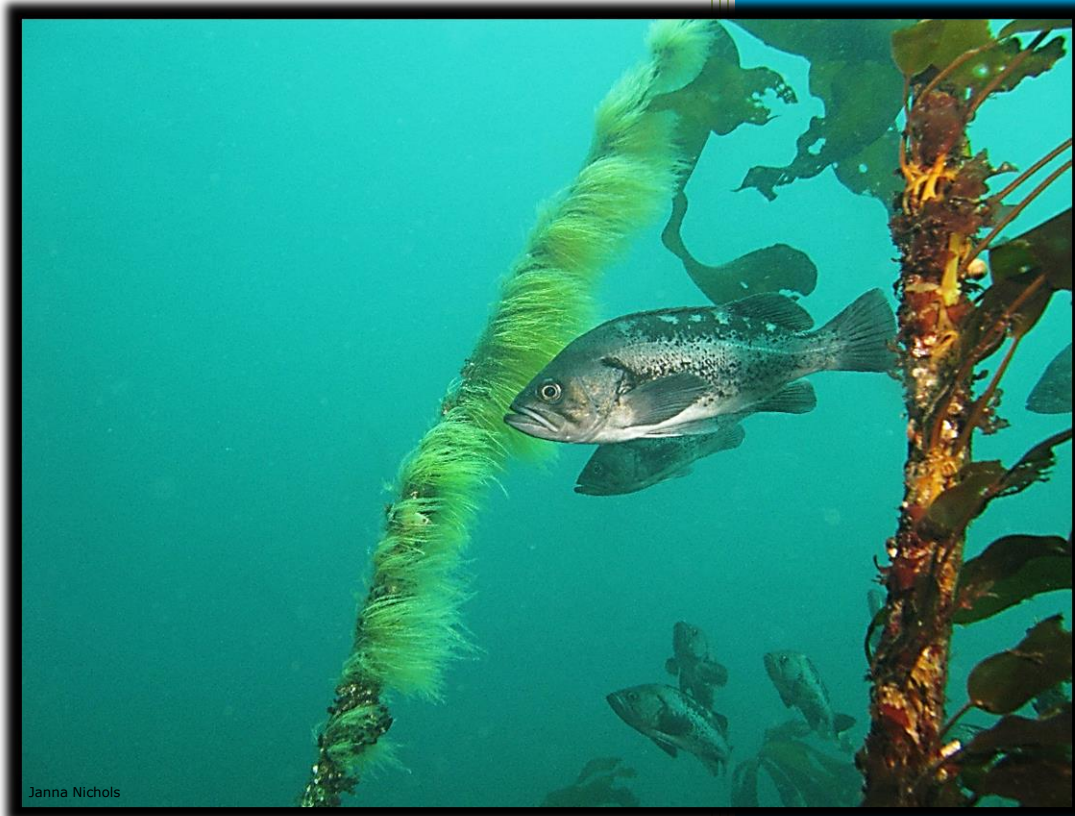




2020

The Oregon Commercial Nearshore Fishery Data Update



Oregon Department of Fish and Wildlife
Marine Resources Program
2040 SE Marine Science Drive
Newport, OR 97365
(541) 867 - 4741

<http://www.dfw.state.or.us/MRP/>

Brett T Rodomsky
Keith M Matteson

May 2021

Table of Contents

Introduction..... 4
Fishery Management and Harvest Specification Updates 4
China, Copper and Quillback Rockfish Biological Samples..... 6
Acknowledgements..... 6
References..... 7
Tables 8
Figures 16
Appendices..... 32

Tables

Table 1. Oregon nearshore species and management groups..... 8
Table 2. 2020 commercial Harvest Guidelines 9
Table 3. Bimonthly period durations 9
Table 4. 2020 bimonthly trip limits..... 9
Table 5. Commercial length samples by species..... 10
Table 6. Commercial weight samples by species..... 10
Table 7. Logbook compliance by port group..... 11
Table 8. Logbook catch by species and period 12
Table 9 Pounds landed by species with total ex-vessel value and average price 14
Table 10. Effort, pounds landed and attainment by period and management group 15

Figures

Figure 1. Black Rockfish Management Areas..... 16
Figure 2. Black Rockfish bimonthly trip limit history 17
Figure 3. Blue and Deacon Rockfish bimonthly trip limit history..... 17
Figure 4. Other Nearshore Rockfish bimonthly trip limit history 17
Figure 5. Greenling bimonthly trip limit history 17
Figure 6. Cabezon bimonthly trip limit history 18
Figure 7. 2020 Black and Blue Rockfish permits by port group 18
Figure 8. Black and Blue Rockfish permits by year..... 18
Figure 9. Commercial nearshore fishery effort by year and gear 18

Figure 10. Commercial nearshore pounds landed by year and species management group 19

Figure 11. Commercial nearshore ex-vessel value by year and species management group 19

Figure 12. Commercial nearshore pounds landed by year and gear type 19

Figure 13. Commercial nearshore pounds landed by year and bimonthly period 19

Figure 14. Commercial nearshore pounds landed by year and condition 20

Figure 15. Commercial nearshore pounds landed by year and port group 20

Figure 16. Nearshore species average pounds landed per trip..... 20

Figure 17. Black Rockfish pounds landed by year and gear type..... 20

Figure 18. Black Rockfish pounds landed by year and port group 21

Figure 19. Black Rockfish pounds landed by year and bimonthly period 21

Figure 20. Black Rockfish pounds landed by year and condition..... 21

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

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

Figure 23. Black Rockfish average ex-vessel price per pound by year and condition 22

Figure 24. Blue and Deacon Rockfish pounds landed by year and gear type 22

Figure 25. Blue and Deacon Rockfish pounds landed by year and port group 22

Figure 26. Blue and Deacon Rockfish pounds landed by year and bimonthly period 23

Figure 27. Blue and Deacon Rockfish pounds landed by year and condition 23

Figure 28. Blue and Deacon Rockfish ex-vessel value by year..... 23

Figure 29. Blue and Deacon Rockfish average pounds landed per trip 23

Figure 30. Blue and Deacon Rockfish average ex-vessel price per pound by year and condition 24

Figure 31. Other Nearshore Rockfish pounds landed by year and species group..... 24

Figure 32. Other Nearshore Rockfish pounds landed by year and gear type..... 24

Figure 33. Other Nearshore Rockfish pounds landed by year and port group..... 24

Figure 34. Other Nearshore Rockfish pounds landed by year and bimonthly period 25

Figure 35. Other Nearshore Rockfish pounds landed by year and condition..... 25

Figure 36. Other Nearshore Rockfish ex-vessel value by year and species 25

Figure 37. Other Nearshore Rockfish average pounds landed per trip..... 25

Figure 38. Other Nearshore Rockfish average ex-vessel price per pound by year and condition 26

Figure 39. Greenling pounds landed by year and gear type 26

Figure 40. Greenling pounds landed by year and port group 26

Figure 41. Greenling pounds landed by year and bimonthly period 26

Figure 42. Greenling pounds landed by year and condition 27

Figure 43. Greenling ex-vessel value by year 27

Figure 44. Greenling average pounds landed per trip 27

Figure 45. Greenling average ex-vessel price per pound by year and condition 27

Figure 46. Cabezon pounds landed by year and gear type 28

Figure 47. Cabezon pounds landed by year and port group 28

Figure 48. Cabezon pounds landed by year and bimonthly period 28

Figure 49. Cabezon pounds landed by year and condition 28

Figure 50. Cabezon ex-vessel value by year 29

Figure 51. Cabezon average pounds landed per trip 29

Figure 52. Cabezon average ex-vessel price per pound by year and condition 29

Figure 53. Other Nearshore Species pounds landed by year and species group 29

Figure 54. Other Nearshore Species pounds landed by year and gear type 30

Figure 55. Other Nearshore Species pounds landed by port group 30

Figure 56. Other Nearshore Species pounds landed by bimonthly period 30

Figure 57. Other Nearshore Species pounds landed by year and condition 30

Figure 58. Other Nearshore Species ex-vessel value by year 31

Figure 59. Other Nearshore Species average pounds landed per trip 31

Figure 60. Other Nearshore Species average ex-vessel price per pound by year and condition.. 31

Figure 61. Landings attainment percentage of harvest quotas by management group 31

Appendices

Appendix A. Annual harvest caps, landing caps and Harvest Guidelines: 2004-2019 32

Appendix B. History of bimonthly trip limits: 2004-2019 33

Appendix C. Nearshore species commercial weight and length samples by year 40

Appendix D. 2020 commercial length and weight samples by port group 46

Appendix E. 2020 commercial length and weight samples by gear 51

Introduction

This document updates the 2019 Commercial Nearshore Fishery Data Update (Rodomsky *et al.* 2020) with data and management details through 2020. For detailed narratives and summaries from previous years see “finfish reports” on the Oregon Department of Fish and Wildlife Marine Resources Program publications page¹.

Oregon’s nearshore waters support a limited-entry commercial fishery that targets rocky reef associated groundfish species (Table 1). Here summarized, in tables and figures, are data from the 2020 commercial nearshore fishery including management goals, harvest specifications, fishing effort, landed poundage, nominal ex-vessel value, fishery-dependent biological data, and compliance with the commercial nearshore logbook requirement. Also included is a brief narrative on 2020 fishery management actions. To maintain individual confidentiality as some ports have small numbers of participating vessels, data from Garibaldi and Astoria are combined and presented in the Garibaldi port group, data from Depoe Bay and Newport are combined in the Newport port group, and data from Winchester Bay, Charleston and Bandon are combined in the Bandon port group. Although fishers sometimes use more than one gear type during a trip, landings in this document are summarized by the primary gear used during the trip that is recorded on Oregon commercial fish receiving tickets (fish tickets).

Fishery Management and Harvest Specification Updates

Fishery managers from the Oregon Department of Fish and Wildlife (the Department) set specific management goals at the outset of 2020 to maintain a sustainable fishery from both a natural resources and a socio-economic perspective. Commercial fishers and other interested parties have the opportunity to provide input on these management goals at a series of public meetings held by the Department each fall, or can provide testimony directly to the Oregon Fish and Wildlife Commission (the Commission) when regulations are adopted. Largely based on public input, the primary goal for 2020 was to provide fishing opportunities throughout the calendar year without exceeding state annual commercial harvest guidelines (HGs) or allowable impacts to Yelloweye Rockfish (*Sebastes ruberrimus*), a stock that is rebuilding after being declared overfished.

Commercial HGs are harvest limit regulations that are not quotas but serve to control fleetwide impacts of the fishery. The attainment of a HG does not necessarily cap fishery impacts. Harvest guidelines are implemented in Oregon regulations to allocate harvest among sport and commercial fisheries within federal Annual Catch Limits (ACLs), which are derived from stock assessments, without exceeding those limits. Harvest guidelines differ from harvest caps and landing caps implemented in historical regulations in that prior attainment of a cap resulted in fishery shutdown. 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 2020, the state adopted individual commercial HGs for each of Black Rockfish, Greenling, Cabezon, Other Nearshore Rockfish and Blue/Deacon Rockfish.

¹ - <https://www.dfw.state.or.us/MRP/publications/>

Commercial HG amounts for 2020 are listed in Table 2 with fishery quotas from 2019 and prior in Appendix A. No HG exists 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 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. State commercial HGs for 2020 Black Rockfish, Other Nearshore Rockfish and Greenling were set based on ACLs resulting from 2015 stock assessment information. The Black Rockfish HG dropped one percent from 2019 to 2020 due to fishing down stock biomass projected in the stock assessment. The Blue and Deacon HG was set at 18.3 metric tons (mt), down 3.2% from 18.9 mt, and Other Nearshore Rockfish was 12.2 mt, a 1% drop from the 2020 HG. The Greenling HG decreased 8.0% for 2020 as this stock is still being fished down to maximum sustainable yield. The Cabezon HG in 2020 remained constant at 30.2 mt as HG increases from the 2019 assessment of this stock will take effect in 2021. 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.

The Department implements six bimonthly periods (Table 3) for which trip limits for 5 species management groups are set for individual permitted vessels (Table 4; Figures 2-6; Appendix B). Bimonthly trip limits allocate catch quota to permitted vessels for these periods to regulate landings of commercial harvest relative to HGs across the calendar year. Trip limits are intended to balance the tradeoff of early HG attainment and fishery closure with providing year-round fishery access. Trip limits can be adjusted up or down, in-season, to allow greater opportunity for reaching HGs or to slow harvest to stay below harvest allocations. Public input regarding trip limits and other management measures for 2020 was sought both at the annual commercial nearshore fishery meetings held in September 2019 and at the December 2019 Commission meeting. Based on both meeting input and recommendations from the Department, the Commission adopted annual HGs, trip limits, and other fishery regulations for 2020 at the December 2019 Commission meeting. Initial trip limits for Black Rockfish in 2020 were set at levels similar to 2019 following high attainment the previous year (Rodomsky *et al.* 2019). Blue and Deacon Rockfish limits were again set at 1,500 pound per period limit for all periods in 2020. Other Nearshore Rockfish was initially set at 450 pounds per period, the Greenling limit at 1,000 pounds per period and the Cabezon bimonthly trip limit was halved to 1,000 pounds for all periods after rapid attainment in 2019. These trip limits put into effect at the outset of 2020 were intended to require few or no in-season changes and to provide predictable allocations, season lengths, and market supply.

COVID-19 became widespread by early 2020 slowing effort and attainment in the fishery through the first three periods. Other nearshore rockfish were the exception and focus of the live market as landings ran high early in the year. Black Rockfish trip limits were raised 600 pounds per period for periods 4-6 to increase access and offset low effort. After effort and landings in the fishery continued to be slow through period 4, Black Rockfish trip limits were raised an additional 600 pounds for periods 5 and 6, totaling 1,200 pounds of increases. In

addition, Cabezon trip limits were doubled to 2,000 pounds for periods 5 and 6. Other Nearshore Rockfish landings continued to run high into period 5. On October 23rd, fishery managers implemented a 15 pound per day restriction on Other Nearshore Rockfish while maintaining the 450 pound period limit for period 5. Based on effort information from past years the period 6 Other Nearshore Rockfish trip limit was reduced to 45 pounds per period and the 15 pound daily limit was maintained. In retrospect, the 45 pound period restriction on Other Nearshore Rockfish may have been too restrictive as effort and landings dramatically decreased relative to prior years. Overall, 82.2% of the Black Rockfish HG was landed, 29.8% of the Blue/Deacon Rockfish HG was attained, 90.5% of the Other Nearshore Rockfish HG was landed, 67.3% of the Cabezon HG and 10.1% of the Greenling HG were attained (Table 10; Figure 61). Landings attainment through time is depicted in Figure 61 and should be interpreted while considering percentages are standardized to historical, often co-occurring, changes in catch and harvest quotas.

China, Copper and Quillback Rockfish Biological Samples

Observations worth noting from commercial fishery biological samples from 2020 and prior are the significant drops and declining trends in average sizes of the main Other Nearshore Rockfish species. In 2020, the average length of China Rockfish dropped a half inch from 2019 fishery data and there has been a gradual decline in average weight since 2016. This decline in China Rockfish samples has been mirrored in Quillback Rockfish length and weight trends, and to a lesser degree, in Copper Rockfish sampled in the fishery beginning in 2015 (Appendix C). While the cause of these patterns is unclear, it is possible either environmental or harvest related factors, or both, are driving these observed declines. More young, small fish entering the fishery due to higher than average recruitment may be driving length and weight distributions smaller. Conversely, it is possible older fish are becoming smaller and lighter influenced by environmental drivers such as food availability altered by warm water conditions in the northeastern Pacific since 2015. Or, harvest patterns across space and time or per gear type may be hyperstable 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 fishery sector (longline vs. hook and line) as 2020, in particular, created various challenges for sampling staff and data acquisition consistency compared to prior years. Quillback and Copper Rockfishes will undergo separate data moderate assessments this summer. ODFW will continue to monitor these species, evaluate the available data, consider regulations adjustments and support ongoing stock assessment efforts.

Acknowledgements

We thank Troy Buell for review and thoughtful suggestions for improving this document. Nadine Hurtado ensured all fish ticket landings data were accurate and up-to-date. Port biologists and samplers spent long hours in the field collecting biological samples and logbook pages. In addition, appreciation goes out to all the nearshore fishers for their efforts in the commercial nearshore fishery and for providing quality logbook data.

References

Cope, JM, Berger, AM, Whitman, AD, Budrick, JE, Bosley, KM, Tsou, T, Niles, CB, PriviteraJohnson, K, Hillier, LK, Hinton, KE, and Wilson, MN 2019. Assessing Cabezon (*Scorpaenichthys marmoratus*) stocks in waters off of California and Oregon, with catch limit estimation for Washington State. Pacific Fishery Management Council, Portland, OR. Available from <http://www.pcouncil.org/groundfish/stock-assessments/>

Rodomsy, BT, TR Calavan and KM Matteson. 2020. The Oregon Commercial Nearshore Fishery Data Update: 2019 (pdf). Oregon Department of Fish and Wildlife Marine Resources Program. 56 pp. <https://www.dfw.state.or.us/MRP/publications/docs/2019%20Oregon%20Commercial%20Nearshore%20Fishery%20Data%20Update%20final%20post.pdf>

Tables

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

State 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	<i>Sebastes serriceps</i>
Greenling	Kelp Greenling	<i>Hexagrammos decagrammus</i>
	Rock Greeling	<i>Hexagrammos lagocephalus</i>
	Whitespotted Greenling	<i>Hexagrammos steleri</i>
	Painted Greenling	<i>Oxylebius pictus</i>
Cabezon	Cabezon	<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: 2020

Table 2. Harvest guidelines (metric tons) for state management groups for 2020.

Black Rockfish	Blue & Deacon Rockfish	Other Nearshore Rockfish	Cabazon	Greenling	Other Nearshore Species
122.9	18.3	12.2	30.2	118.3	N/A

Table 3. Bimonthly 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 trip limits for commercial nearshore state management groups set at the outset of 2020. In-season trip limit changes, the realized limits, are depicted in *italics*.

Management Group	Period(s)	2020 Outset Limit - pounds (<i>in-season change</i>)
Black Rockfish	1	1,500
	2	1,500
	3	1,800
	4	1,800 (<i>2,400</i>)
	5-6	1,500 (<i>2,700</i>)
Blue & Deacon Rockfish	1-6	1,500
Other Nearshore Rockfish	1-5	450
	<i>Oct 23</i>	<i>15/day; 450/period</i>
	6	450 (<i>15/day, 45/period</i>)
Greenling	1-6	1,000
Cabazon	1-4	1,000
	Sep 1	<i>2,000</i>
	5-6	1,000 (<i>2,000</i>)

Table 5. Summary of 2020 length samples (inches) from the Oregon commercial nearshore fishery.

Species	Sample Size	Average Length (in)	Range	95% C.I. (±)
Black Rockfish	1,681	15.7	10.6–21.7	0.1
Blue Rockfish	35	12.9	10.6–16.9	0.5
Cabezon	297	20.1	15.0–29.1	0.3
China Rockfish	378	13.2	8.7–17.3	0.1
Copper Rockfish	126	17.1	12.2–24.0	0.4
Deacon Rockfish	181	13.3	9.1–17.7	0.2
Gopher Rockfish	4	12.2	10.6–14.2	1.4
Grass Rockfish	4	15.9	13.8–17.3	1.6
Kelp Greenling	606	14.5	11.4–17.7	0.1
Quillback Rockfish	216	14.6	9.1–18.9	0.3
Tiger Rockfish	23	16.1	13.4–18.9	0.5
Vermilion Rockfish	94	19.3	12.6–25.2	0.6

Table 6. Summary of 2020 weight samples (pounds) from the Oregon commercial nearshore fishery.

Species	Sample Size	Average Weight (lbs)	Range	95% C.I. (±)
Black Rockfish	1,681	2.4	0.8–5.8	0.0
Blue Rockfish	35	1.7	0.8 – 3.6	0.2
Cabezon	297	5.7	2.3–14.8	0.3
China Rockfish	378	1.9	0.5–4.3	0.1
Copper Rockfish	126	3.8	1.2–7.6	0.3
Deacon Rockfish	181	1.6	0.5–3.5	0.1
Gopher Rockfish	4	1.5	0.8–2.4	0.7
Grass Rockfish	4	2.9	1.9–3.6	0.7
Kelp Greenling	606	1.6	0.6–3.0	0.0
Quillback Rockfish	216	2.5	0.5–5.0	0.1
Tiger Rockfish	23	3.1	1.5–4.5	0.3
Vermilion Rockfish	94	5.2	1.3–9.5	0.4

Table 7. 2020 logbook program compliance by port group including open access lingcod trip logs.

Port	Trips Fished	Trips with no Log	Compliance
Garibaldi group	264	28	89.4 %
Pacific City	209	5	97.6 %
Newport group	256	17	93.4 %
Bandon group	159	13	91.8 %
Port Orford	994	92	90.7 %
Gold Beach	225	28	87.6 %
Brookings	183	1	99.5 %
Total	2,290	184	92.0 %

The Oregon Commercial Nearshore Fishery Data Update: 2020

Table 8. Summary of commercial nearshore logbook reported retained (Ret.) and released (Rel.) fish (pounds) by species and period in 2020. Rockfish is abbreviated as RF in species names.

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	87	0	0	0	0	0	104	0	0	0	279
Black-and-Yellow RF	0	0	0	0	0	1	1	2	0	1	0	0	1	5
Black RF	214	14,021	660	39,221	451	45,926	1,055	44,018	786	42,874	51	17,380	3,217	203,440
Blackgill RF	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Blue RF	224	1,072	576	2,284	565	2,935	251	1,015	636	2,057	185	2,603	2,437	11,966
Bocaccio	0	7	0	0	0	325	0	738	7	30	0	2	7	1,102
Brown RF	0	0	0	13	0	4	0	3	0	0	0	0	0	20
Cabezon	590	4,877	403	7,067	531	8,418	574	6,635	410	8,837	122	5,115	2,630	40,949
Canary RF	58	973	68	1,910	31	1,416	38	2,265	134	2,067	34	594	363	9,225
China RF	149	698	277	1,799	508	3,451	331	2,855	671	2,441	455	442	2,391	11,686
Chinook Salmon	0	0	0	0	40	0	0	0	0	0	0	0	40	0
Coho Salmon	0	0	0	0	0	0	33	0	32	0	0	0	65	0
Copper RF	82	219	89	908	113	957	26	1,047	67	804	31	97	408	4,032
Deacon RF	0	0	0	0	0	0	0	0	0	5	0	0	0	5
Giant Pacific Octopus	0	25	0	71	0	29	0	0	0	19	8	0	8	144
Gopher RF	0	3	2	5	1	26	1	12	5	13	1	1	10	60
Grass RF	0	30	0	7	0	49	0	19	0	0	0	0	0	105
Greenlings	0	0	0	0	0	0	0	82	0	0	0	27	0	109
Greenspotted RF	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Kelp Greenling	128	2,349	177	36,187	292	5,198	248	3,627	304	5,857	160	2,508	1,309	55,726
Lingcod	2,953	21,432	5,523	45,214	2,375	27,479	2,238	21,667	1,651	29,554	774	19,630	15,514	164,976
Longnose Skate	0	0	0	0	0	0	0	9	0	0	0	0	0	9
Nominal Shelf RF	0	0	0	0	0	150	0	0	0	0	0	0	0	150
Nominal Slope RF	0	0	0	32	0	0	0	509	0	343	0	0	0	884
Olive RF	0	0	0	18	0	0	0	0	0	0	0	20	0	38
Pacific Halibut	0	0	0	0	0	0	65	1,785	0	0	0	0	65	1,785

The Oregon Commercial Nearshore Fishery Data Update: 2020

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 Herring	0	380	0	0	0	0	0	0	0	0	0	0	0	380
Petrале Sole	0	0	0	2	0	0	0	8	0	0	0	0	0	10
Quillback RF	29	538	192	1,312	263	1,456	94	1,415	309	1,350	70	83	957	6,154
Red Irish Lord	0	0	1	0	0	0	4	1	5	0	2	0	12	1
Rockfish (Other)	0	0	0	0	0	0	0	33	0	0	0	0	0	33
Sculpins	0	2	0	0	0	0	0	1	0	0	0	0	0	3
Sharks	0	0	0	0	0	30	0	0	0	0	0	0	0	30
Silvergray RF	0	0	0	0	0	38	0	0	0	10	0	20	0	173
Skates	0	0	0	137	0	0	0	721	0	0	0	0	0	858
Sole (Misc)	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Striped Seaperch	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Tiger RF	0	31	0	102	1	174	2	97	0	82	0	37	3	523
Vermilion RF	61	521	94	1,428	23	1,037	6	1,395	30	1,307	0	327	214	6,015
Widow RF	0	43	0	41	0	15	0	4	0	0	0	0	0	103
Wolf-Eel	0	6	0	80	0	82	0	83	0	46	0	0	0	297
Yelloweye RF	123	0	310	0	267	0	260	0	404	0	137	0	1,501	0
Yellowtail RF	20	10	121	149	121	440	51	267	123	470	2	156	438	1,492
Period Totals	4,631	47,342	8,493	138,094	5,582	99,739	5,278	90,314	5,574	98,271	2,032	49,042	31,590	522,802

The Oregon Commercial Nearshore Fishery Data Update: 2020

Table 9. Total pounds (lbs) landed, total ex-vessel value, and average prices of live and fresh fish by species in 2020.

Species	Live lbs	Fresh lbs	Live Value \$	Dead Value \$	Avg Live Price \$	Avg Dead Price \$
Black Rockfish	108,204	114,558	278,984.75	194,079.45	2.58	1.69
Blue & Deacon Rockfish	2,166	9,870	6,656.00	13,864.70	3.07	1.40
Cabezon	40,503	4,305	170,211.75	6,819.05	4.20	1.58
Greenling	25,122	1,212	124,972.75	2,361.95	4.97	1.95
Black & Yellow Rockfish	10	91	50.00	159.25	5.00	1.75
Brown Rockfish	5	72	23.50	118.75	4.70	1.65
China Rockfish	10,459	2,251	73,422.50	3,327.80	7.02	1.48
Copper Rockfish	2,818	1,396	12,700.00	2,266.60	4.51	1.62
Gopher Rockfish	73	18	356.26	22.25	4.88	1.24
Grass Rockfish	129	6	894.50	8.00	6.93	1.33
Kelp Rockfish	NA	4	NA	11.00	NA	2.75
Olive Rockfish	NA	42	NA	80.00	NA	1.86
Quillback Rockfish	4,710	2,268	22,703.00	3,119.50	4.82	1.38
Buffalo Sculpin	1	3	5.50	1.50	5.50	0.50
Red Irish Lord	1	NA	3.00	NA	3.00	NA
Tiger Rockfish	418	243	2,479.25	398.00	5.93	1.64
Vermilion Rockfish	2,116	5,153	7,851.80	7,851.80	4.95	1.52
Total	197,734	141,493	722,939.80	234,489.60	3.66	1.66

The Oregon Commercial Nearshore Fishery Data Update: 2020

Table 10. Number of trips landing nearshore species and pounds landed for state management groups by bimonthly period with 2020 attainment.

Period	Trip Count	Black Rockfish	Blue & Deacon Rockfish	Other Nearshore Rockfish	Greenling	Cabezon	Other Nearshore Species
1	188	14,681	957	1,558	2,384	4,944	692
2	402	41,969	2,315	4,111	4,370	7,829	1,624
3	464	49,582	3,165	6,375	5,229	8,973	1,603
4	432	49,708	990	6,441	4,543	7,434	1,976
5	402	46,996	2,465	5,145	6,879	9,681	1,509
6	205	19,826	2,144	723	2,929	5,947	531
Total	2,093	222,762	12,036	24,353	26,334	44,808	7,935
Attainment (%)		82.2	29.8	90.5	10.1	67.3	N/A

Figures

Oregon Black Rockfish Management Areas

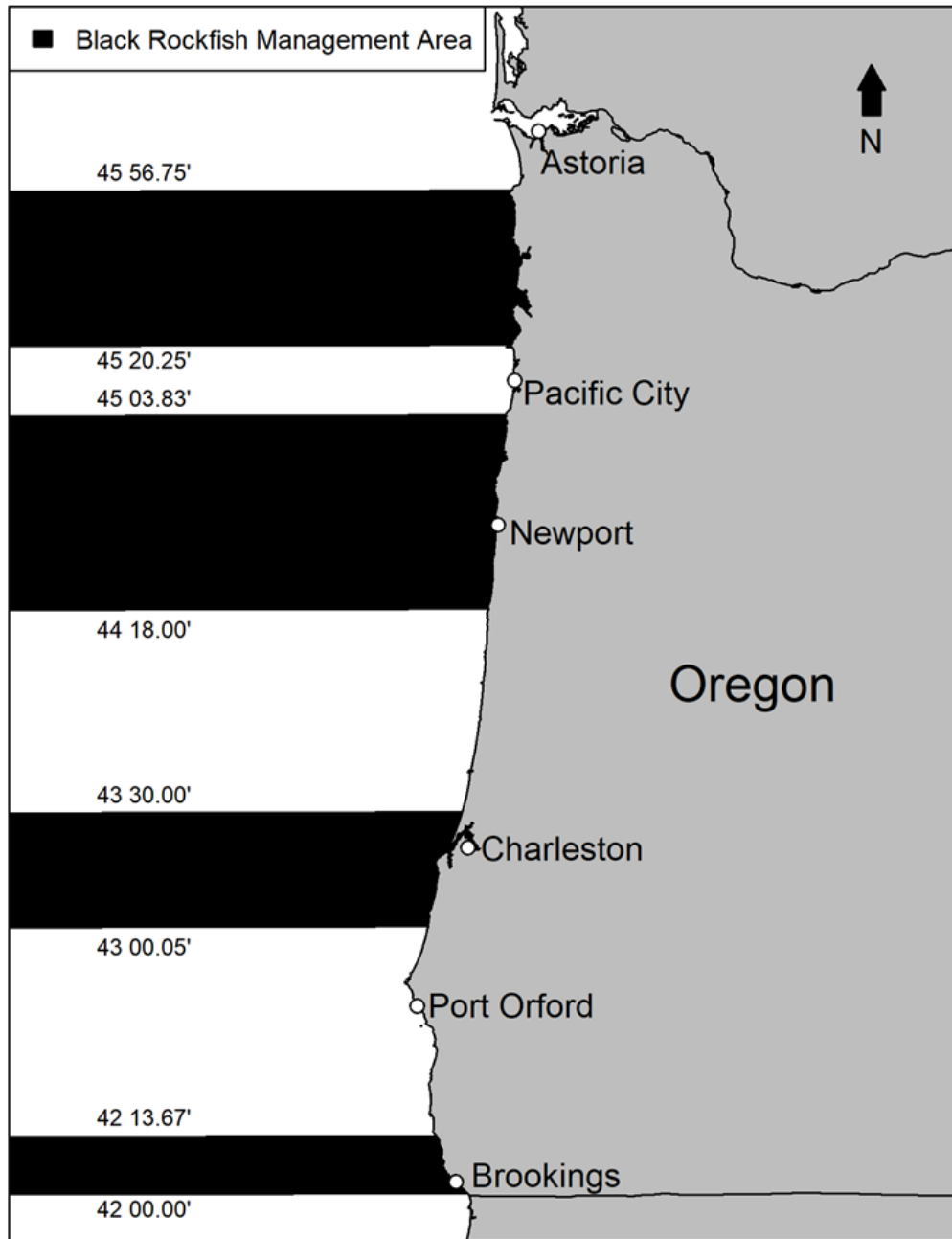


Figure 1. Black Rockfish Management Areas off Oregon. A trip limit of 500 pounds during periods 1 and 6 changes to 300 pounds during periods 2 through 5 of Black Rockfish commercial harvest is in effect in these specific geographic areas where extensive recreational harvest also occurs.

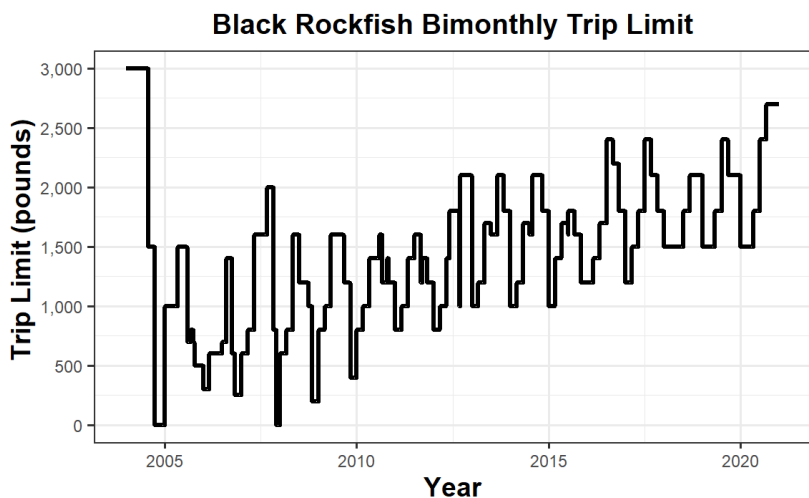


Figure 2. Black Rockfish bimonthly trip limit history.

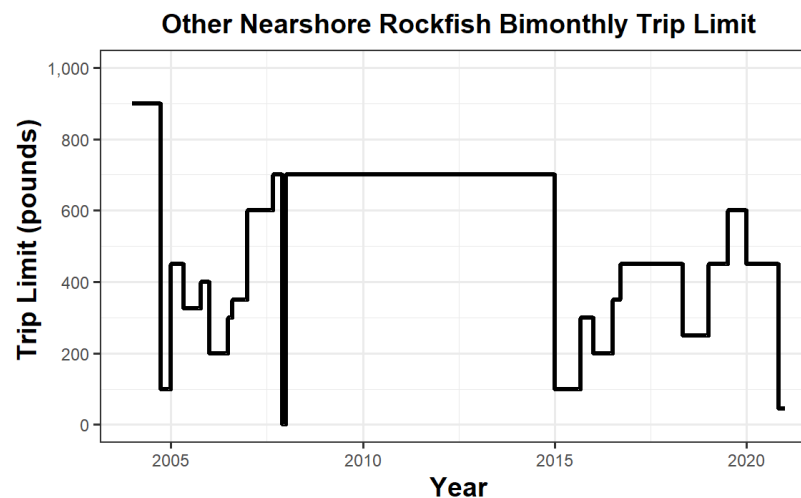


Figure 4. Other Nearshore Rockfish bimonthly trip limit history.

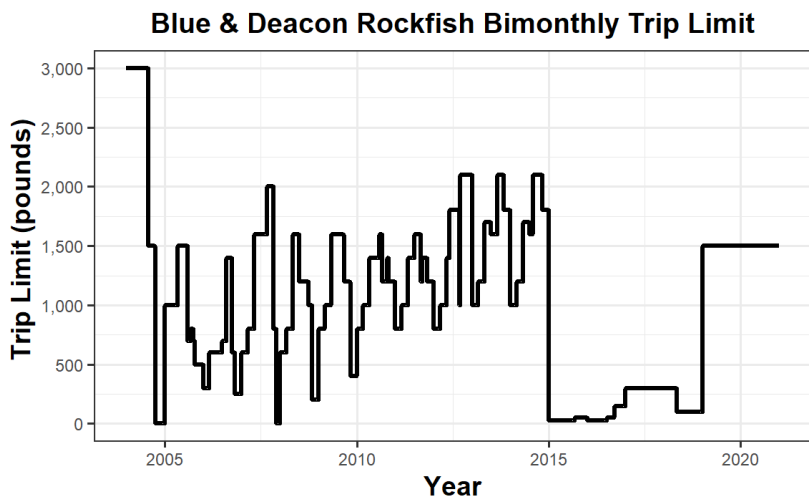


Figure 3. Blue and Deacon Rockfish bimonthly trip limit history. Prior to 2015 this limit was a combined Black/Blue/Deacon Rockfish trip limit.

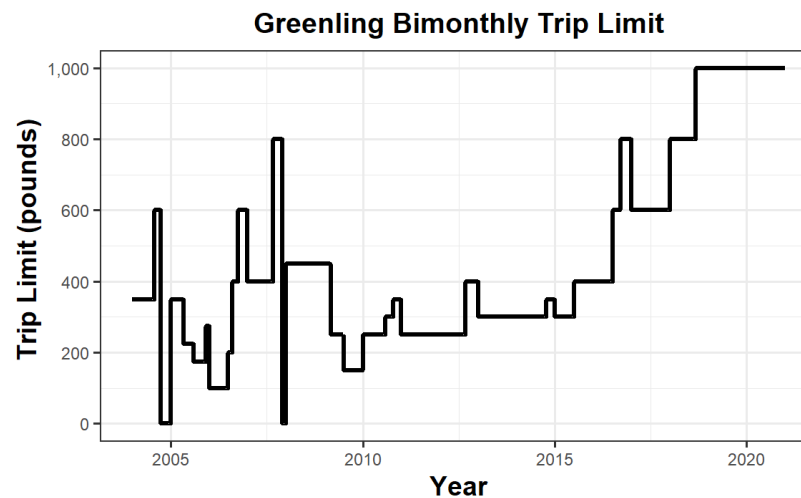


Figure 5. Greenling bimonthly trip limit history.

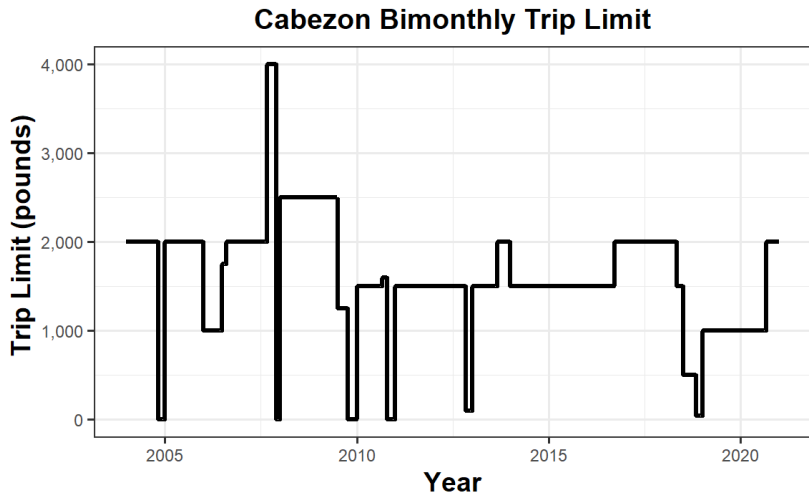


Figure 6. Cabezon bimonthly trip limit history.

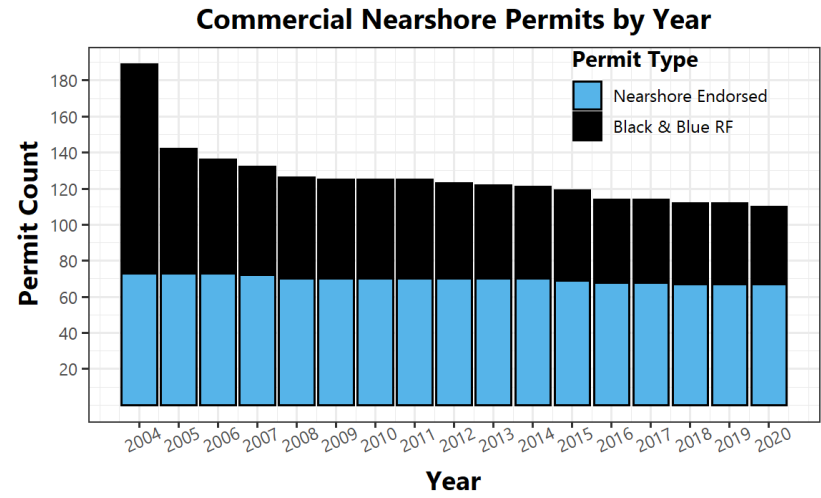


Figure 8. History of commercial nearshore Black and Blue Rockfish permits.

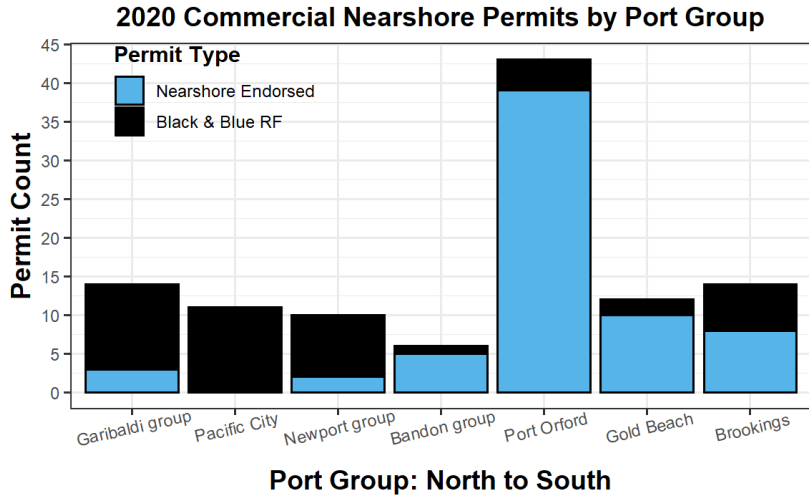


Figure 7. 2020 commercial nearshore Black and Blue Rockfish permits by port group.

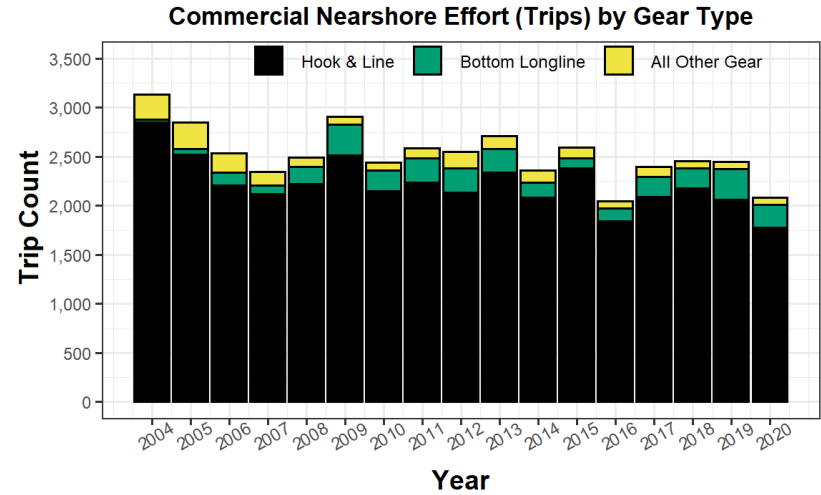


Figure 9. Commercial nearshore fishery effort (day trip) by year and gear type.

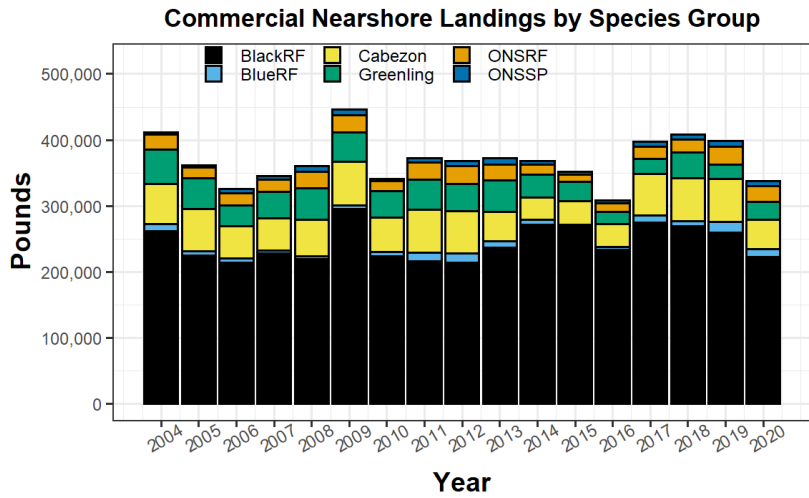


Figure 10. Commercial nearshore landings (pounds) by year and species management group.

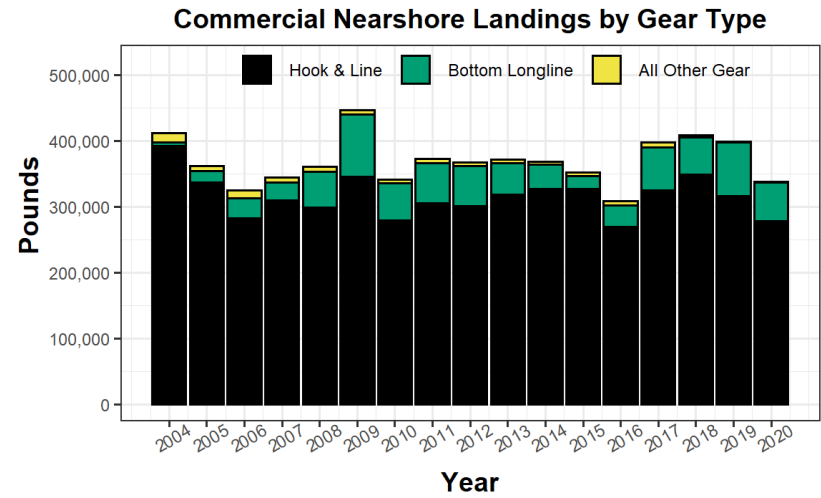


Figure 12. Commercial nearshore landings (pounds) by year and gear type.

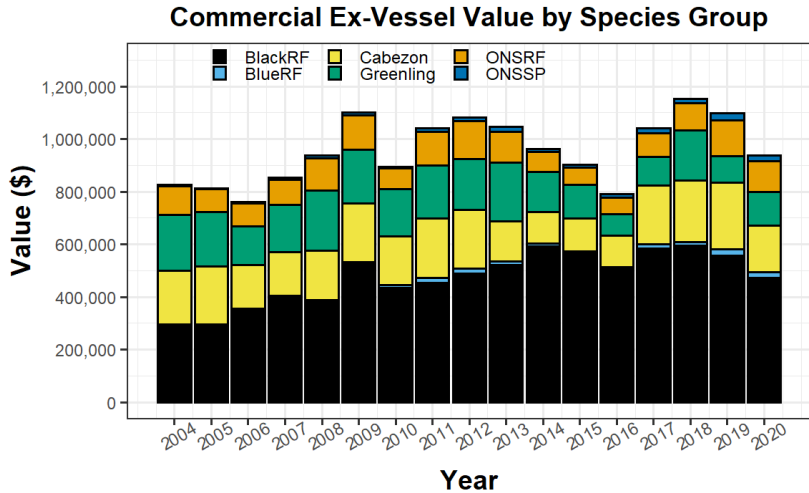


Figure 11. Commercial nearshore landings ex-vessel value (\$) by year and species management group.

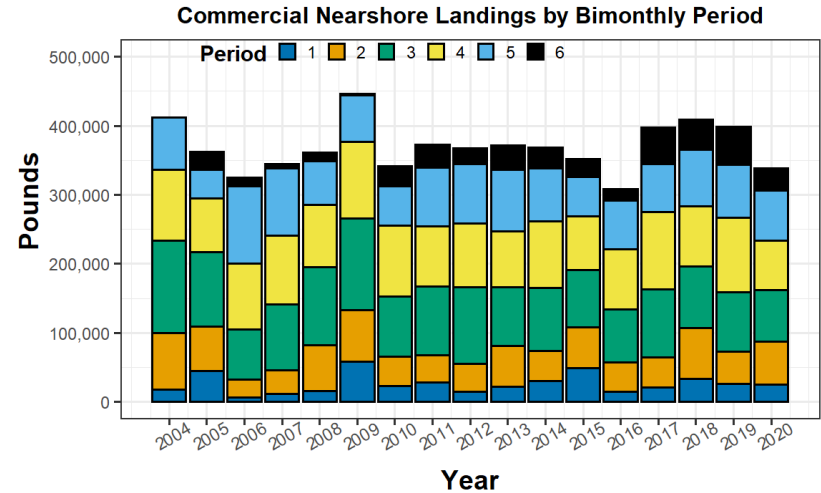


Figure 13. Commercial nearshore landings (pounds) by year and bimonthly period.

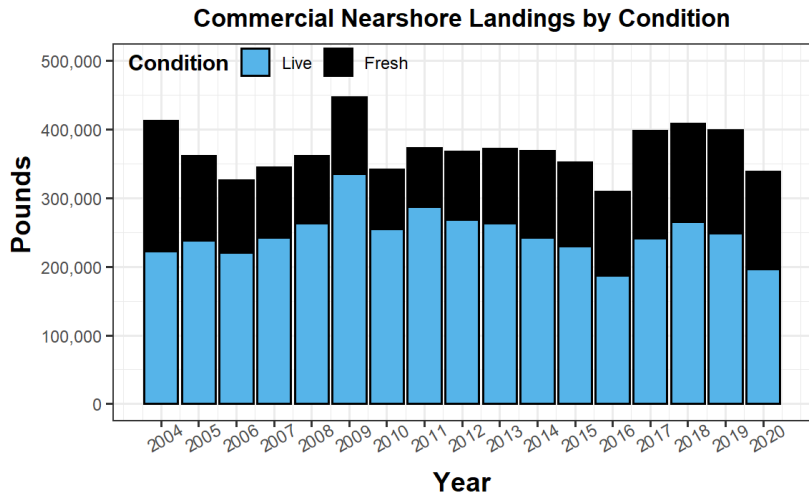


Figure 14. Commercial nearshore landings (pounds) by year and market condition.

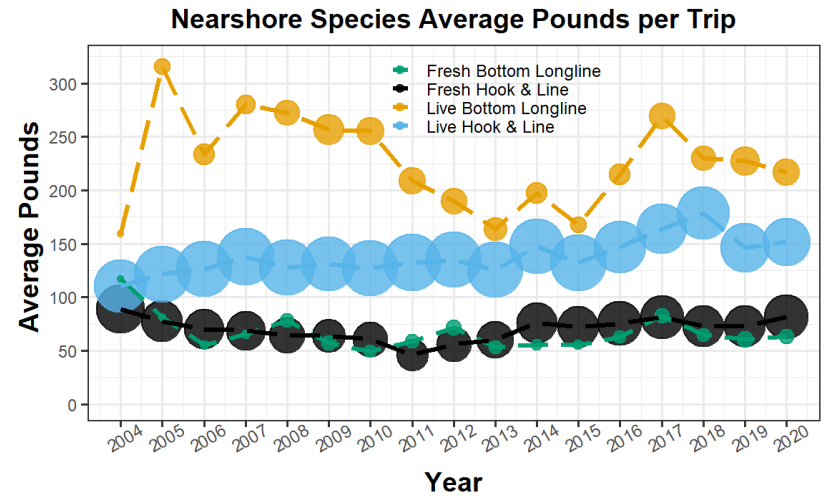


Figure 16. Average pounds landed per trip for all nearshore species combined by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.

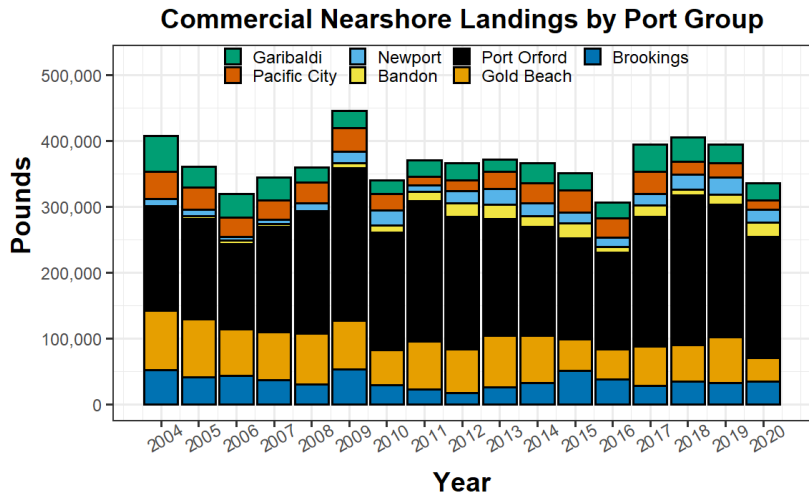


Figure 15. Commercial nearshore landings (pounds) by year and port group.

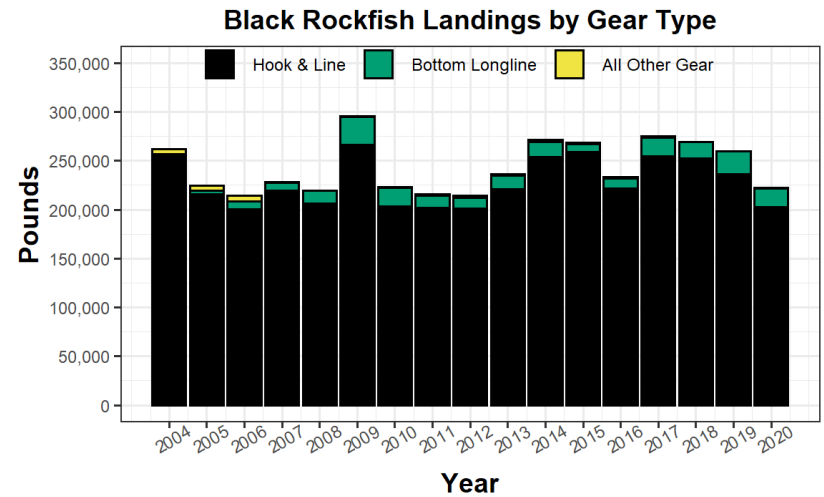


Figure 17. Black Rockfish landings (pounds) by year and gear type.

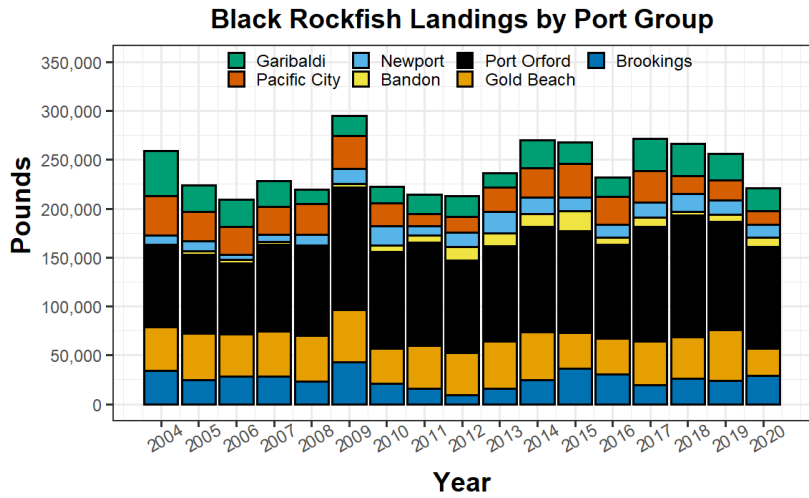


Figure 18. Black Rockfish landings (pounds) by year and port group.

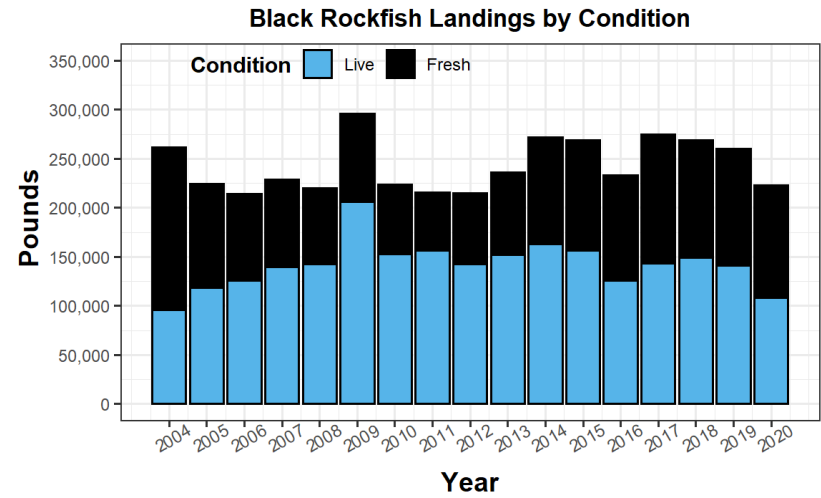


Figure 20. Black Rockfish landings (pounds) by year, species and market condition.

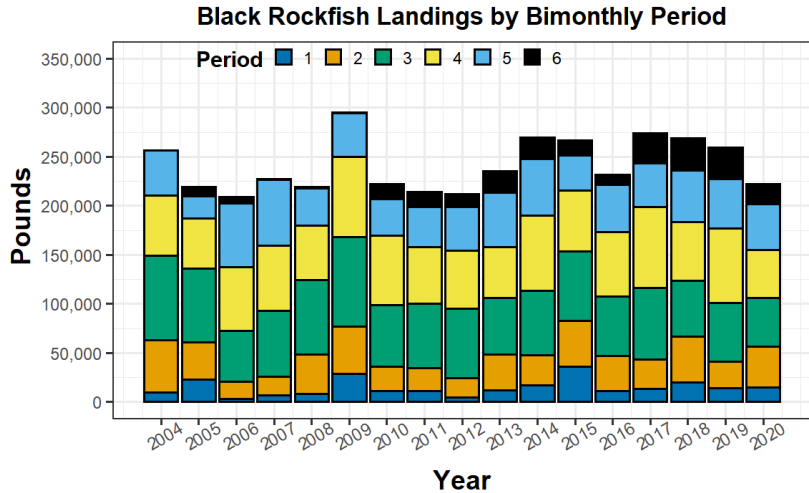


Figure 19. Black Rockfish landings (pounds) by year and bimonthly period.

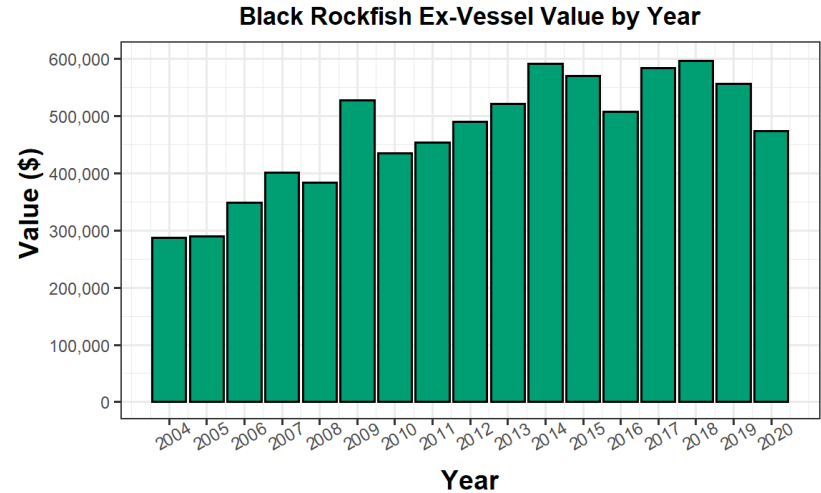


Figure 21. Ex-vessel value (\$) of Black Rockfish by year.

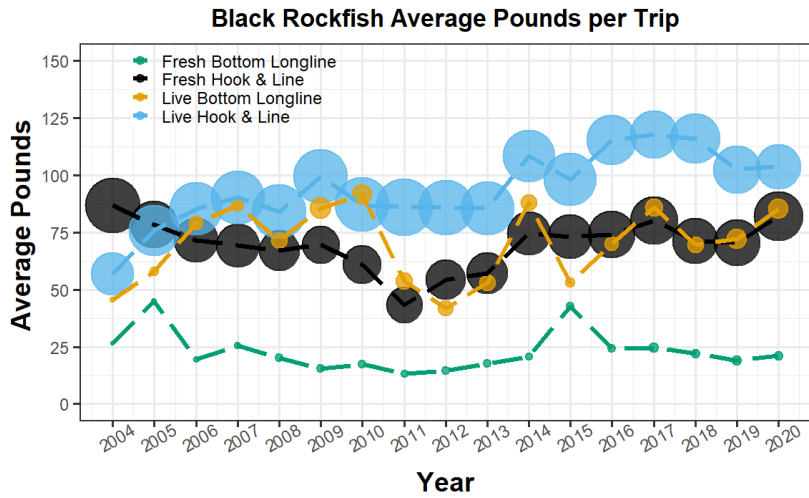


Figure 22. Average pounds landed per trip for Black Rockfish by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.

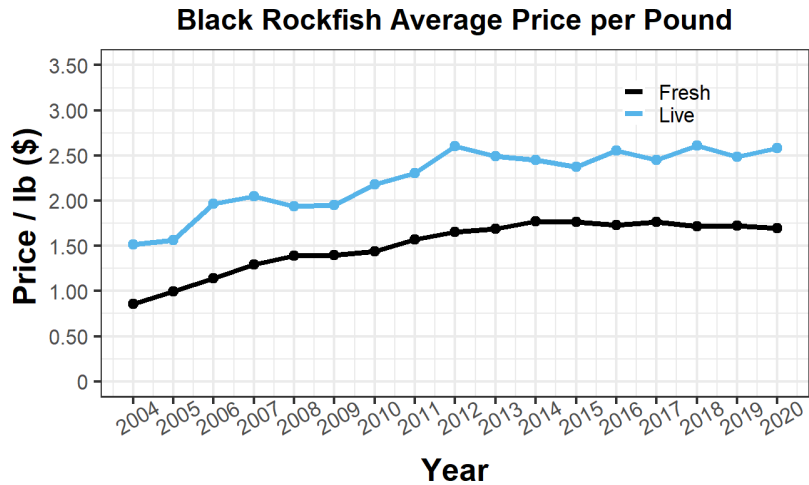


Figure 23. Black Rockfish average ex-vessel price per pound by year and market condition

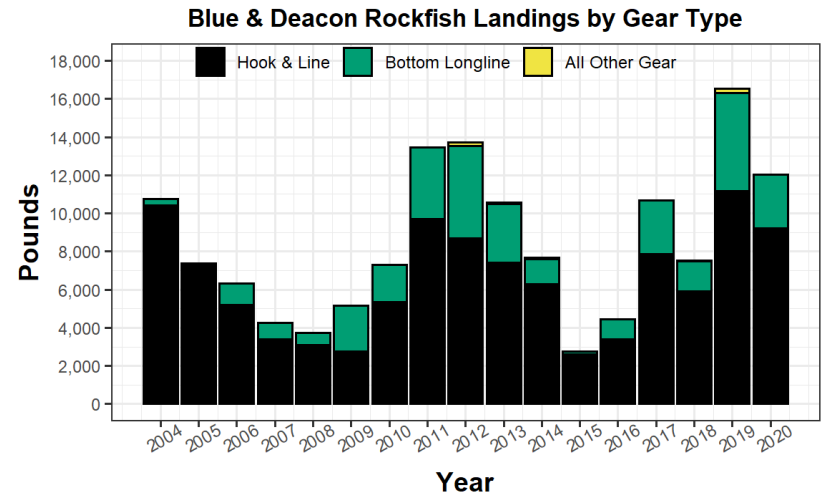


Figure 24. Blue and Deacon Rockfish landings (pounds) by year and gear type.

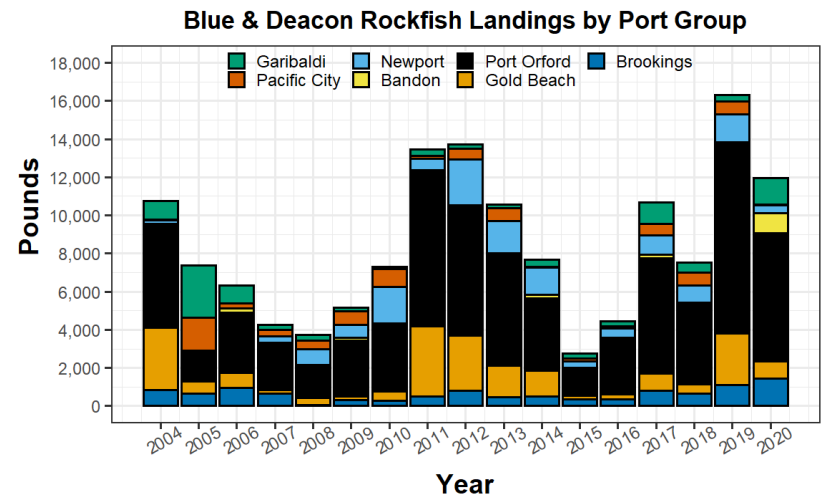


Figure 25. Blue and Deacon Rockfish landings (pounds) by year and port group.

The Oregon Commercial Nearshore Fishery Data Update: 2020

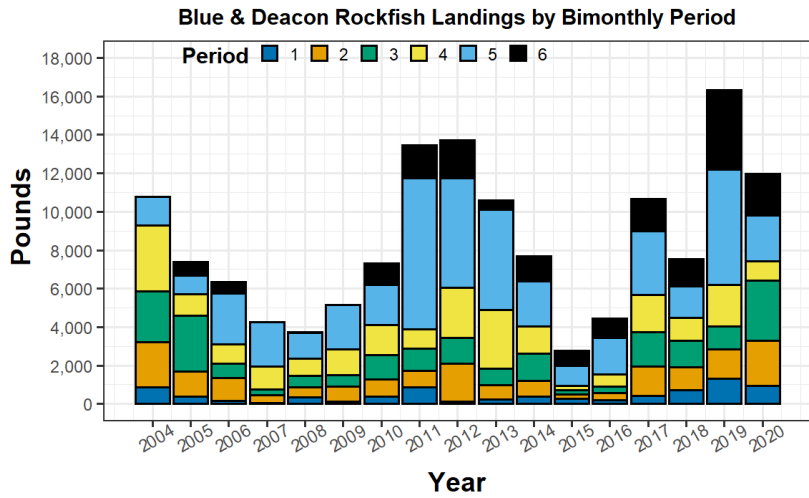


Figure 26. Blue and Deacon Rockfish landings (pounds) by year and bimonthly period.

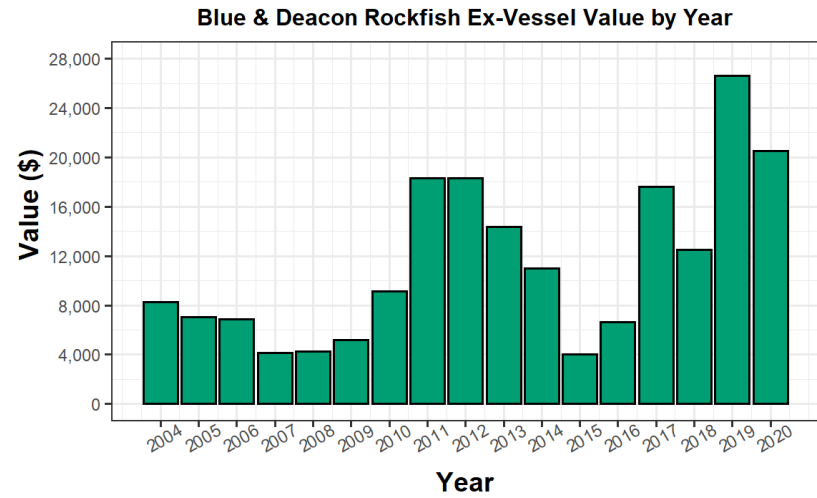


Figure 28. Blue and Deacon Rockfish ex-vessel value.

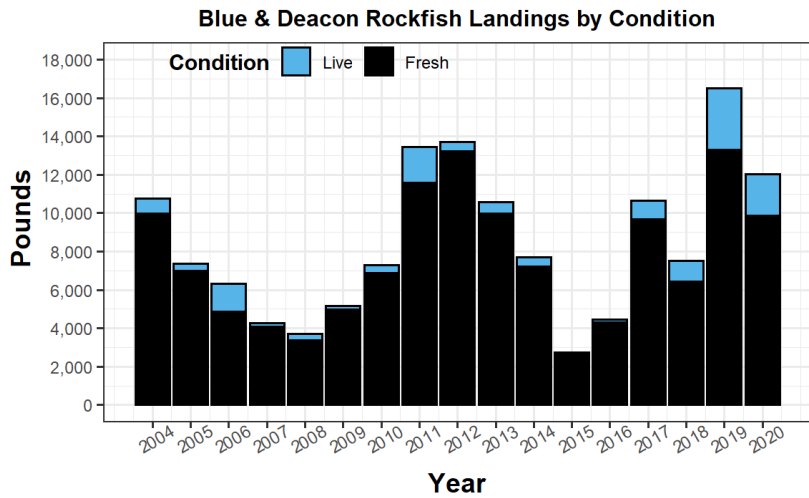


Figure 27. Blue and Deacon Rockfish landings (pounds) by year and market condition.

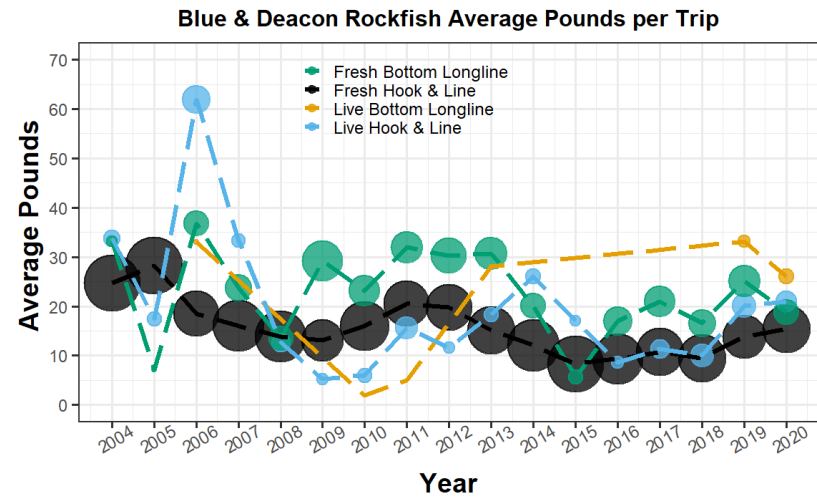


Figure 29. Average pounds landed per trip for Blue and Deacon Rockfish by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.

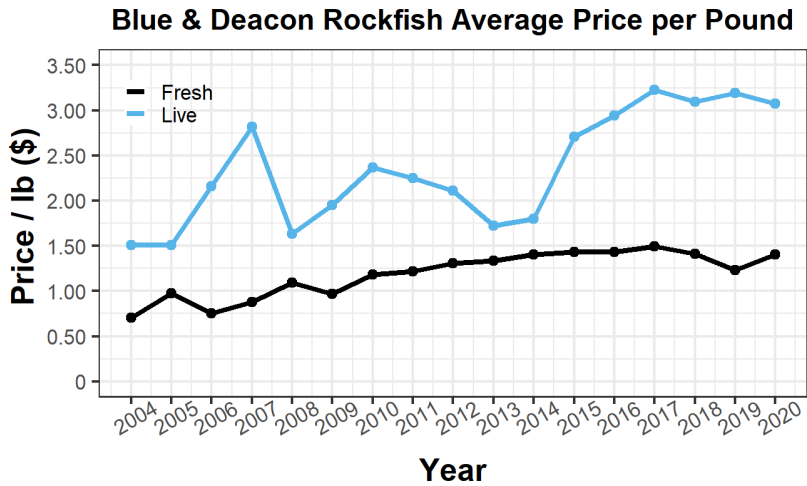


Figure 30. Blue and Deacon Rockfish average ex-vessel price per pound by year and market condition.

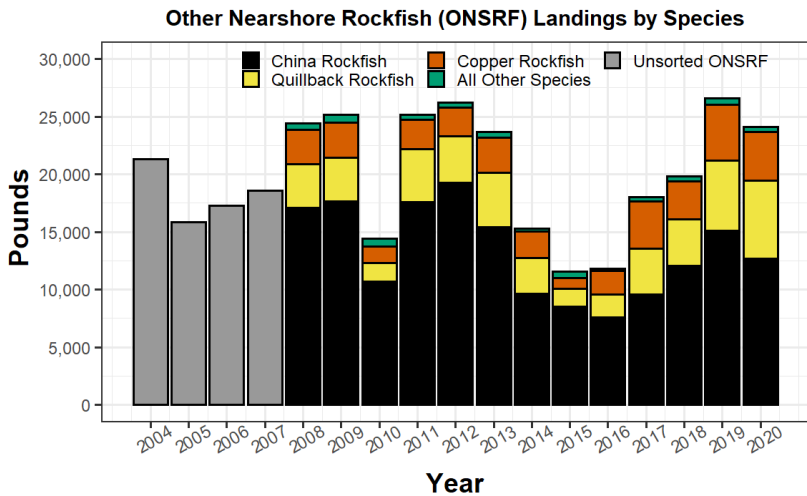


Figure 31. Other Nearshore Rockfish landings (pounds) by year and species group. Fishes landed in this species group prior to 2008 were unsorted.

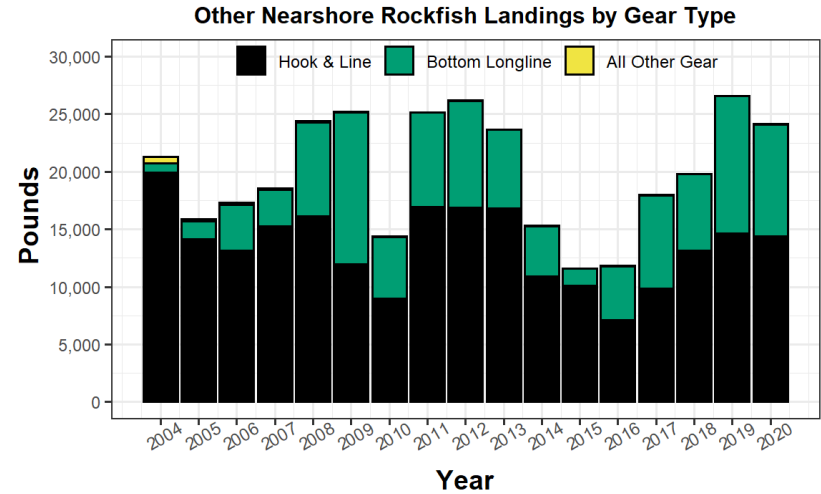


Figure 32. Other Nearshore Rockfish landings (pounds) by year and gear type.

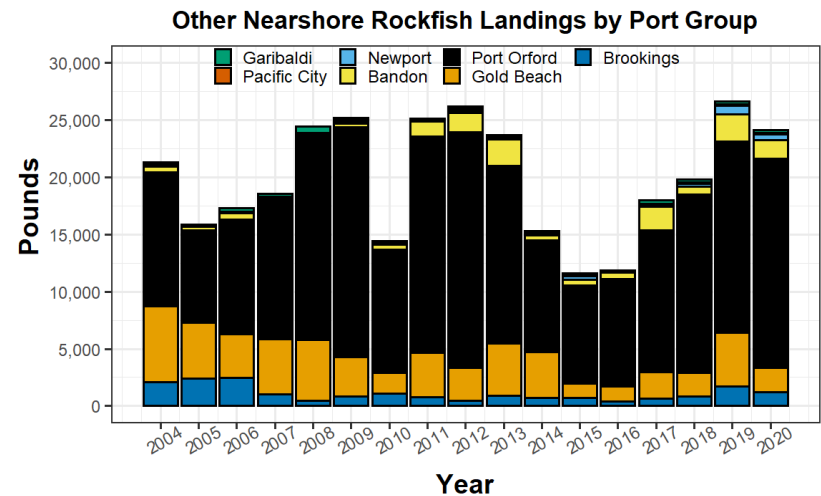


Figure 33. Other Nearshore Rockfish landings (pounds) by year and port group.

The Oregon Commercial Nearshore Fishery Data Update: 2020

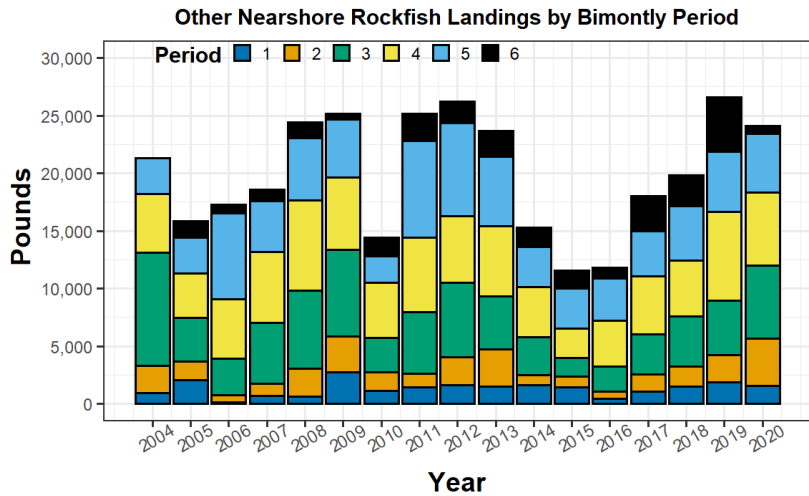


Figure 34. Other Nearshore Rockfish landings (pounds) by year and bimonthly period.

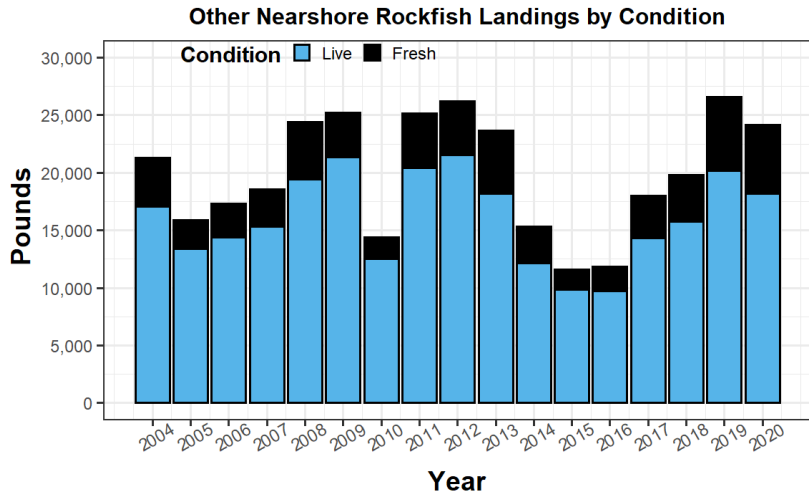


Figure 35. Other Nearshore Rockfish landings (pounds) by year and market condition.

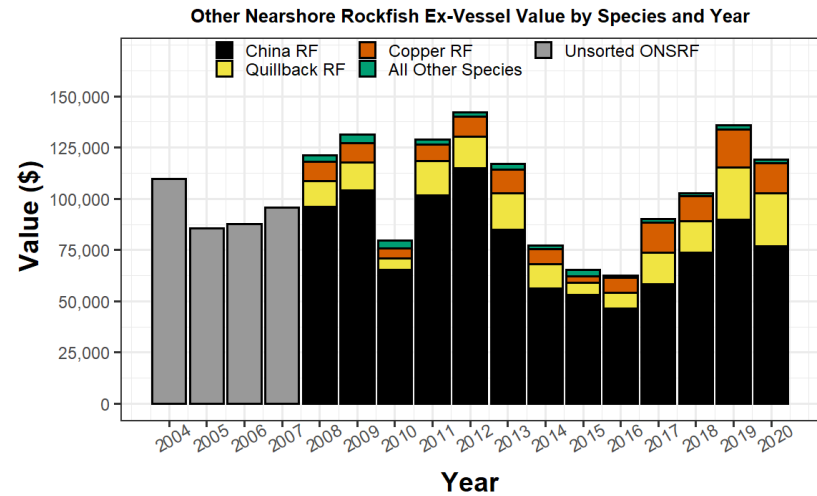


Figure 36. Other Nearshore Rockfish ex-vessel value (\$) by year and species group. Fishes landed prior to 2008 were unsorted.

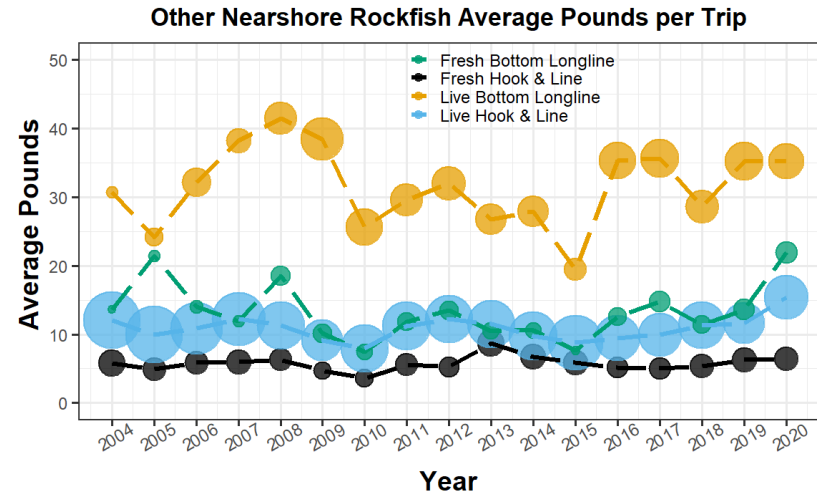


Figure 37. Average pounds landed per trip for Other Nearshore Rockfish by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.

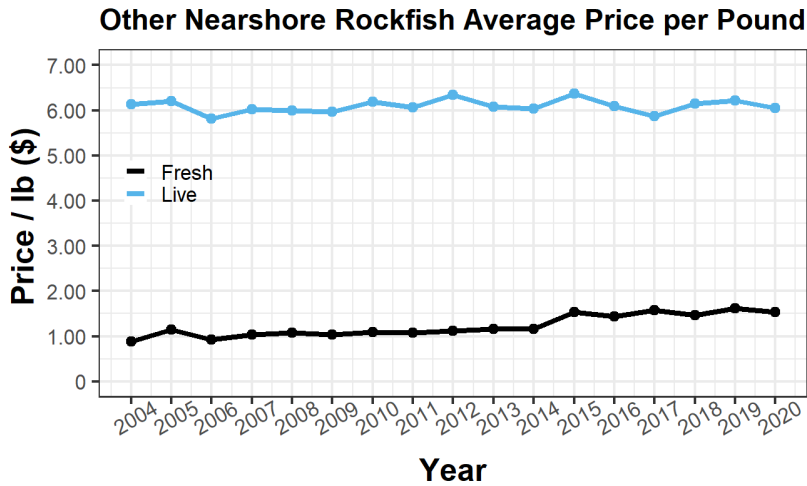


Figure 38. Other Nearshore Rockfish average ex-vessel price per pound by year and market condition.

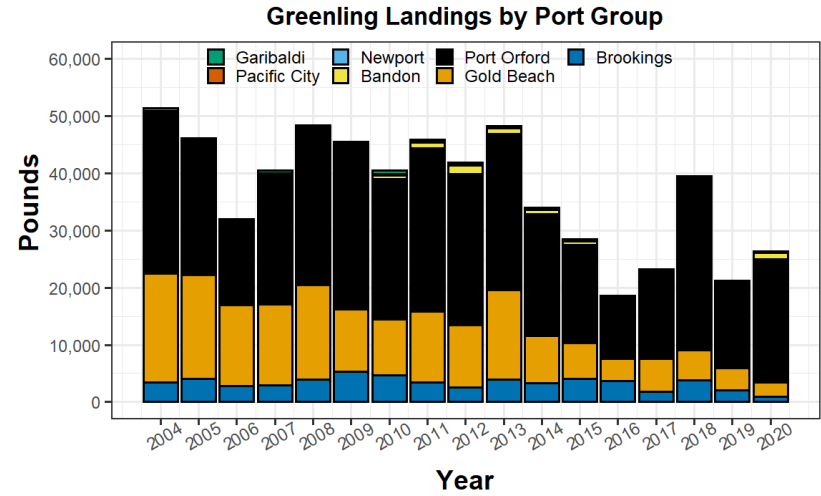


Figure 40. Greenling landings (pounds) by year and port group.

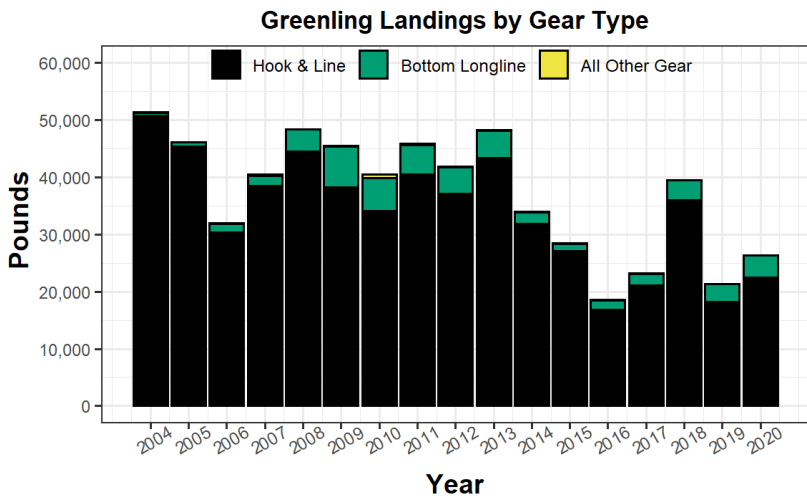


Figure 39. Greenling landings (pounds) by year and gear type.

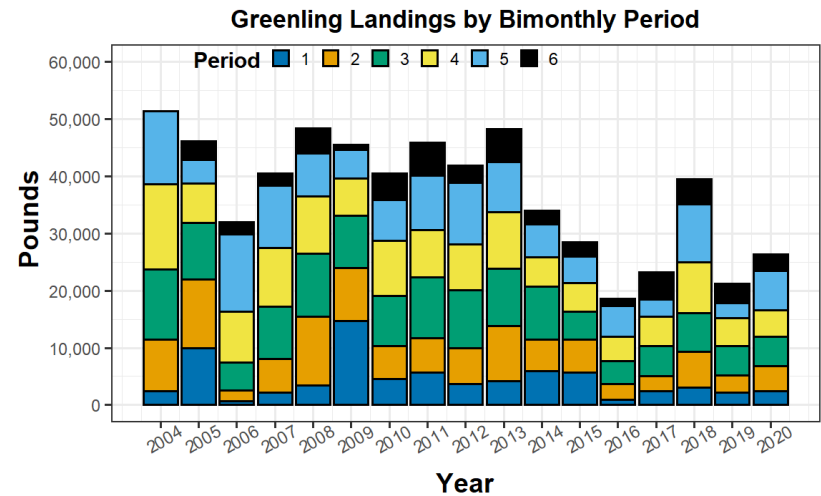


Figure 41. Greenling landings (pounds) by year and bimonthly period.

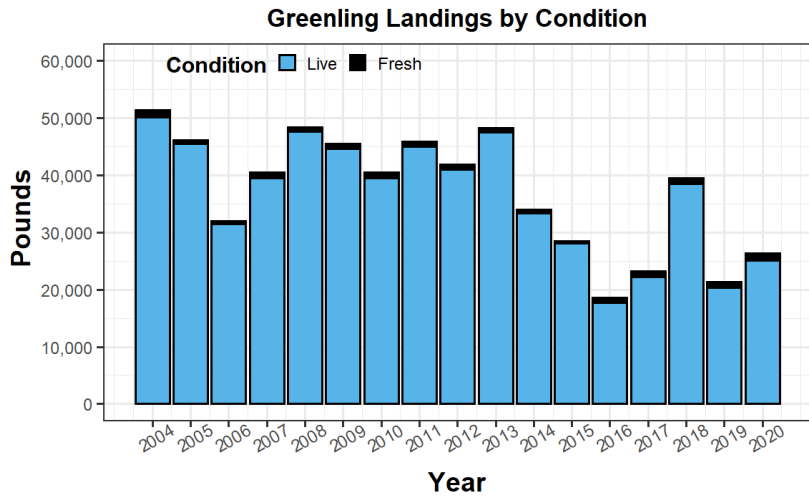


Figure 42. Greenling landings (pounds) by year and market condition.

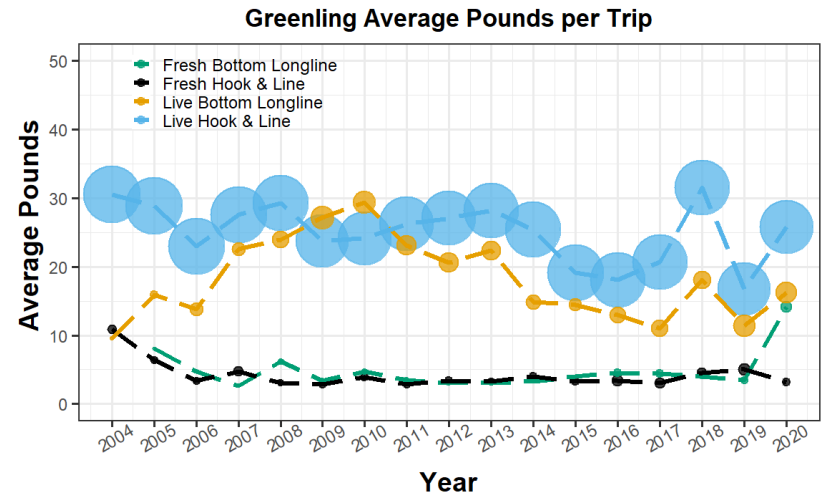


Figure 44. Average Greenling pounds landed per trip by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.

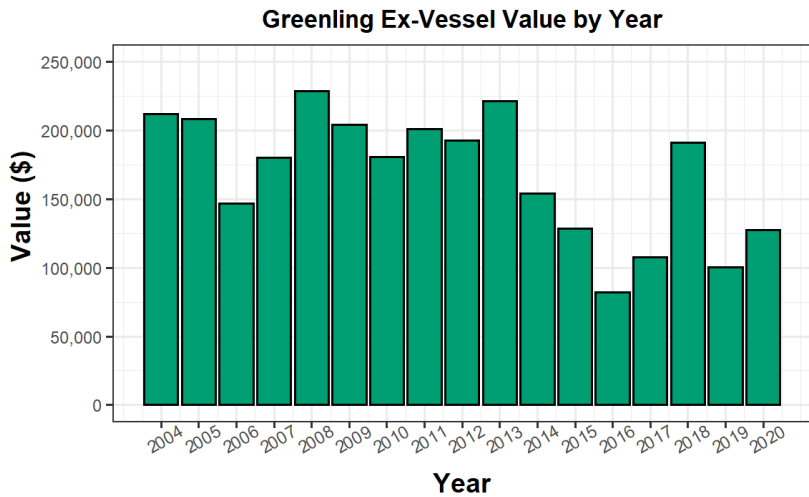


Figure 43. Greenling ex-vessel value (\$) by year.

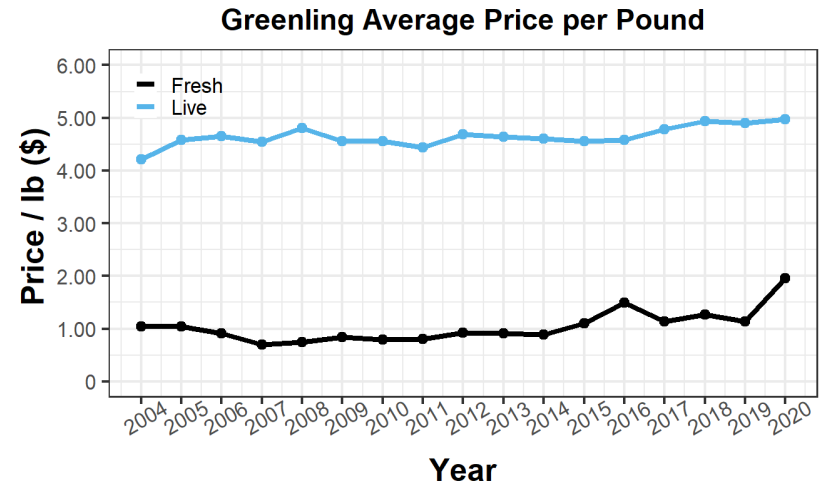


Figure 45. Greenling average ex-vessel price per pound by year and market condition

The Oregon Commercial Nearshore Fishery Data Update: 2020

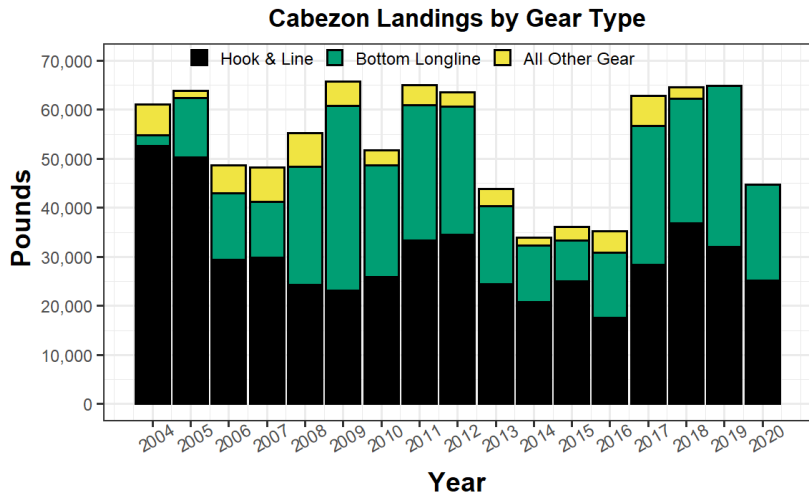


Figure 46. Cabezon landings (pounds) by year and gear type.

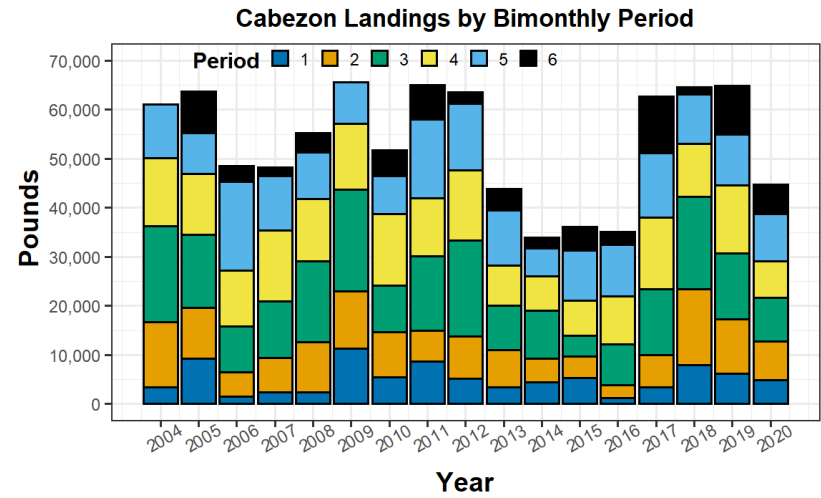


Figure 48. Cabezon landings (pounds) by year and bimonthly period.

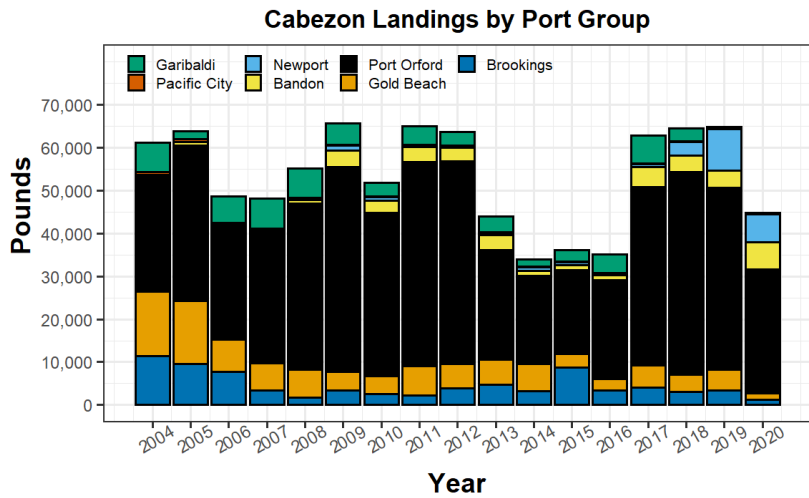


Figure 47. Cabezon landings (pounds) by year and port group.

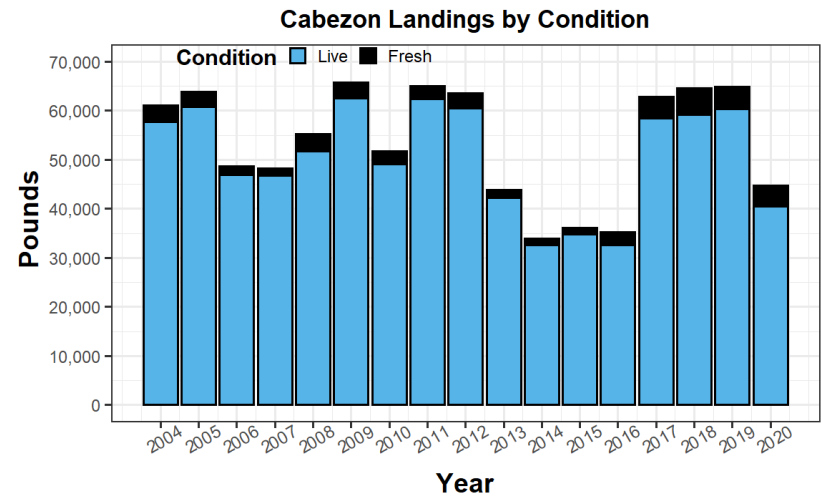


Figure 49. Cabezon landings (pounds) by year and condition.

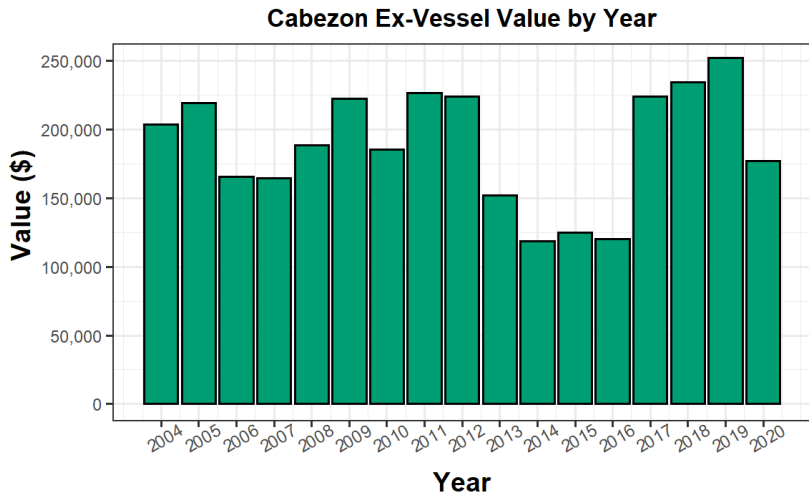


Figure 50. Cabezon ex-vessel value (\$) by year.

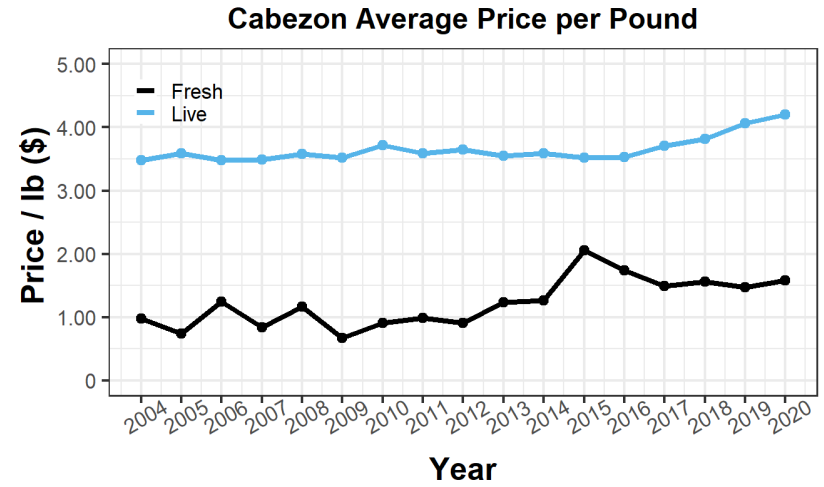


Figure 52. Cabezon average ex-vessel price per pound by year and market condition.

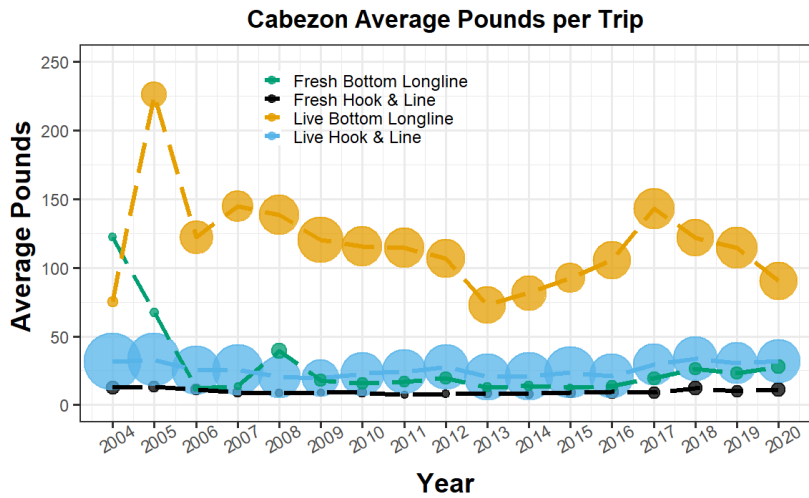


Figure 51. Average pounds landed per trip for Cabezon by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.

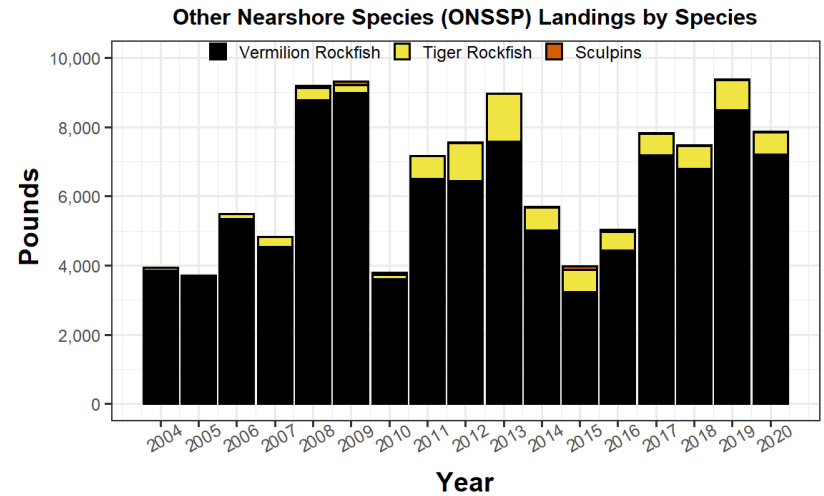


Figure 53. Other Nearshore Species landings (pounds) by year and species group.

The Oregon Commercial Nearshore Fishery Data Update: 2020

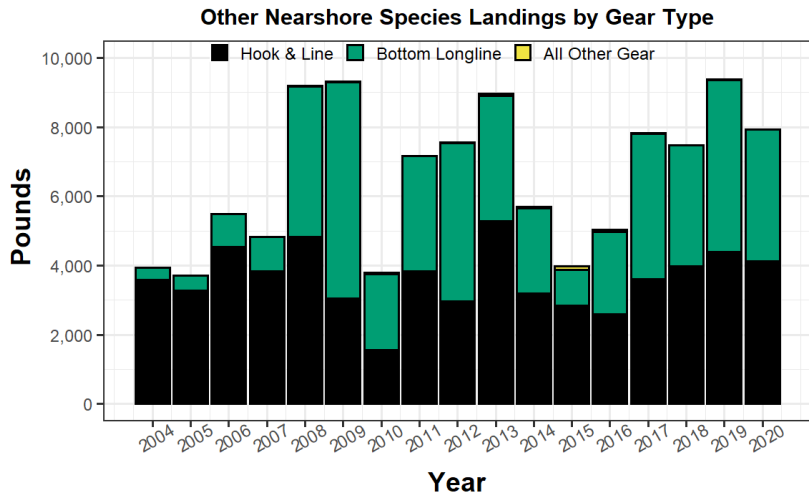


Figure 54. Other Nearshore Species landings (pounds) by year and gear type.

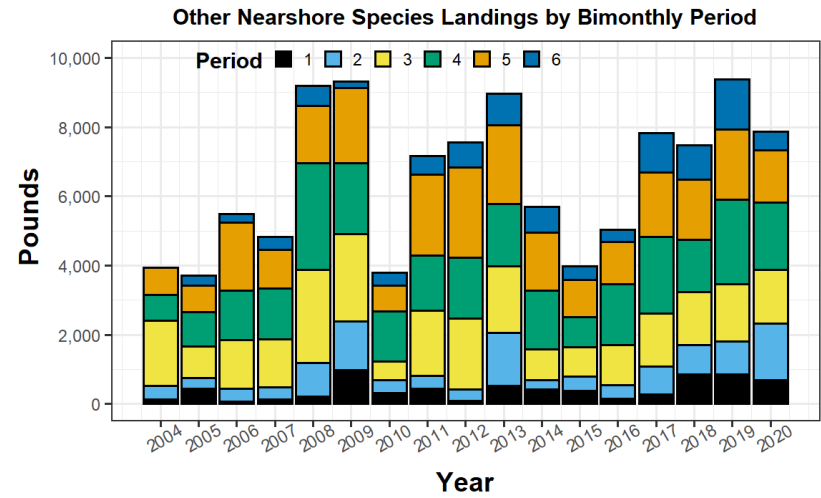


Figure 56. Other Nearshore Species landings (pounds) by year and bimonthly period.

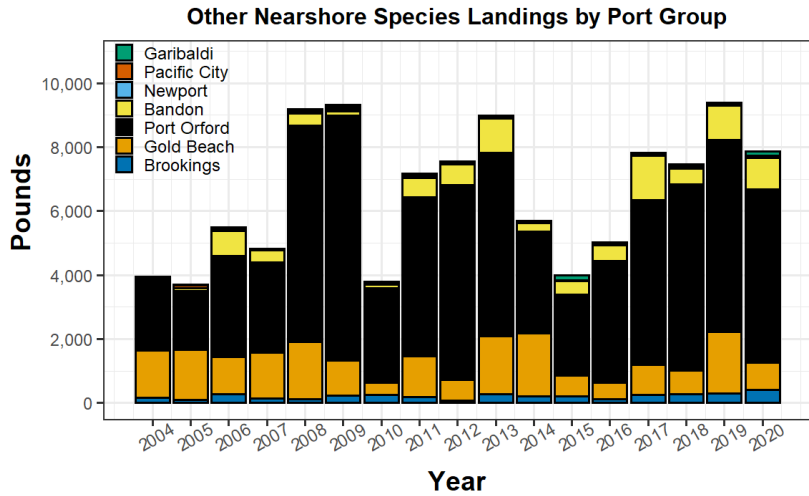


Figure 55. Other Nearshore Species landings (pounds) by port group.

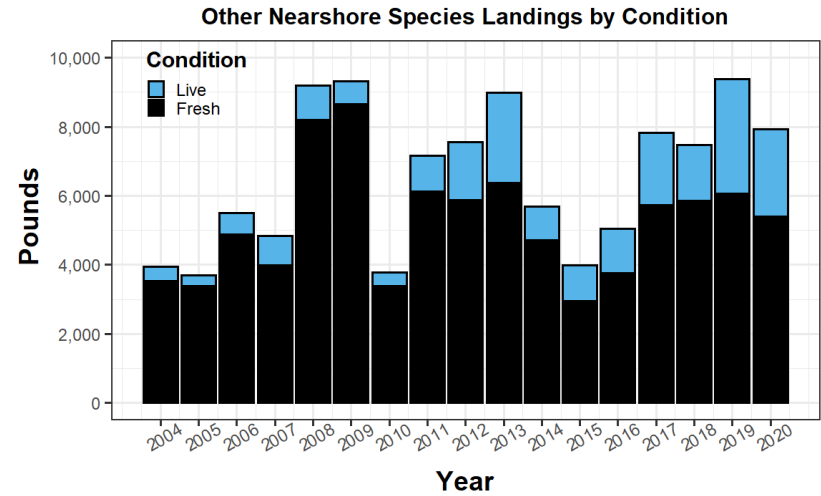


Figure 57. Other Nearshore Species landings (pounds) by year and condition.

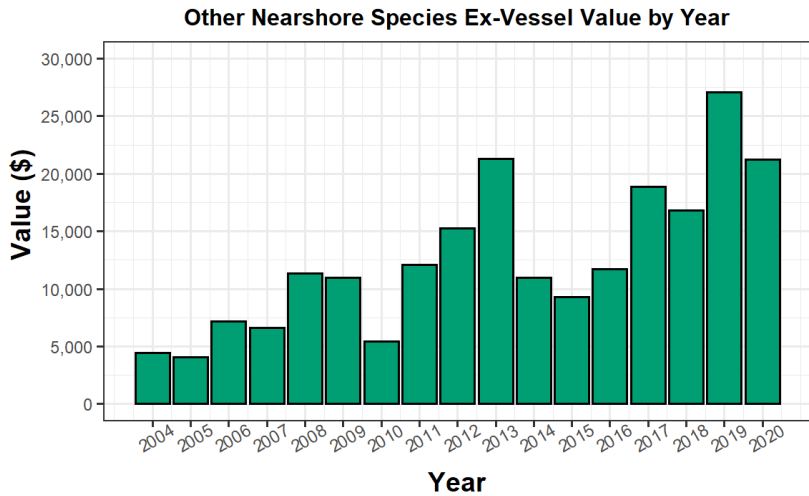


Figure 58. Ex-vessel value of Other Nearshore Species by year.

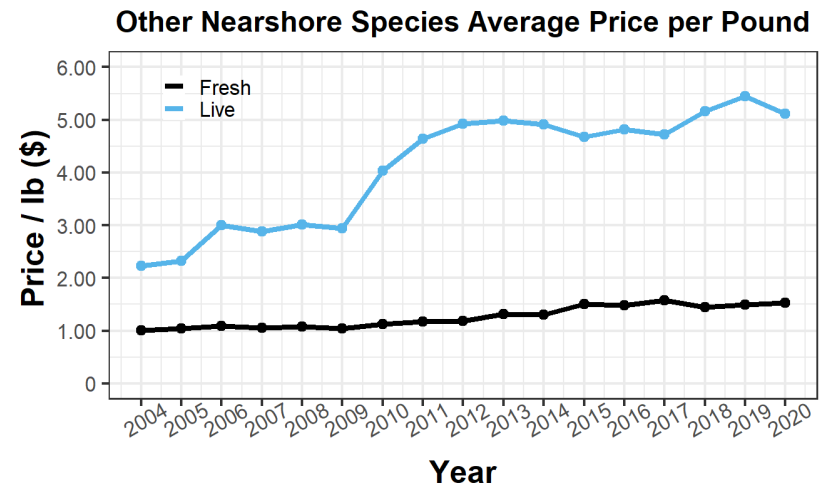


Figure 60. Other Nearshore Species average ex-vessel price per pound by year and market condition.

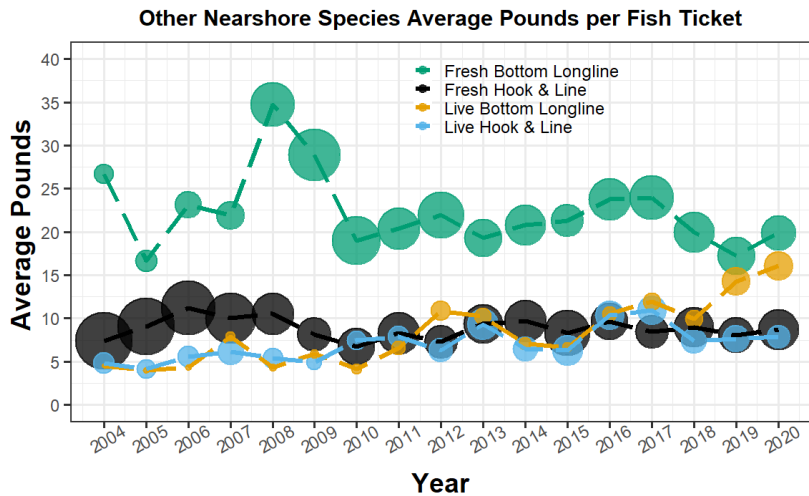


Figure 59. Average pounds landed per trip for Other Nearshore Species by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed per sector.

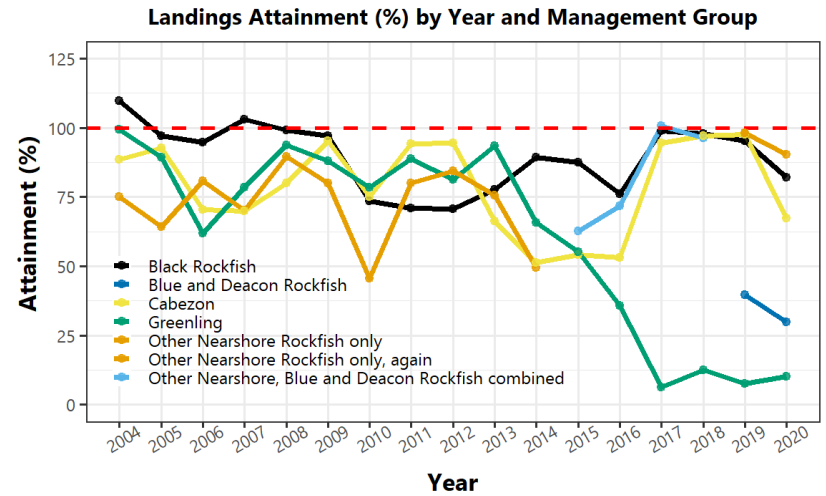


Figure 61. Percent attainment of harvest quota by species group through time. Management quotas have been landing caps and harvest guidelines. Percentages here represent total pounds landed divided by values found in Table 2 and Appendix A.

Appendices

Appendix A. Annual landing caps, harvest caps and Harvest Guidelines (HGs) for state management groups for 2004 – 2019. 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	Cabazon	Greenling	Other Nearshore Species
2004	111.9 (108.0) ¹	16.0 ²	31.3	23.4	N/A
2005	108.7 (104.8) ¹	13.5 ²	31.3	23.4	N/A
2006	106.5 (102.5) ¹	13.5 ²	31.3	23.4	N/A
2007	104.6 (100.6) ¹	12.0	31.3	23.4	N/A
2008 ³	104.6 (100.6) ¹	12.0	31.3	23.4	N/A
2009	141.9 (137.9) ^{1,4}	14.3	31.3	23.4	N/A
2010	141.9 (137.9) ^{1,4}	14.3	31.3	23.4	N/A
2011	141.9 (137.9) ^{1,4}	14.3	31.3	23.4	N/A
2012	141.9 (137.9) ^{1,4}	14.3	30.5 ⁵	23.4	N/A
2013	141.9 (137.9) ^{1,4}	14.3	30.0 ⁶	23.4	N/A
2014	141.9 (137.9) ^{1,4}	14.3	30.0 ⁶	23.4	N/A

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	Cabazon	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	Cabazon	Greenling	Other Nearshore Species
2019	123.8	18.9	12.3	30.2	128.5	N/A

The Oregon Commercial Nearshore Fishery Data Update: 2020

Appendix B. History of bimonthly period trip 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 at multiple different times throughout the year with the same effective date. A dash indicates no change. RF = Rockfish.

Table B1. 2019 bimonthly period trip 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>July 5</i>	(2,400)	-	(600)	-	-
Period 5	1,500	1,500	450	1,000	1,000
<i>Sept 1</i>	(2,400)	-	(600)	-	-
Period 6	1,200	1,500	450	1,000	1,000
<i>Nov 1</i>	(2,100)	-	(600)	-	-
<i>Dec 12</i>	-	-	-	(30/day; 1,000/period)	-

Table B2. 2018 bimonthly period trip limits (pounds).

Period	Black RF	Blue/Deacon RF	Other Nearshore RF	Cabezon	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>July 5</i>	(2,400)	(100)	(250)	(500)	-
Period 5	1,500	300	450	2,000	800
<i>Sept 1</i>	(2,100)	(100)	(250)	(500)	(1,000)
<i>Oct 5</i>	-	-	-	(15/day; 500/period)	-
Period 6	1,200	300	450	2,000	800
<i>Nov 1</i>	(2,100)	(100)	(250)	(15/day; 45/period)	(1,000)

Table B3. 2017 bimonthly period trip 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>July 5</i>	(2,400)	-	-	-	-
Period 5	1,500	300	450	2,000	600
<i>Sept 1</i>	(2,100)	-	-	-	-
Period 6	1,200	300	450	2,000	600
<i>Nov 1</i>	(1,800)	-	-	-	-

Table B4. 2016 bimonthly period trip limits (pounds).

Period	Black RF	Blue RF	Other Nearshore RF	Cabazon	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>July 5</i>	(2,400)	(50)	(350)	-	-
Period 5	1,400	30	200	2,000	600
<i>Sept 1</i>	(2,200)	(450)	-	-	-
Period 6	1,000	30	200	2,000	600
<i>Nov 1</i>	(1,800)	(450)	-	-	-

Table B5. 2015 bimonthly period trip limits (pounds). Blue and Deacon Rockfish had a separate trip limit beginning this year.

Period	Black RF	Blue RF	Other Nearshore RF	Cabazon	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>July 5</i>	(1,800)	-	-	-	(400)
Period 5	1,400	15	100	1,500	300
<i>Sept 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 B6. 2014 bimonthly period trip 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>Sept 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 B7. 2013 bimonthly period trip 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>Sept 1</i>	(2,100)	-	(2,000)	-
Period 6	1,000	700	1,500	300
<i>Nov 1</i>	(1,800)	-	(2,000)	-

Table B8. 2012 bimonthly period trip 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	-
Period 3	1,400	700	1,500	250
<i>June 1</i>	(1,800)	-	-	-
Period 4	1,400	700	1,500	250
<i>July 1</i>	(1,800)	-	-	-
Period 5	1,000	700	1,500	250
<i>Sept 1</i>	(2,100)	-	-	(400)
Period 6	800	700	1,500	250
<i>Nov 1</i>	(2,100)	-	(100)	(400)

Table B9. 2011 bimonthly period trip 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>July 5</i>	(1,600)	-	-	-
Period 5	1,000	700	1,500	250
<i>Sept 1</i>	(1,200)	-	-	-
<i>Sept 15</i>	(1,400)	-	-	-
Period 6	800	700	1,500	250
<i>Nov 1</i>	(1,000)	-	-	-
<i>Nov 11</i>	(1,200)	-	-	-

Table B10. 2010 bimonthly period trip 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>Sept 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 B11. 2009 bimonthly period trip 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>July 1</i>	-	-	-	(250)
<i>July 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 B12. 2008 bimonthly period trip limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabezon	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>July 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 B13. 2007 bimonthly period trip limits (pounds).

Period	Black & Blue RF	Other Nearshore RF	Cabezon	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>Sept 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 B14. 2006 monthly period trip 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)
Sept	300	200	1,000	100
<i>Sept 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 Vermilion and Tiger RF

Table B15. 2005 bimonthly period trip limits (pounds).

Period	Black & Blue RF	Other Nearshore RF¹	Cabezon	Greenling
Period 1	1,000	450	2,000	350
Period 2	1,000	450	2,000	350
Period 3	1,500	450	2,000	350
<i>May 1</i>	-	(325)	-	(225)
Period 4	1,500	450	2,000	350
<i>Jul 1</i>	-	(325)	-	(225)
<i>Aug 4</i>	(700)	-	-	(175)
Period 5	800	450	2,000	350
<i>Sept 1</i>	(700)	(325)	-	(225)
<i>Sept 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)

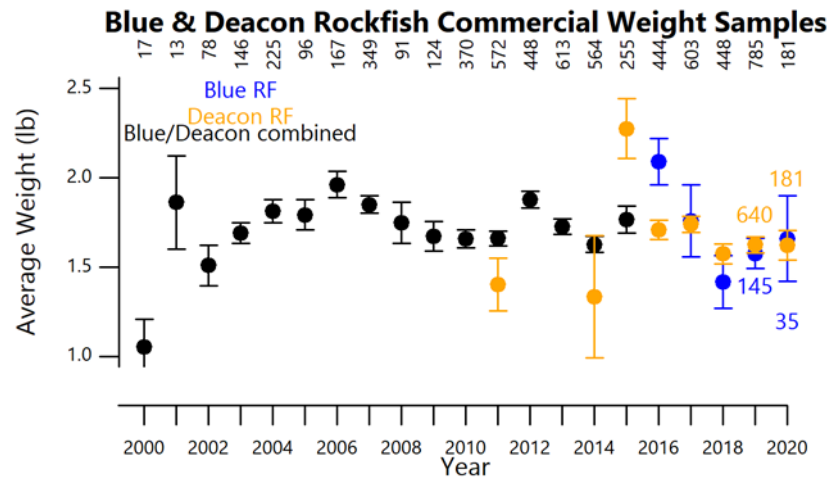
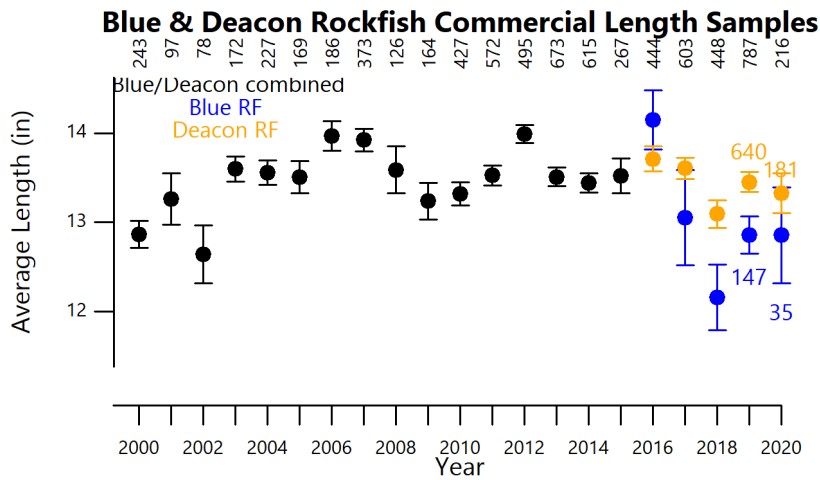
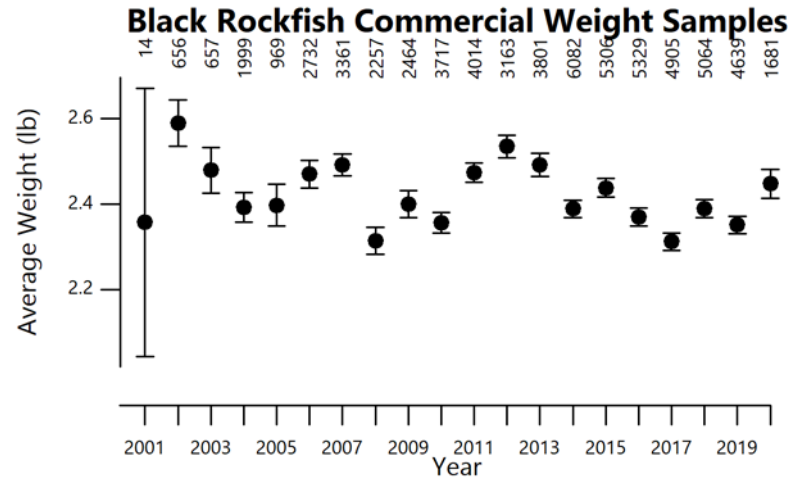
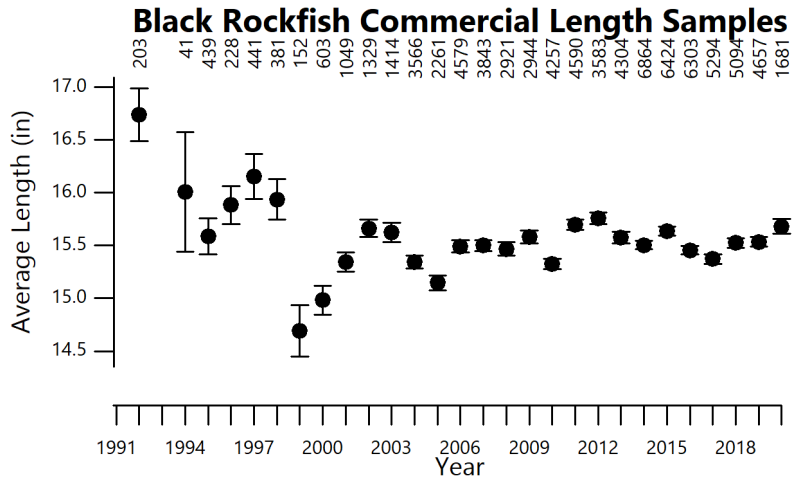
¹ - sub-limit of Black & Blue RF; included Vermilion and Tiger RF

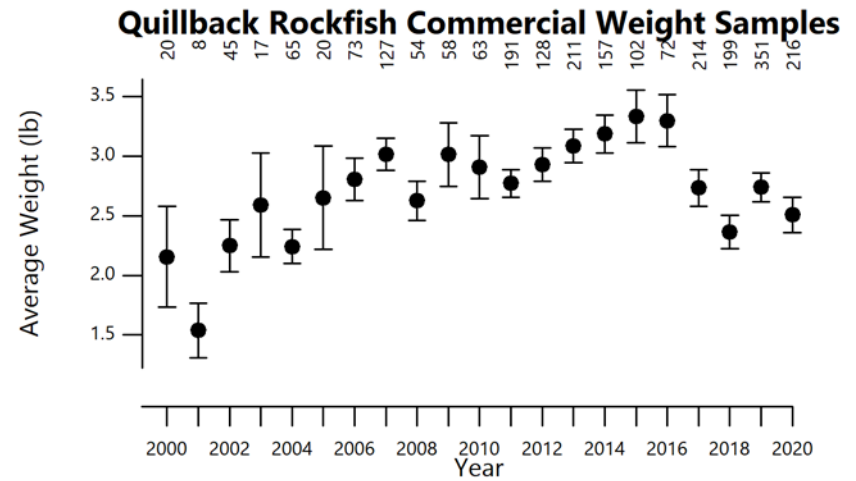
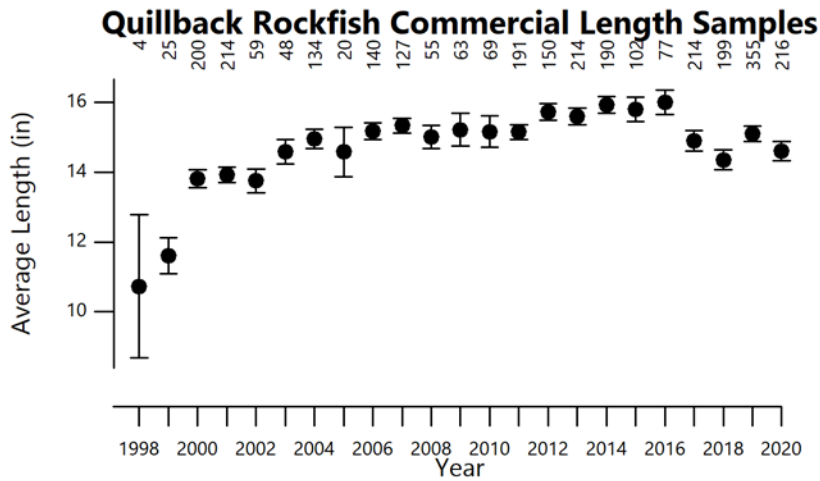
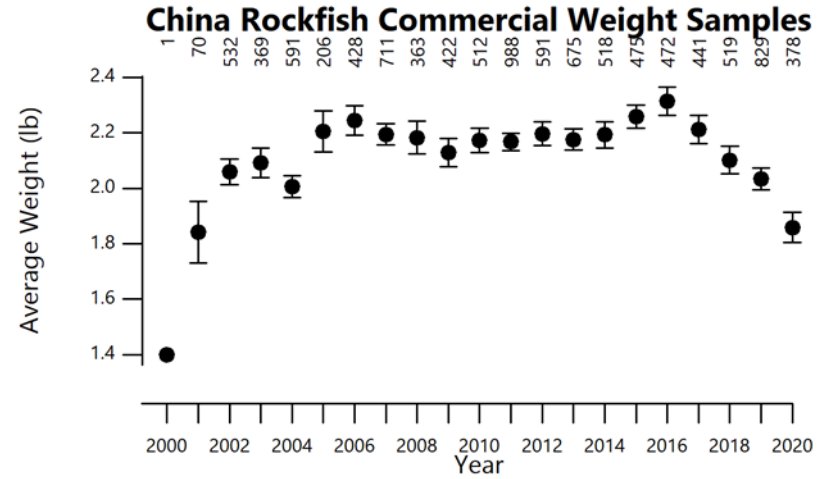
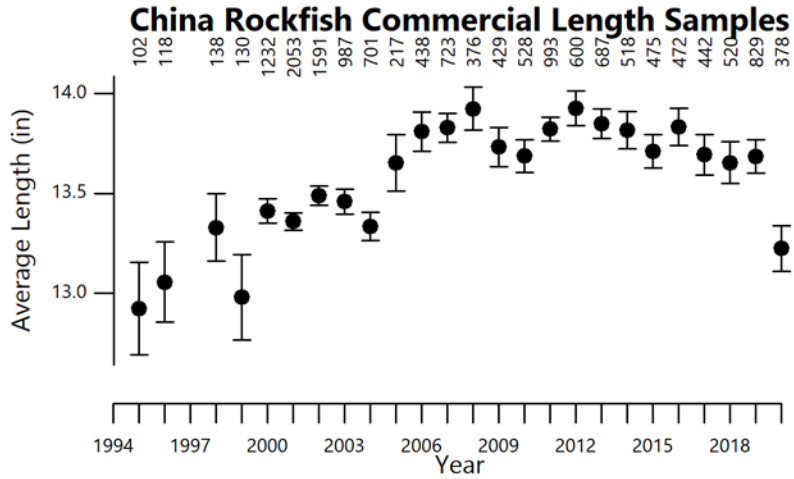
Table B16. 2004 bimonthly period trip limits (pounds).

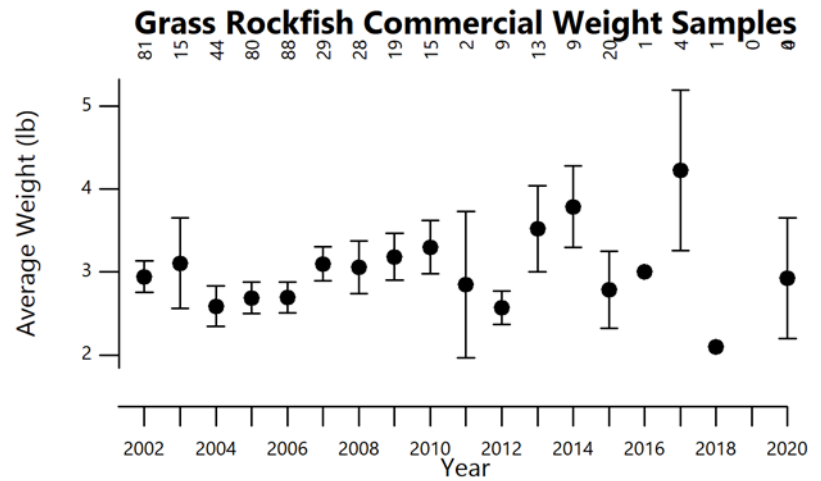
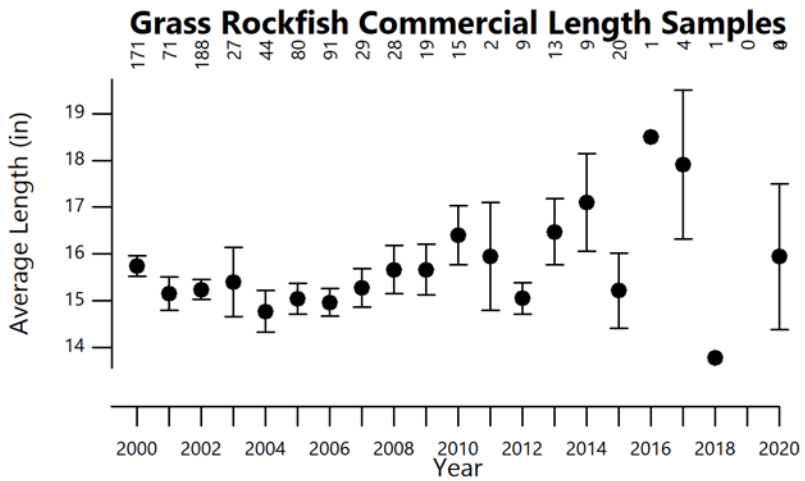
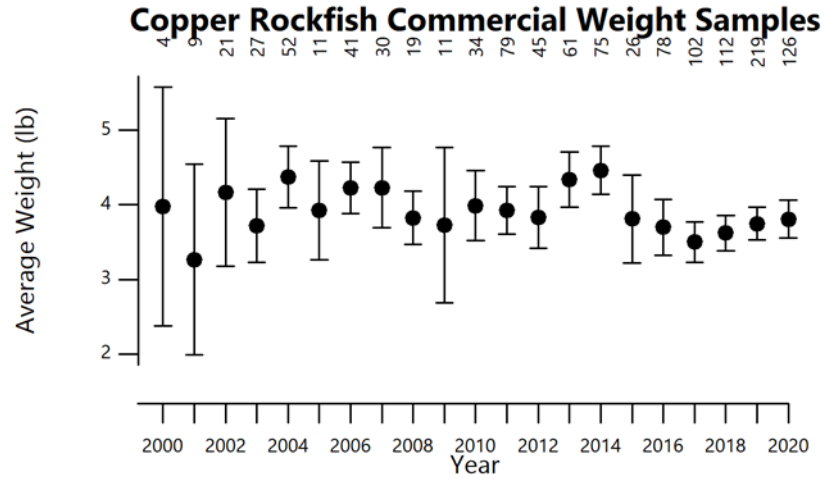
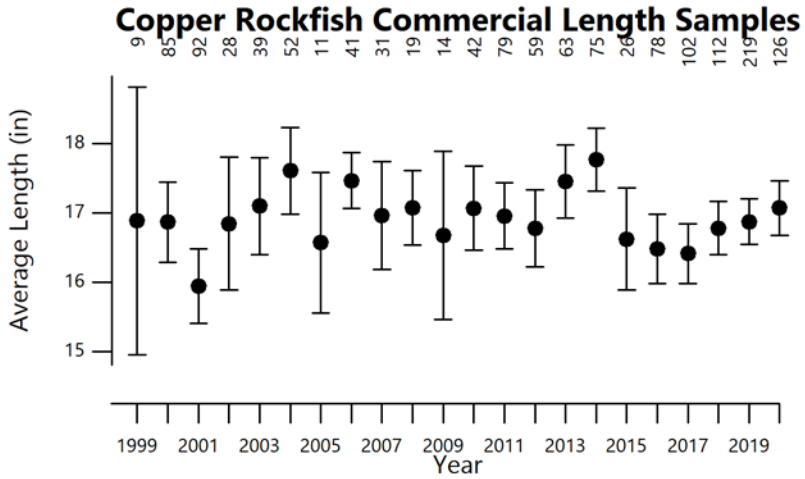
Period	Black & Blue RF	Other Nearshore RF¹	Cabezon	Greenling
Period 1	3,000	900	2,000	350
Period 2	3,000	900	2,000	350
Period 3	3,000	900	2,000	350
Period 4	3,000	900	2,000	350
<i>July 27</i>	(1,500)	-	-	(600)
Period 5	3,000	900	2,000	350
<i>Sept 1</i>	(1,500)	-	-	(600)
<i>Sept 27</i>	(Closed)	(100)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

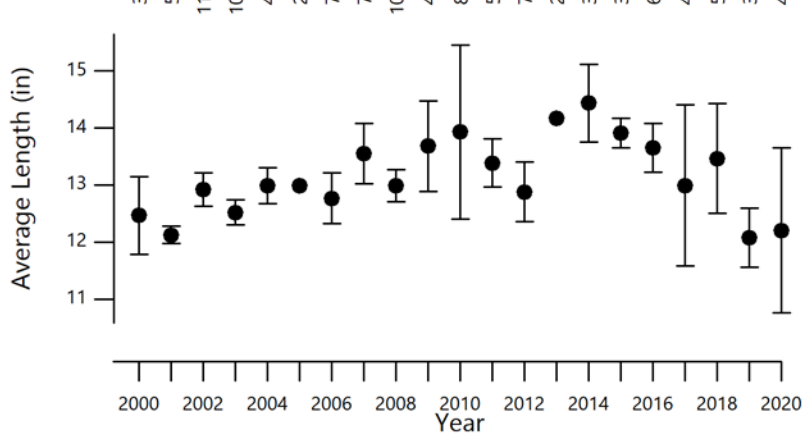
Appendix C. Nearshore species commercial length and weight sample averages by year with sample sizes (top) and 95% confidence intervals.



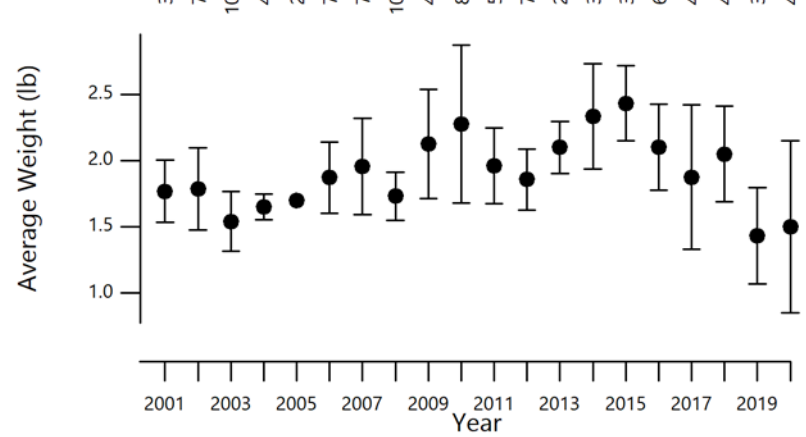




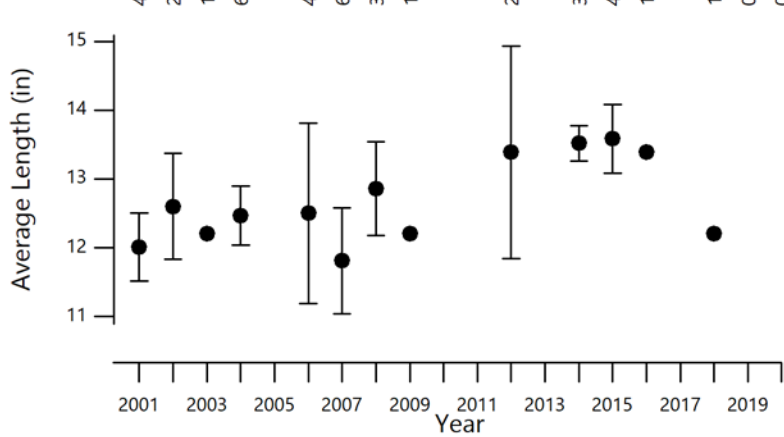
Gopher Rockfish Commercial Length Samples



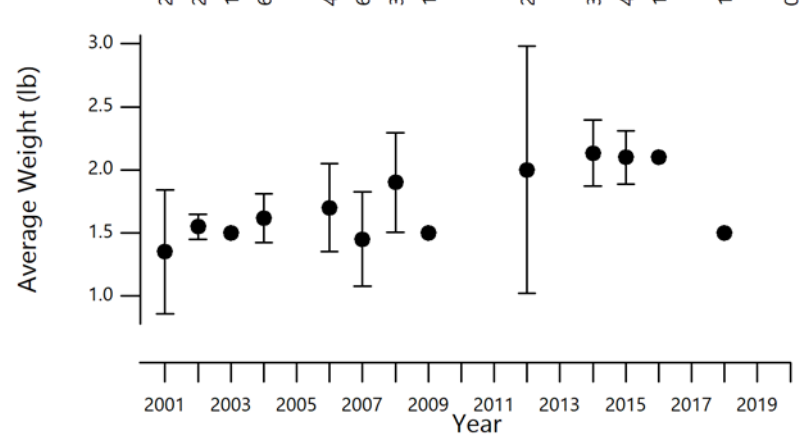
Gopher Rockfish Commercial Weight Samples

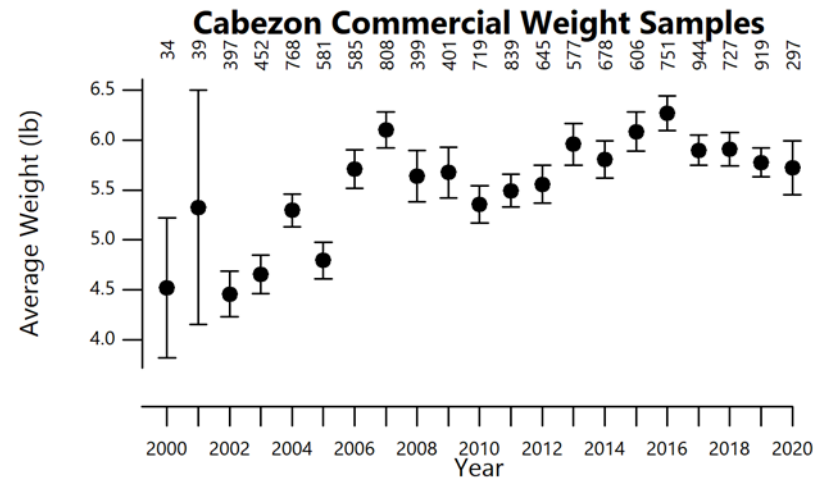
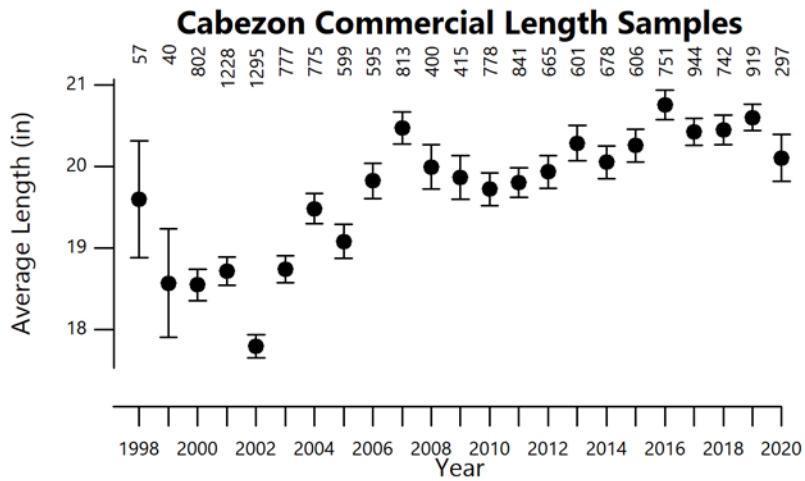
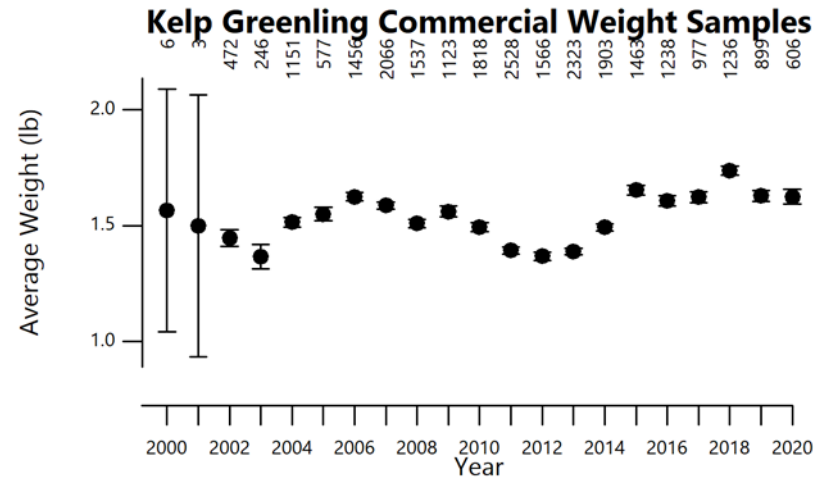
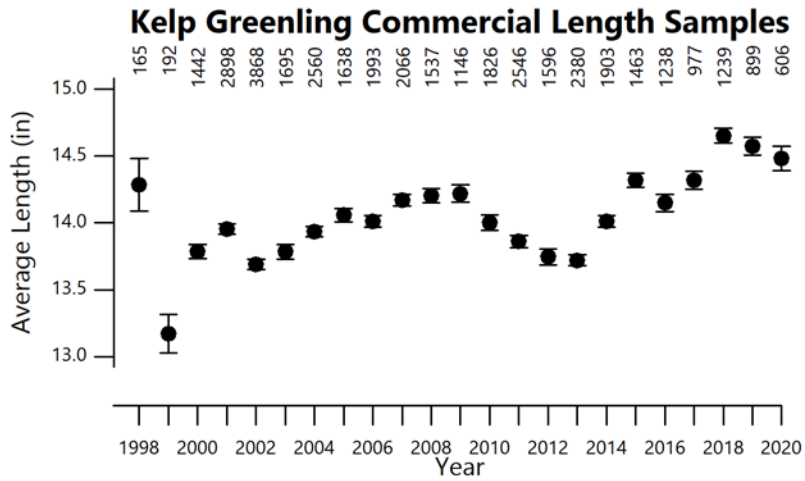


Black & Yellow Rockfish Commercial Length Samples

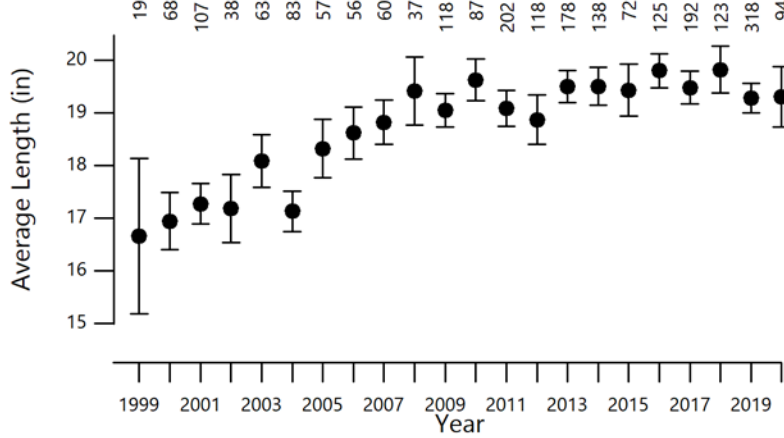


Black & Yellow Rockfish Commercial Weight Samples

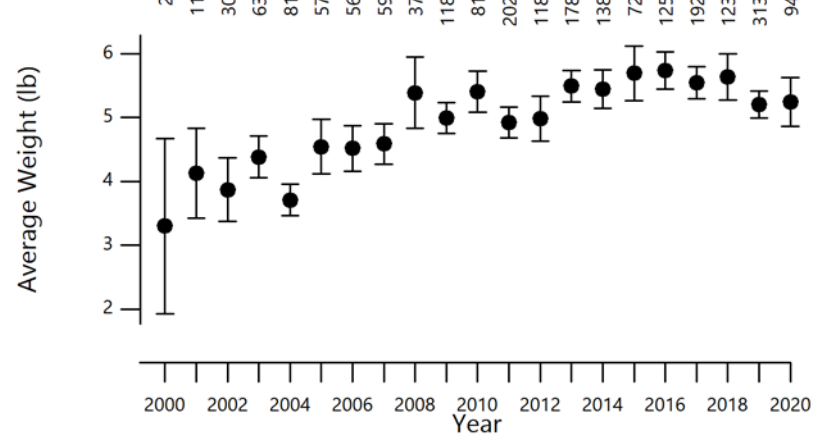




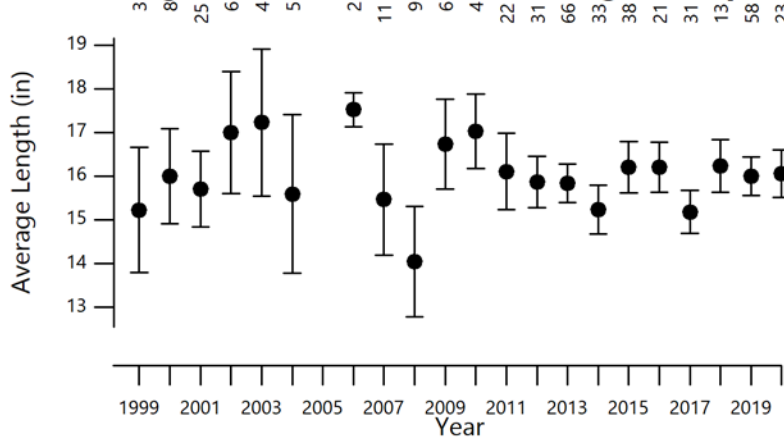
Vermilion Rockfish Commercial Length Samples



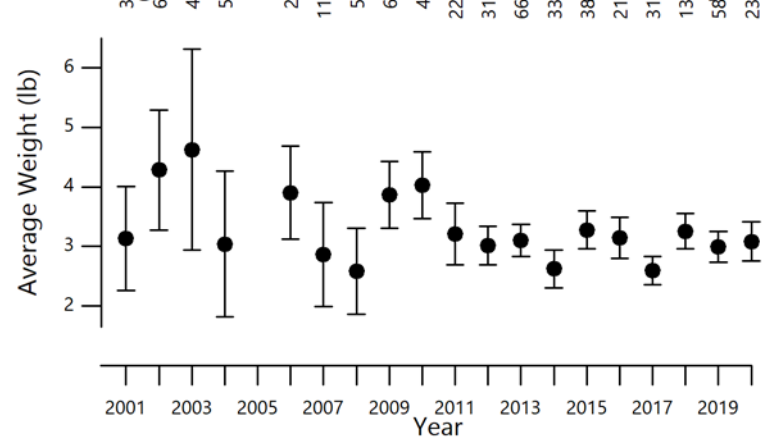
Vermilion Rockfish Commercial Weight Samples



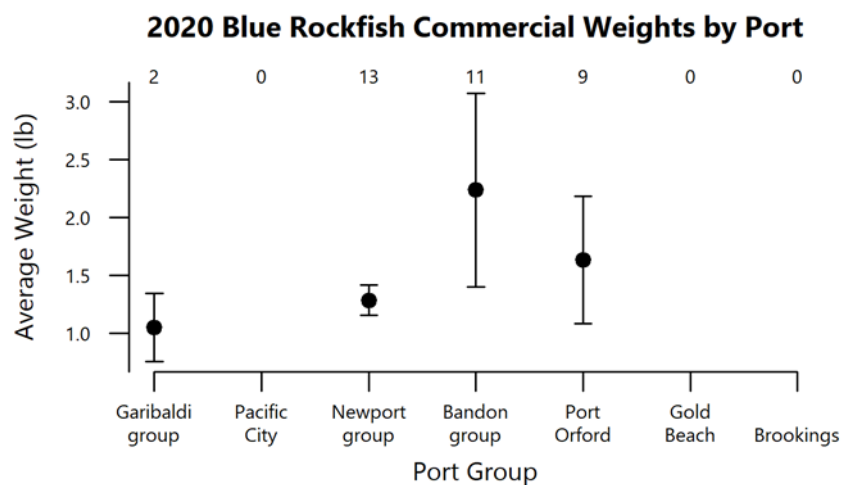
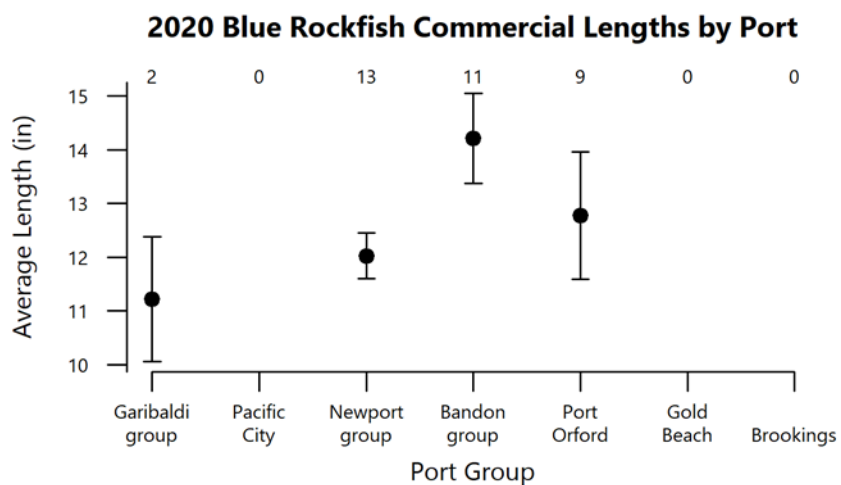
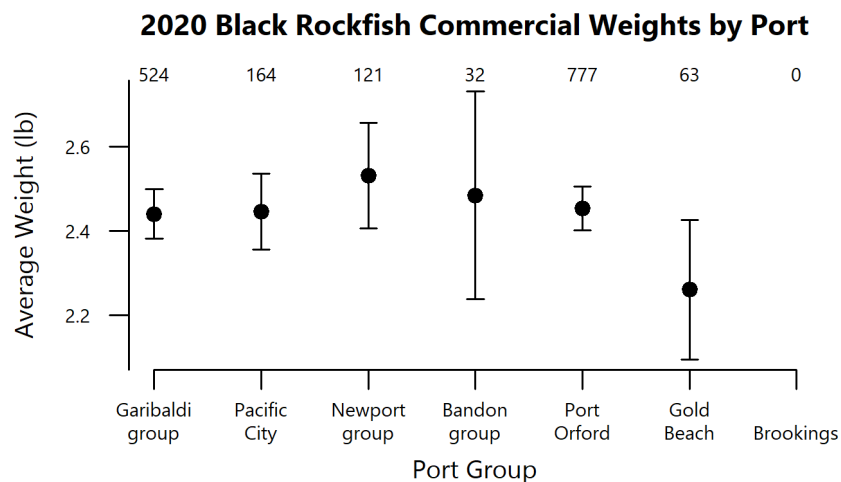
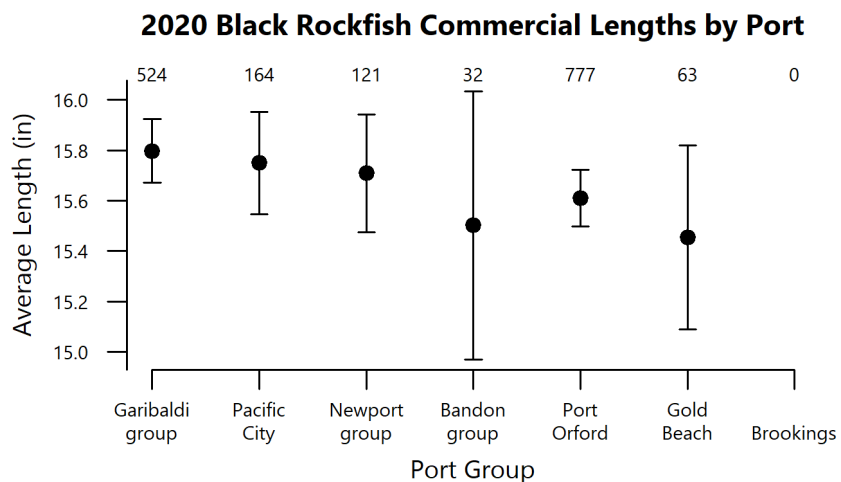
Tiger Rockfish Commercial Length Samples



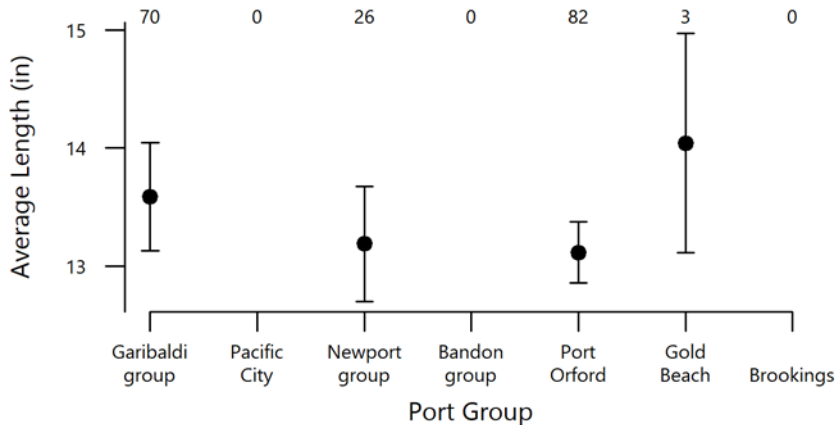
Tiger Rockfish Commercial Weight Samples



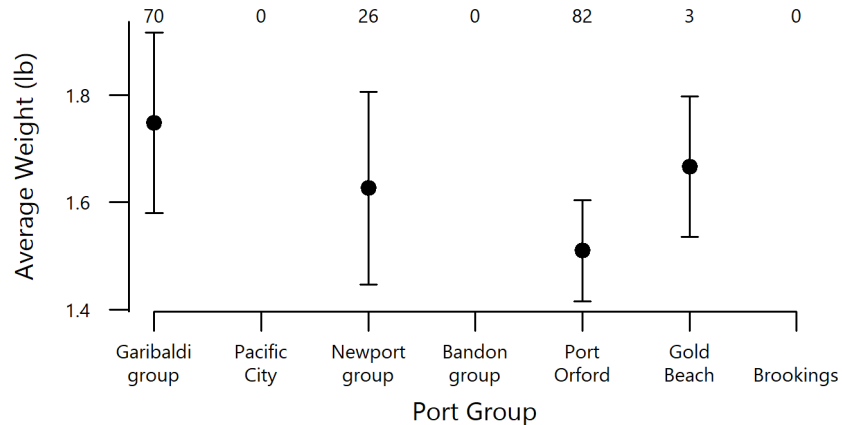
Appendix D. 2020 nearshore species commercial length and weight sample averages by port with sample sizes and 95% confidence intervals.



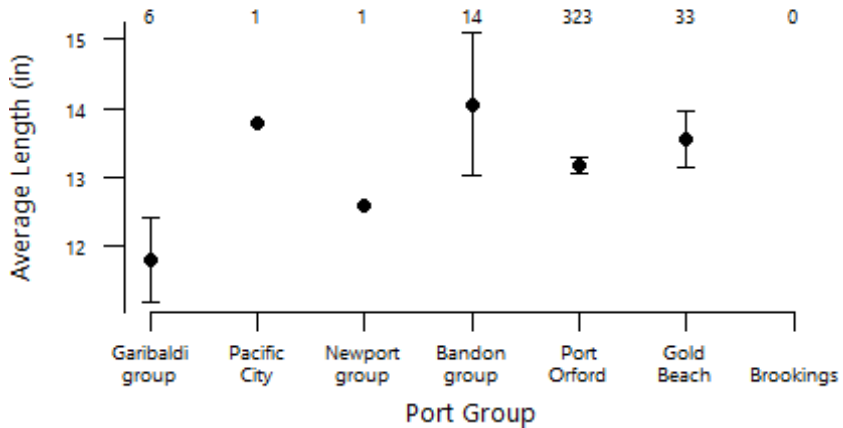
2020 Deacon Rockfish Commercial Lengths by Port



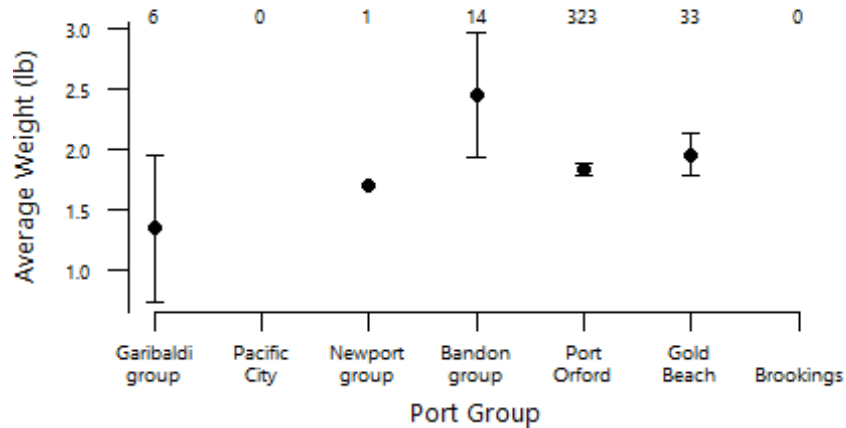
2020 Deacon Rockfish Commercial Weights by Port



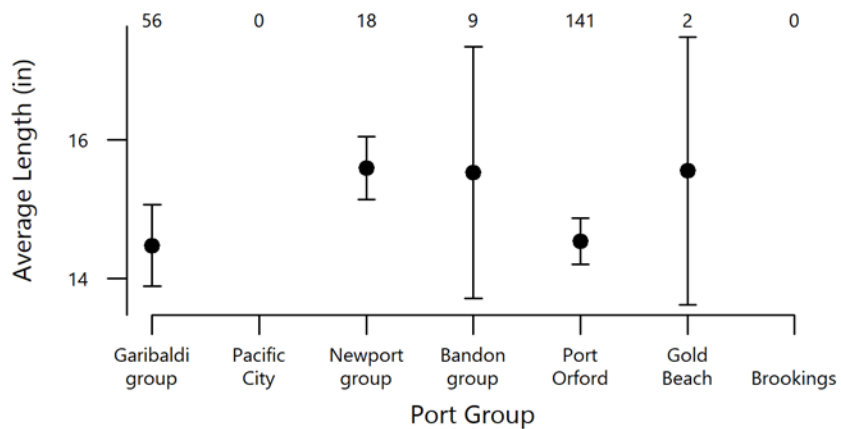
2020 China Rockfish Commercial Lengths by Port



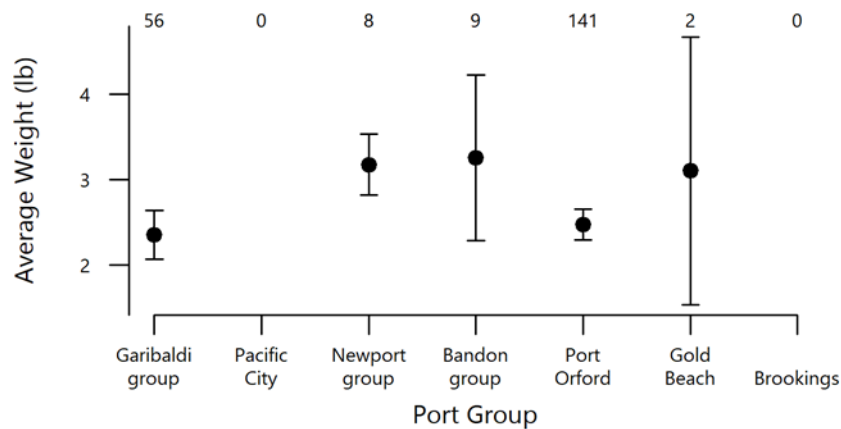
2020 China Rockfish Commercial Weights by Port



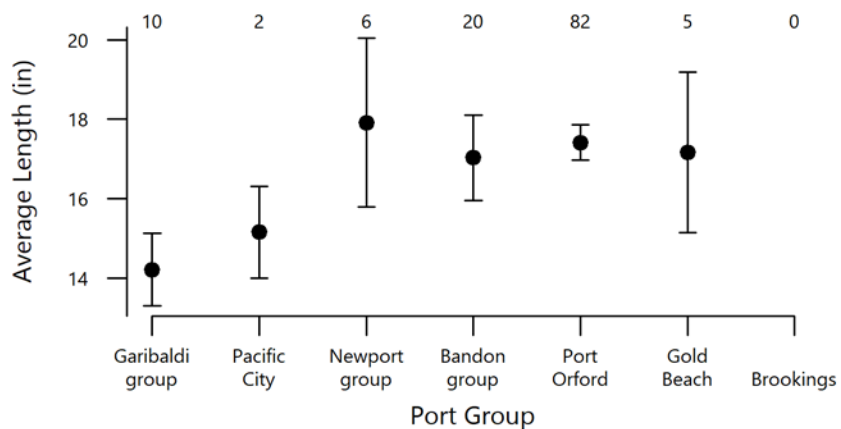
2020 Quillback Rockfish Commercial Lengths by Port



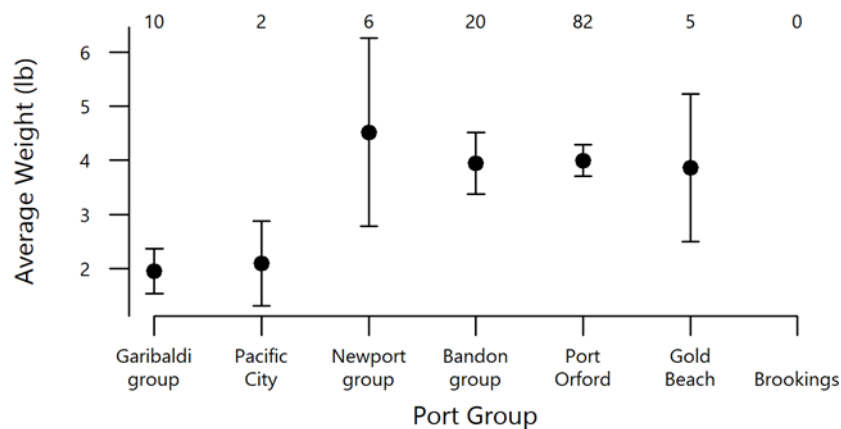
2020 Quillback Rockfish Commercial Weights by Port



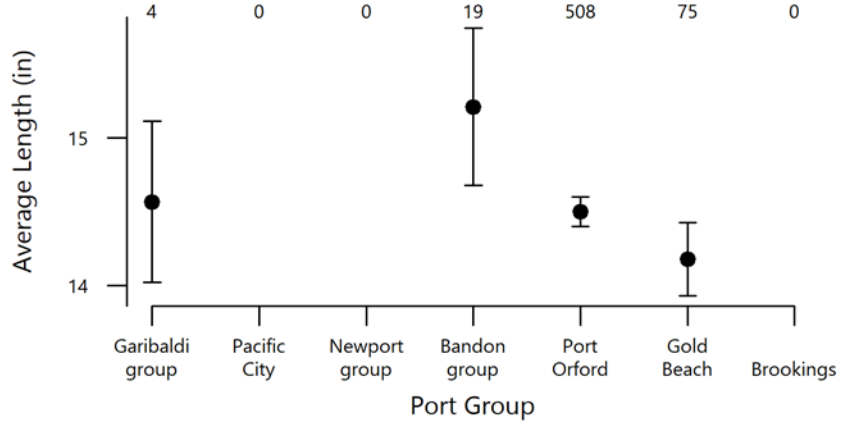
2020 Copper Rockfish Commercial Lengths by Port



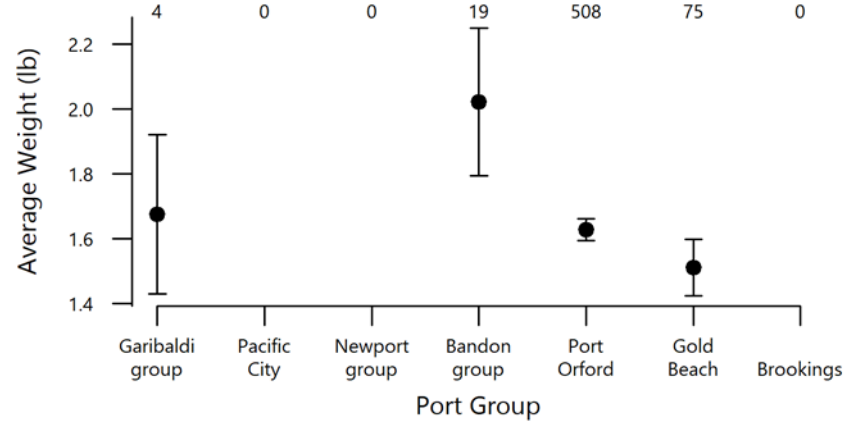
2020 Copper Rockfish Commercial Weights by Port



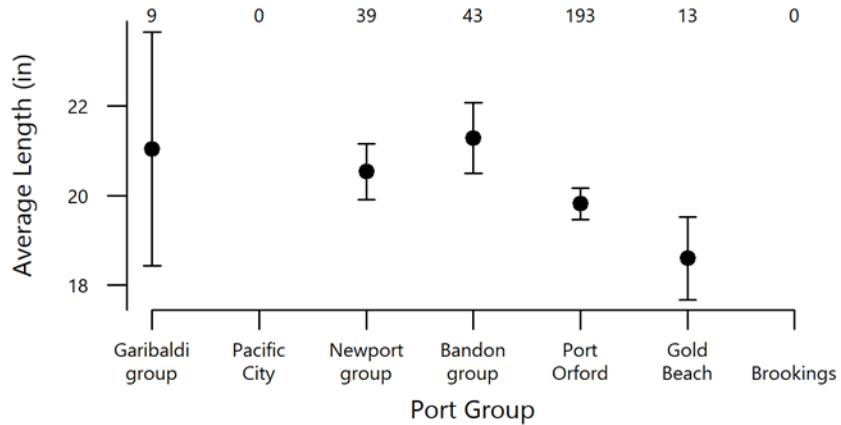
2020 Kelp Greenling Commercial Lengths by Port



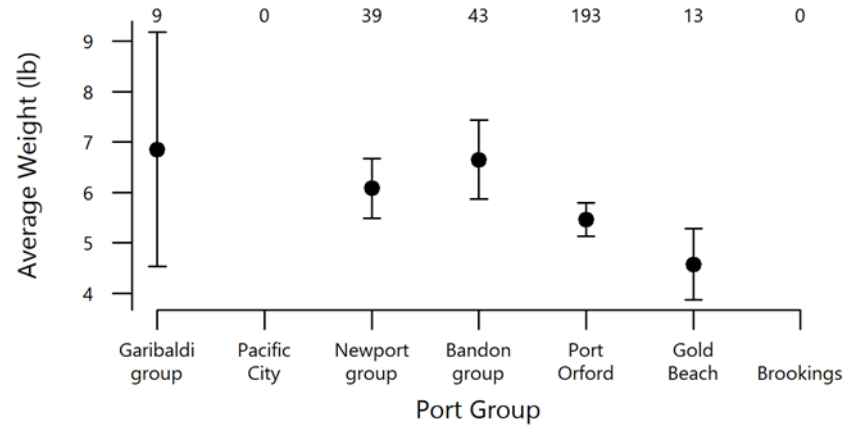
2020 Kelp Greenling Commercial Weights by Port



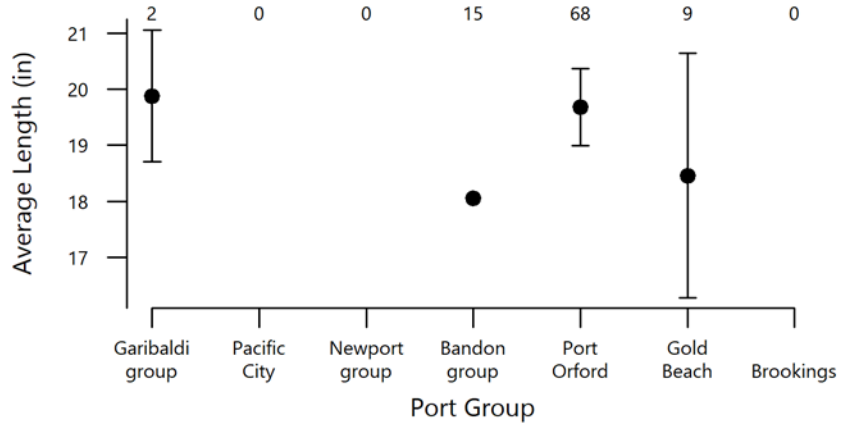
2020 Cabezon Commercial Lengths by Port



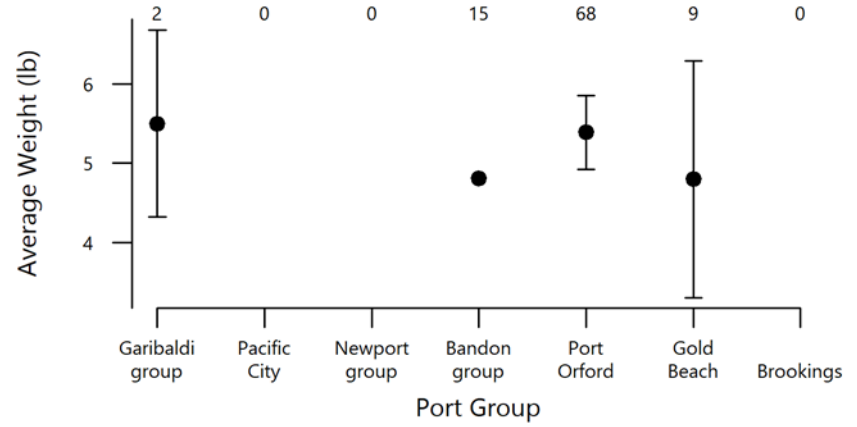
2020 Cabezon Commercial Weights by Port



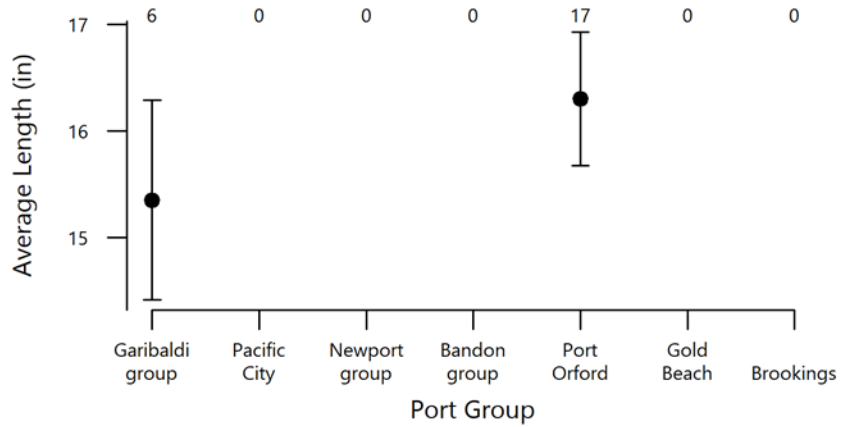
2020 Vermilion Rockfish Commercial Lengths by Port



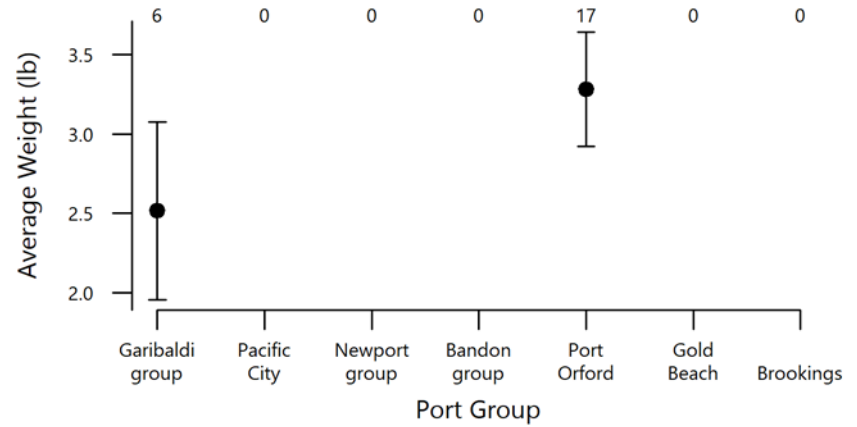
2020 Vermilion Rockfish Commercial Weights by Port



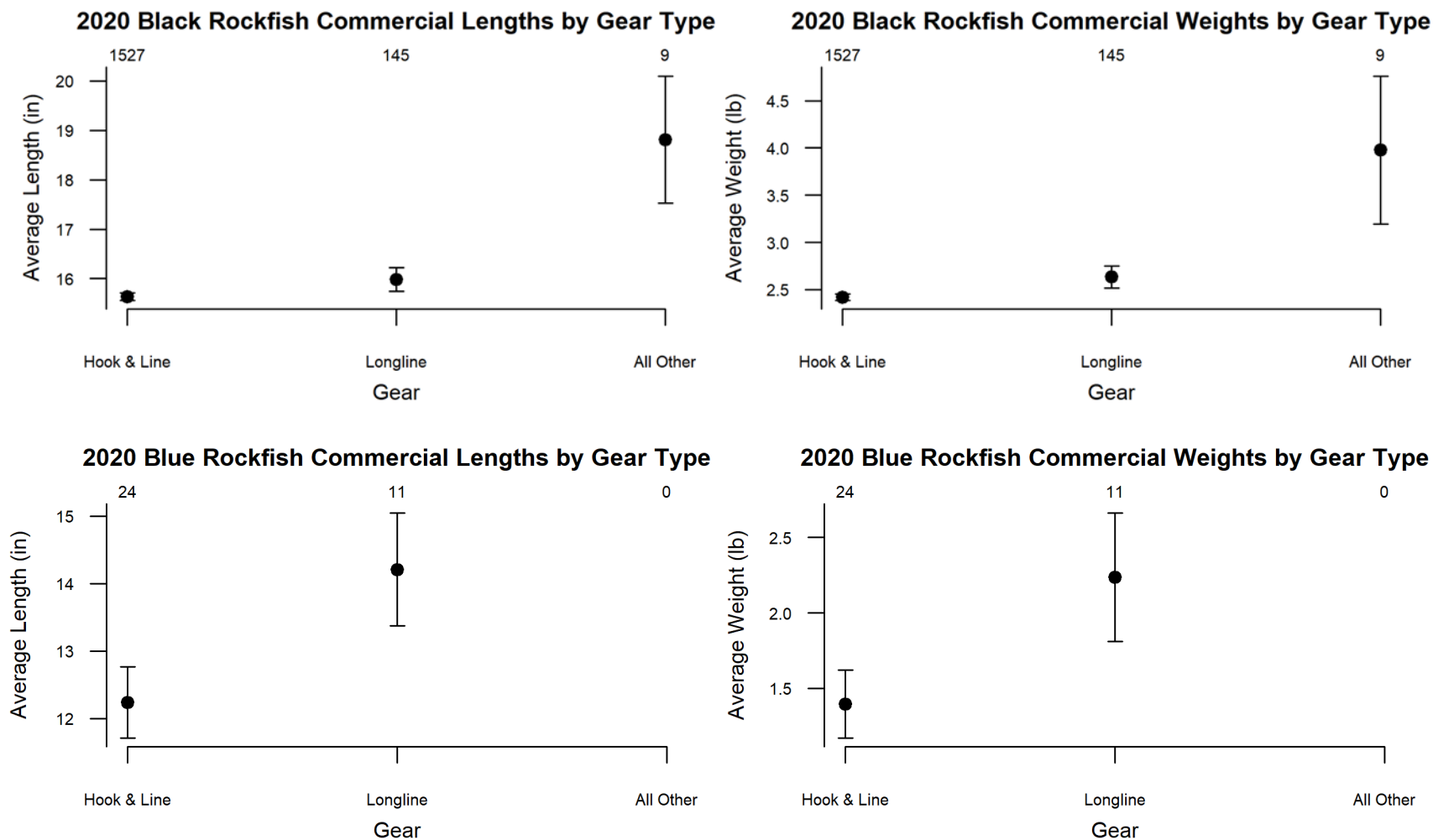
2020 Tiger Rockfish Commercial Lengths by Port

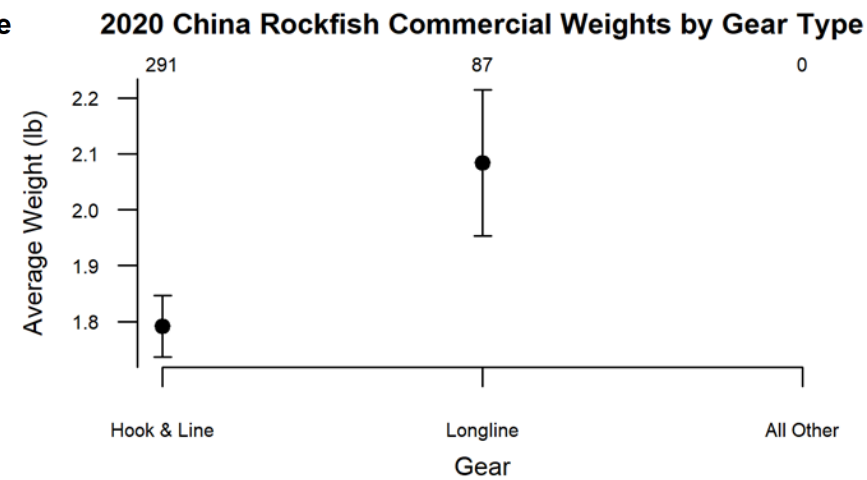
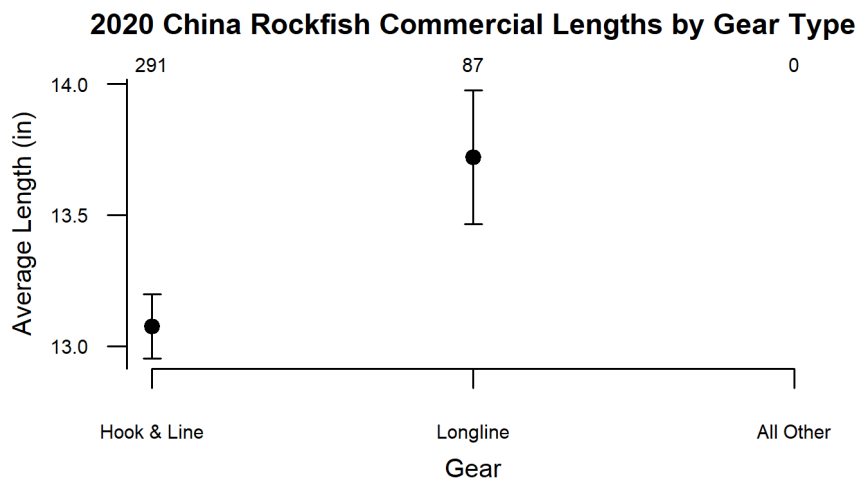
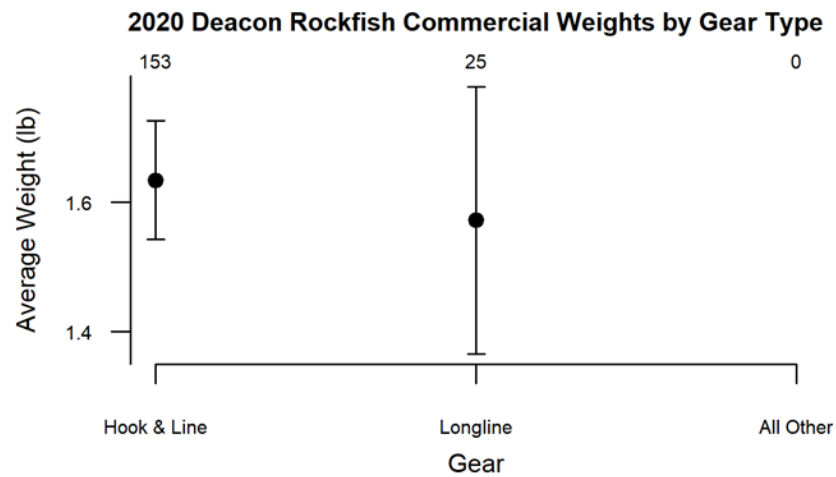
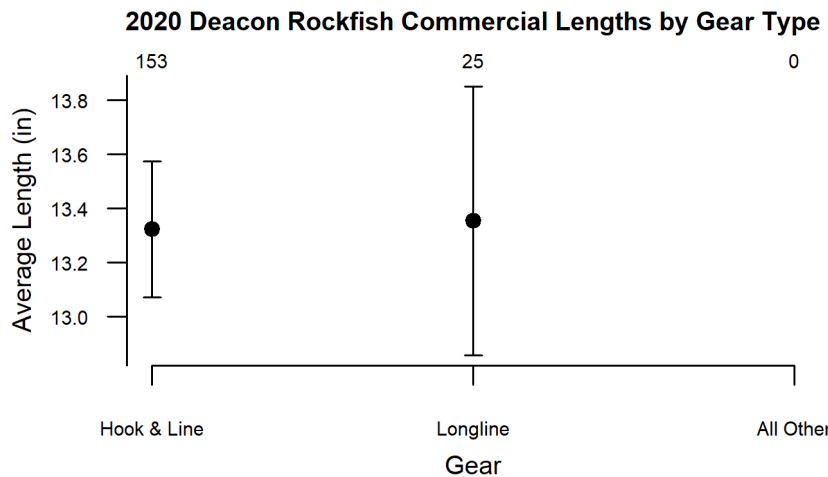


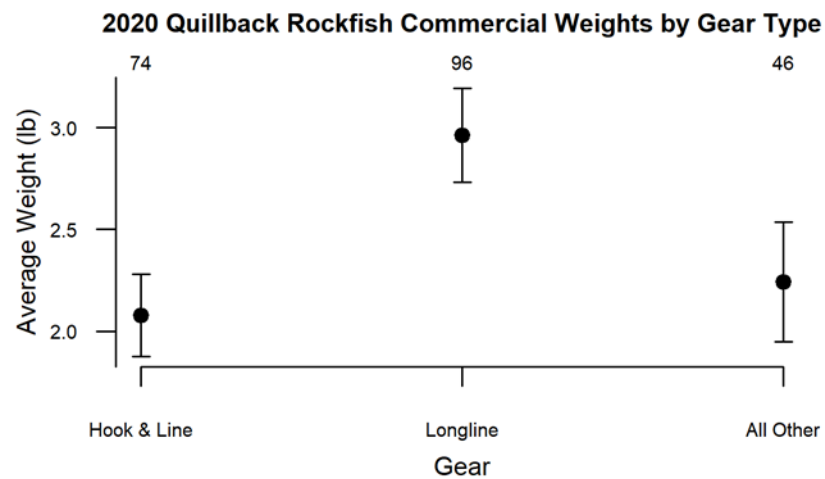
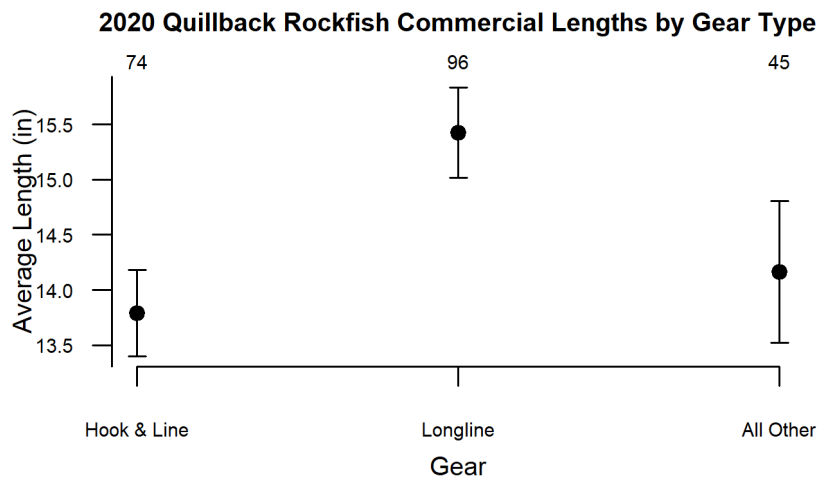
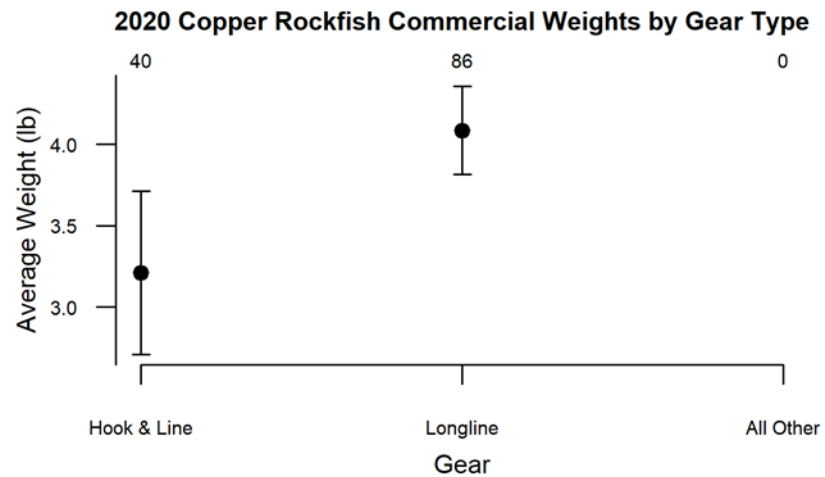
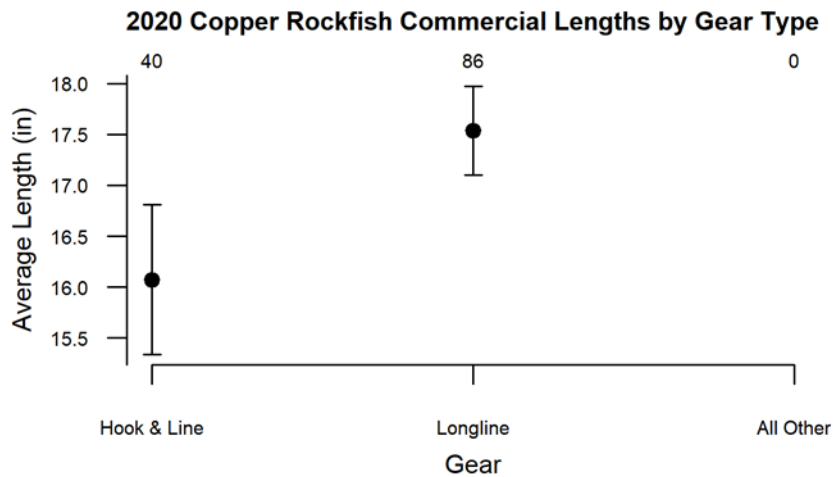
2020 Tiger Rockfish Commercial Weights by Port



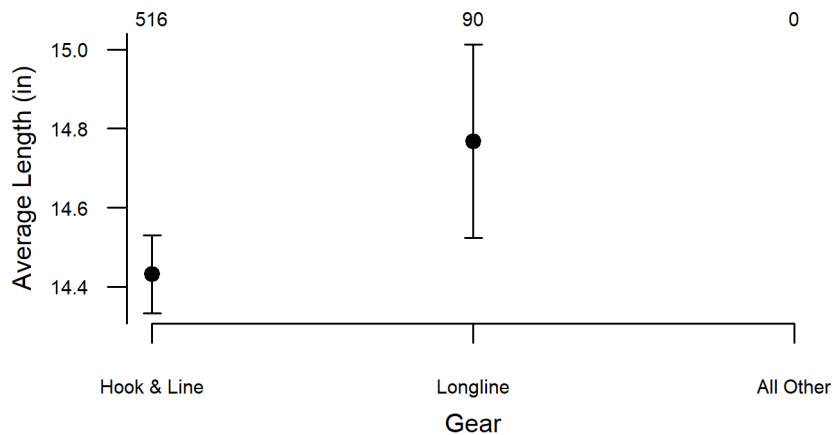
Appendix E. 2020 nearshore species commercial length and weight sample averages by gear with sample sizes (top) and 95% confidence intervals.



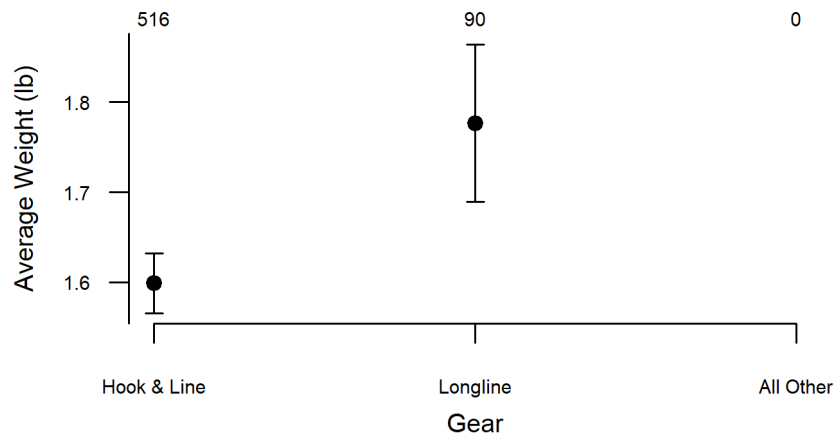




2020 Kelp Greenling Commercial Lengths by Gear Type



2020 Kelp Greenling Commercial Weights by Gear Type



2020 Cabezon Commercial Lengths by Gear Type



2020 Cabezon Commercial Weights by Gear Type

