Enophrys bison</i>
	Red Irish lord	<i>Hemilepidotus hemilepiotus</i>
	Brown Irish lord	<i>Hemilepidotus spinosus</i>
Federal Shelf rockfish	Vermilion rockfish	<i>Sebastes minatus</i>
	Tiger rockfish	<i>Sebastes nigrocinctus</i>

The Oregon Commercial Nearshore Fishery Data Update: 2023

Table 2. Harvest guidelines (mt) for state management groups for 2023.

Year	Black Rockfish	Blue & Deacon Rockfish	Other Nearshore Rockfish	Greenling	Cabazon	Other Nearshore Species
2023	122.9	15.7	16.6	100.7	32.4	N/A

Table 3. Bimonthly cumulative period durations.

Period	Duration
1	January - February
2	March - April
3	May - June
4	July - August
5	September - October
6	November - December

Table 4. Bimonthly limits from commercial nearshore state management groups at the outset of 2023. In-season bimonthly limit changes with realized limits are depicted in italics.

Management Group	Period(s)	2023 Outset Limit - pounds (<i>in-season change</i>)
Black Rockfish	1	1,800
	2	1,800
	3	2,400
	4	2,400
	<i>Jul 5</i>	<i>(2,700)</i>
	5	1,800 <i>(2,700)</i>
Blue & Deacon Rockfish	6	1,800 <i>(2,700)</i>
	1 - 6	1,500
Other Nearshore Rockfish	1 - 4	450
	<i>Jul 5</i>	<i>650</i>
	5 - 6	450 <i>(650)</i>
Greenling	1 - 4	1,200
	<i>Jul 5</i>	<i>2,000</i>
	5 - 6	1,200 <i>(2,000)</i>
Cabazon	1 - 4	1,500
	<i>Jul 5</i>	<i>2,500</i>
	5 - 6	1,500 <i>(2,500)</i>

Table 5. Summary of 2023 length samples (inches) from the Oregon commercial nearshore fishery.

Species	Sample Size	Average	Range	95% CI (±)
Black rockfish	5,893	15.5	9.8 - 20.9	0.0
Blue rockfish	174	13.8	11.4 - 16.5	0.1
Cabezon	933	19.7	12.6 - 28.3	0.2
China rockfish	1,279	12.8	10.6 - 16.5	0.1
Copper rockfish	234	16.0	11.8 - 21.3	0.2
Deacon rockfish	986	13.8	10.2 - 17.3	0.1
Gopher rockfish	62	12.2	11.0 - 15.0	0.2
Grass rockfish	12	14.6	13.0 - 15.7	0.6
Kelp greenling	1,944	14.0	9.1 - 25.6	0.1
Quillback rockfish	180	14.4	10.2 - 18.9	0.3
Tiger rockfish	34	15.8	12.6 - 19.7	0.6
Vermilion rockfish	140	18.4	13.8 - 24.8	0.4

Table 6. Summary of 2023 weight samples (pounds) from the Oregon commercial nearshore fishery.

Species	Sample Size	Average	Range	95% CI (±)
Black rockfish	5,893	2.4	0.5 - 6.1	0.0
Blue rockfish	174	2.1	0.8 - 3.5	0.1
Cabezon	933	5.4	2.1 - 16	0.2
China rockfish	1,279	1.8	1.0 - 4.5	0.0
Copper rockfish	234	3.3	1.4 - 7.2	0.2
Deacon rockfish	986	1.8	0.7 - 3.6	0.0
Gopher rockfish	62	1.5	1.1 - 2.9	0.1
Grass rockfish	12	2.6	1.4 - 3.2	0.3
Kelp greenling	1,944	1.5	0.3 - 7.1	0.0
Quillback rockfish	180	2.2	0.6 - 4.8	0.1
Tiger rockfish	34	3.2	1.4 - 5.6	0.4
Vermilion rockfish	140	4.9	1.8 - 12.8	0.4

Table 7. 2023 logbook program compliance by port group including open access lingcod trip logs.

Port	Trips Fished	Trips with no Log	Compliance
Garibaldi group	171	2	98.8%
Pacific City	211	6	97.2%
Newport group	404	29	92.8%
Bandon group	195	7	96.4%
Port Orford	1,044	33	96.8%
Gold Beach	318	34	89.3%
Brookings	64	1	98.4%
Total	2,407	112	95.3%

The Oregon Commercial Nearshore Fishery Data Update: 2023

Table 8. Summary of commercial nearshore logbook reported retained (Ret.) and released (Rel.) fish (pounds) by species and period in 2023. Rockfish is abbreviated in species names as RF.

Species	Period 1		Period 2		Period 3		Period 4		Period 5		Period 6		Annual Totals	
	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.
Big skate	0	0	0	0	0	1	0	90	0	4	0	3	0	98
Black & yellow RF	0	0	0	3	2	17	0	20	0	19	0	7	2	66
Black RF	211	8,566	1,200	29,995	697	50,987	746	64,492	339	48,195	48	15,783	3,241	218,018
Blackgill RF	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Blue RF	69	670	444	2,974	437	2,563	1,421	7,099	1,275	9,117	492	4,758	4,138	27,181
Bocaccio	0	0	0	0	0	55	0	722	0	6	0	0	0	783
Brown RF	0	0	0	9	0	5	0	3	0	4	0	2	0	23
Buffalo sculpin	0	0	0	0	0	2	0	0	0	19	0	8	0	29
Cabazon	150	2,656	648	6,684	478	6,422	265	9,171	408	11,547	212	5,353	2,161	41,833
Canary RF	0	138	28	737	65	1,883	14	1,777	34	1,051	39	387	180	5,973
China RF	106	509	599	2,228	545	2,148	790	4,197	785	4,718	318	1,953	3,143	15,753
Coho salmon	0	0	0	0	0	0	4	0	0	0	0	0	4	0
Copper RF	0	85	57	677	8	766	17	1,182	16	1,226	2	753	100	4,689
Deacon RF	0	0	0	0	0	0	0	23	0	4	0	0	0	27
Giant Pacific octopus	0	20	0	6	0	0	0	41	0	133	0	0	0	200
Gopher RF	0	9	11	31	9	85	16	166	10	194	4	26	50	511
Grass RF	0	0	0	29	0	14	0	0	0	6	0	47	0	96
Greenlings	0	0	0	0	6	0	0	0	0	0	0	0	6	0
Jack mackerel	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Kelp greenling	45	849	314	5,017	155	4,356	259	6,635	284	8,141	148	3,011	1,205	28,009
Lingcod	426	6,617	4,512	60,048	4,123	38,657	2,428	30,808	1,203	29,977	1,595	47,753	14,287	213,860
Nominal POP	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Nominal shelf RF	0	0	0	100	0	0	0	0	0	0	0	0	0	100
Olive RF	0	0	0	3	0	18	0	0	0	3	0	0	0	24

The Oregon Commercial Nearshore Fishery Data Update: 2023

Table 8. continued

Species	Period 1		Period 2		Period 3		Period 4		Period 5		Period 6		Annual Totals	
	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.	Rel.	Ret.
Pacific halibut	0	0	0	0	0	360	0	20	100	0	0	0	100	380
Pacific sanddab	0	0	0	0	0	2	0	0	0	1	0	0	0	3
Quillback RF	69	0	278	0	296	0	269	3	373	21	75	0	1,360	24
Red Irish lord	0	0	2	2	0	0	0	2	0	20	0	2	2	26
Rosethorn RF	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Sablefish	0	0	0	0	0	4	0	4	0	0	0	0	0	8
Silvergray RF	0	0	0	0	0	0	0	125	0	0	0	0	0	125
Skates	0	0	0	14	0	0	0	17	0	0	0	9	0	40
Speckled RF	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Spiny dogfish shark	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Spotted ratfish	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Starry flounder	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Surfperches	0	0	0	0	0	2	0	0	0	2	0	1	0	5
Tiger RF	0	5	0	56	0	28	0	7	5	55	0	49	5	200
Vermilion RF	0	164	21	927	7	723	3	1,064	3	1,141	0	556	34	4,575
Widow RF	0	51	0	15	0	8	0	0	0	7	0	7	0	88
Wolf eel	0	0	0	39	0	29	0	70	0	27	0	0	0	165
Yelloweye RF	20	0	287	0	237	0	129	0	223	9	551	0	1,447	9
Yellowtail RF	0	82	45	147	146	906	44	707	27	482	1	220	263	2,544
Period Total	1,096	20,421	8,446	109,748	7,211	110,042	6,405	128,464	5,085	116,129	3,485	80,690	31,728	565,494

The Oregon Commercial Nearshore Fishery Data Update: 2023

Table 9. Total pounds landed, total value, and average prices of live and fresh fish by species in 2023. Rockfish is abbreviated in species names as RF.

Species	Live lbs	Fresh lbs	Live Value \$	Fresh Value \$	Avg Live Price \$	Avg Fresh Price \$
Black RF	117,465	109,986	328,817.80	220,332.75	2.80	2.00
Blue RF	6,752	23,407	21,235.25	37,476.85	3.15	1.60
Cabezon	41,630	3,865	192,419.00	8,308.00	4.62	2.15
Greenling	29,492	1,033	160,083.75	1,471.00	5.43	1.42
Olive RF	1	25	1.75	49.75	1.75	1.99
Black & yellow RF	82	39	562.50	53.00	6.86	1.36
Brown RF	20	19	112.00	27.55	5.60	1.45
China RF	15,335	2,250	113,492.90	3,640.55	7.40	1.62
Copper RF	4,127	1,288	23,658.50	2,298.80	5.73	1.78
Gopher RF	461	43	2,736.10	75.00	5.94	1.74
Grass RF	98	NA	676.75	NA	6.91	NA
Kelp RF	NA	1	NA	2.00	NA	2.00
Quillback RF	NA	406	NA	13.20	NA	0.03
Buffalo sculpin	34	NA	187.00	NA	5.50	NA
Red Irish lord	31	NA	170.50	NA	5.50	NA
Tiger RF	271	153	1,767.50	242.40	6.52	1.58
Vermilion RF	2,230	3,920	14,820.75	6,482.56	6.65	1.65
Total	218,029	146,435	860,742.05	280,473.41	5.36	1.60

Table 10. Number of trips landing nearshore species and landings in pounds for state management groups by bimonthly period with 2023 attainment.

Period	Trip Count	Black Rockfish	Blue & Deacon Rockfish	Other Nearshore Rockfish	Greenling	Cabezon	Other Nearshore Species
1	108	8,631	655	608	895	2,669	207
2	358	31,972	3,620	3,389	5,674	7,329	1,190
3	460	54,768	2,938	3,824	5,189	7,364	946
4	496	64,798	7,520	6,018	6,784	9,743	1,736
5	456	51,045	9,613	7,429	8,776	12,778	1,763
6	277	16,237	5,813	2,927	3,207	5,612	797
Total	2,155	227,451	30,159	24,195	30,525	45,495	6,639
Attainment (%)		84.0	87.1	66.2	13.7	63.4	N/A

Figures

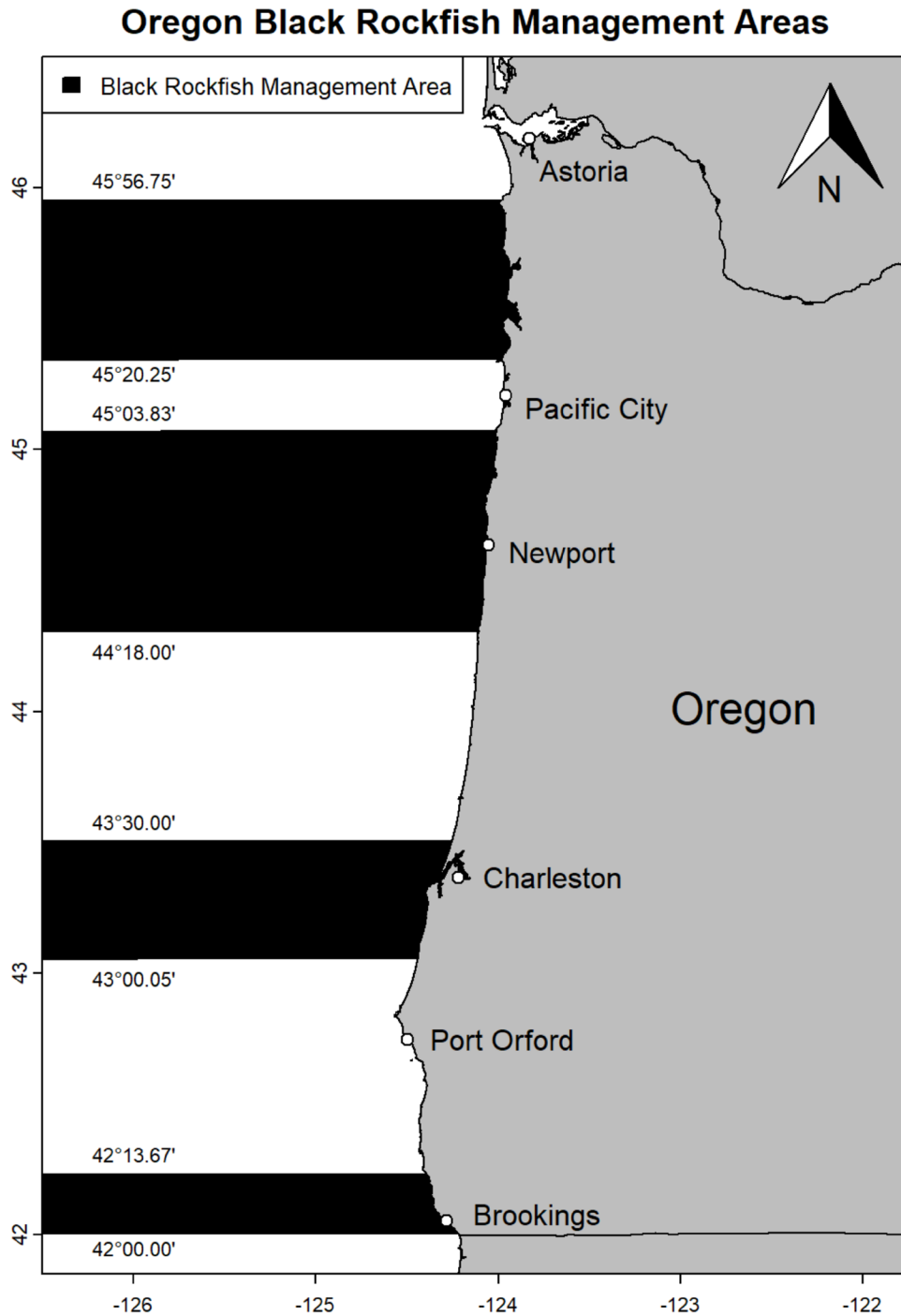


Figure 1. Black Rockfish Management Areas (BRMAs) off Oregon. In 2022, per-trip limits for BRMAs were suspended, allowing vessels with a Black/Blue Rockfish Permit to land up to the 2-month period limit on a single trip regardless of whether any fishing occurred in a BRMA.

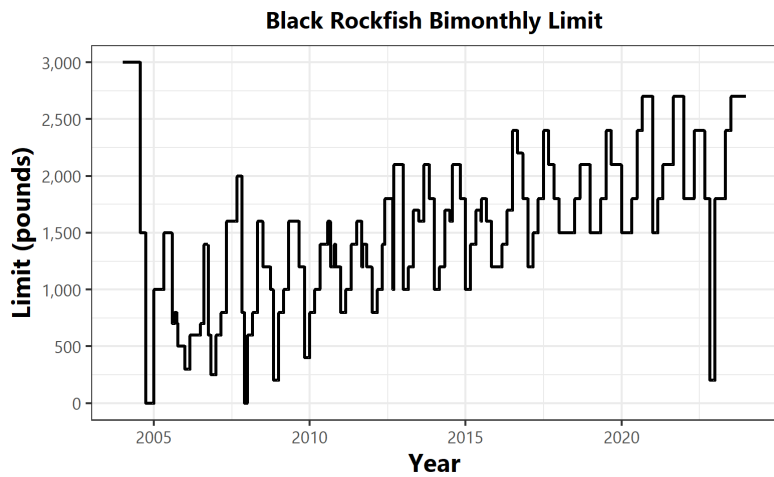


Figure 2. Black Rockfish bimonthly limit history. Prior to 2015 this limit was a combined Black/Blue/Deacon Rockfish limit.

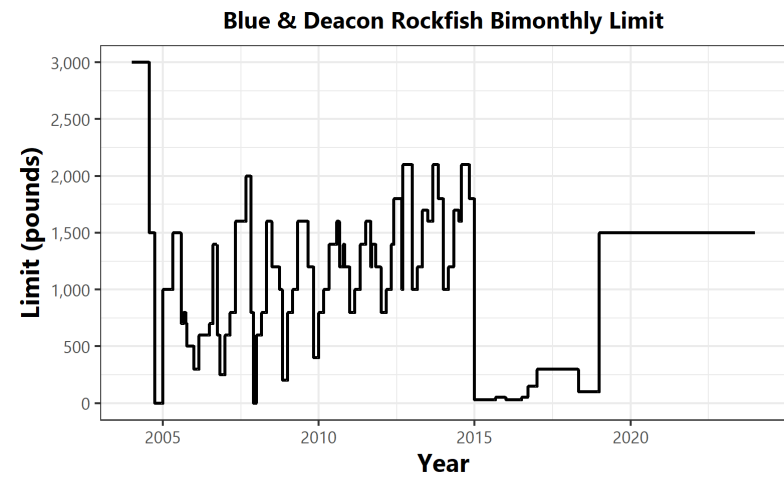


Figure 3. Blue and Deacon Rockfish bimonthly limit history. Prior to 2015 this limit was a combined Black/Blue/Deacon Rockfish limit.

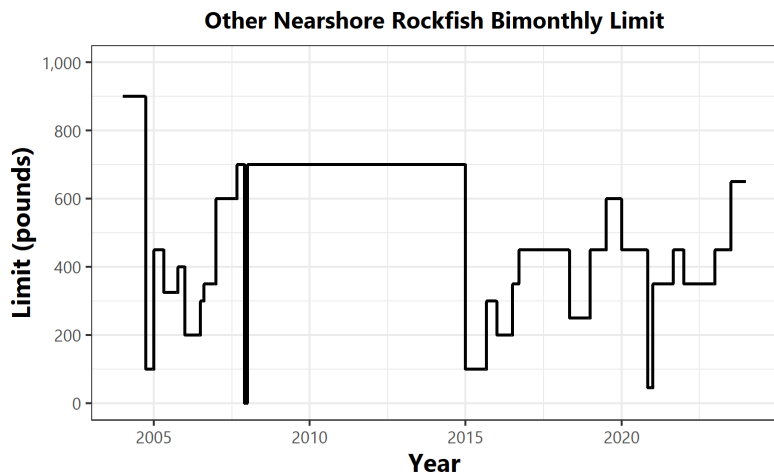


Figure 4. Other Nearshore Rockfish bimonthly limit history.

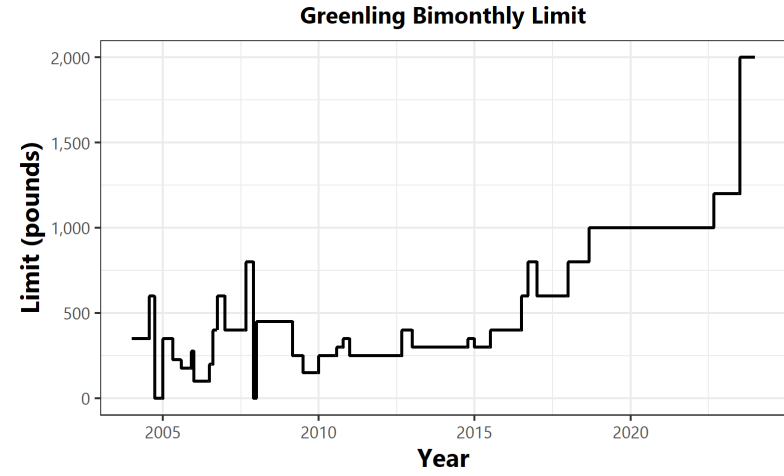


Figure 5. Greenling bimonthly limit history.

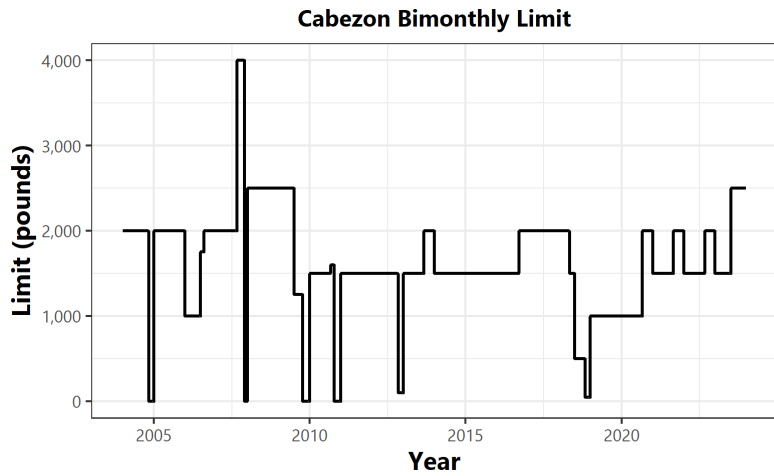


Figure 6. Cabezon bimonthly limit history.

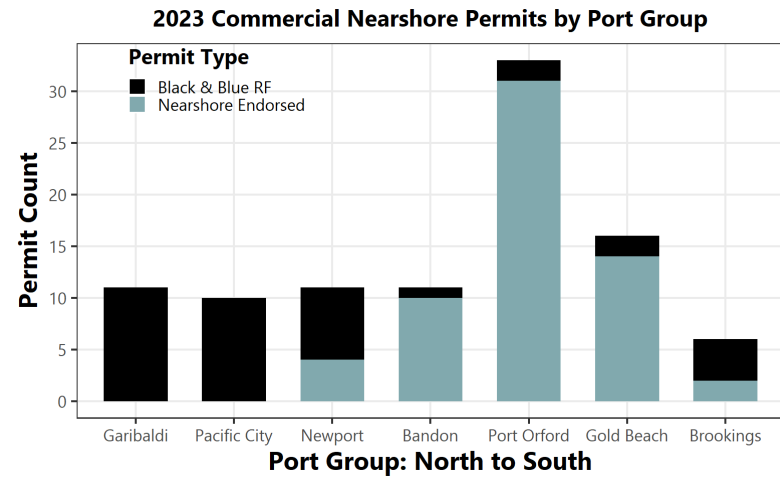


Figure 7. 2023 Commercial nearshore Black and Blue Rockfish permits by port group.

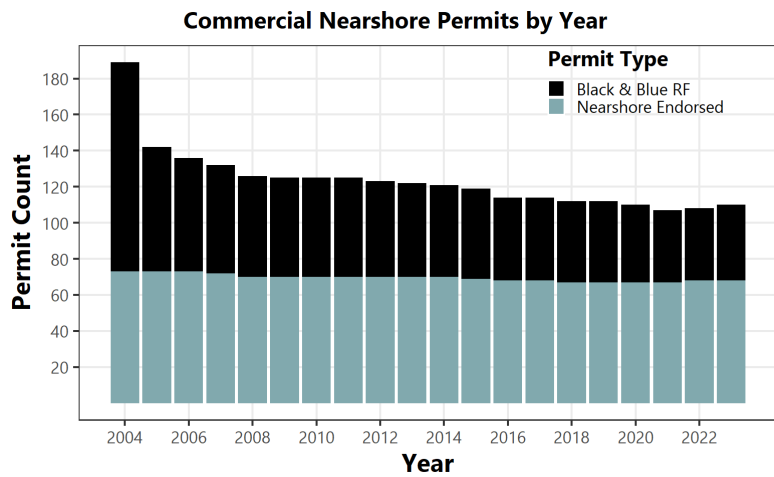


Figure 8. History of commercial nearshore Black and Blue Rockfish permits.

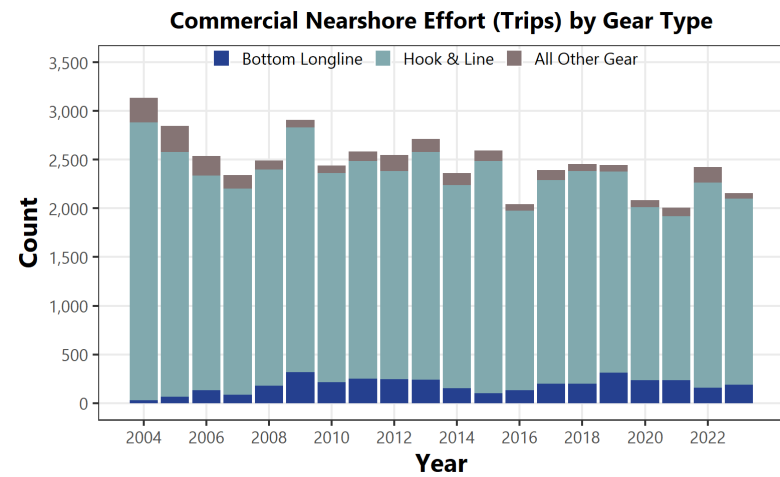


Figure 9. Commercial nearshore fishery effort (day trip) by year and gear type.

The Oregon Commercial Nearshore Fishery Data Update: 2023

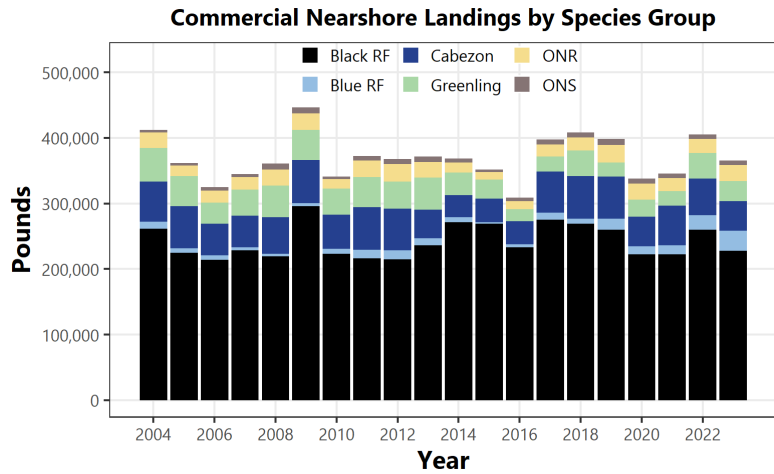


Figure 10. Commercial nearshore landings (pounds) by year and species management group.

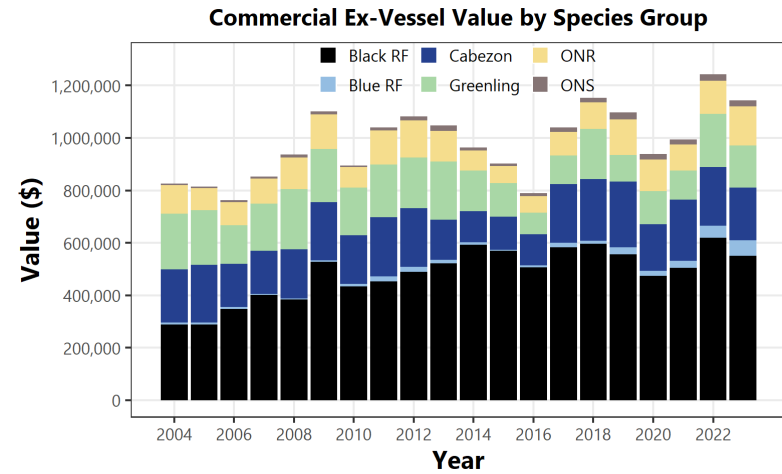


Figure 11. Commercial nearshore landings ex-vessel value (\$) by year and species management group.

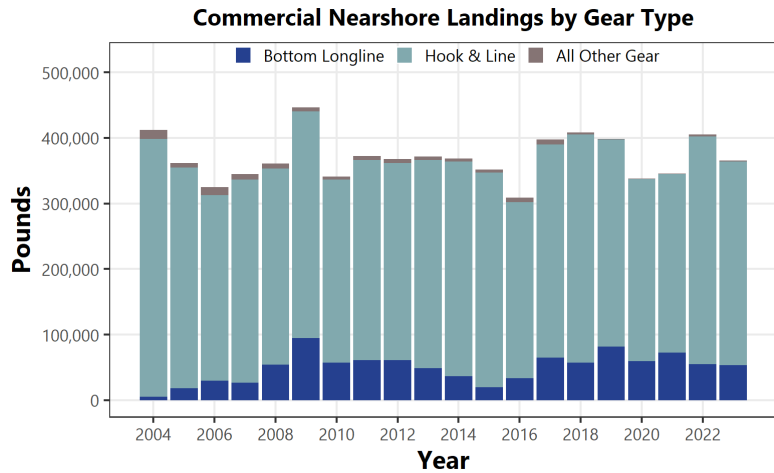


Figure 12. Commercial nearshore landings (pounds) by year and gear type.

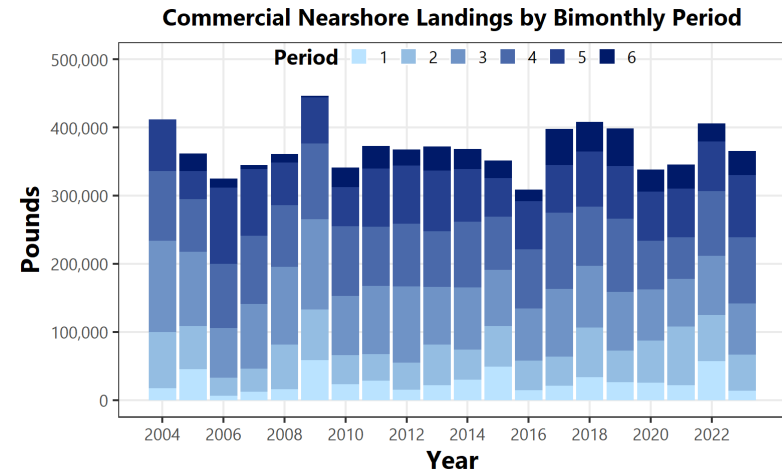


Figure 13. Commercial nearshore landings (pounds) by year and bimonthly period.

The Oregon Commercial Nearshore Fishery Data Update: 2023

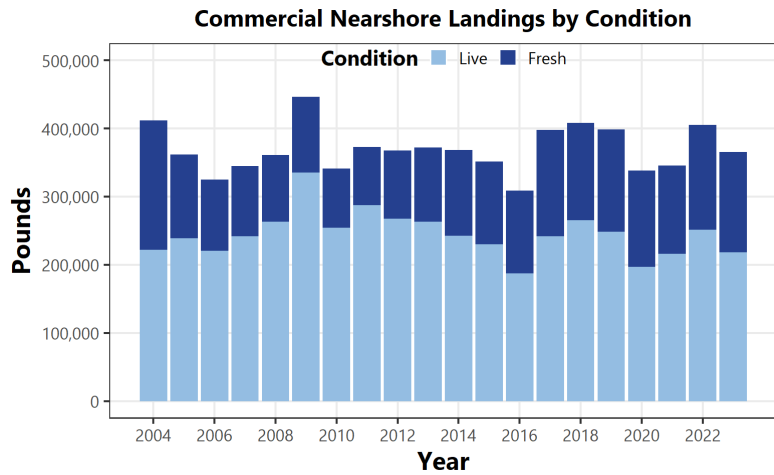


Figure 14. Commercial nearshore landings (pounds) by year and market condition.

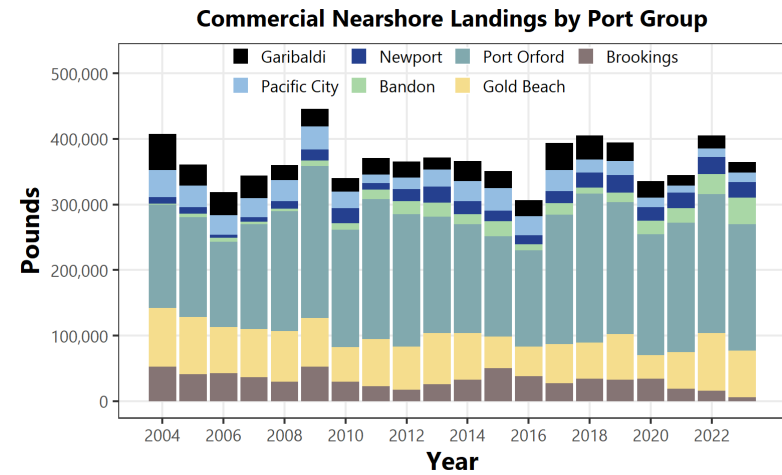


Figure 15. Commercial nearshore landings (pounds) by year and port group.

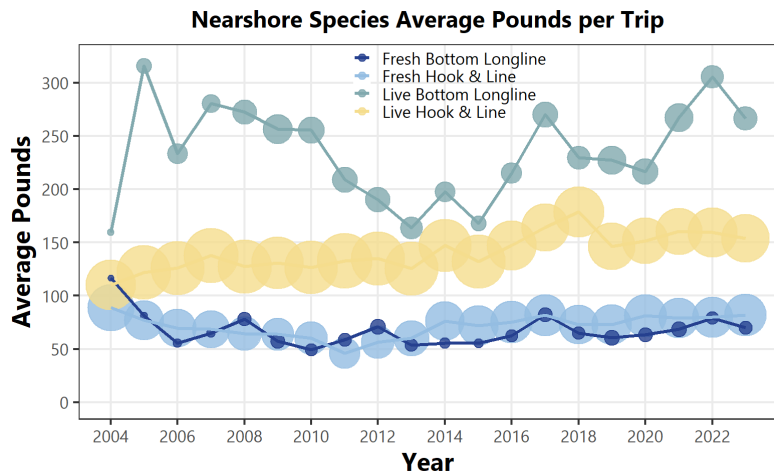


Figure 16. Average pounds landed per trip for all nearshore species combined by year, gear type, and market condition. Bubble size is weighted by the percentage of pounds landed by each sector.

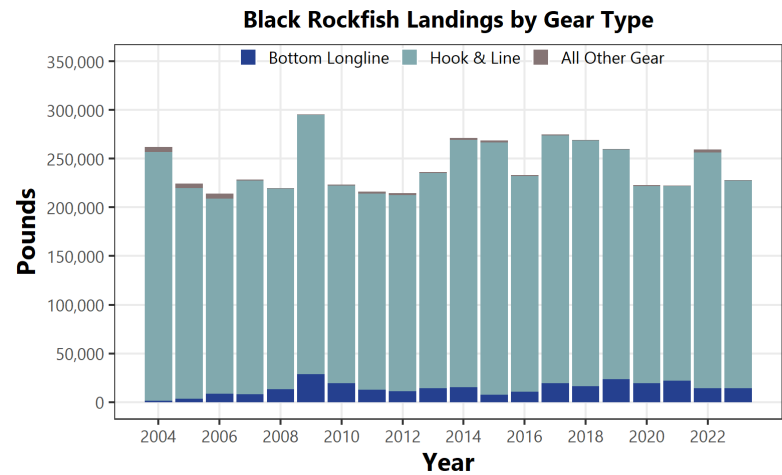


Figure 17. Black Rockfish landings (pounds) by year and gear type.

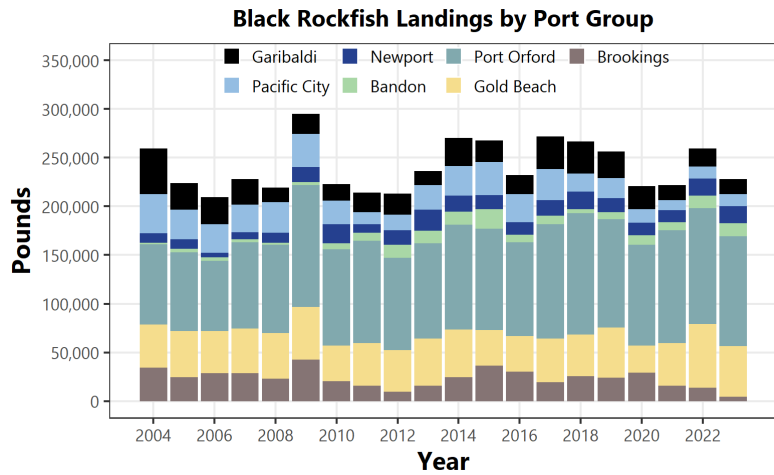


Figure 18. Black Rockfish landings (pounds) by year and port group.

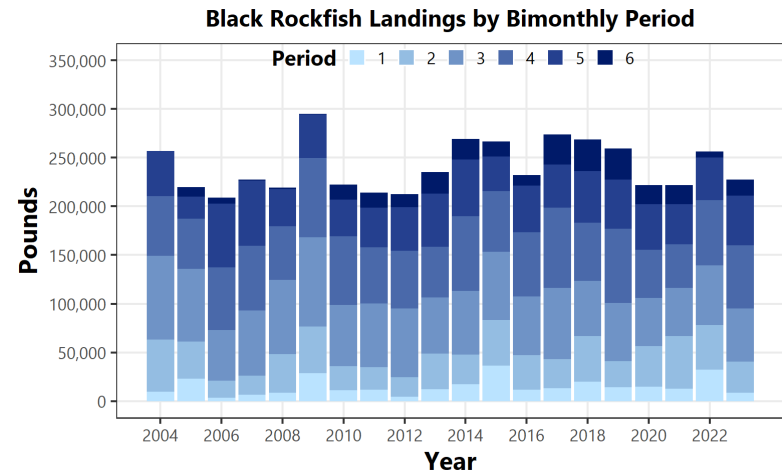


Figure 19. Black Rockfish landings (pounds) by year and bimonthly period.

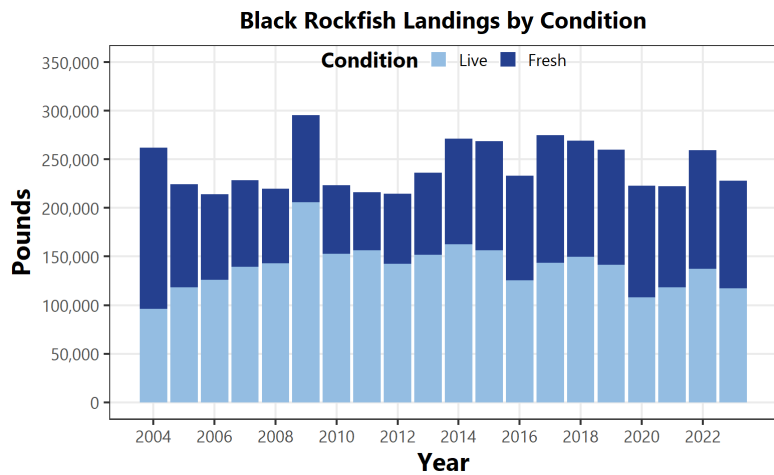


Figure 20. Black Rockfish landings (pounds) by year and market condition.

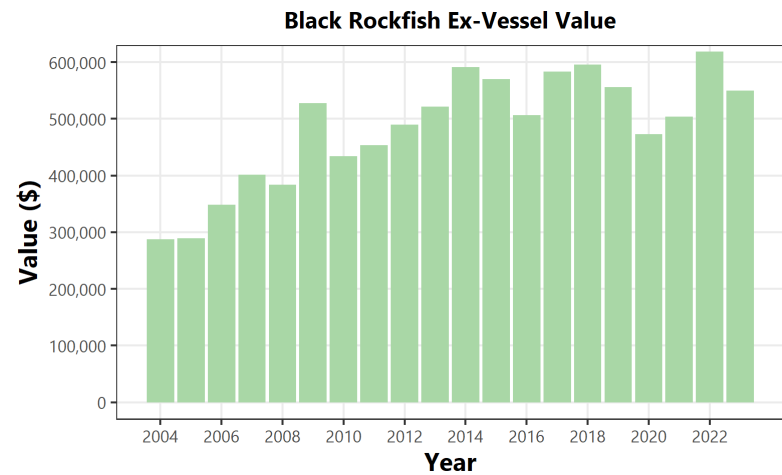


Figure 21. Black Rockfish ex-vessel value (\$) by year.

The Oregon Commercial Nearshore Fishery Data Update: 2023

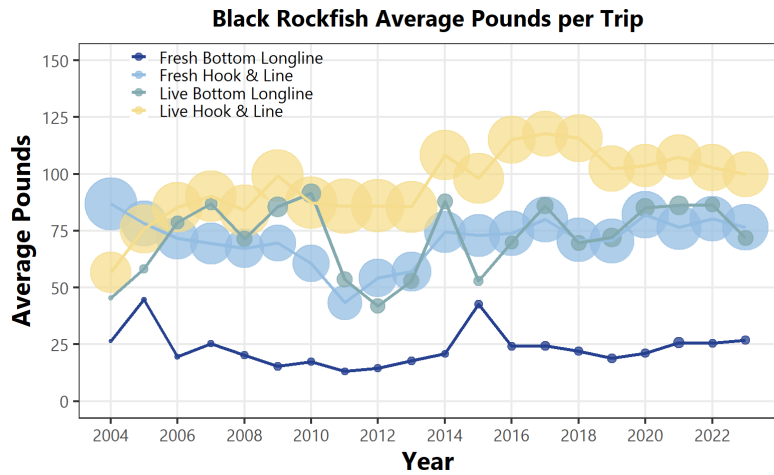


Figure 22. Average pounds landed per trip for Black Rockfish by year, gear type, and market condition. Bubble size is weighted by the percentage of pounds landed by each sector.

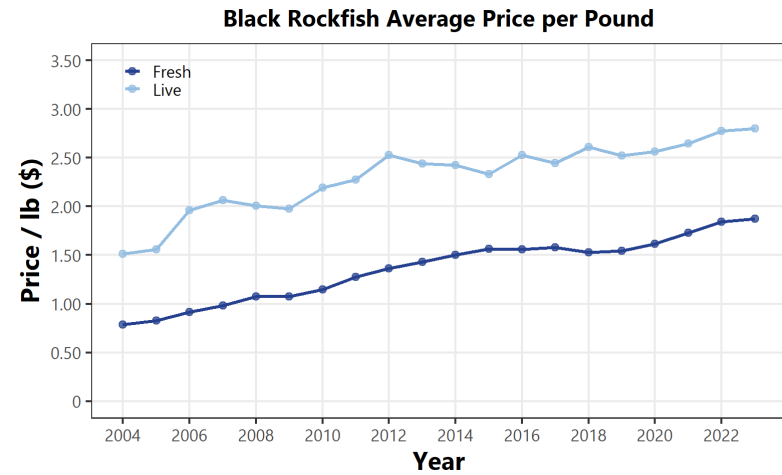


Figure 23. Black Rockfish average ex-vessel price per pound by year and market condition.

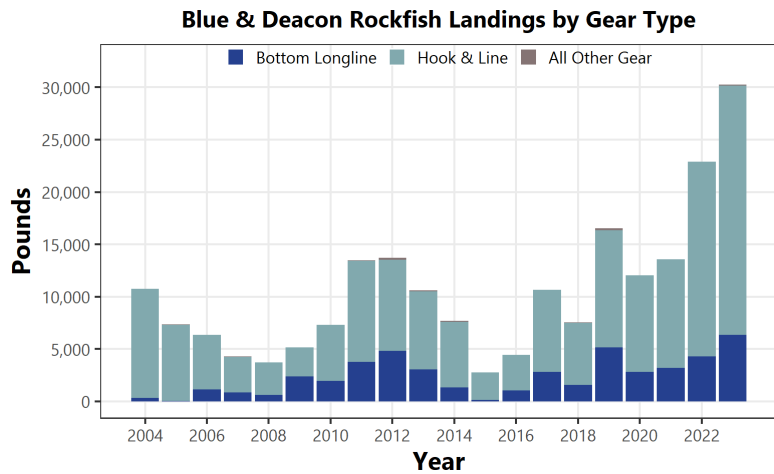


Figure 24. Blue and Deacon Rockfish landing (pounds) by year and gear type.

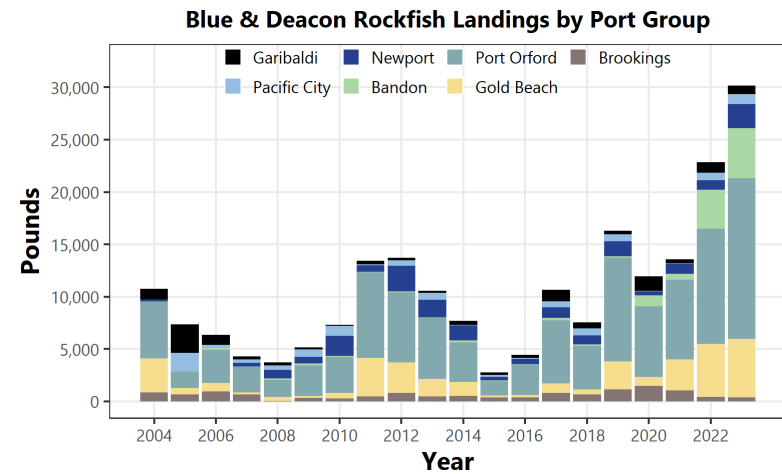


Figure 25. Blue and Deacon Rockfish landings (pounds) by year and port group.

The Oregon Commercial Nearshore Fishery Data Update: 2023

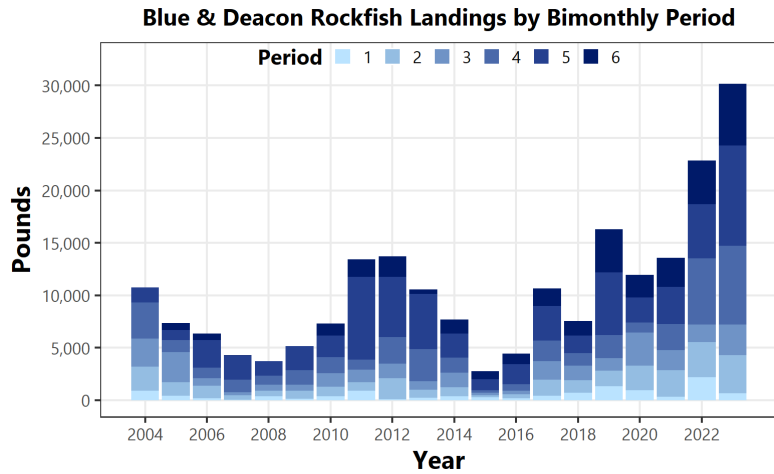


Figure 26. Blue and Deacon Rockfish landings (pounds) by year and bimonthly period.

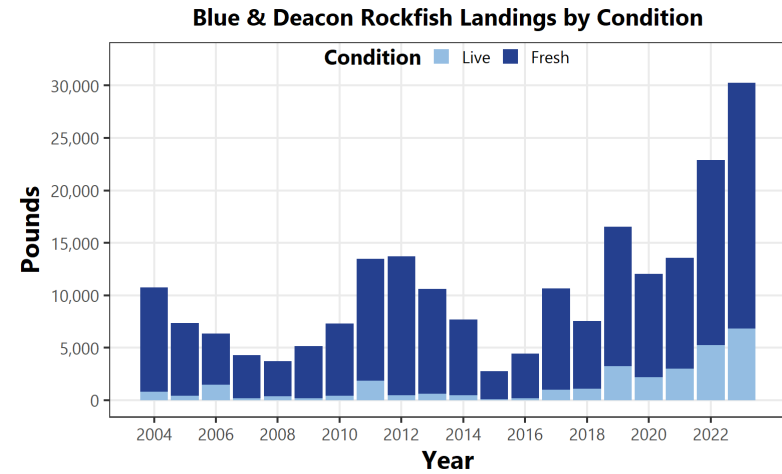


Figure 27. Blue and Deacon Rockfish landings (pounds) by year and market condition.

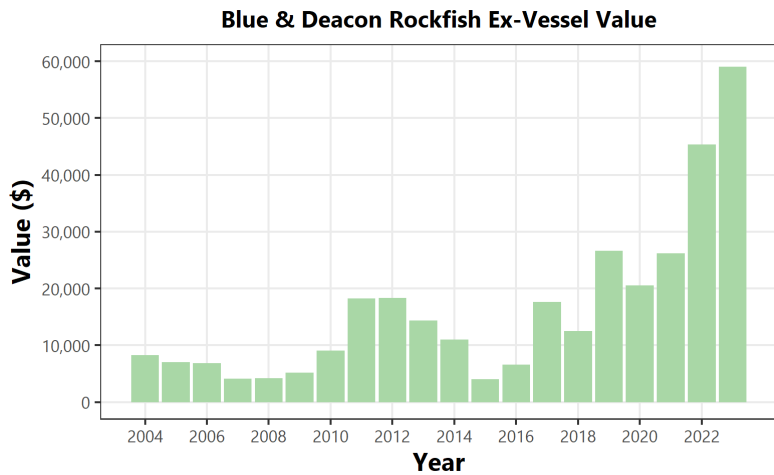


Figure 28. Blue and Deacon Rockfish by ex-vessel value (\$) by year.

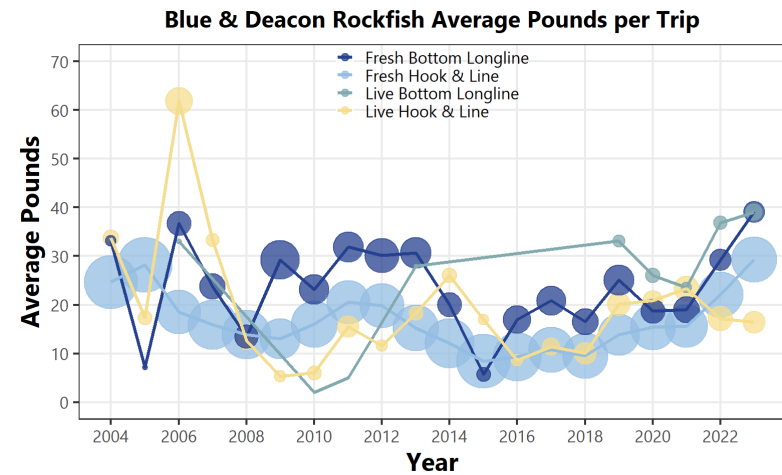


Figure 29. Average pounds landed per trip for Blue and Deacon Rockfish by year, gear type, and market condition. Bubble size is weighted by the percentage of pounds landed by each sector.

The Oregon Commercial Nearshore Fishery Data Update: 2023

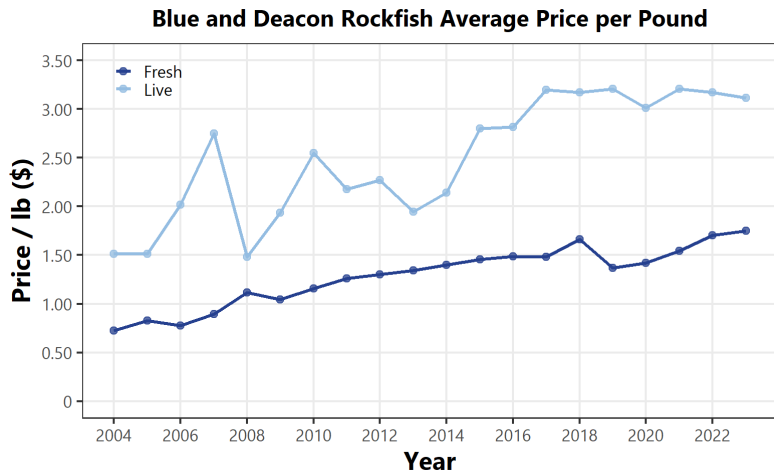


Figure 30. Blue and Deacon Rockfish average ex-vessel price per pound by year and market condition.

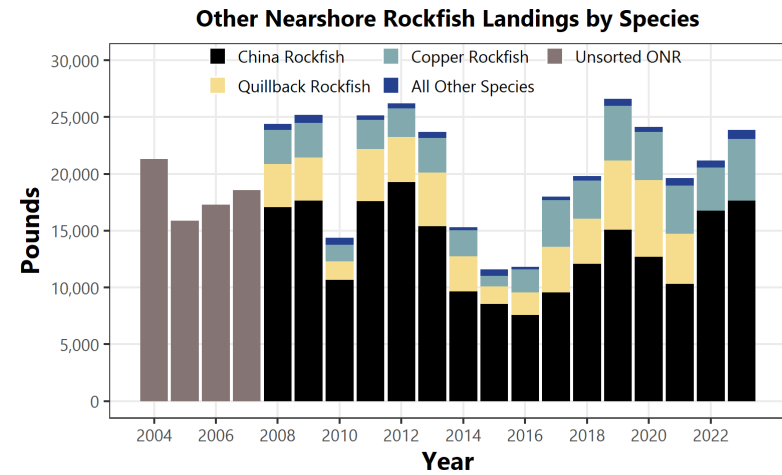


Figure 31. Other Nearshore Rockfish landings (pounds) by year and species group. Fishes landed in this species group prior to 2008 were unsorted.

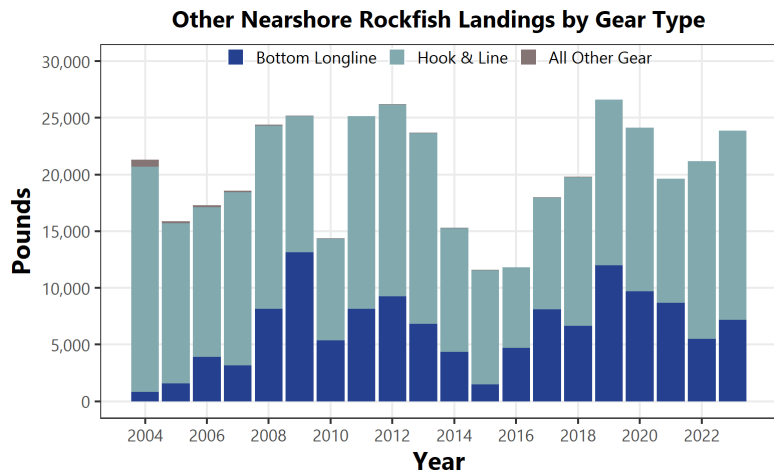


Figure 32. Other Nearshore Rockfish landings (pounds) by year and gear type.

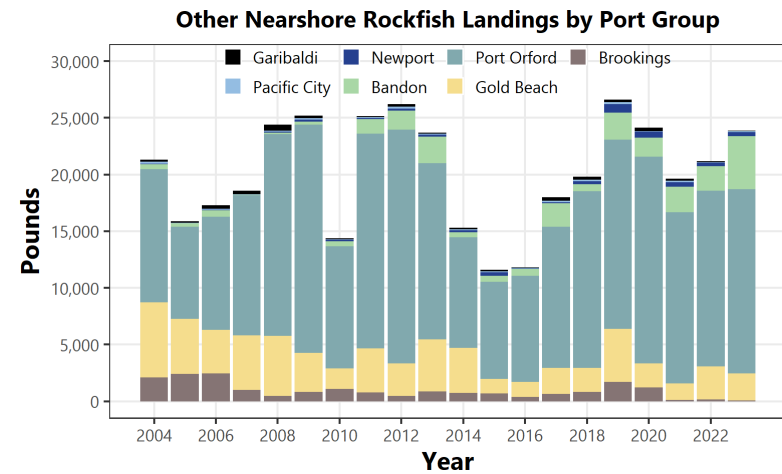


Figure 33. Other Nearshore Rockfish landings (pounds) by year and port group.

The Oregon Commercial Nearshore Fishery Data Update: 2023

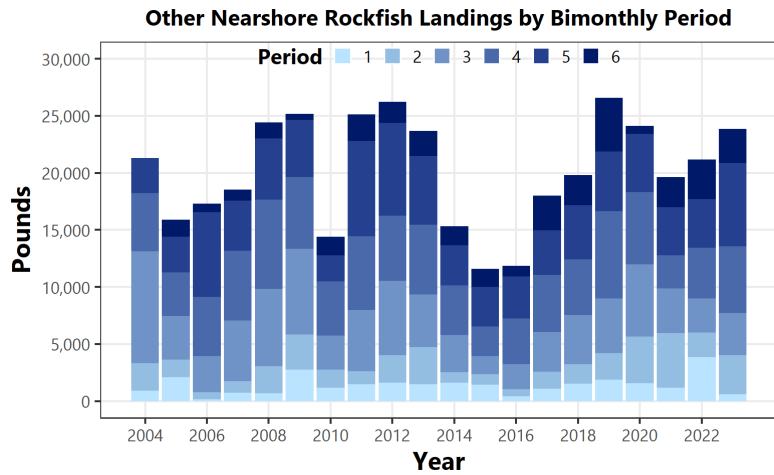


Figure 34. Other Nearshore Rockfish landings (pounds) by year and bimonthly period.

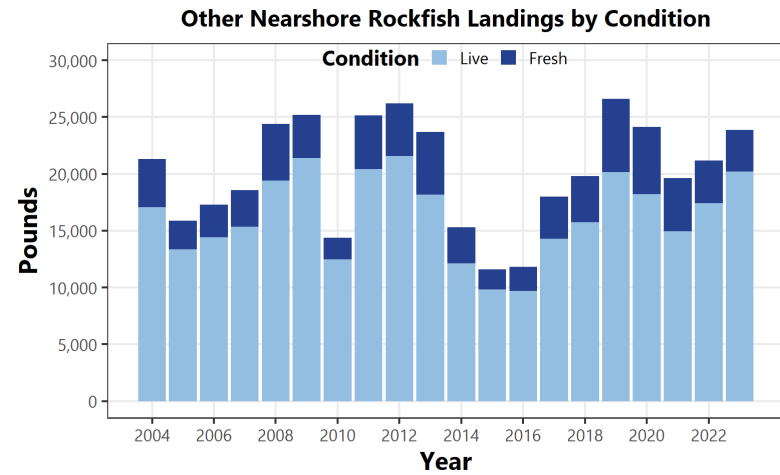


Figure 35. Other Nearshore Rockfish landings (pounds) by year and market condition.

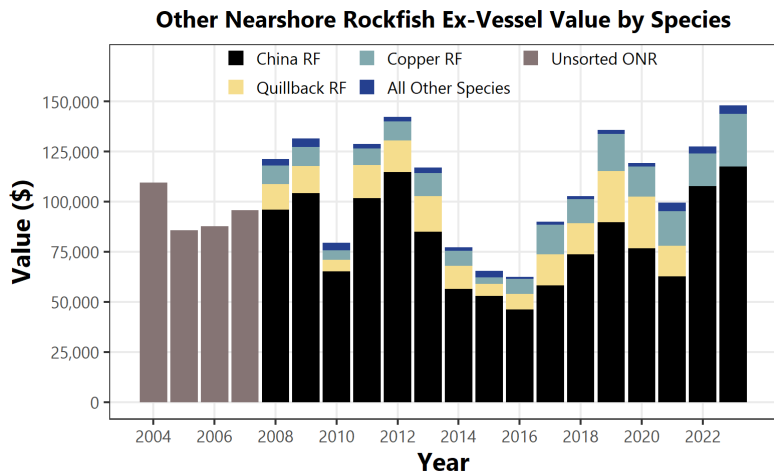


Figure 36. Other Nearshore Rockfish ex-vessel value (\$) by year.

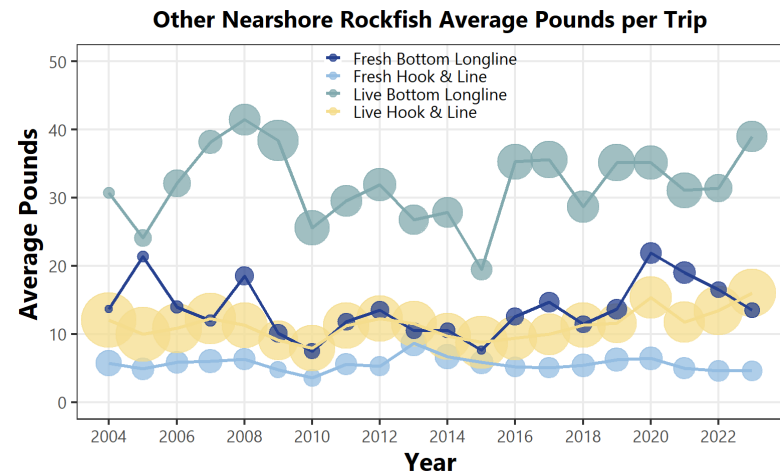


Figure 37. Average pounds landed per trip for Other Nearshore Rockfish by year, gear type, and market condition. Bubble size is weighted by the percentage of pounds landed by each sector.

The Oregon Commercial Nearshore Fishery Data Update: 2023

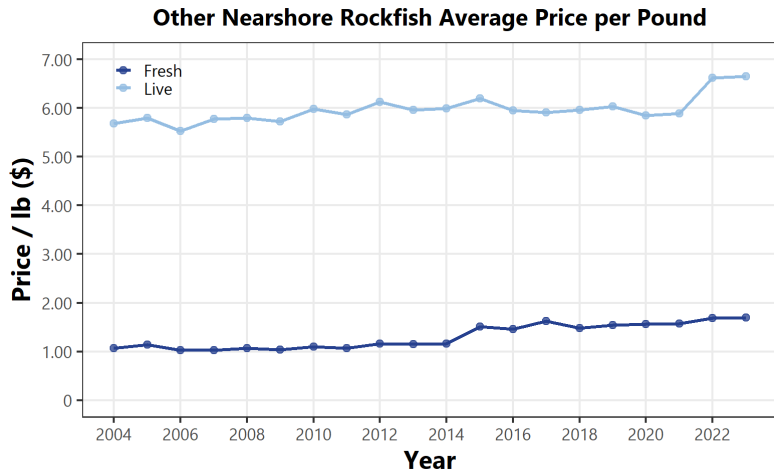


Figure 38. Other Nearshore Rockfish average ex-vessel price per pound by year and market condition.

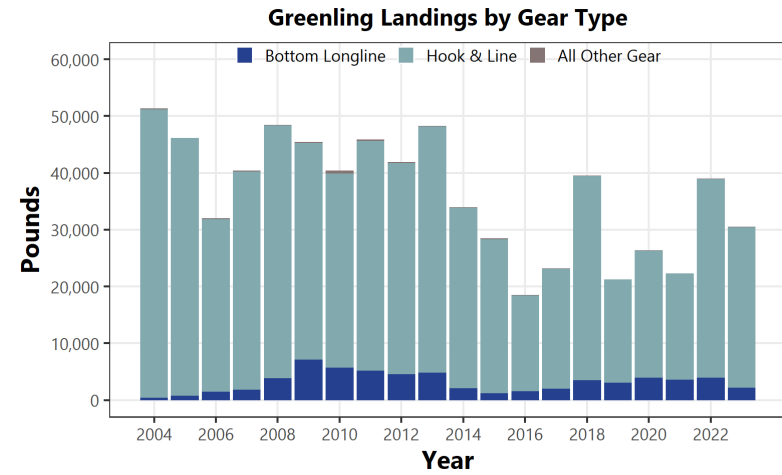


Figure 39. Greenling landings (pounds) by year and gear type.

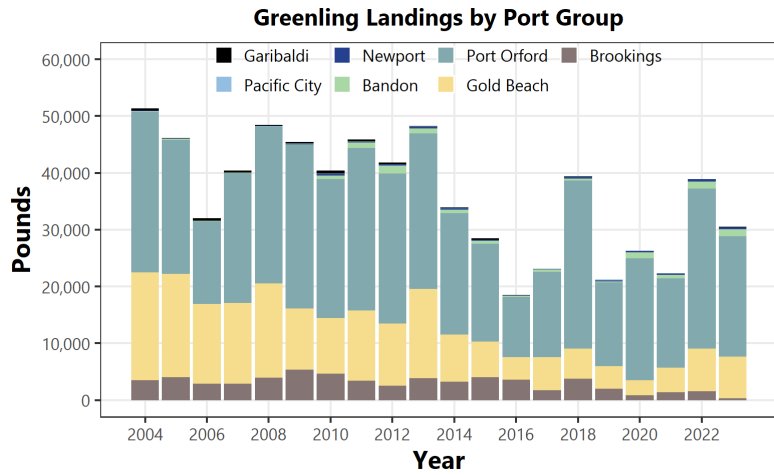


Figure 40. Greenling landings (pounds) by year and port group.

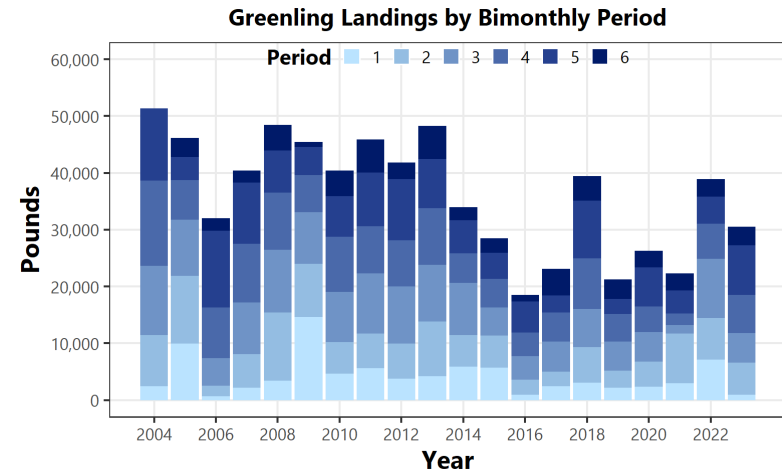


Figure 41. Greenling landings (pounds) by year and bimonthly period.

The Oregon Commercial Nearshore Fishery Data Update: 2023

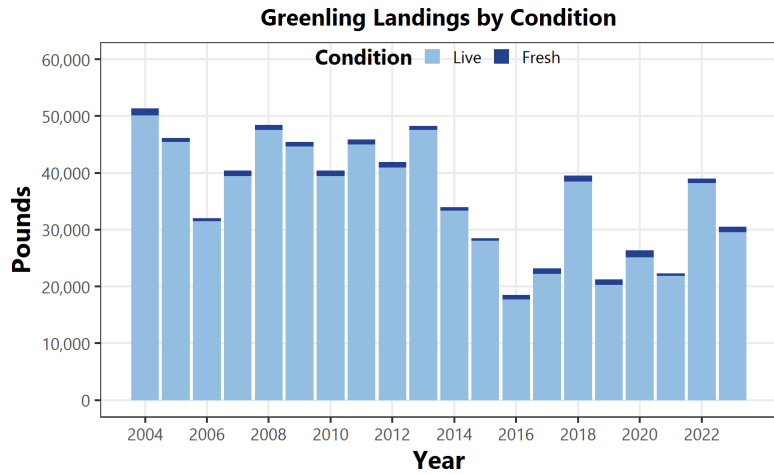


Figure 42. Greenling landings (pounds) by year and market condition.

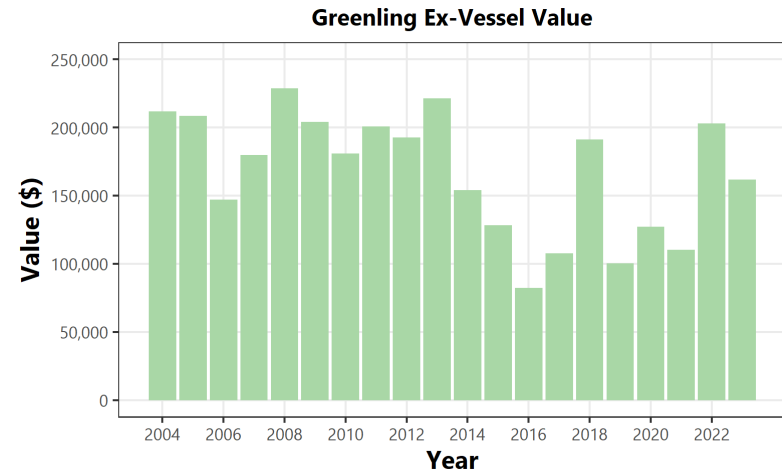


Figure 43. Greenling ex-vessel value (\$) by year.

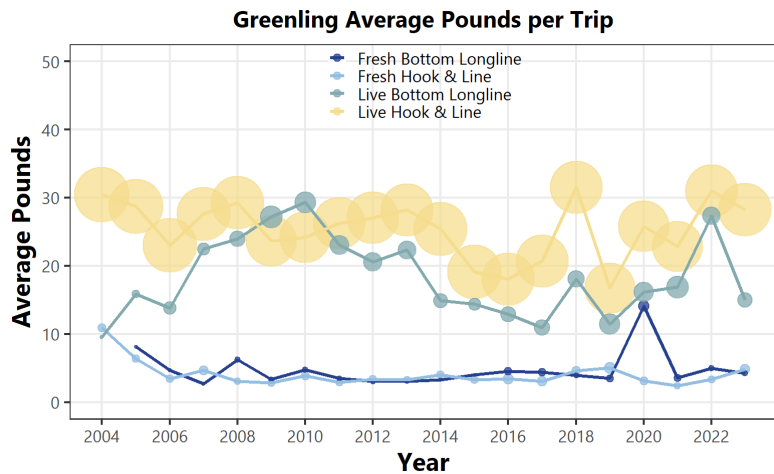


Figure 44. Average pounds landed per trip for Greenling by year, gear type, and market condition. Bubble size is weighted by the percentage of pounds landed by each sector.

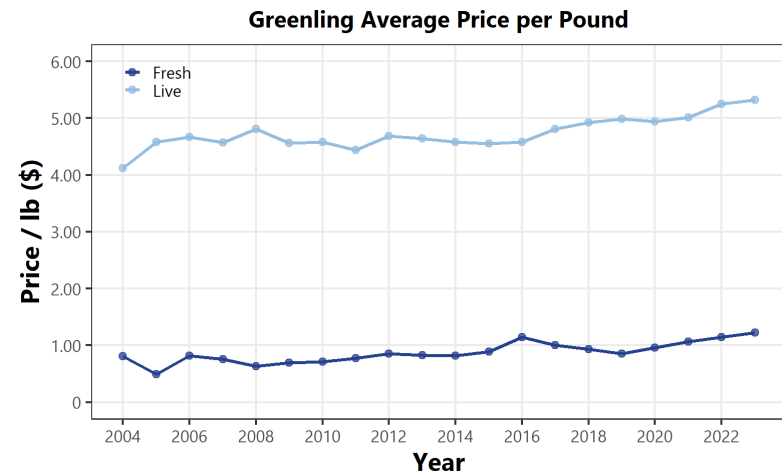


Figure 45. Greenling average ex-vessel price per pound by year and market condition.

The Oregon Commercial Nearshore Fishery Data Update: 2023

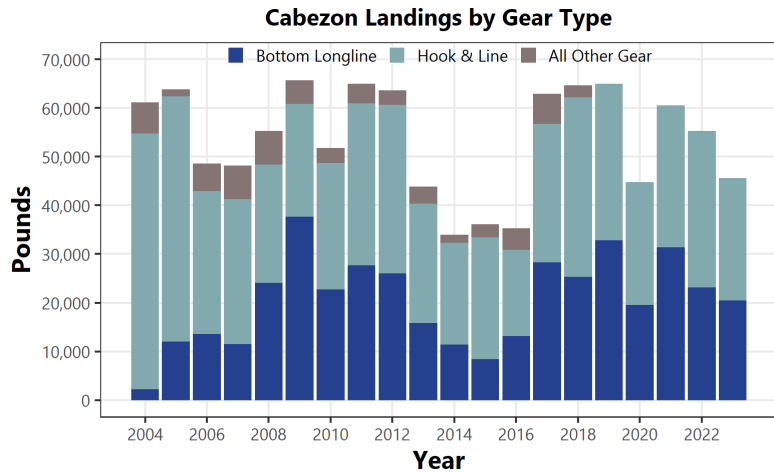


Figure 46. Cabezon landings (pounds) by year and gear type.

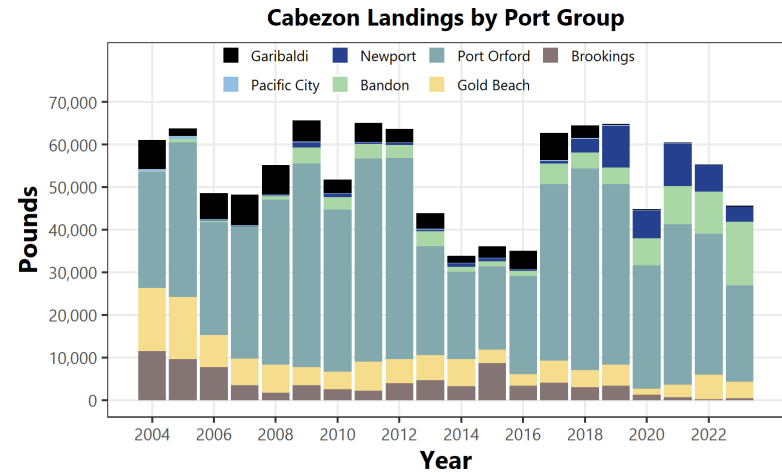


Figure 47. Cabezon landings (pounds) by year and port group.

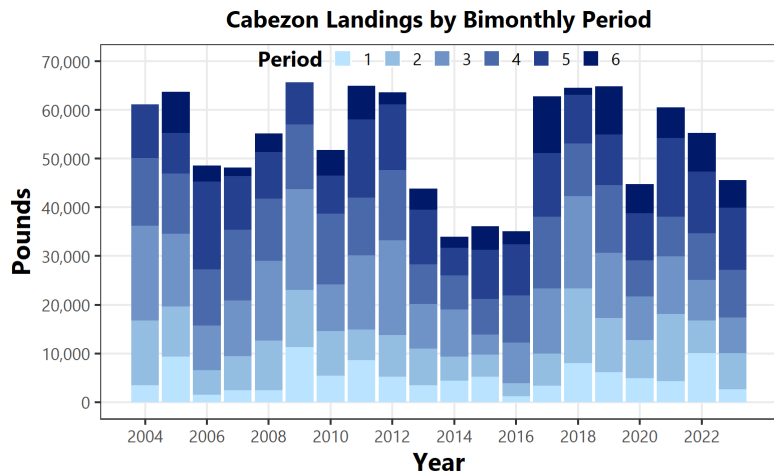


Figure 48. Cabezon landings (pounds) by year and bimonthly period.

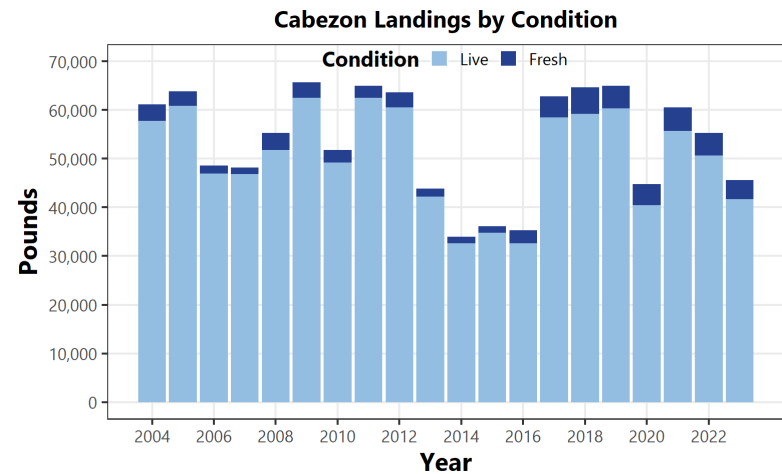


Figure 49. Cabezon landings (pounds) by year and condition.

The Oregon Commercial Nearshore Fishery Data Update: 2023

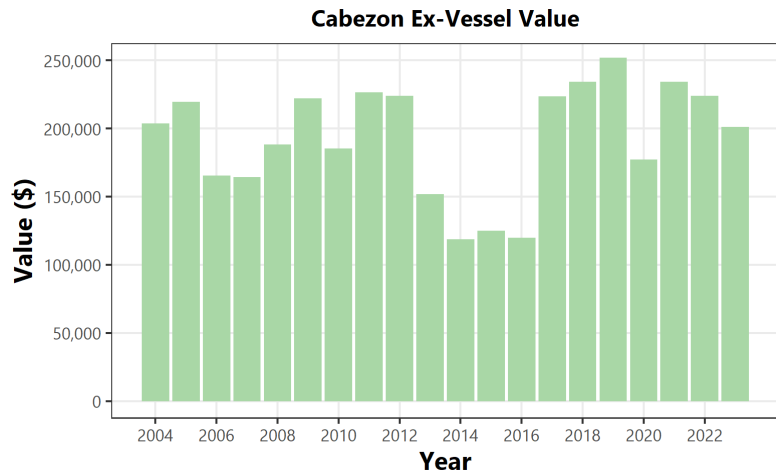


Figure 50. Cabezon ex-vessel value (\$) by year.

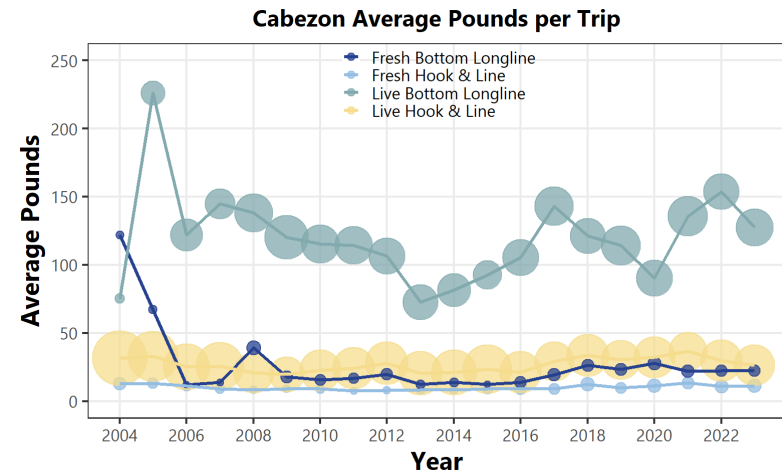


Figure 51. Average pounds landed per trip for Cabezon by year, gear type, and market condition. Bubble size is weighted by the percentage of pounds landed by each sector.

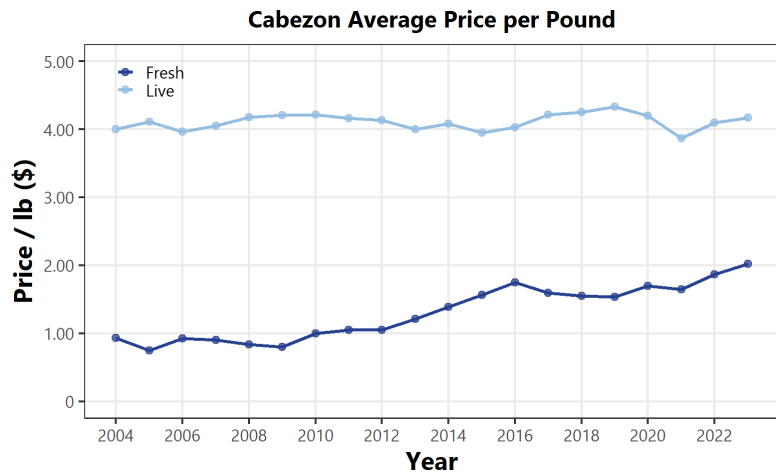


Figure 52. Cabezon average ex-vessel price per pound by year and market condition.

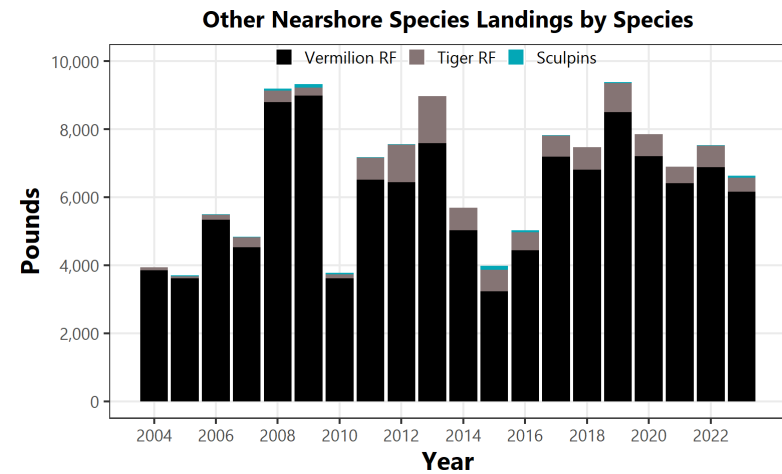


Figure 53. Other Nearshore Species landings (pounds) by year and species group.

The Oregon Commercial Nearshore Fishery Data Update: 2023

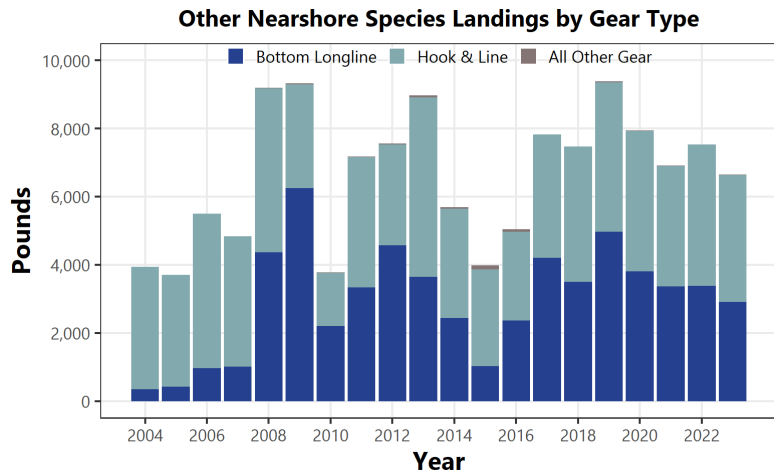


Figure 54. Other Nearshore Species landings (pounds) by year and gear type.

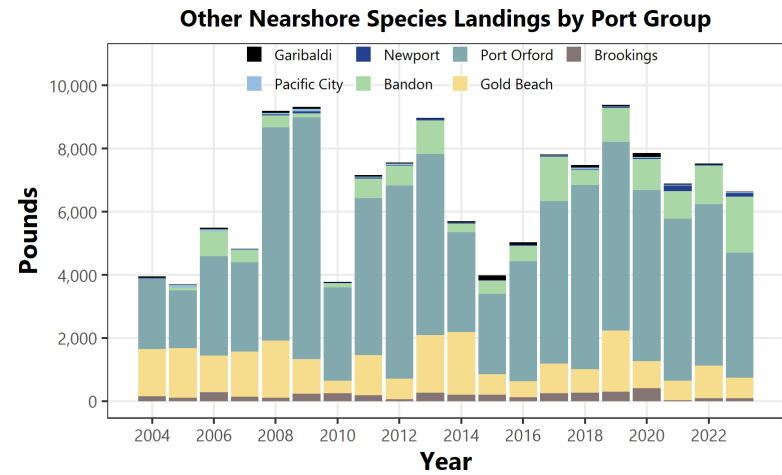


Figure 55. Other Nearshore Species landings (pounds) by port group.

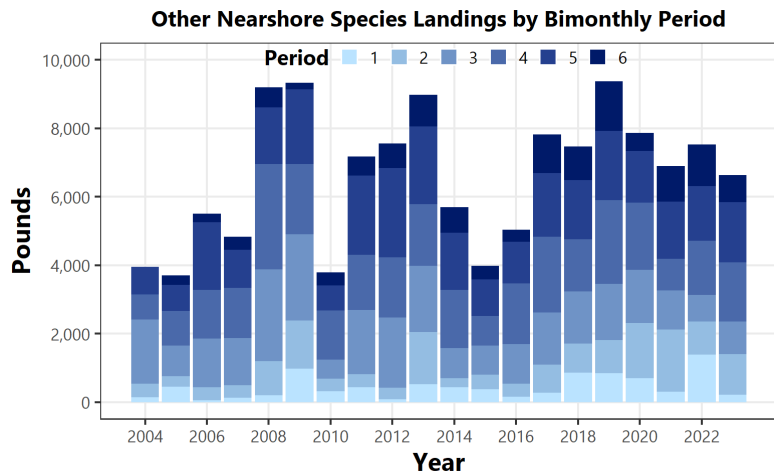


Figure 56. Other Nearshore Species landings (pounds) by year and bimonthly period.

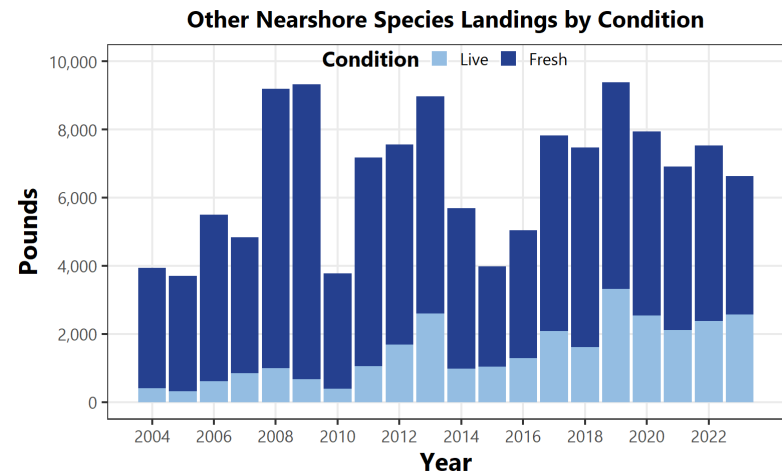


Figure 57. Other Nearshore Species landings (pounds) by year and condition.

The Oregon Commercial Nearshore Fishery Data Update: 2023

Other Nearshore Species Ex-Vessel Value

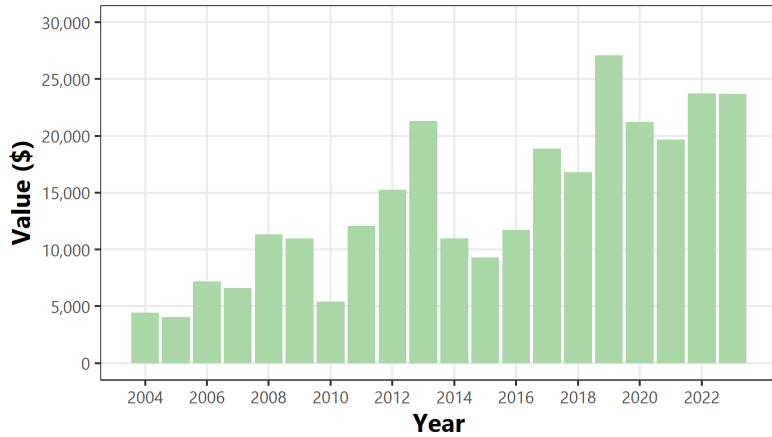


Figure 58. Other Nearshore Species average ex-vessel value (\$) by year.

Other Nearshore Species Average Pounds per Trip

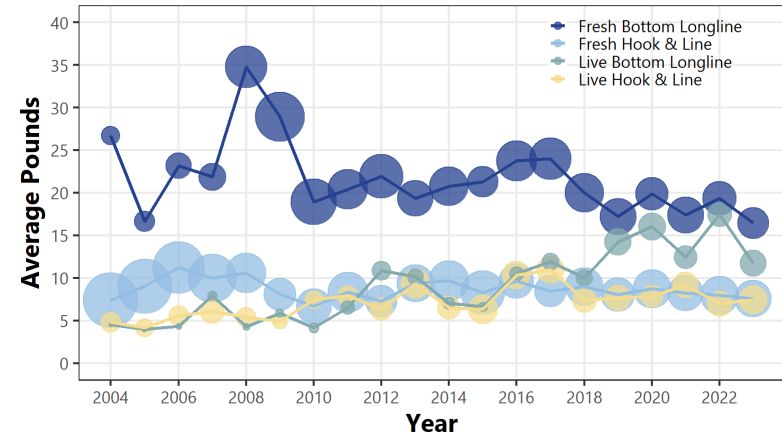


Figure 59. Average pounds landed per trip for Other Nearshore Species by year, gear type, and market condition. Bubble size is weighted by the percentage of pounds landed by each sector.

Other Nearshore Species Average Price per Pound

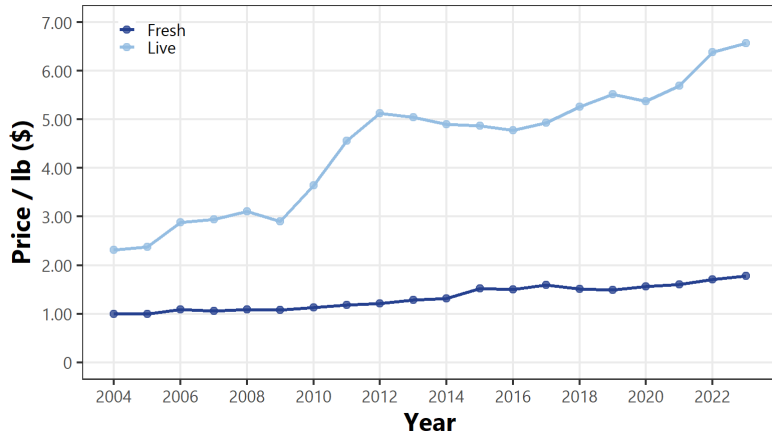


Figure 60. Other Nearshore Species average ex-vessel price per pound by year and market condition.

Landings Attainment (%) by Year and Management Group

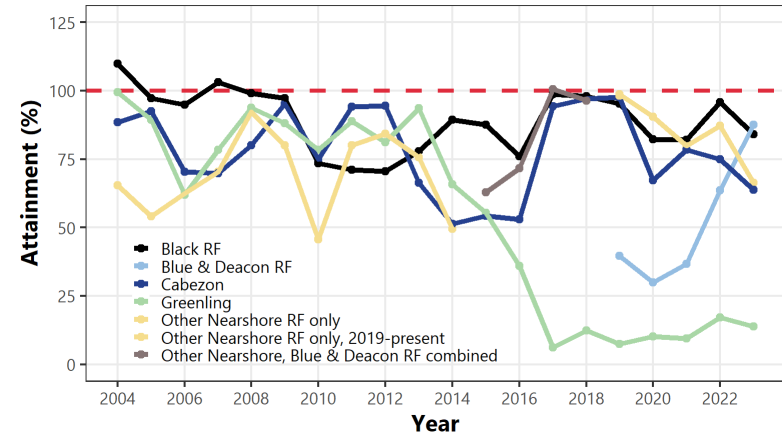


Figure 61. Percent attainment of harvest quota (landing caps or harvest guidelines) by management group through time. Percentages here represent total pounds landed divided by values found in Table 2 and Appendix A.

Appendices

Appendix A. Annual landing caps, harvest caps, and harvest guidelines (HGs) for state management groups for 2004-2022. Where applicable, harvest caps are indicated in footnotes. Harvest guidelines replaced landing and harvest caps beginning in 2015. 2019 was the first year for a Blue and Deacon Rockfish only HG.

Year	Black & Blue Rockfish	Other Nearshore Rockfish	Cabezon	Greenling
2004	111.9 (108.0) ¹	16.0 ²	31.3	23.4
2005	108.7 (104.8) ¹	13.5 ²	31.3	23.4
2006	106.5 (102.5) ¹	13.5 ²	31.3	23.4
2007	104.6 (100.6) ¹	12.0	31.3	23.4
2008 ³	104.6 (100.6) ¹	12.0	31.3	23.4
2009	141.9 (137.9) ^{1,4}	14.3	31.3	23.4
2010	141.9 (137.9) ^{1,4}	14.3	31.3	23.4
2011	141.9 (137.9) ^{1,4}	14.3	31.3	23.4
2012	141.9 (137.9) ^{1,4}	14.3	30.5 ⁵	23.4
2013	141.9 (137.9) ^{1,4}	14.3	30.0 ⁶	23.4
2014	141.9 (137.9) ^{1,4}	14.3	30.0 ⁶	23.4

¹Values in parentheses are landing caps for Black Rockfish, alone.

²Includes vermilion and tiger rockfishes.

³First year both harvest caps were implemented; prior harvest cap equaled landing cap.

⁴Harvest cap of 139.2 mt for Black Rockfish, alone.

⁵Harvest cap of 30.8 mt.

⁶Harvest cap of 30.2 mt.

Year	Black Rockfish	Blue, Deacon & Other Nearshore Rockfish, combined	Cabezon	Greenling	Other Nearshore Species
2015	139.2	10.4	30.2	23.4	N/A
2016	139.2	10.4	30.2	23.4	N/A
2017	126.3	13.0	30.2	169.9	N/A
2018	124.8	12.9	30.2	144.3	N/A

Year	Black Rockfish	Blue & Deacon Rockfish	Other Nearshore Rockfish	Cabezon	Greenling	Other Nearshore Species
2019	123.8	18.9	12.3	30.2	128.5	N/A
2020	122.9	18.3	12.2	30.2	118.3	N/A
2021	122.9	16.8	11.3	35.0	108.1	N/A
2022	122.9	16.3	11.1	33.5	103.8	N/A

Appendix B. History of bimonthly limits (pounds) set by the Oregon Fish and Wildlife Commission and implemented by the Oregon Department of Fish and Wildlife for the commercial nearshore fishery. Initial season limits set for each period at the beginning of the year are in normal text without parentheses. In-season changes effective for each period are dated with amended limits in parentheses. Dates with multiple increases listed on a single day indicate the bimonthly limit was increased multiple times throughout the year with the same effective date. The last entry in the table for that date is the final limit for the period. A dash indicates no change. RF = Rockfish.

Table B1. 2022 bimonthly limits (pounds).

Period	Black RF	Blue/Deacon RF	Other Nearshore RF	Cabezon	Greenling
Period 1	1,800	1,500	350	1,500	1,000
Period 2	1,800	1,500	350	1,500	1,000
Period 3	2,400	1,500	350	1,500	1,000
Period 4	2,400	1,500	350	1,500	1,000
Period 5	1,800	1,500	350	1,500	1,000
<i>Sep 1</i>	-	-	-	(2,500)	(1,200)
Period 6	1,800	1,500	350	1,500	1,000
<i>Nov 1</i>	-	-	-	(2,500)	(1,200)
<i>Dec 1</i>	(200)	-	-	-	-

Table B2. 2021 bimonthly limits (pounds).

Period	Black RF	Blue/Deacon RF	Other Nearshore RF	Cabezon	Greenling
Period 1	1,500	1,500	350	1,500	1,000
Period 2	1,800	1,500	350	1,500	1,000
Period 3	2,100	1,500	350	1,500	1,000
Period 4	2,100	1,500	350	1,500	1,000
Period 5	1,800	1,500	350	1,500	1,000
<i>Aug 27</i>	-	-	(450)	-	-
<i>Sep 1</i>	(2,700)	-	(450)	(2,000)	-
Period 6	1,500	1,500	350	1,500	1,000
<i>Nov 1</i>	(2,700)	-	(450)	(2,000)	-

Table B3. 2020 bimonthly limits (pounds).

Period	Black RF	Blue/Deacon RF	Other Nearshore RF	Cabezon	Greenling
Period 1	1,500	1,500	450	1,000	1,000
Period 2	1,500	1,500	450	1,000	1,000
Period 3	1,800	1,500	450	1,000	1,000
Period 4	1,800	1,500	450	1,000	1,000
<i>Jul 5</i>	(2,400)	-	-	-	-
Period 5	1,500	1,500	450	1,000	1,000
<i>Sep 1</i>	(2,100)	-	-	-	-
<i>Sep 1</i>	(2,700)	-	-	(2,000)	-
<i>Oct 23</i>	-	-	(15/day: 450/period)	-	-
Period 6	1,500	1,500	450	1,000	1,000
<i>Nov 1</i>	(2,100)	-	-	-	-
<i>Nov 1</i>	(2,700)	-	(15/day: 45/period)	(2,000)	-

Table B4. 2019 bimonthly limits (pounds).

Period	Black RF	Blue/Deacon RF	Other Nearshore RF	Cabezon	Greenling
Period 1	1,500	1,500	450	1,000	1,000
Period 2	1,500	1,500	450	1,000	1,000
Period 3	1,800	1,500	450	1,000	1,000
Period 4	1,800	1,500	450	1,000	1,000
<i>Jul 5</i>	(2,400)	-	(600)	-	-
Period 5	1,500	1,500	450	1,000	1,000
<i>Sep 1</i>	(2,400)	-	(600)	-	-
Period 6	1,500	1,500	450	1,000	1,000
<i>Nov 1</i>	(2,100)	-	(600)	-	-
<i>Dec 12</i>	-	-	-	(30/day; 1,000/period)	-

Table B5. 2018 bimonthly limits (pounds).

Period	Black RF	Blue/Deacon RF	Other Nearshore RF	Cabazon	Greenling
Period 1	1,500	300	450	2,500	800
Period 2	1,500	300	450	2,500	800
Period 3	1,800	300	450	2,500	800
<i>May 1</i>	1,500	100	250	1,500	-
Period 4	1,800	300	450	2,000	800
<i>Jul 5</i>	(2,400)	(100)	(250)	(500)	-
Period 5	1,500	300	450	2,000	600
<i>Sep 1</i>	(2,100)	(100)	(250)	(500)	-
<i>Oct 5</i>	-	-	-	(15/day; 500/period)	-
Period 6	1,500	300	450	2,000	600
<i>Nov 1</i>	(2,100)	(100)	(250)	(15/day; 45/period)	-

Table B6. 2017 bimonthly limits (pounds).

Period	Black RF	Blue/Deacon RF	Other Nearshore RF	Cabazon	Greenling
Period 1	1,200	300	450	2,000	600
Period 2	1,500	300	450	2,000	600
Period 3	1,800	300	450	2,000	600
Period 4	1,800	300	450	2,000	600
<i>Jul 5</i>	(2,400)	-	-	-	-
Period 5	1,500	300	450	2,000	600
<i>Sep 1</i>	(2,100)	-	-	-	-
Period 6	1,200	300	450	2,000	600
<i>Nov 1</i>	(1,800)	-	-	-	-

Table B7. 2016 bimonthly limits (pounds).

Period	Black RF	Blue RF	Other Nearshore RF	Cabezon	Greenling
Period 1	1,200	30	200	2,000	600
Period 2	1,400	30	200	2,000	600
Period 3	1,700	30	200	2,000	600
Period 4	1,600	30	200	2,000	600
<i>Jul 5</i>	(2,400)	(50)	(350)	-	-
Period 5	1,400	30	200	2,000	600
<i>Sep 1</i>	(2,200)	(450)	-	-	-
Period 6	1,000	30	200	2,000	600
<i>Nov 1</i>	(1,800)	(450)	-	-	-

Table B8. 2015 bimonthly limits (pounds). Blue and Deacon Rockfish had a separate trip limit beginning this year.

Period	Black RF	Blue RF	Other Nearshore RF	Cabezon	Greenling
Period 1	1,200	15	100	1,500	300
Period 2	1,400	15	100	1,500	300
Period 3	1,700	15	100	1,500	300
Period 4	1,600	15	100	1,500	300
<i>Jul 5</i>	(1,800)	-	-	-	(400)
Period 5	1,400	15	100	1,500	300
<i>Sep 1</i>	(1,600)	(50)	(300)	-	(400)
Period 6	1,000	15	100	1,500	300
<i>Nov 1</i>	(1,200)	(50)	(300)	-	(400)

Table B9. 2014 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabezon	Greenling
Period 1	1,000	700	1,500	300
Period 2	1,200	700	1,500	300
Period 3	1,700	700	1,500	300
Period 4	1,600	700	1,500	300
<i>Aug 1</i>	(2,100)	-	-	-
Period 5	1,200	700	1,500	300
<i>Sep 1</i>	(2,100)	-	-	-
<i>Oct 9</i>	-	-	-	(350)
Period 6	1,000	700	1,500	300
<i>Nov 1</i>	(1,800)	-	-	(350)

Table B10. 2013 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabezon	Greenling
Period 1	1,000	700	1,500	300
Period 2	1,200	700	1,500	300
Period 3	1,700	700	1,500	300
Period 4	1,600	700	1,500	300
Period 5	1,200	700	1,500	300
<i>Sep 1</i>	(2,100)	-	(2,000)	-
Period 6	1,000	700	1,500	300
<i>Nov 1</i>	(1,800)	-	(2,000)	-

Table B11. 2012 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabezon	Greenling
Period 1	800	700	1,500	250
Period 2	1,000	700	1,500	250
Period 3	1,400	700	1,500	250
<i>Jun 1</i>	(1,800)	-	-	-
Period 4	1,400	700	1,500	250
<i>Jul 1</i>	(1,800)	-	-	-
Period 5	1,000	700	1,500	250
<i>Sep 1</i>	(2,100)	-	-	(400)
Period 6	800	700	1,500	250
<i>Nov 1</i>	(2,100)	-	(100)	(400)

Table B12. 2011 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabezon	Greenling
Period 1	800	700	1,500	250
Period 2	1,000	700	1,500	250
Period 3	1,400	700	1,500	250
Period 4	1,400	700	1,500	250
<i>Jul 5</i>	(1,600)	-	-	-
Period 5	1,000	700	1,500	250
<i>Sep 1</i>	(1,200)	-	-	-
<i>Sep 15</i>	(1,400)	-	-	-
Period 6	800	700	1,500	250
<i>Nov 1</i>	(1,000)	-	-	-
<i>Nov 1</i>	(1,200)	-	-	-

Table B13. 2010 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabezon	Greenling
Period 1	800	700	1,500	250
Period 2	1,000	700	1,500	250
Period 3	1,400	700	1,500	250
Period 4	1,400	700	1,500	250
<i>Aug 1</i>	(1,600)	-	-	(300)
Period 5	1,000	700	1,500	250
<i>Sep 1</i>	(1,200)	-	(1,600)	(300)
<i>Oct 15</i>	(1,400)	-	(Closed)	(350)
Period 6	800	700	1,500	250
<i>Nov 1</i>	(1,200)	-	(1,600)	(350)

Table B14. 2009 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabezon	Greenling
Period 1	800	700	2,500	450
Period 2	1,000	700	2,500	450
<i>Mar 1</i>	-	-	-	(250)
Period 3	1,600	700	2,500	450
<i>May 1</i>	-	-	-	(250)
Period 4	1,600	700	2,500	450
<i>Jul 1</i>	-	-	-	(250)
<i>Jul 1</i>	-	-	(1,250)	(150)
Period 5	1,200	700	2,500	450
<i>Oct 1</i>	-	-	(1,250)	(250)
<i>Oct 10</i>	(15/day; 1,200/month)	-	(Closed)	(150)
Period 6	1,000	700	2,500	450
<i>Nov 1</i>	-	-	-	(250)
<i>Nov 1</i>	(15/day; 400/month)	-	(Closed)	(150)

Table B15. 2008 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabazon	Greenling
Period 1	600	700	2,500	450
Period 2	800	700	2,500	450
Period 3	1,600	700	2,500	450
Period 4	1,600	700	2,500	450
<i>Jul 1</i>	(1,200)	-	-	-
Period 5	1,600	700	2,500	450
<i>Oct 1</i>	(1,000)	-	-	-
<i>Oct 2</i>	(15/day; 1,000/month)	-	-	-
Period 6	800	700	2,500	450
<i>Nov 1</i>	(15/day; 200/month)	-	-	-

Table B16. 2007 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabazon	Greenling
Period 1	600	600	2,000	400
Period 2	800	600	2,000	400
Period 3	1,600	600	2,000	400
Period 4	1,600	600	2,000	400
Period 5	1,600	600	2,000	400
<i>Sep 1</i>	(2,000)	(700)	(4,000)	(800)
Period 6	800	600	2,000	400
<i>Nov 1</i>	(15/day; 800/month)	(700)	(4,000)	(800)
<i>Nov 28</i>	(Closed)	(Closed)	(Closed)	(Closed)

Table B17. 2006 monthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF¹	Cabezon	Greenling
January	300	200	1,000	100
February	300	200	1,000	100
March	600	200	1,000	100
April	600	200	1,000	100
May	600	200	1,000	100
June	600	200	1,000	100
July	600	200	1,000	100
<i>Jul 1</i>	(700)	(300)	(1,750)	(200)
August	600	200	1,000	100
<i>Aug 11</i>	(1,400)	(350)	(2,000)	(400)
September	300	200	1,000	100
<i>Sep 1</i>	(1,400)	(350)	(2,000)	(400)
October	300	200	1,000	100
<i>Oct 1</i>	(600)	(350)	(2,000)	(400)
November	250	200	1,000	100
<i>Nov 1</i>	-	(350)	(2,000)	(400)
December	250	200	1,000	100
<i>Dec 1</i>	-	(350)	(2,000)	(400)

¹ Sub-limit of Black & Blue RF; included vermillion and tiger RF

Table B18. 2005 bimonthly limits (pounds).

Period	Black & Blue RF	Other Nearshore RF¹	Cabezon	Greenling
Period 1	1,000	700	1,500	250
Period 2	1,000	700	1,500	250
Period 3	1,500	700	2,500	450
<i>May 1</i>	-	-	-	(250)
Period 4	1,500	700	2,500	450
<i>Aug 1</i>	-	-	-	(250)
<i>Aug 4</i>	(700)	-	(1,250)	(150)
Period 5	800	700	2,500	450
<i>Sep 1</i>	(700)	(325)	-	(225)
<i>Sep 1</i>	-	-	-	(175)
<i>Oct 11</i>	-	(400)	-	-
Period 6	500	450	2,000	350
<i>Nov 1</i>	-	(325)	-	(225)
<i>Nov 1</i>	-	(400)	-	(175)
<i>Dec 1</i>	-	-	-	(275)

¹ Sub-limit of Black & Blue RF; included vermilion and tiger RF

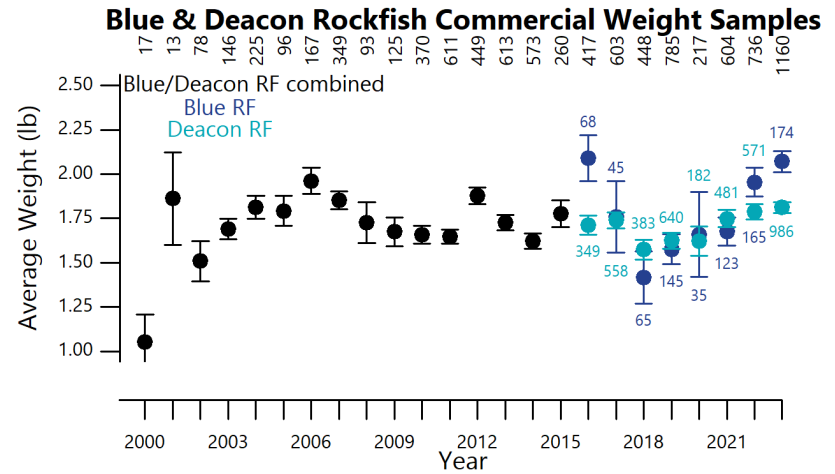
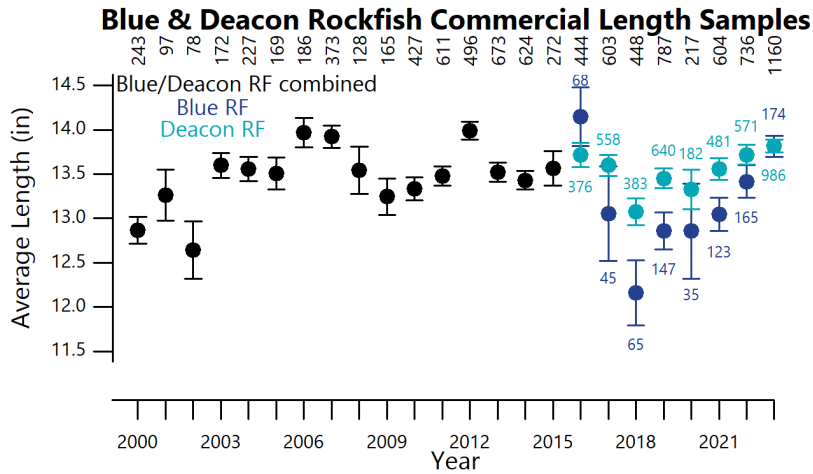
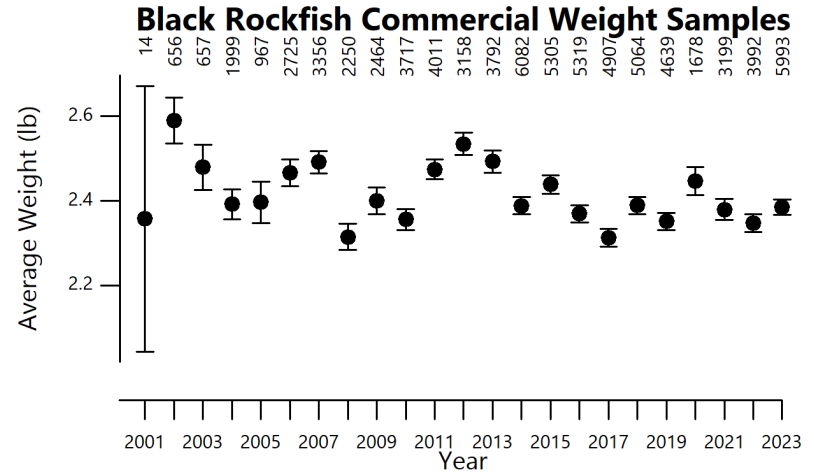
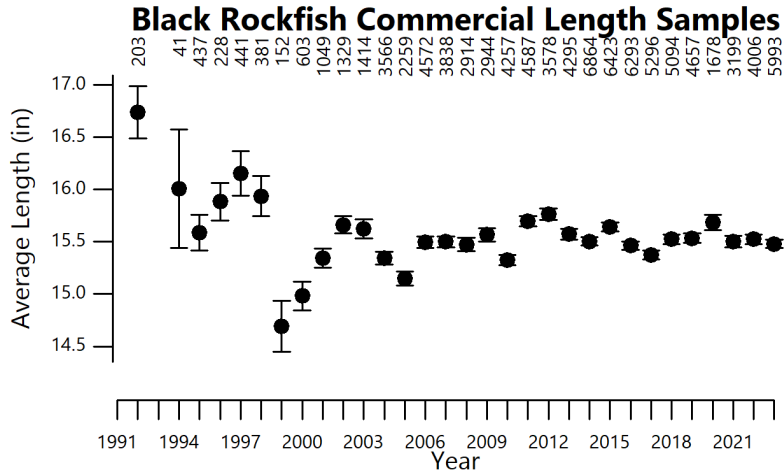
Table B19. 2004 bimonthly limits (pounds).

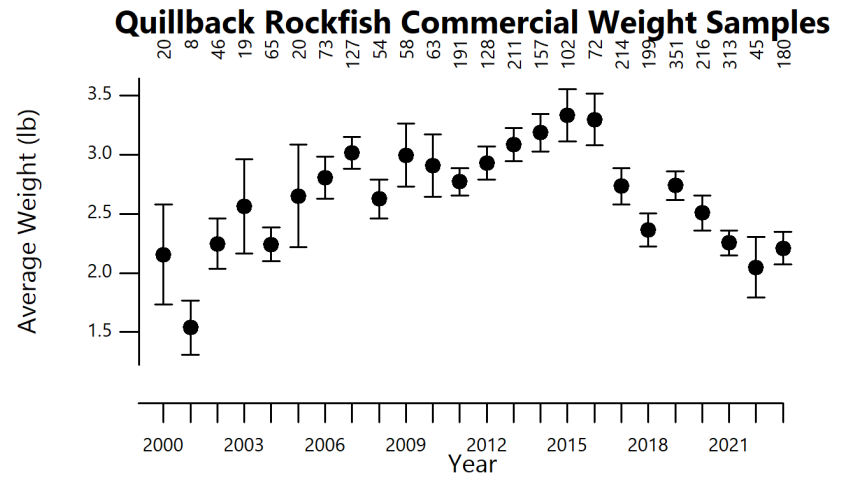
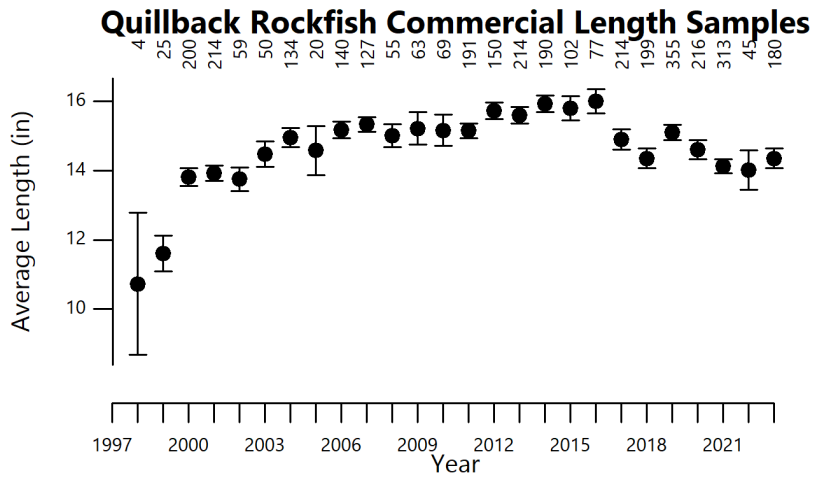
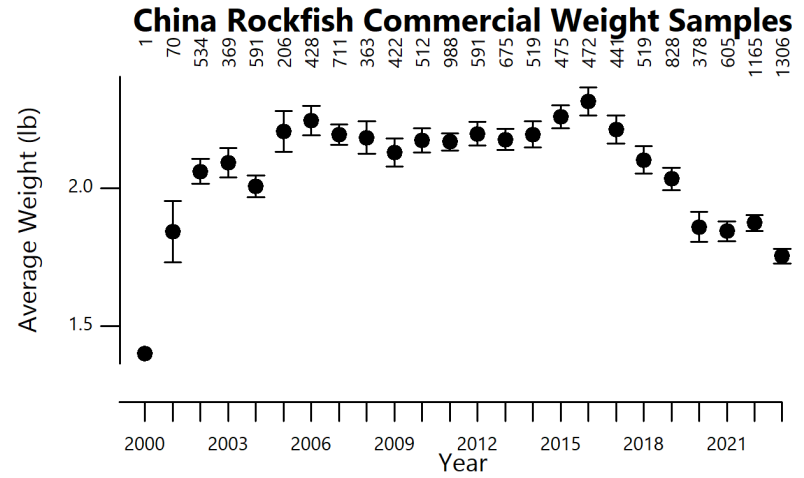
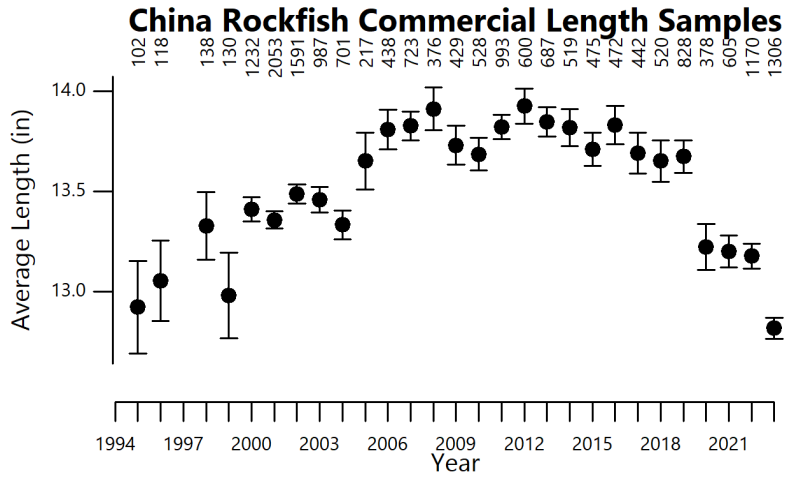
Period	Black & Blue RF	Other Nearshore RF¹	Cabezon	Greenling
Period 1	3,000	900	2,000	350
Period 2	3,000	900	2,000	350
Period 3	3,000	900	2,000	350
Period 4	3,000	900	2,000	350
<i>Jul 27</i>	(1,500)	-	-	(600)
Period 5	3,000	900	2,000	250
<i>Sep 1</i>	(1,500)	-	-	(600)
<i>Sep 27</i>	(Closed)	(100)	-	(Closed)
Period 6	3,000	900	2,000	350
<i>Nov 1</i>	-	(Closed)	-	(Closed)

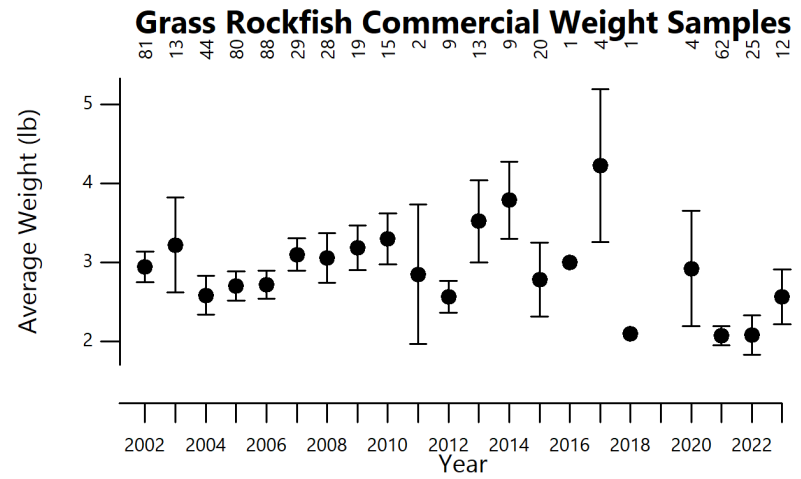
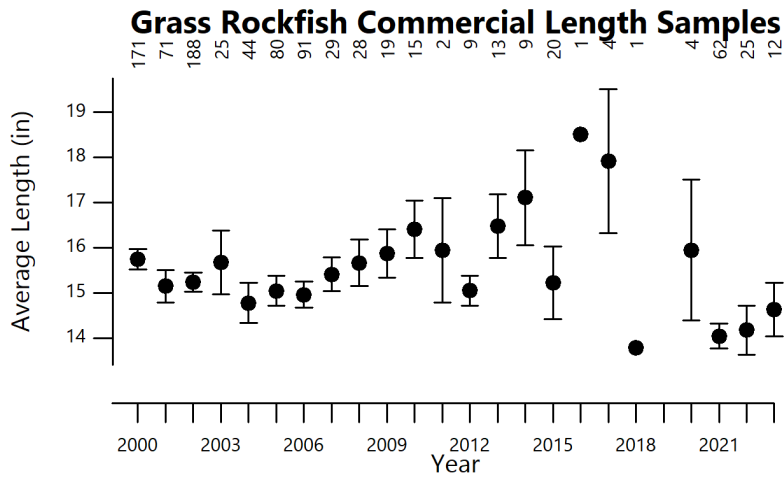
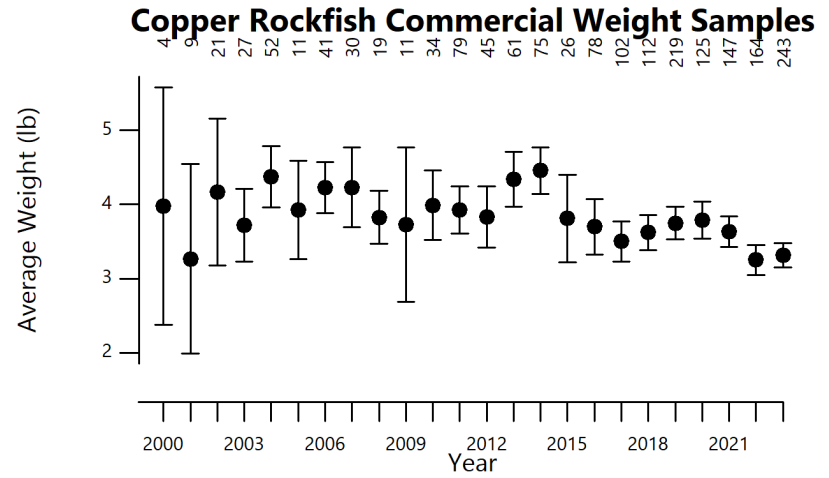
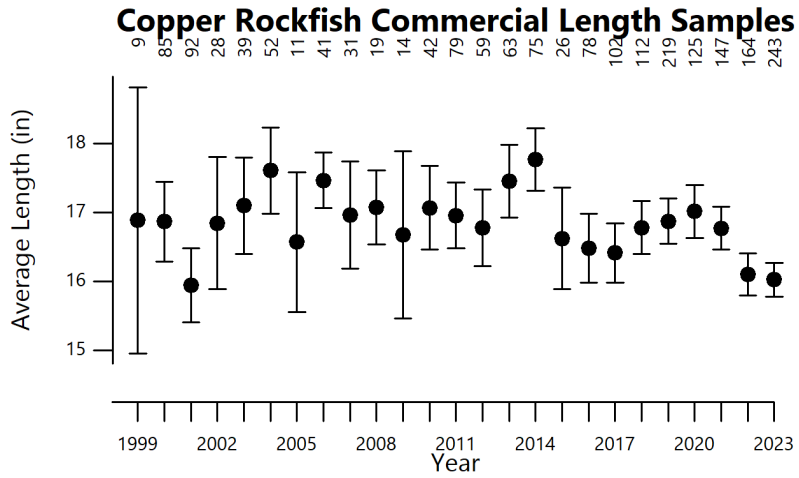
¹ Sub-limit of Black & Blue RF; included vermilion and tiger RF

The Oregon Commercial Nearshore Fishery Data Update: 2023

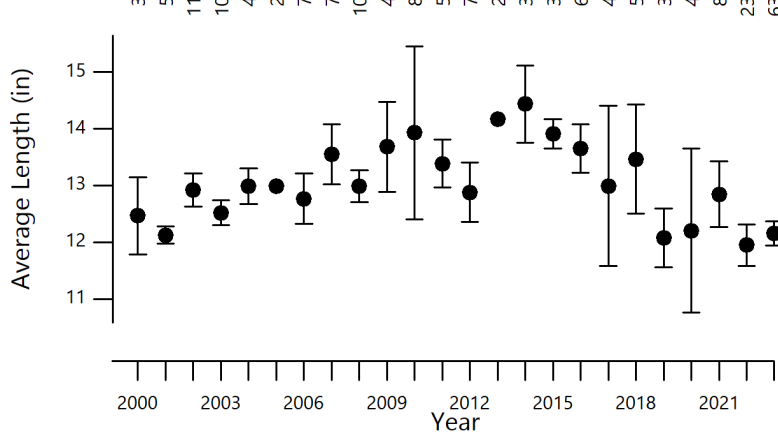
Appendix C. Nearshore species commercial length and weight sample averages by year with sample sizes (top) and 95% confidence intervals.



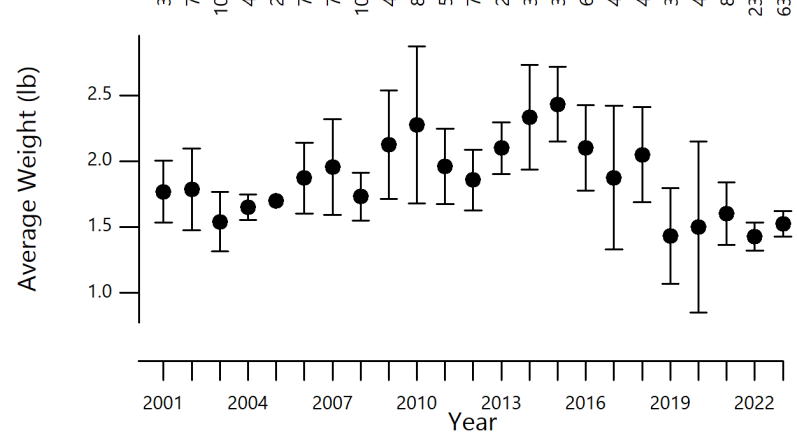




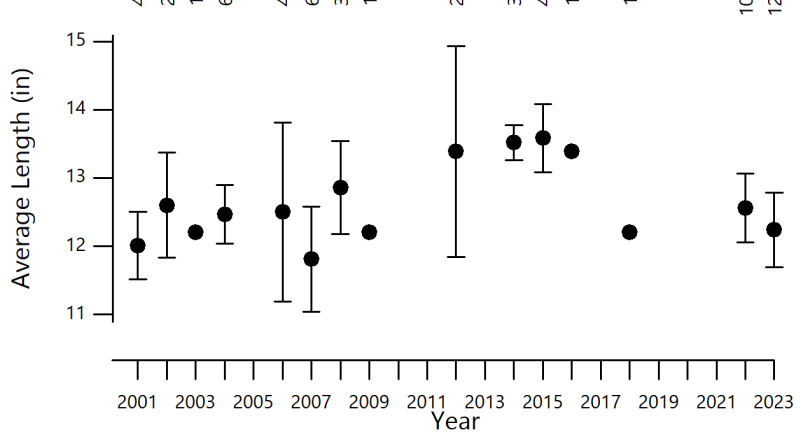
Gopher Rockfish Commercial Length Samples



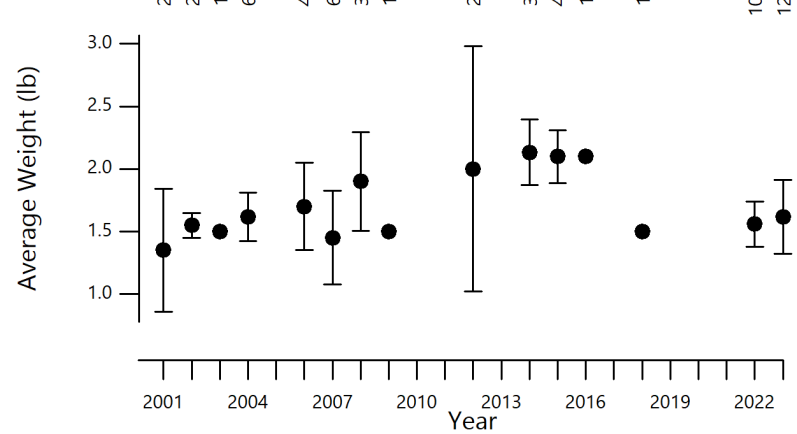
Gopher Rockfish Commercial Weight Samples

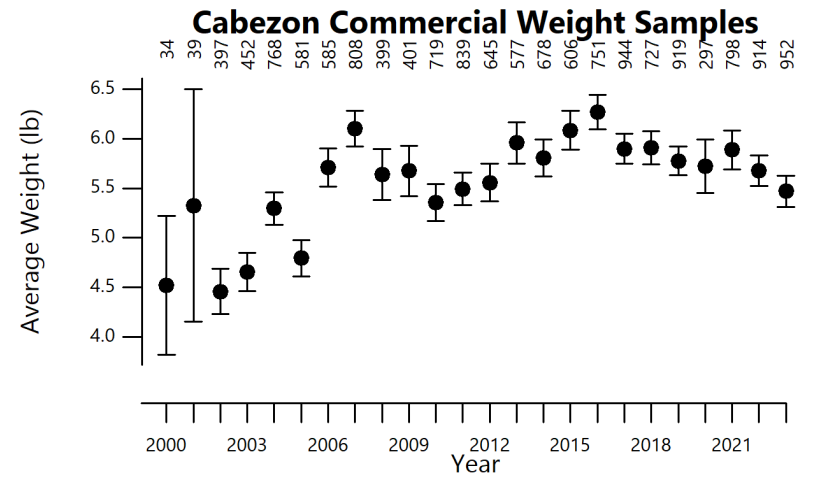
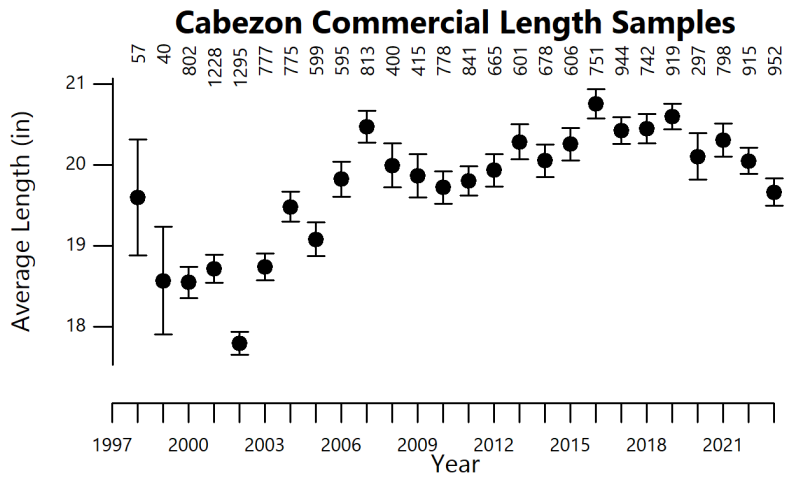
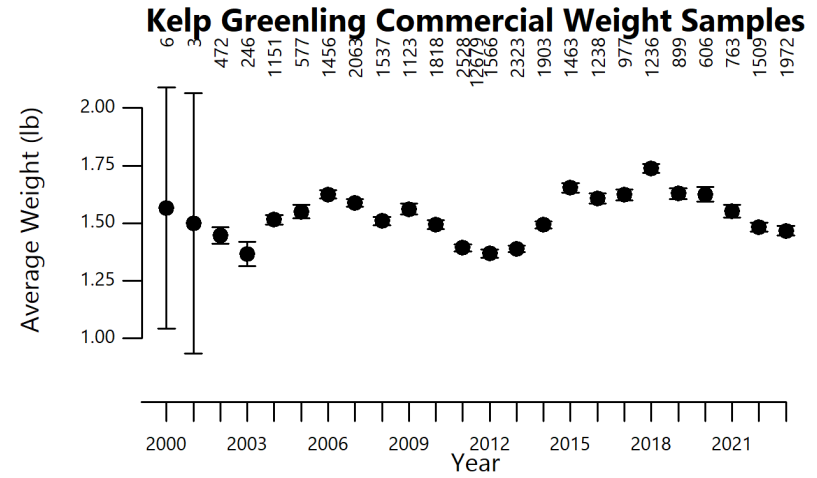
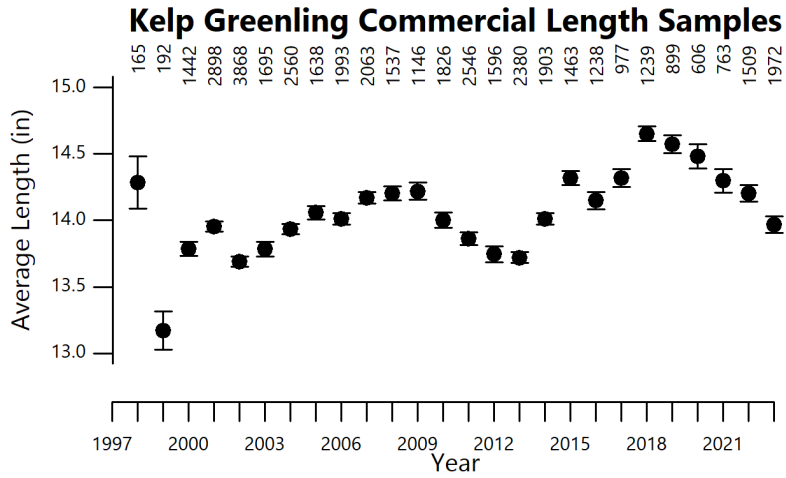


Black & Yellow Rockfish Commercial Length Samples

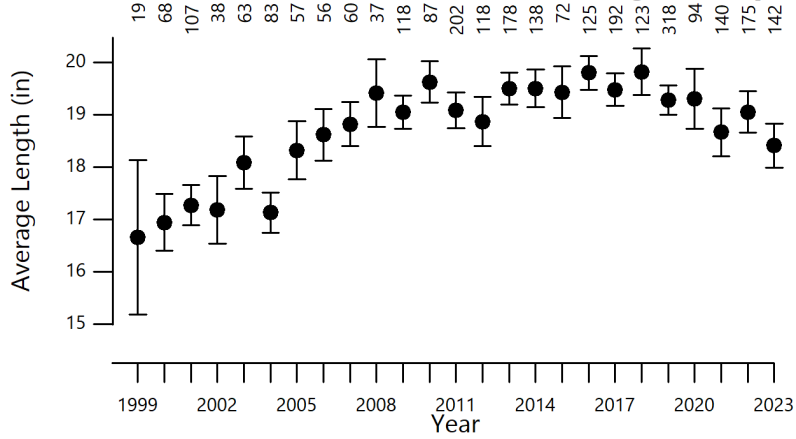


Black & Yellow Rockfish Commercial Weight Samples

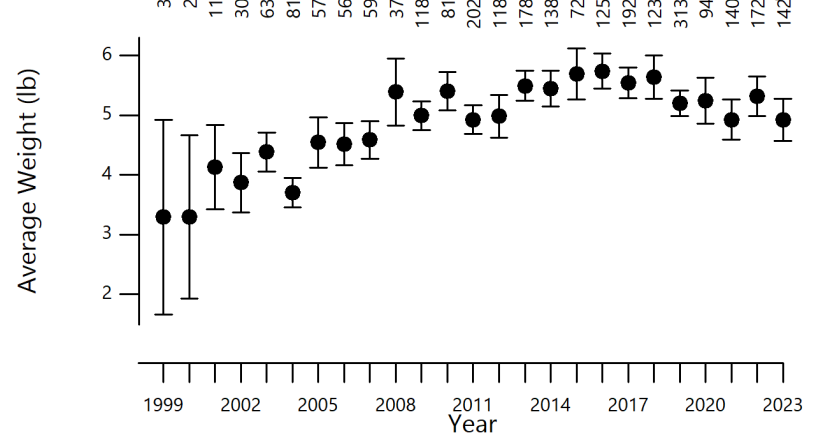




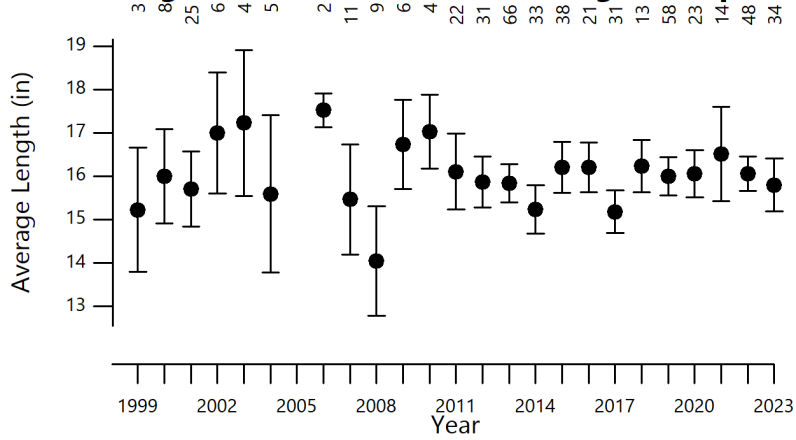
Vermilion Rockfish Commercial Length Samples



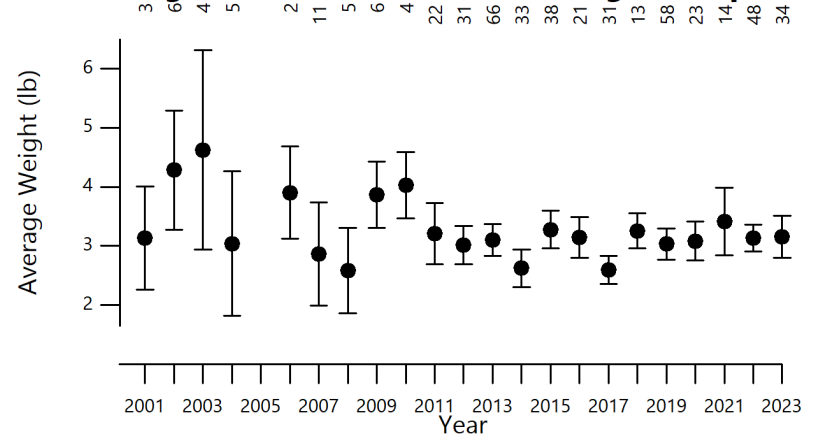
Vermilion Rockfish Commercial Weight Samples



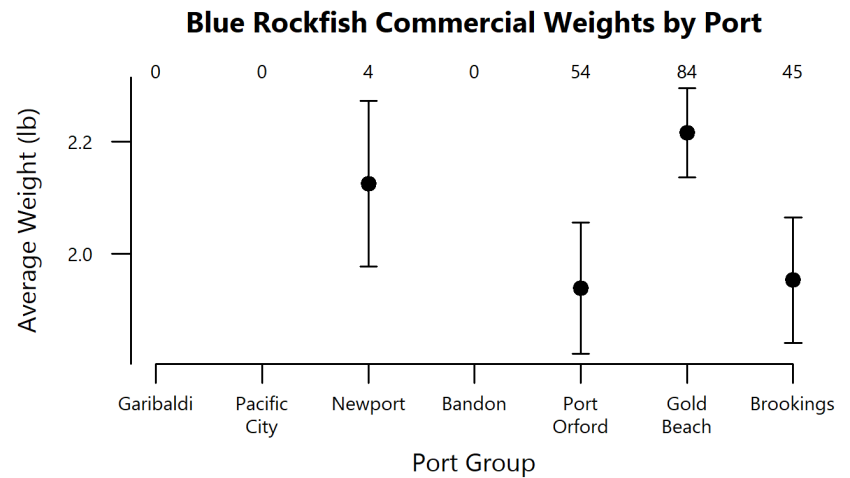
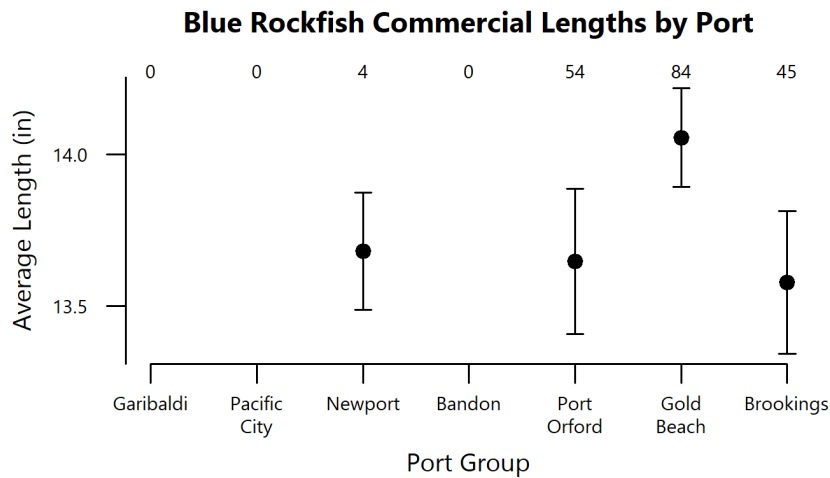
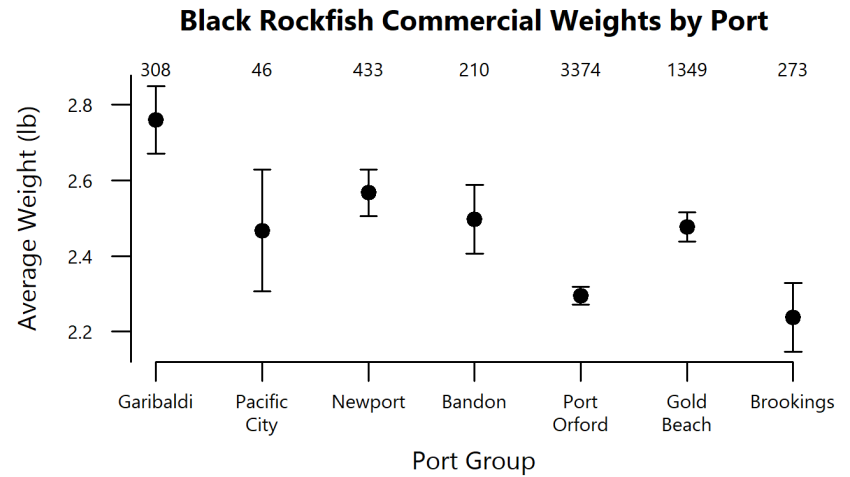
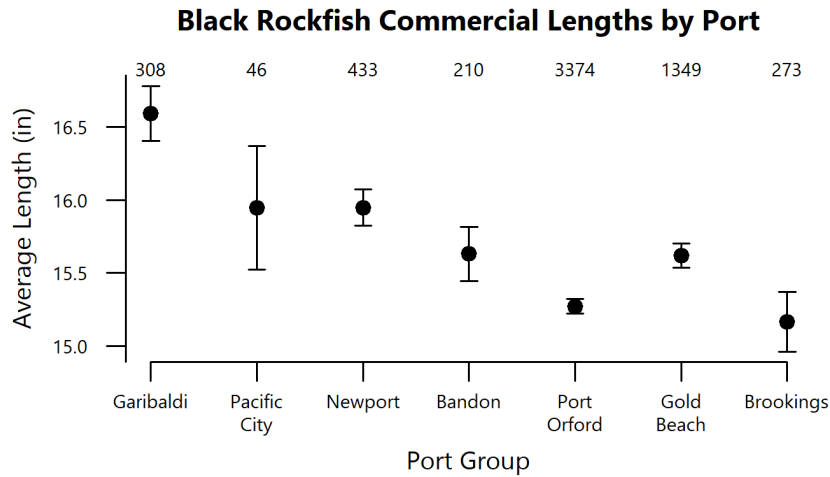
Tiger Rockfish Commercial Length Samples

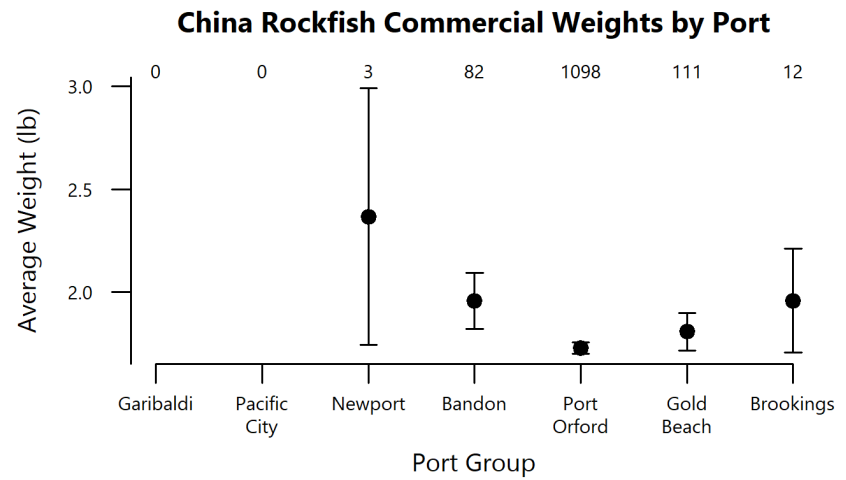
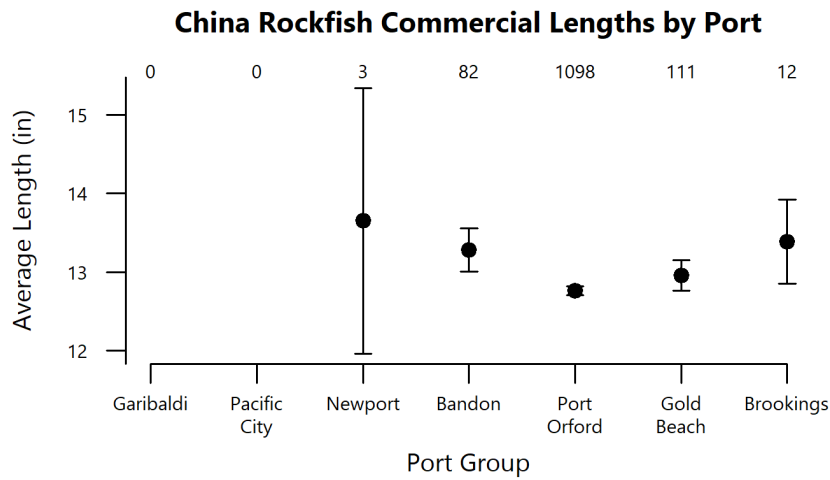
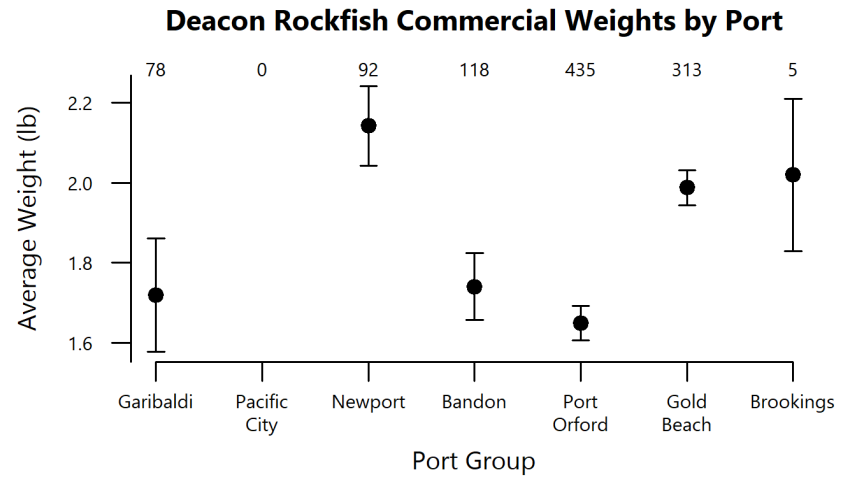
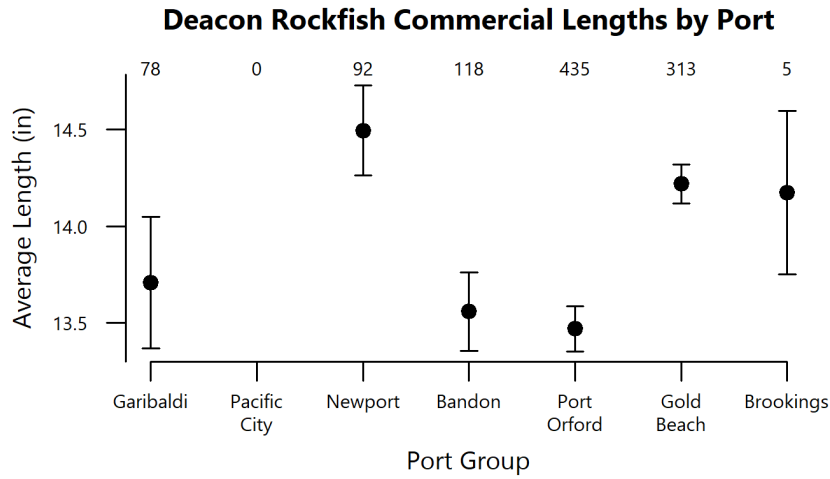


Tiger Rockfish Commercial Weight Samples

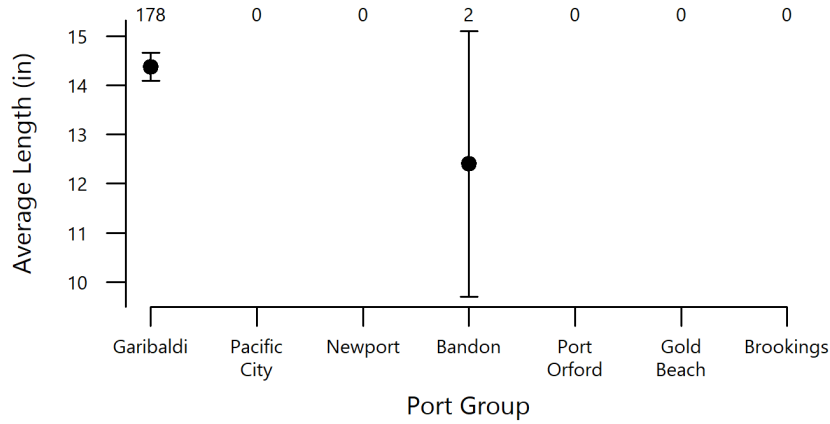


Appendix D. 2023 nearshore species commercial length and weight sample averages by port with sample sizes and 95% confidence intervals.

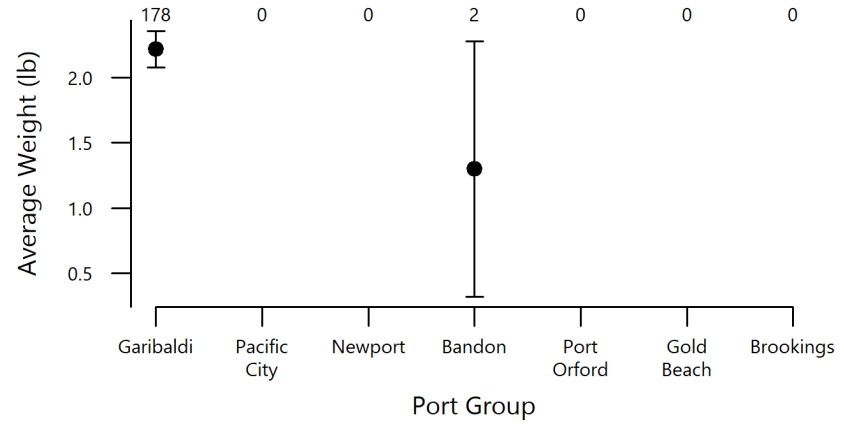




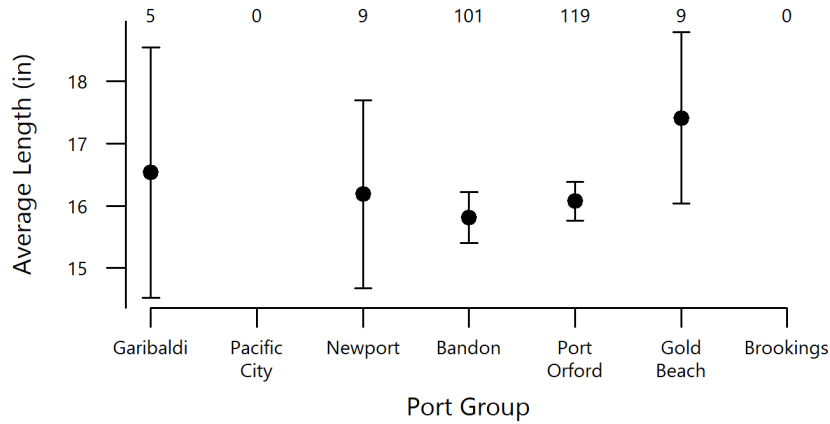
Quillback Rockfish Commercial Lengths by Port



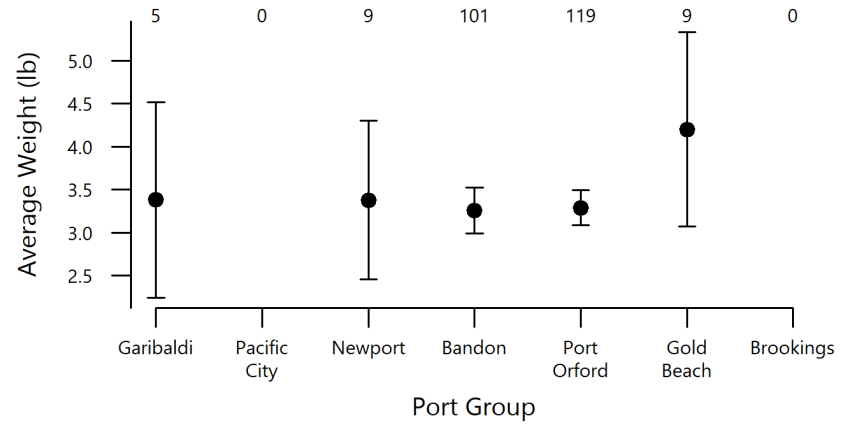
Quillback Rockfish Commercial Weights by Port



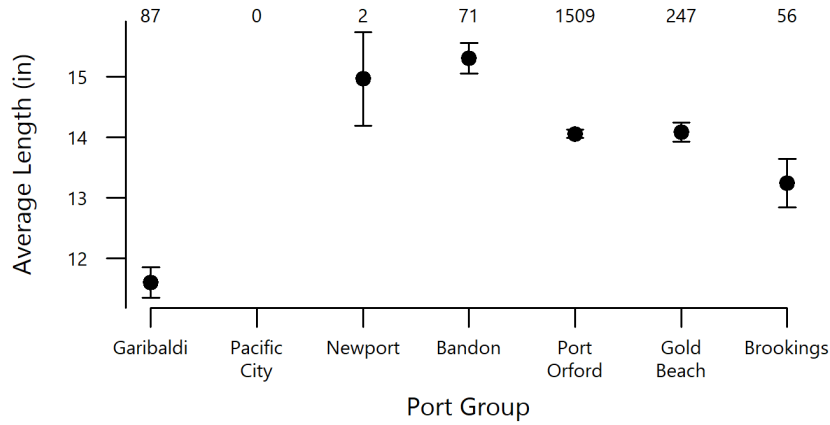
Copper Rockfish Commercial Lengths by Port



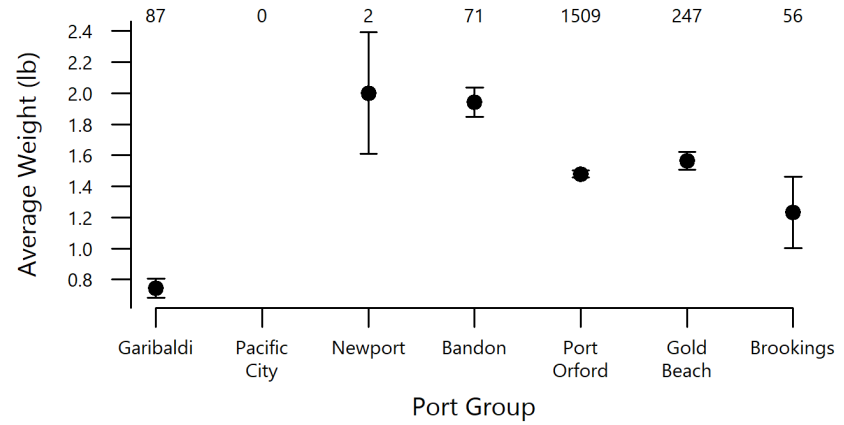
Copper Rockfish Commercial Weights by Port



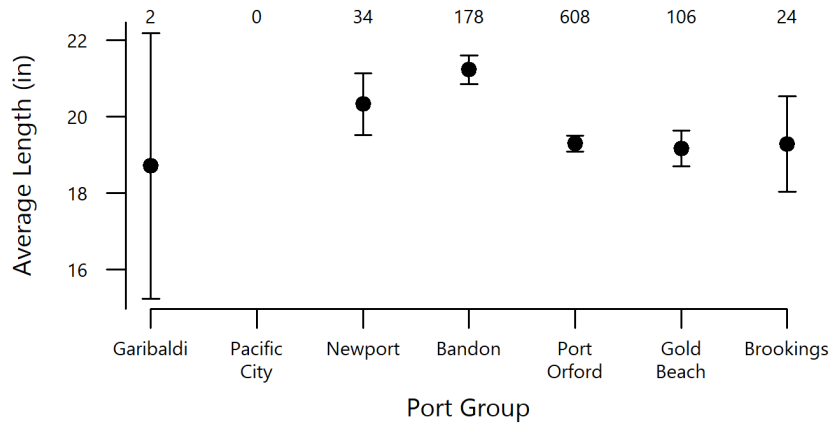
Kelp Greenling Commercial Lengths by Port



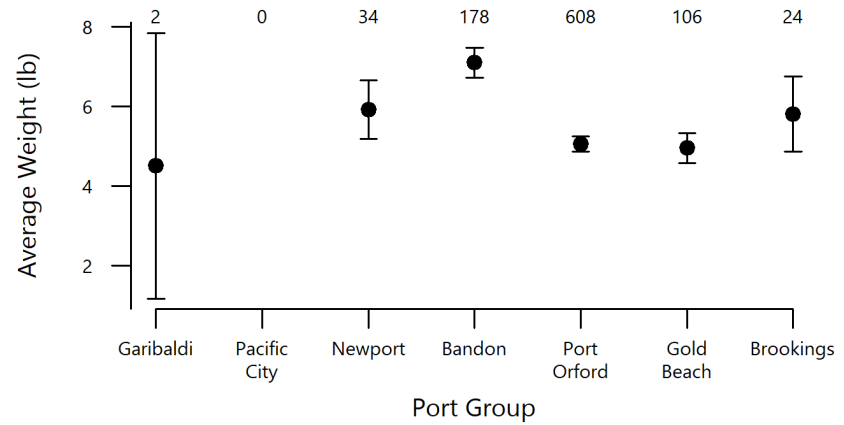
Kelp Greenling Commercial Weights by Port



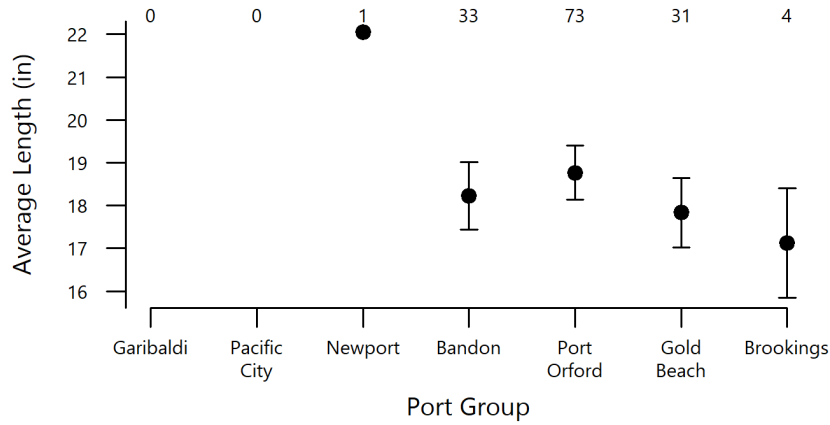
Cabezon Commercial Lengths by Port



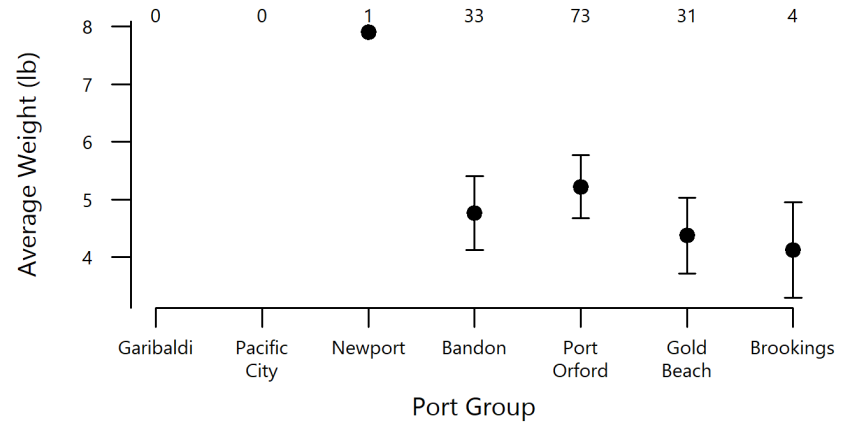
Cabezon Commercial Weights by Port



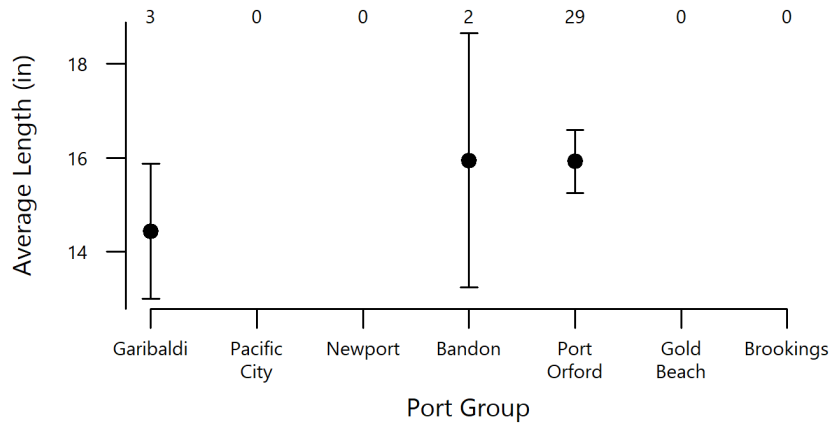
Vermilion Rockfish Commercial Lengths by Port



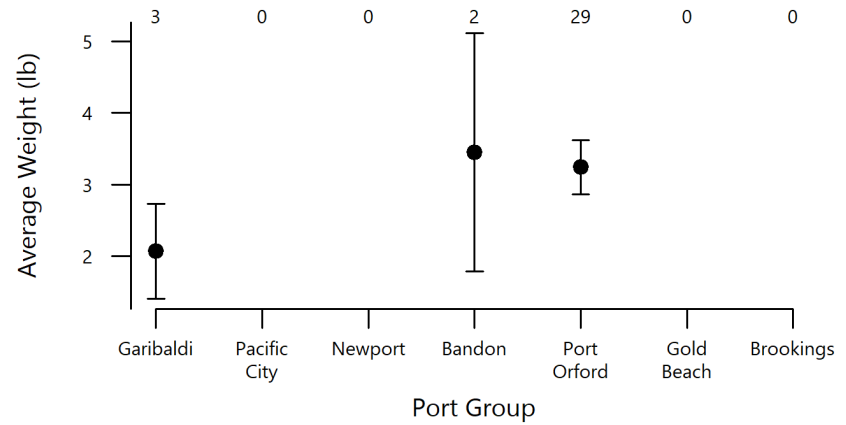
Vermilion Rockfish Commercial Weights by Port



Tiger Rockfish Commercial Lengths by Port



Tiger Rockfish Commercial Weights by Port



Appendix E. 2023 nearshore species commercial length and weight sample averages by gear with sample sizes and 95% confidence intervals.

