



# 2019

## The Oregon Commercial Nearshore Fishery Data Update



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## Introduction

This document updates the 2018 Commercial Nearshore Fishery Data Update (Rodomsky *et al.* 2019) with data and management details through 2019. For more detailed narratives and summaries from previous years see “finfish reports” on the Oregon Department of Fish and Wildlife Marine Resources Program publications page<sup>1</sup>.

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 2019 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 2019 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 2019 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 2019 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 attainment of a cap results 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 2019 the state adopted individual commercial HGs for each of Black Rockfish, Greenling,

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

Cabazon, Other Nearshore Rockfish and Blue/Deacon Rockfish. Individual HGs for each of Other Nearshore and Blue/Deacon Rockfish is a change from 2018 when these species were combined under a single HG. Harvest specifications resulting from the 2017 stock assessment of Blue and Deacon Rockfish set an Oregon ACL for these species allowing the state to allocate separate Blue/Deacon and Other Nearshore Rockfish HGs in 2019.

Commercial HG amounts for 2019 are listed in Table 2 with fishery quotas from 2018 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 2019 Black Rockfish, Other Nearshore Rockfish and Greenling were set based on ACLs resulting from 2015 stock assessment information. The Black Rockfish HG dropped 0.8% from 2018 to 2019 due to fishing down stock biomass projected in the stock assessment. The first Blue and Deacon only HG was set at 18.9 mt which is 18.6% of the state ACL and reflects the historical proportion of Blue and Deacon Rockfish harvested by the commercial fishery from 2006-2014. This range of years was chosen because regulations affecting Blue and Deacon Rockfish harvest levels were mostly constant and not constraining for both sport and commercial fisheries over this time period. The 2019 HG for Other Nearshore Rockfish was 12.3 mt, a 7.7% drop from 2018 when this HG also included commercial Blue and Deacon Rockfish catch. The Greenling HG decreased 10.9% for 2019 as this stock is still being fished down to maximum sustainable yield. The Cabazon HG in 2019 remained constant as it has since 2015. The Cabazon stock assessment from which this ACL is set is stale (2009), and the stock was reassessed in 2019 generating new ACLs effective 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 2019 was sought both at the annual commercial nearshore fishery meetings held in September 2018 and at the December 2018 Commission meeting. Based on both meeting input and recommendations from the Department, the Commission adopted annual HGs, trip limits, and other fishery regulations for 2019 at the December 2018 Commission meeting. Initial trip limits for Black Rockfish 2019 were set at levels similar to 2018 following high attainment the previous year (Rodomsky *et al.* 2019). Because of the commercial specific HG for Blue and Deacon Rockfish managers were able to set a 1,500

pound per period limit for all periods in 2019. Other Nearshore Rockfish was again initially set at 450 pounds per period. The bimonthly trip limit for Greenling was adjusted upwards 25% from 2018 to start 2019 as effort and attainment have been low and fishers who do target this species requested more access. Cabezon bimonthly trip limits were adjusted down 50% or more to 1,000 pounds per period as catch-per-unit-effort for this species was high in 2018 causing early and dramatic in-season adjustments. The goal of adjusting Cabezon down in 2019 was to avoid repeating dramatic cuts in-season. These trip limits put into effect at the outset of 2019 were intended to require few or no in-season changes and to provide predictable allocations, season lengths, and market supply.

Effort, catch rates and attainment of both Black Rockfish and Other Nearshore Rockfish were low through the first three periods of 2019. Trip limits were raised 600 pound per month for Black Rockfish and 150 pounds per month for Other Nearshore Rockfish for periods 4-6 to allow more access to these species. Cabezon catch-per-unit-effort continued to run high through the year but the reduction to the bimonthly trip limit to 1,000 pounds allowed for harvest without further restriction through December 12th. On December 13th, fishery managers implemented a 30 pound per day additional restriction on Cabezon while maintaining the 1,000 pound period limit to keep harvest under the commercial HG. Overall, 95.2% of the Black Rockfish HG was landed, 39.6% of the Blue/Deacon Rockfish HG was attained, 98.4% of the Other Nearshore Rockfish HG was landed, 97.5% of the Cabezon HG and 7.5% of the Greenling HG were attained (Table 10; Figure 61). Landings attainment through time, as depicted in Figure 61, should be interpreted while considering percentages are standardized to historical, often co-occurring, changes in catch and harvest quotas.

The [2019 stock assessment for Cabezon](#) (Cope *et al.* 2019) included and was informed by the catch, biological and logbook data collected by ODFW samplers and resource managers over the years. Logbook data was used to model a catch-per-unit-effort index which contributed relative abundance information to the assessment. This index showed an upward trend in CPUE in recent years agreeing with the recent upward biomass trend in the assessment. The assessment results indicated a healthy stock. Harvest specifications set from this assessment are effective in 2021 and will allow for a slight increase in harvest for the initial years before the assessment ages.

Black Rockfish Management Areas (BRFMAs), sections of the nearshore where only 300 pounds of Black Rockfish a day may be commercially harvested by a permitted vessel, became a focus in 2019. After commercial fishers in 2018 asked the OFWC to remove these areas altogether, ODFW staff analyzed the potential impacts of removing BRFMAs. This analysis, along with public testimony was presented to the OFWC at the December 2019 commission meeting. After all information was considered, the Commission decided to loosen restrictions on BRFMAs to 500 pounds per day for winter periods 1 and 6 when recreational effort is low while retaining the 300 pounds per day for periods 2-5. The rationale given was that a small increase would allow commercial fishers to catch more per day in challenging winter months without any effect on the recreational fishery which peaks in the summer.

## **Acknowledgements**

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<https://www.dfw.state.or.us/MRP/publications/docs/2018%20Oregon%20Commercial%20Nearshore%20Fishery%20Data%20Update.pdf>



## **Tables**

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

<b>State Management Group</b>	<b>Common Name</b>	<b>Scientific Name</b>
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 stelleri</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>

**Table 2.** Harvest guidelines (metric tons) for state management groups for 2019.

<b>Black Rockfish</b>	<b>Blue &amp; Deacon Rockfish</b>	<b>Other Nearshore Rockfish</b>	<b>Cabezon</b>	<b>Greenling</b>	<b>Other Nearshore Species</b>
123.8	18.9	12.3	30.2	128.5	N/A

**Table 3.** Bimonthly period durations.

<b>Period</b>	<b>Duration</b>
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 2019. In-season trip limit changes, the realized limits, are depicted in *italics*.

<b>Management Group</b>	<b>Period(s)</b>	<b>2019 Outset Limit - pounds (<i>in-season change</i>)</b>
Black Rockfish	1	1,500
	2	1,500
	3	1,800
	4	1,800 ( <i>2,400</i> )
	5-6	1,500 ( <i>2,100</i> )
Blue & Deacon Rockfish	1-6	1,500
Other Nearshore Rockfish	1-3	450
	4-6	450 ( <i>600</i> )
Greenling	1-6	1,000
Cabezon	1-6	1,000
	Dec 13	<i>30/day; 1,000/period</i>

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**Table 5.** Summary of 2019 length samples (inches) from the Oregon commercial nearshore fishery.

<b>Species</b>	<b>Sample Size</b>	<b>Average Length (in)</b>	<b>Range</b>	<b>95% C.I. (±)</b>
Black Rockfish	4,663	15.5	10.6–21.7	0.0
Blue Rockfish	147	12.9	9.4–16.5	0.2
Cabezon	919	20.6	13.4–28.3	0.2
China Rockfish	829	13.7	11.0–17.3	0.1
Copper Rockfish	220	16.9	10.2–22.8	0.3
Deacon Rockfish	640	13.5	10.2–18.1	0.1
Gopher Rockfish	3	12.1	11.8–12.6	0.5
Kelp Greenling	899	14.6	10.2–17.3	0.1
Quillback Rockfish	355	15.1	10.2–21.3	0.2
Tiger Rockfish	58	16.0	12.2–20.1	0.4
Vermilion Rockfish	318	19.3	11.0–26.0	0.3

**Table 6.** Summary of 2019 weight samples (pounds) from the Oregon commercial nearshore fishery.

<b>Species</b>	<b>Sample Size</b>	<b>Average Weight (lbs)</b>	<b>Range</b>	<b>95% C.I. (±)</b>
Black Rockfish	4,645	2.4	0.7–6.2	0.0
Blue Rockfish	145	1.6	0.6 – 3.0	0.1
Cabezon	919	5.8	1.9–15.4	0.1
China Rockfish	829	2.0	0.9–4.0	0.0
Copper Rockfish	220	3.7	0.9–8.8	0.2
Deacon Rockfish	640	1.6	0.6–4.7	0.0
Gopher Rockfish	3	1.4	1.2–1.8	0.4
Kelp Greenling	899	1.6	0.5–2.7	0.0
Quillback Rockfish	351	2.7	0.6–7.9	0.1
Tiger Rockfish	58	3.0	1.1–6.2	0.3
Vermilion Rockfish	313	5.2	1.0–12.4	0.2

**Table 7.** 2019 logbook program compliance by port group including open access lingcod trip logs.

<b>Port</b>	<b>Trips Fished</b>	<b>Trips with no Log</b>	<b>Compliance</b>
Garibaldi group	329	27	91.8 %
Pacific City	202	3	98.5 %
Newport group	332	37	88.9 %
Bandon group	136	10	92.6 %
Port Orford	1,098	129	88.3 %
Gold Beach	339	19	94.4 %
Brookings	215	4	98.1 %
<b>Total</b>	<b>2,651</b>	<b>229</b>	<b>91.4 %</b>

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**Table 8.** Summary of commercial nearshore logbook reported retained (Ret.) and released (Rel.) fish (pounds) by species and period in 2019. 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	0	0	0	0	0	0	83	0	0	0	83
Black-and-Yellow RF	0	3	0	2	0	1	0	0	0	2	0	0	0	8
Black RF	227	18,277	572	44,350	726	48,544	723	56,501	517	49,036	450	31,440	3,215	248,148
Blackgill RF	0	0	0	2	0	4	4	0	0	0	0	0	4	6
Blue RF	274	676	376	1358	458	717	654	1,419	1,009	1,623	505	1,372	3,276	7,165
Bocaccio	0	0	0	0	0	394	0	376	0	13	0	0	0	783
Cabezon	243	7,503	292	14,099	494	15,445	444	10,304	1,011	9,290	4,012	1,277	6,496	57,918
Canary RF	32	600	30	873	26	1,089	78	1,480	32	992	28	555	226	5,589
China RF	204	902	178	870	168	2,012	259	2,715	375	2,974	343	1,737	1,527	11,210
Chinook Salmon	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Coho Salmon	1	0	0	0	0	0	62	0	25	0	5	0	93	0
Copper RF	0	175	19	311	55	776	19	755	4	524	10	273	107	2,814
Deacon RF	0	0	0	0	0	6	0	5	0	2	0	0	0	13
Giant Pacific Octopus	0	0	0	533	0	1,308	0	0	0	91	0	0	0	1,932
Gopher RF	0	3	1	5	0	11	0	20	2	20	0	8	3	67
Grass RF	0	4	8	4	0	5	0	128	0	33	0	4	8	178
Greenlings	0	2	0	0	0	0	0	0	0	0	0	3	0	5
Greenspotted RF	0	0	5	31	0	0	0	0	0	0	0	0	5	31
Jack Mackerel	0	0	0	0	2	0	0	0	0	0	0	0	2	0
Kelp Greenling	127	2,916	248	6,039	167	5,410	368	8,724	397	9,820	285	4,420	1,592	37,329
Lingcod	8,454	13,600	9,881	29,400	2,738	40,214	2,721	37,651	2,307	34,547	3,965	27,981	30,111	183,393
Longnose Skate	0	107	0	4	0	0	0	0	0	0	0	0	0	111
Mackerels	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Nominal Shelf RF	0	0	0	0	0	0	0	0	0	73	0	0	0	73
Olive RF	0	6	0	8	0	0	0	1	0	1	0	3	0	19
Pacific Halibut	0	0	0	0	50	0	0	0	40	0	0	0	90	0

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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.
Quillback RF	16	335	23	381	28	847	63	916	104	791	73	457	307	3,727
Red Irish Lord	2	3	0	0	0	0	4	0	3	0	1	0	10	3
Rock Sole	0	0	0	0	0	0	0	0	0	3	0	0	0	3
Rosy RF	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Rosy Rockfish	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Salmon	0	0	0	0	0	0	0	0	6	0	0	0	6	0
Sand Sole	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Sculpins	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Skates	0	0	0	35	10	147	0	90	0	174	0	0	10	446
Starry Flounder	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Surfperches	0	4	0	0	0	0	0	0	0	5	0	2	0	11
Tiger RF	0	40	0	10	7	125	0	78	0	107	0	100	7	460
Unknown Species	0	0	0	0	0	0	0	7	0	2	0	0	0	9
Vermilion RF	1	748	0	664	29	978	3	1,188	54	1,264	20	609	107	5,451
Widow RF	0	0	0	2	0	0	0	1	2	2	0	11	2	16
Wolf-Eel	0	8	0	43	0	39	0	48	0	130	0	14	0	282
Yelloweye RF	12	0	41	0	113	7	130	0	132	8	10	0	438	15
Yellowmouth RF	0	0	4	0	0	0	0	0	0	0	0	0	4	0
Yellowtail RF	21	31	51	148	57	580	60	435	66	324	150	231	405	1,749
<b>Period Totals</b>	9,614	45,943	11,729	99,172	5,173	118,673	5,594	122,845	6,086	111,938	9,857	70,497	48,053	569,068

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**Table 9.** Total pounds (lbs) landed, total ex-vessel value, and average prices of live and fresh fish by species in 2019.

<b>Species</b>	<b>Live lbs</b>	<b>Fresh lbs</b>	<b>Live Value \$</b>	<b>Dead Value \$</b>	<b>Avg Live Price \$</b>	<b>Avg Dead Price \$</b>
Black Rockfish	141,444	118,449	351,930.40	203,850.97	2.49	1.72
Blue & Deacon Rockfish	3,218	13,302	10,265.45	16,355.70	3.19	1.23
Cabezon	60,301	4,641	245,078.55	6,800.05	4.06	1.47
Greenling	20,270	999	99,335.70	1,132.30	4.90	1.13
Black & Yellow Rockfish	3	NA	17.75	NA	5.92	NA
Brown Rockfish	53	250	174.50	421.25	3.29	1.68
China Rockfish	12,300	2,787	85,674.50	4,157.08	6.97	1.49
Copper Rockfish	3,181	1,658	15,488.75	3,014.43	4.87	1.82
Gopher Rockfish	168	16	876.75	30.00	5.22	1.88
Grass Rockfish	75	27	526.50	47.13	7.02	1.75
Kelp Rockfish	NA	2	NA	4.50	NA	2.25
Olive Rockfish	NA	6	NA	16.00	NA	2.67
Quillback Rockfish	4,369	1,859	22,506.25	2,900.80	5.15	1.56
Brown Irish Lord	2	NA	6.00	NA	3.00	NA
Buffalo Sculpin	NA	17	NA	0.00	NA	0.00
Red Irish Lord	NA	8	NA	18.00	NA	2.25
Tiger Rockfish	553	303	3,205.75	479.50	5.80	1.58
Vermilion Rockfish	2,765	5,733	14,859.00	8,521.96	5.37	1.49
<b>Total</b>	<b>248,702</b>	<b>150,057</b>	<b>849,945.80</b>	<b>247,749.70</b>	<b>3.42</b>	<b>1.65</b>

The Oregon Commercial Nearshore Fishery Data Update: 2019

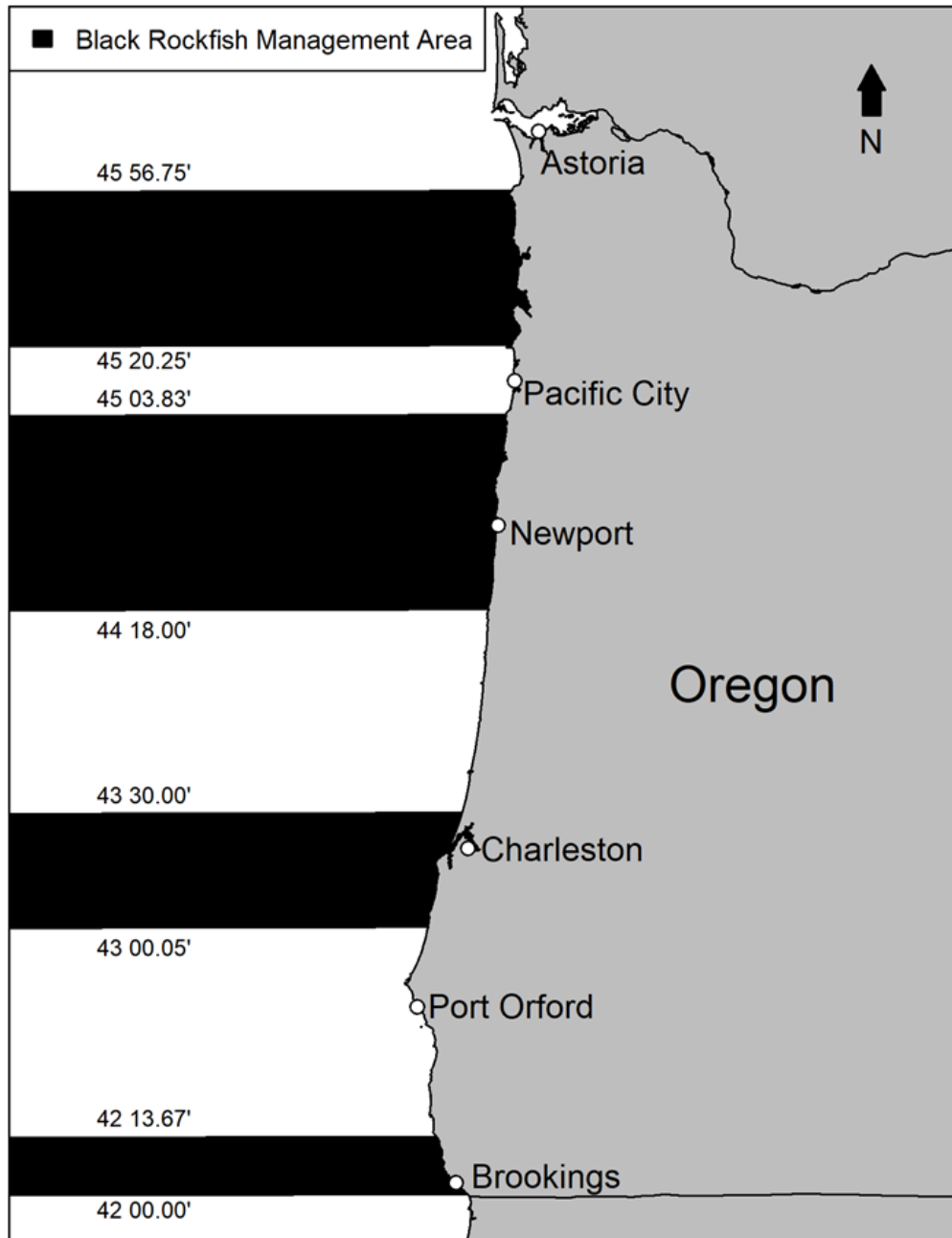
**Table 10.** Number of trips landing nearshore species and pounds landed for state management groups by bimonthly period with 2019 attainment.

<b>Period</b>	<b>Trip Count</b>	<b>Black Rockfish</b>	<b>Blue &amp; Deacon Rockfish</b>	<b>Other Nearshore Rockfish</b>	<b>Greenling</b>	<b>Cabezon</b>	<b>Other Nearshore Species</b>
1	227	14,143	1,304	1,872	2,184	6,158	851
2	349	27,137	1,712	2,351	3,032	11,143	961
3	516	59,918	1,202	4,790	5,078	13,378	1,646
4	594	76,325	2,186	7,710	4,873	13,949	2,439
5	429	50,323	5,979	5,218	2,643	10,435	2,032
6	332	32,013	4,137	4,751	3,451	9,859	1,452
<b>Total</b>	2,447	259,859	16,520	26,692	21,261	64,922	9,381
<b>Attainment (%)</b>		95.2	39.6	98.4	7.5	97.5	N/A

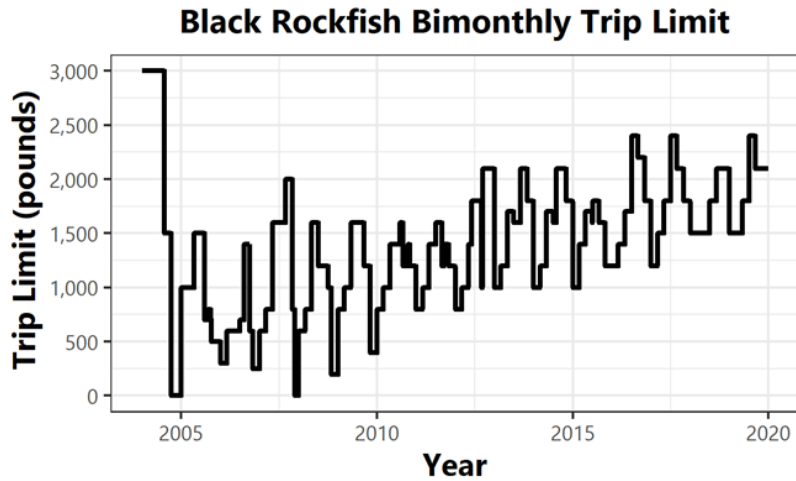


**Figures**

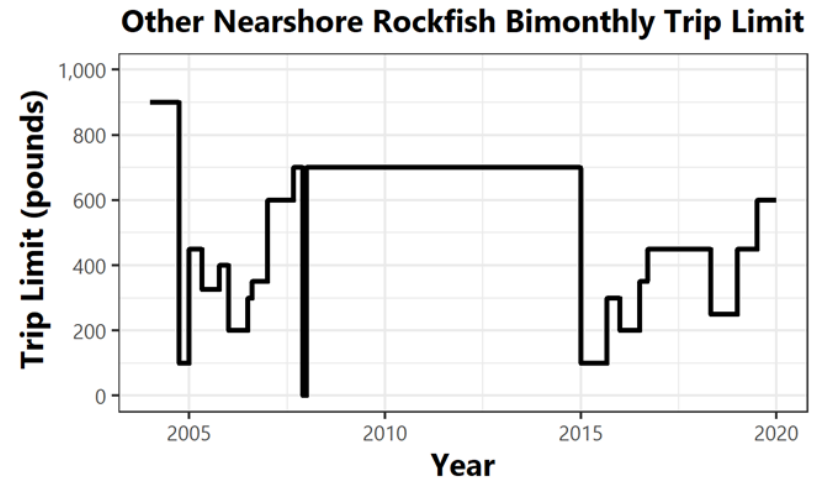
**Oregon Black Rockfish Management Areas**



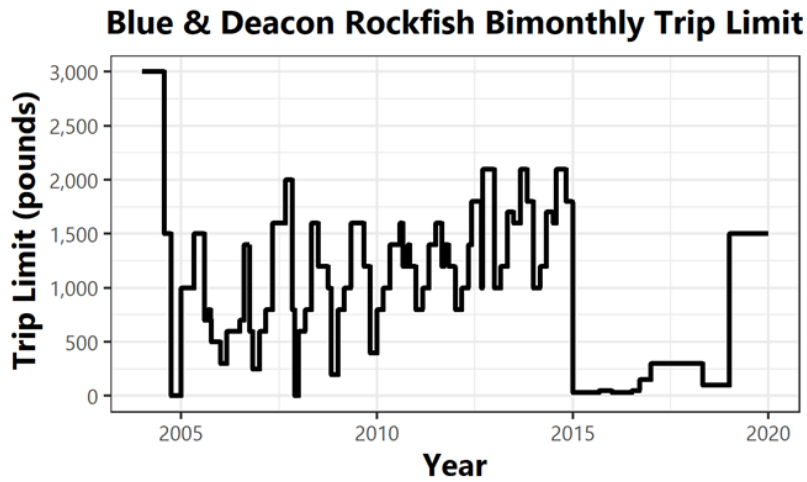
**Figure 1.** Black Rockfish Management Areas off Oregon. A daily trip limit of 300 pounds of commercial harvest of Black Rockfish is in effect in these specific geographic areas where extensive recreational harvest occurs.



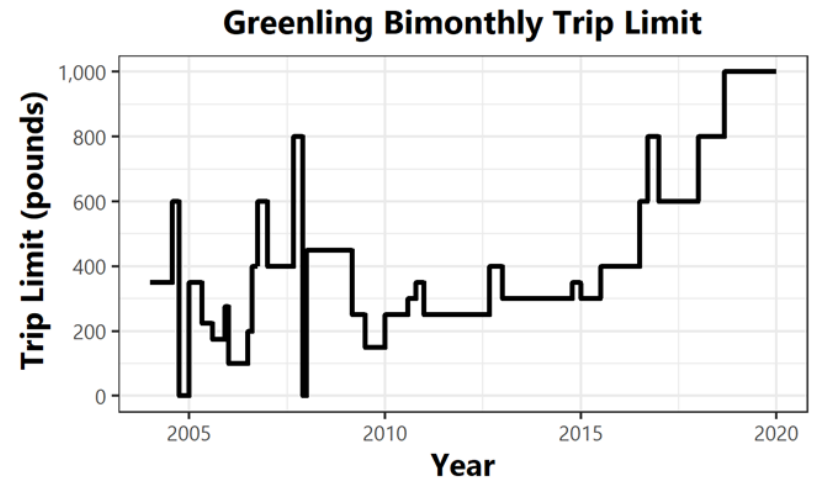
**Figure 2.** Black Rockfish bimonthly trip limit history.



**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.

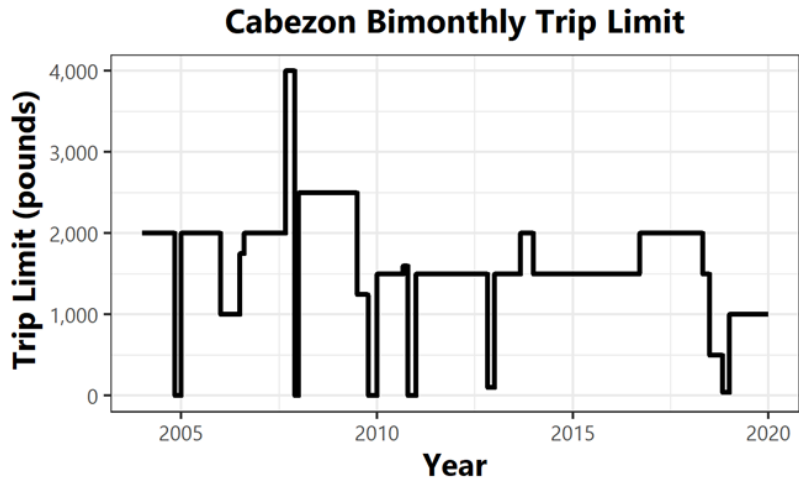


Figure 6. Cabezon bimonthly trip limit history.

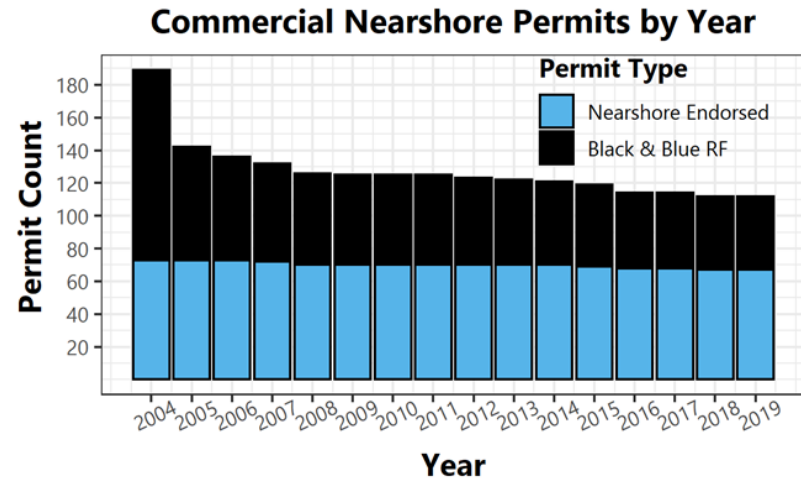


Figure 8. History of commercial nearshore Black and Blue Rockfish permits.

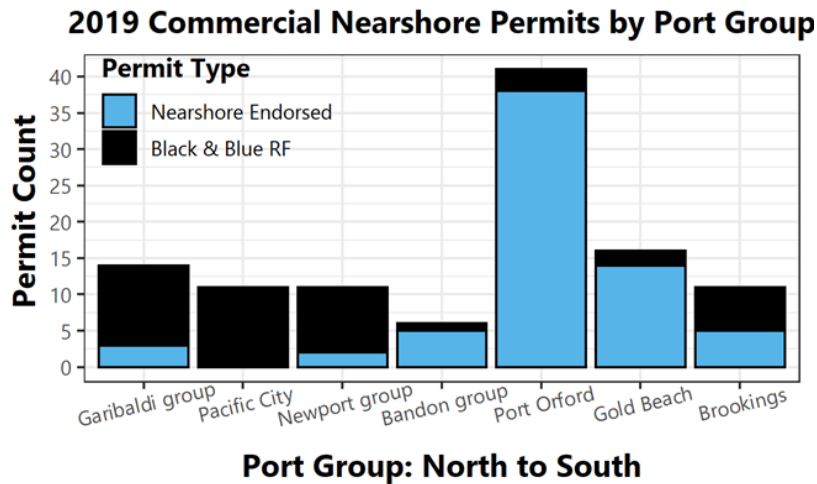


Figure 7. 2019 commercial nearshore Black and Blue Rockfish permits by port group.

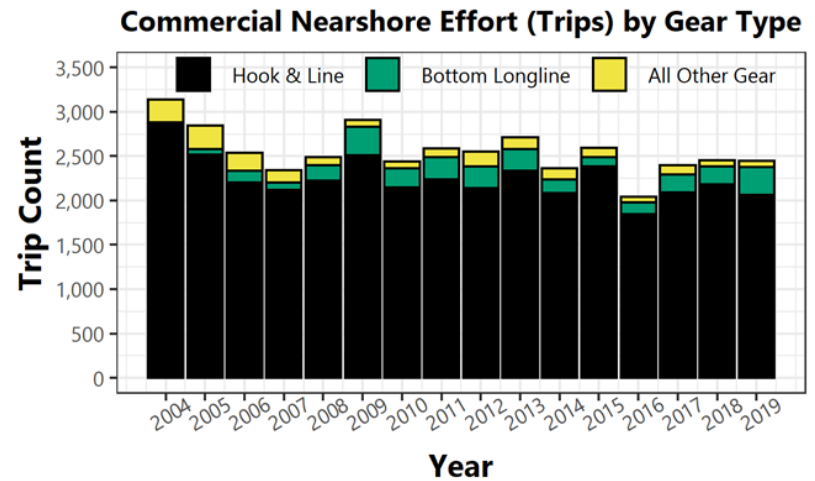
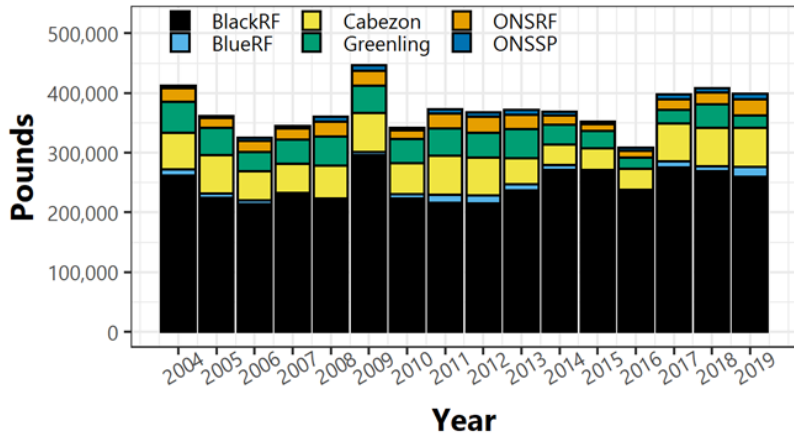


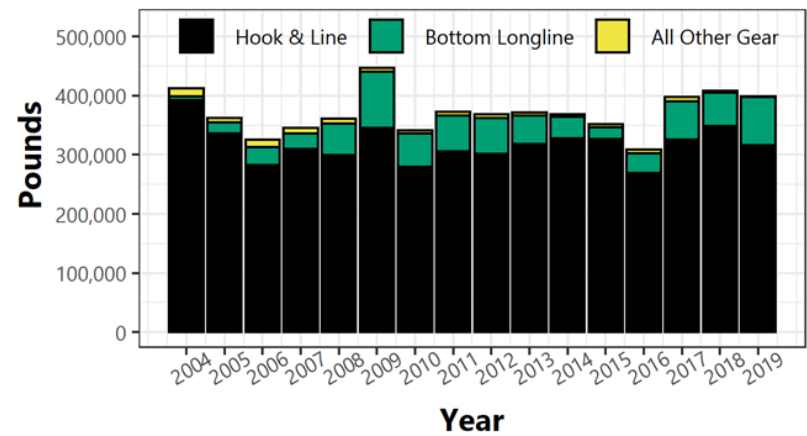
Figure 9. Commercial nearshore fishery effort (day trip) by year and gear type.

**Commercial Nearshore Landings by Species Group**



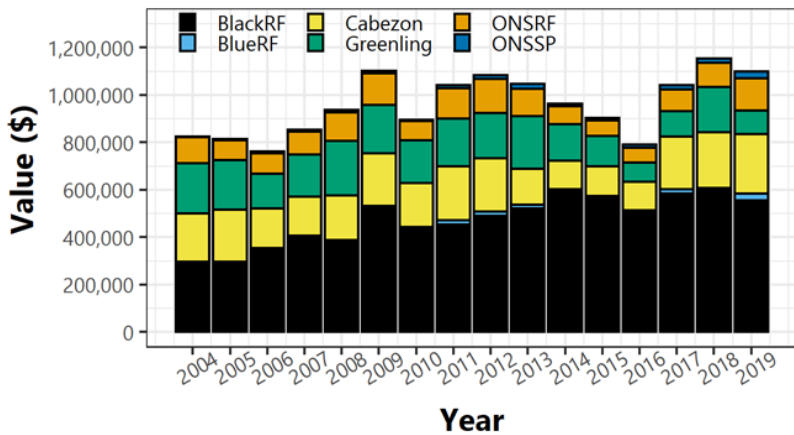
**Figure 10.** Commercial nearshore landings (pounds) by year and species management group.

**Commercial Nearshore Landings by Gear Type**



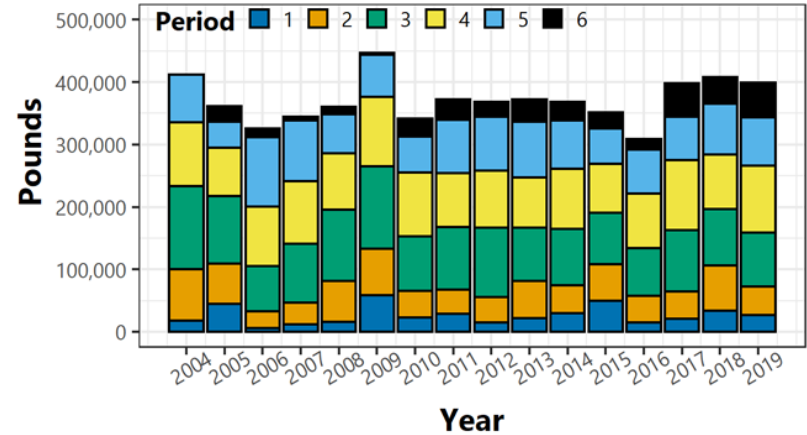
**Figure 12.** Commercial nearshore landings (pounds) by year and gear type.

**Commercial Ex-Vessel Value by Species Group**

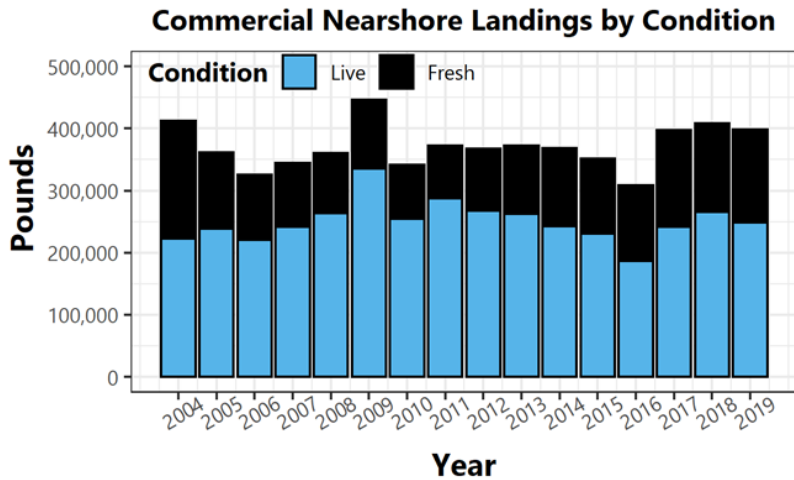


**Figure 11.** Commercial nearshore landings ex-vessel value (\$) by year and species management group.

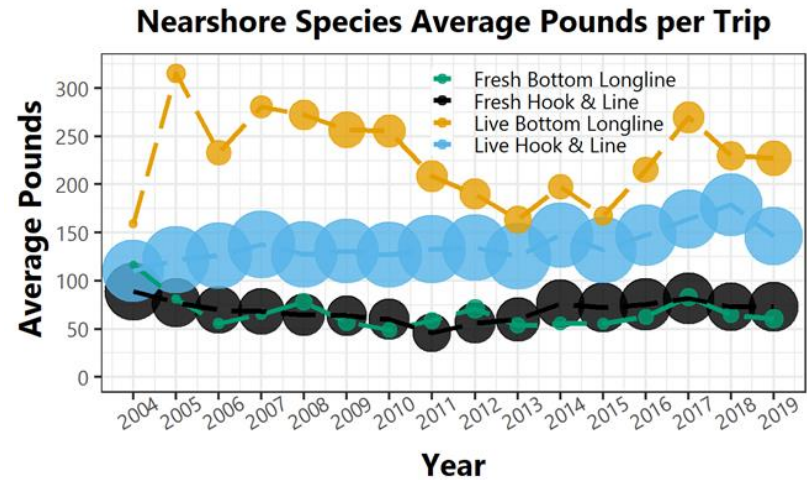
**Commercial Nearshore Landings by Bimonthly Period**



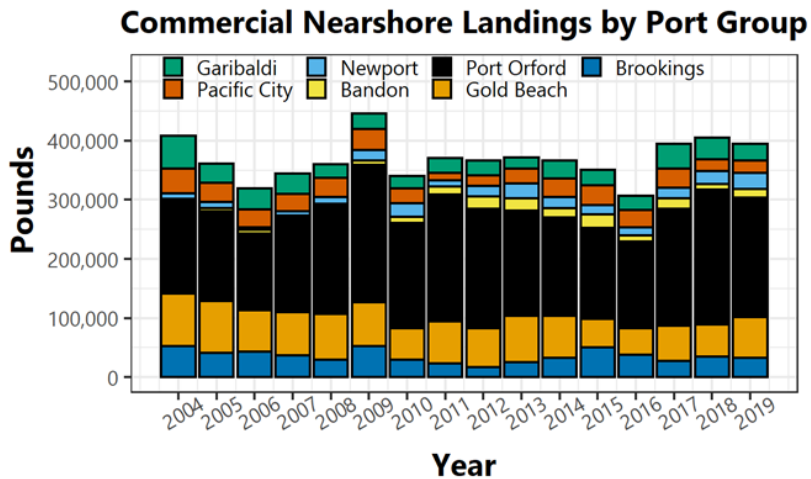
**Figure 13.** Commercial nearshore landings (pounds) by year and bimonthly period.



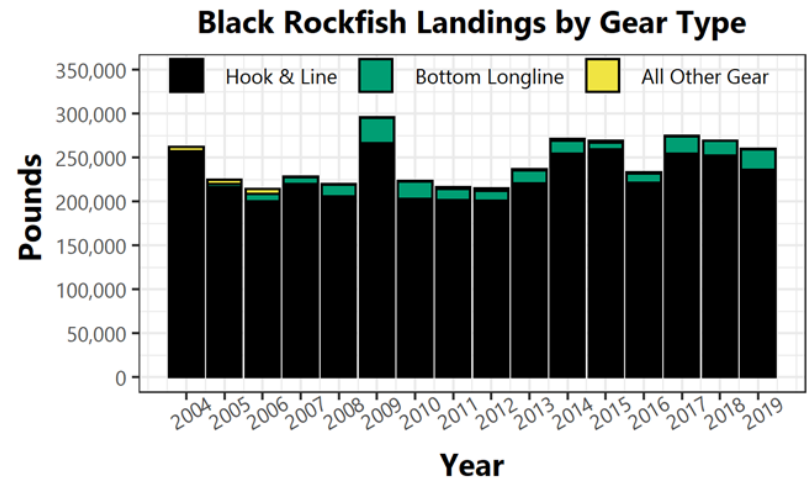
**Figure 14.** Commercial nearshore landings (pounds) by year and market condition.



**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.

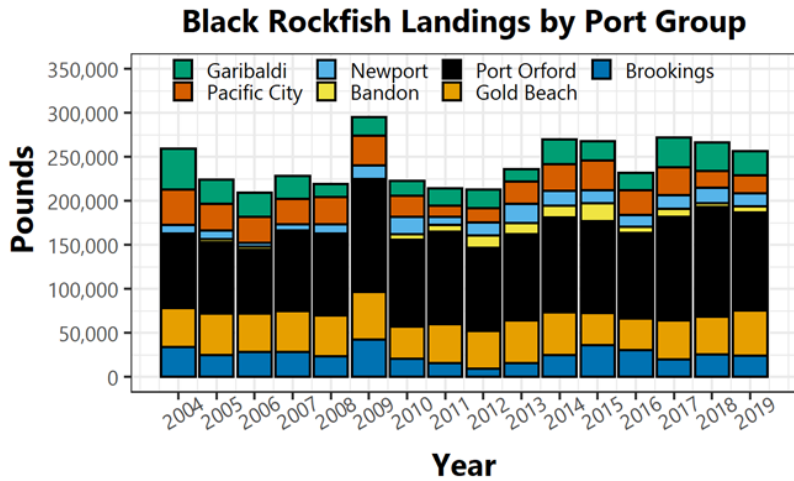


Figure 18. Black Rockfish landings (pounds) by year and port group.

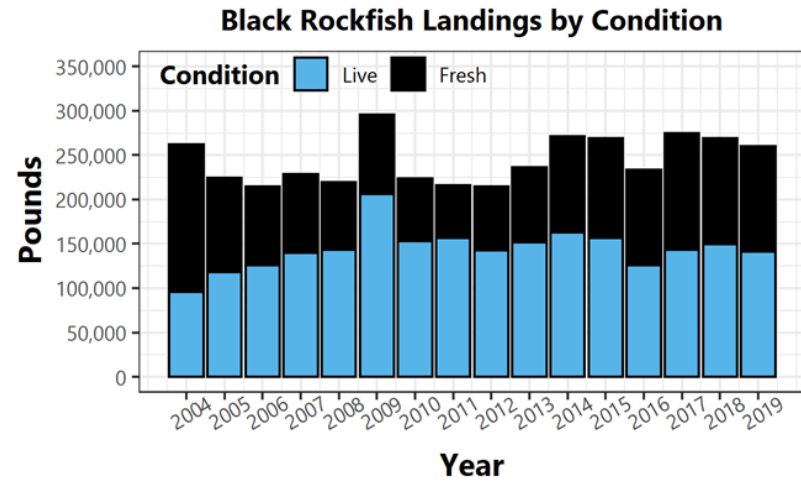


Figure 20. Black Rockfish landings (pounds) by year, species and market condition.

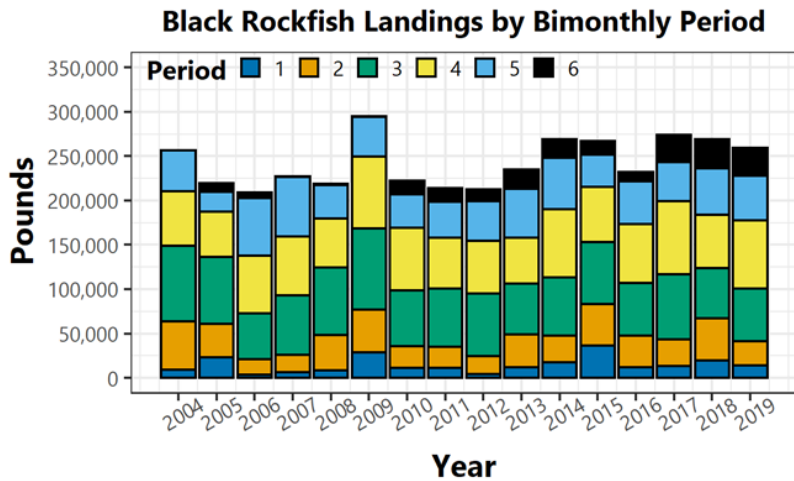


Figure 19. Black Rockfish landings (pounds) by year and bimonthly period.

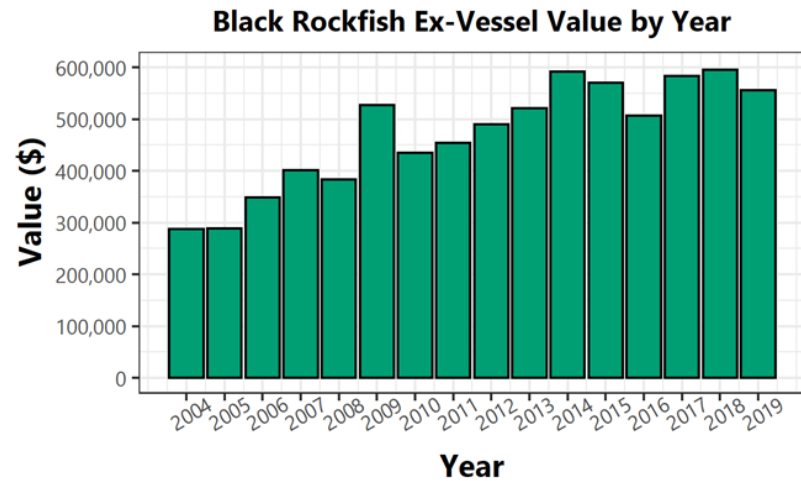
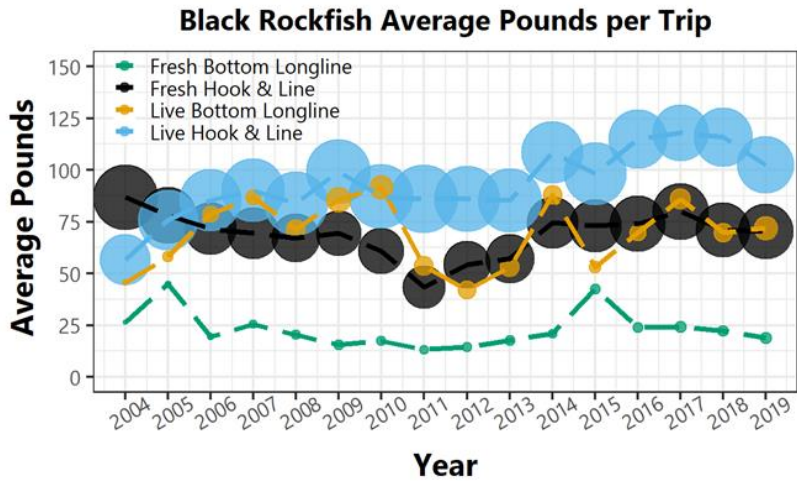
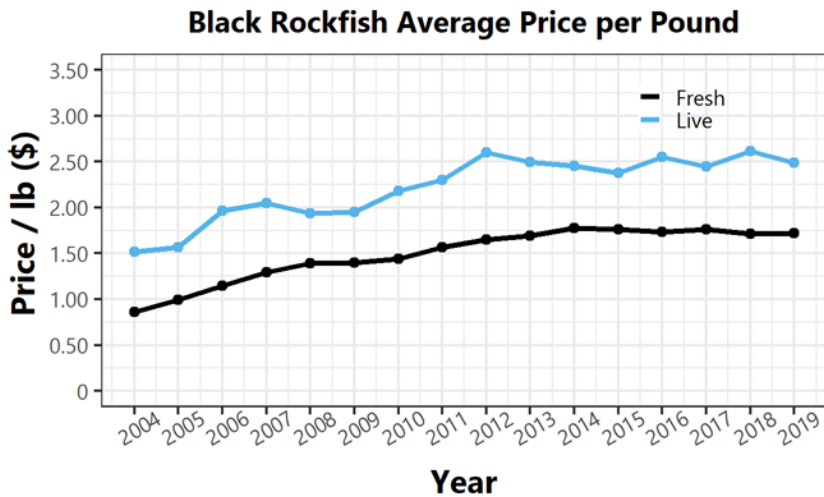


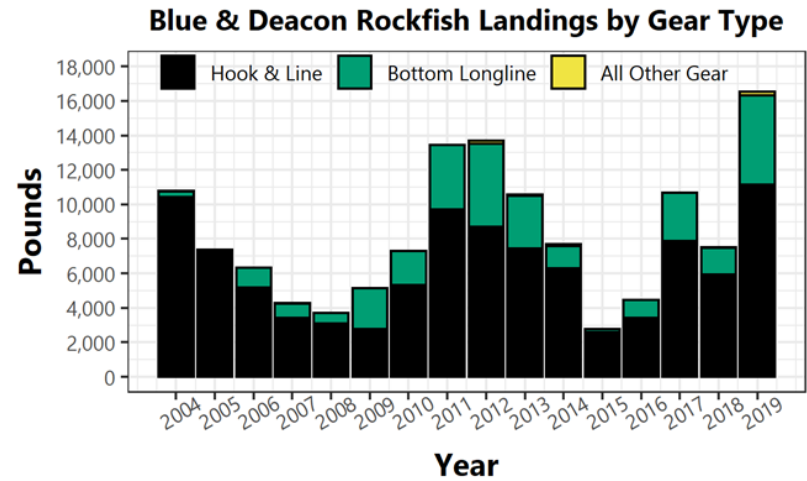
Figure 21. Ex-vessel value (\$) of Black Rockfish by year.



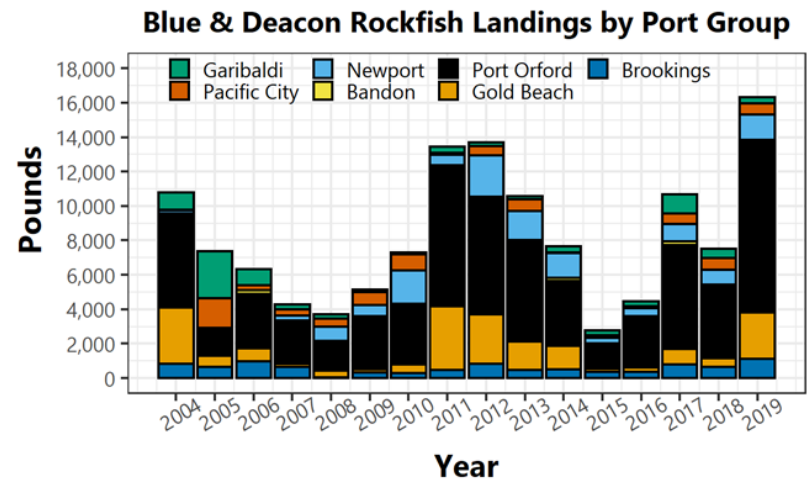
**Figure 22.** Average pounds landed per trip for Black Rockfish by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.



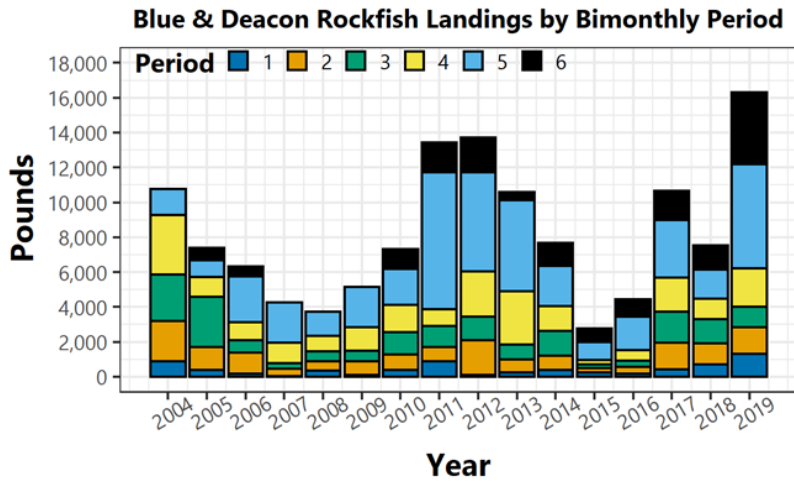
**Figure 23.** Black Rockfish average ex-vessel price per pound by year and market condition



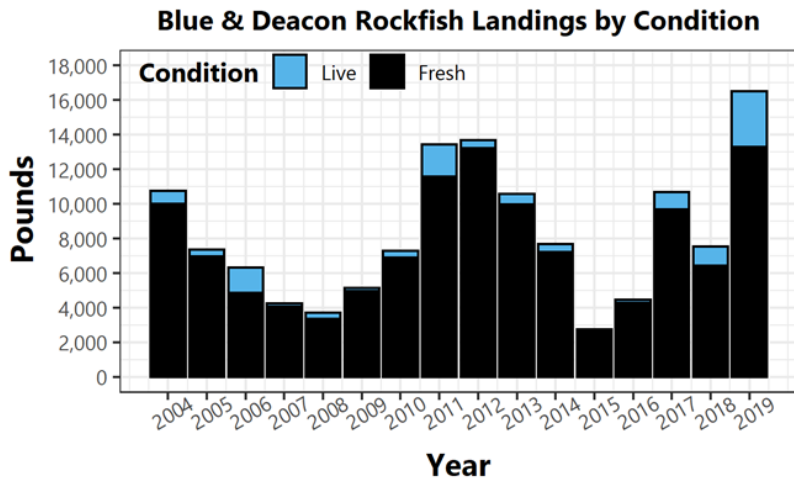
**Figure 24.** Blue and Deacon Rockfish landings (pounds) by year and gear type.



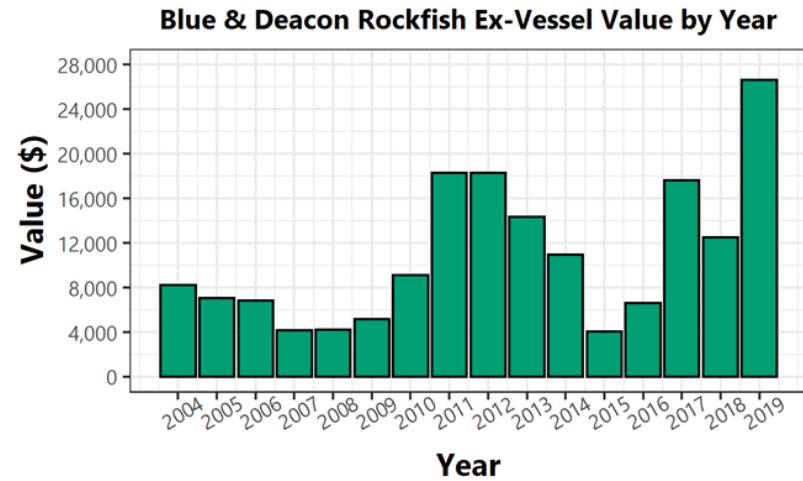
**Figure 25.** Blue and Deacon Rockfish landings (pounds) by year and port group.



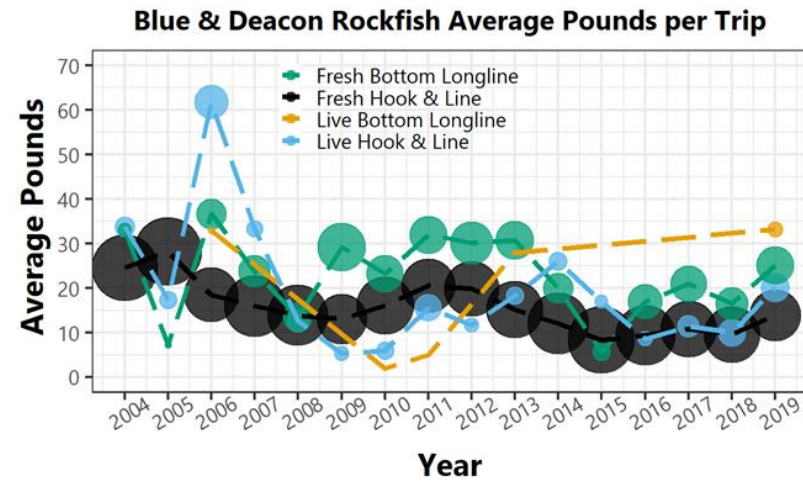
**Figure 26.** Blue and Deacon Rockfish landings (pounds) by year and bimonthly period.



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

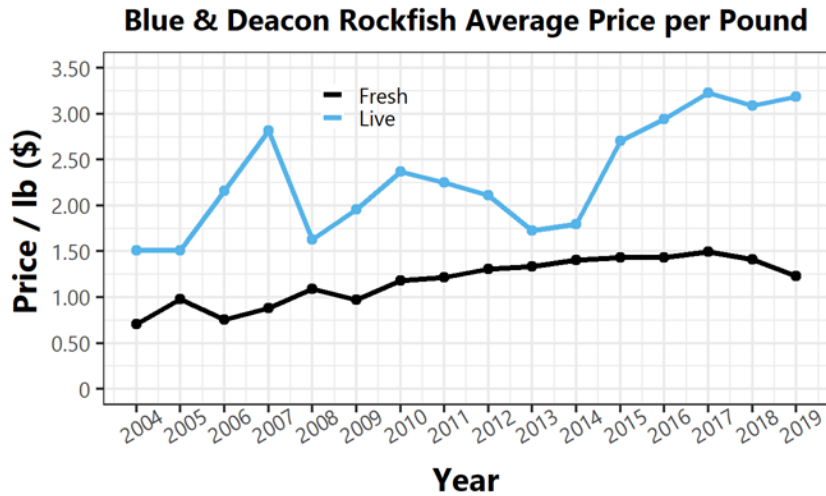


**Figure 28.** Blue and Deacon Rockfish ex-vessel value.

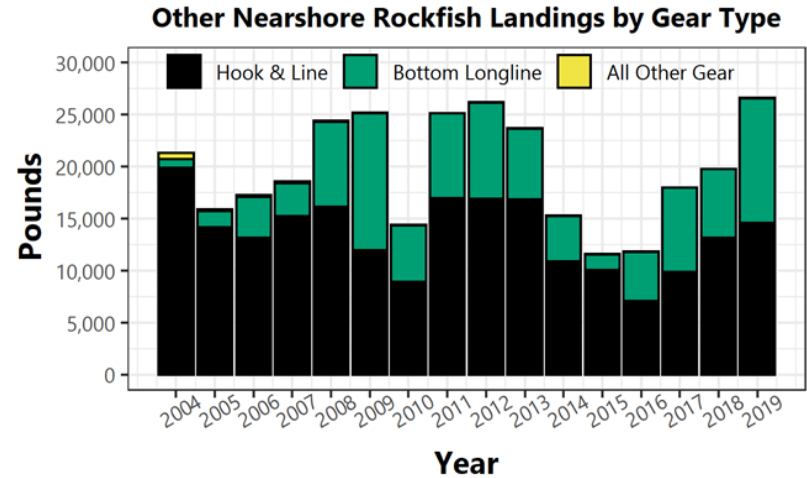


**Figure 29.** Average pounds landed per trip for Blue and Deacon Rockfish by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.

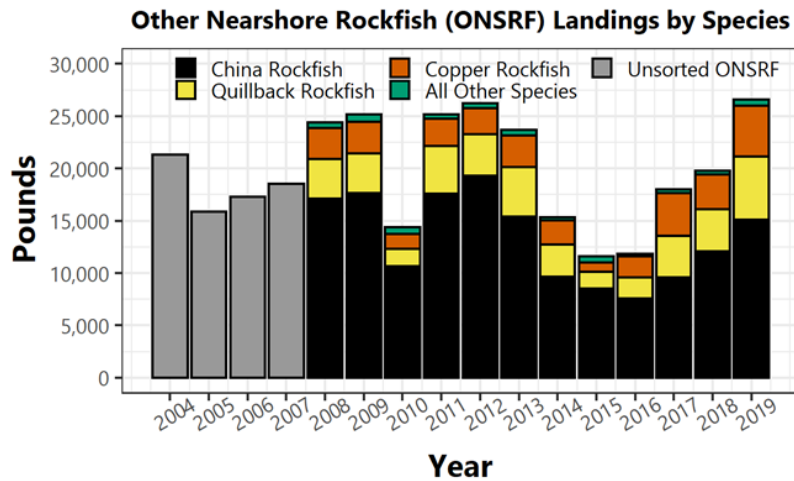




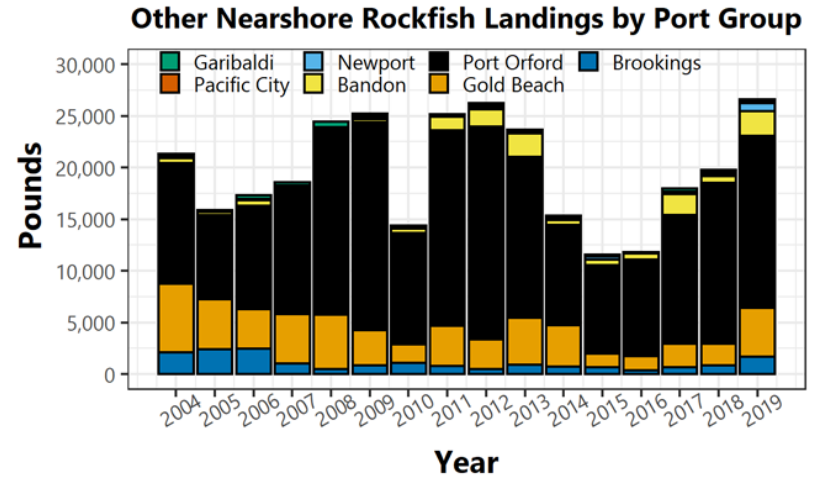
**Figure 30.** Blue and Deacon Rockfish average ex-vessel price per pound by year and market condition.



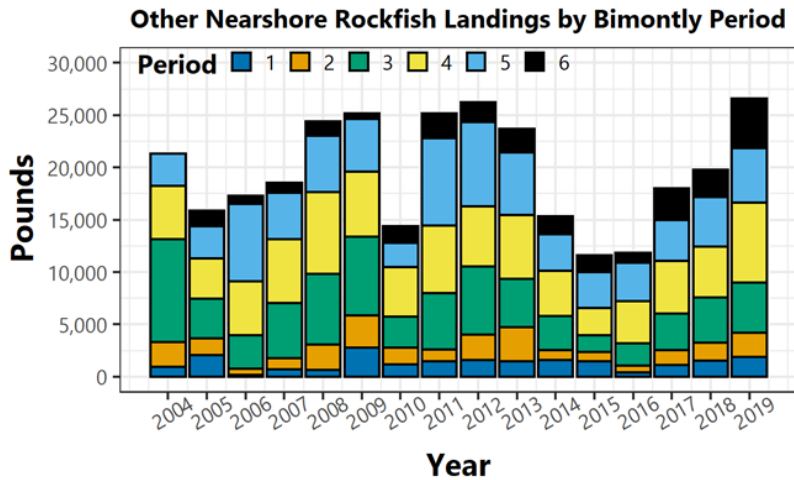
**Figure 32.** Other Nearshore Rockfish landings (pounds) by year and gear type.



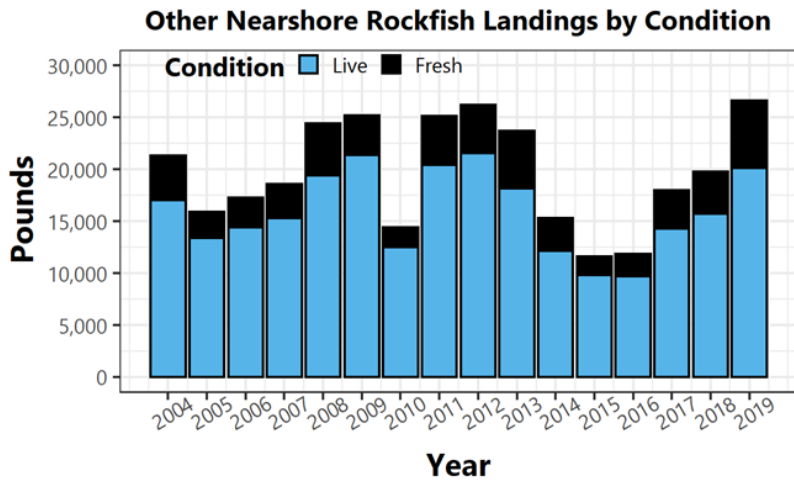
**Figure 31.** Other Nearshore Rockfish landings (pounds) by year and species group. Fishes landed in this species group prior to 2008 were unsorted.



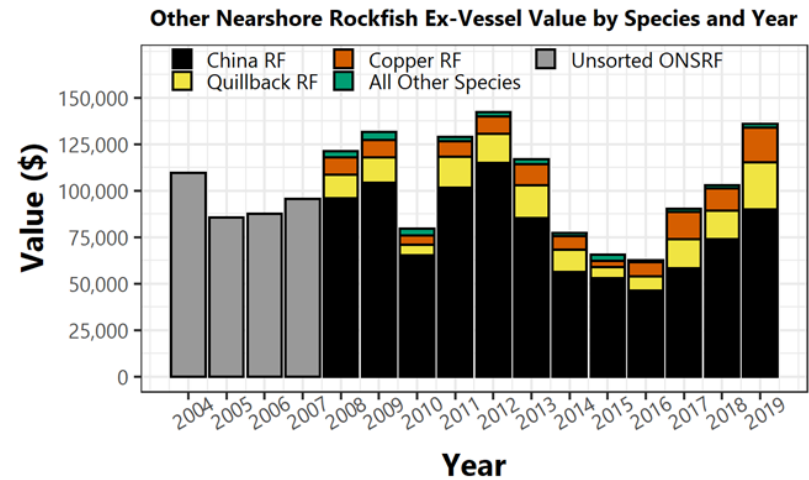
**Figure 33.** Other Nearshore Rockfish landings (pounds) by year and port group.



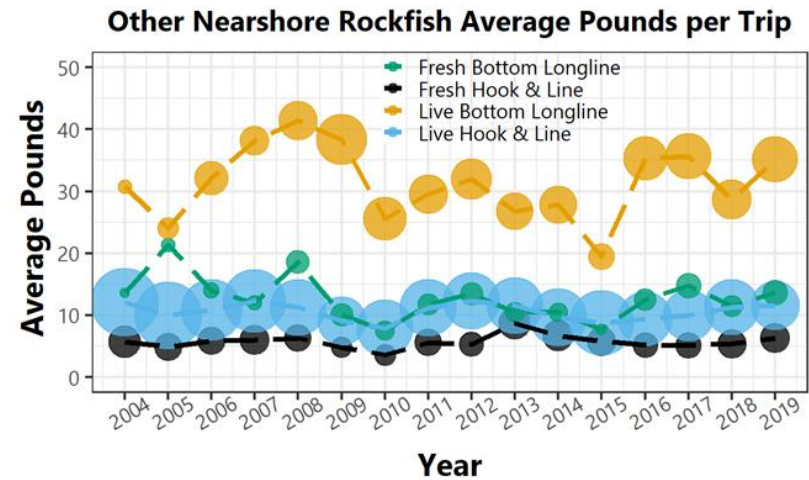
**Figure 34.** Other Nearshore Rockfish landings (pounds) by year and bimonthly period.



**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.

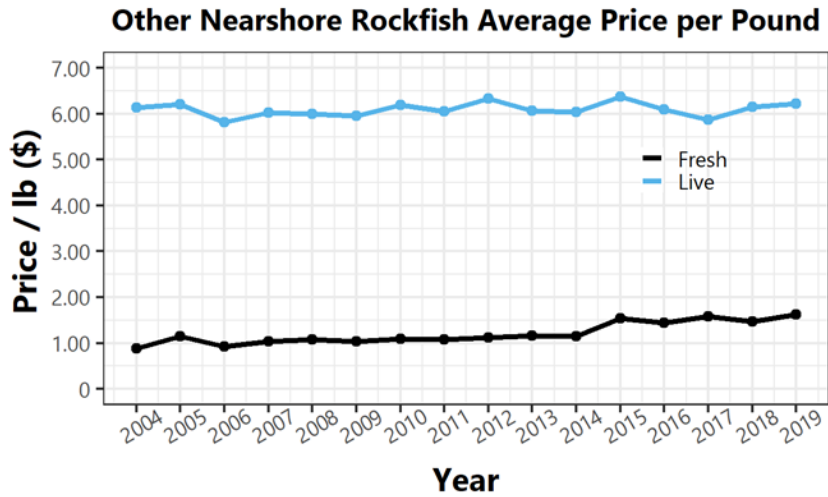


Figure 38. Other Nearshore Rockfish average ex-vessel price per pound by year and market condition.

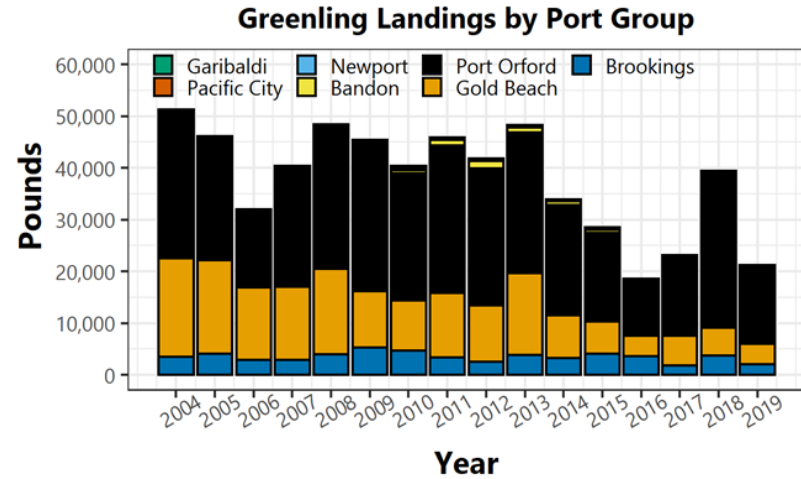


Figure 40. Greenling landings (pounds) by year and port group.

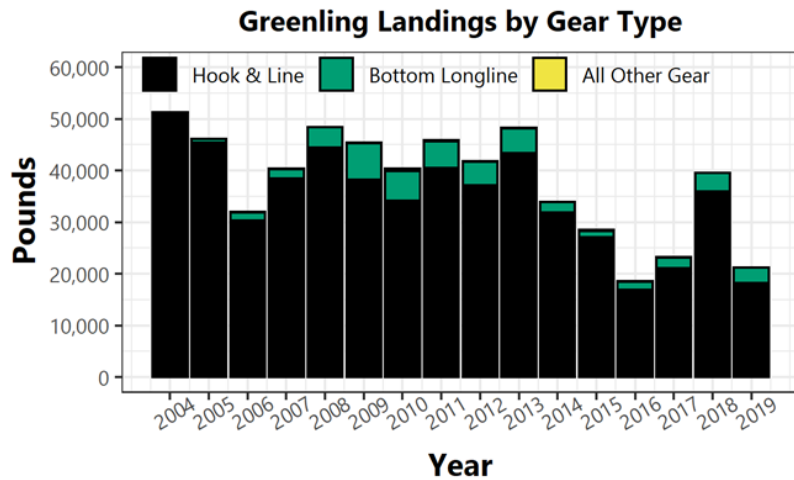


Figure 39. Greenling landings (pounds) by year and gear type.

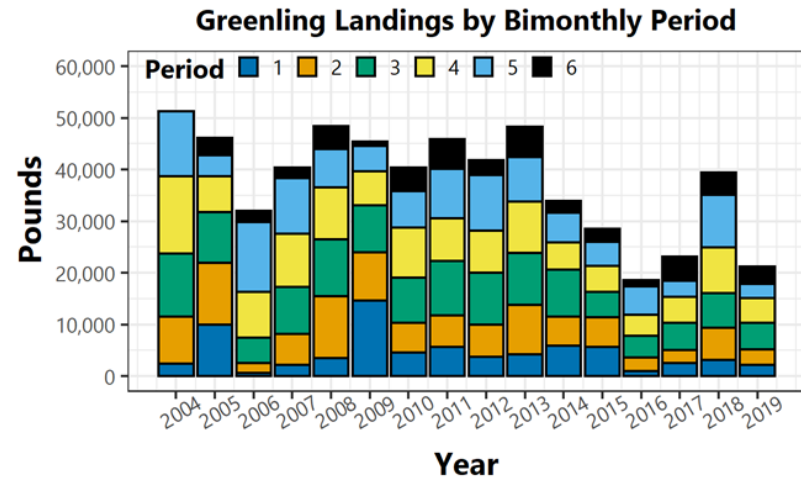
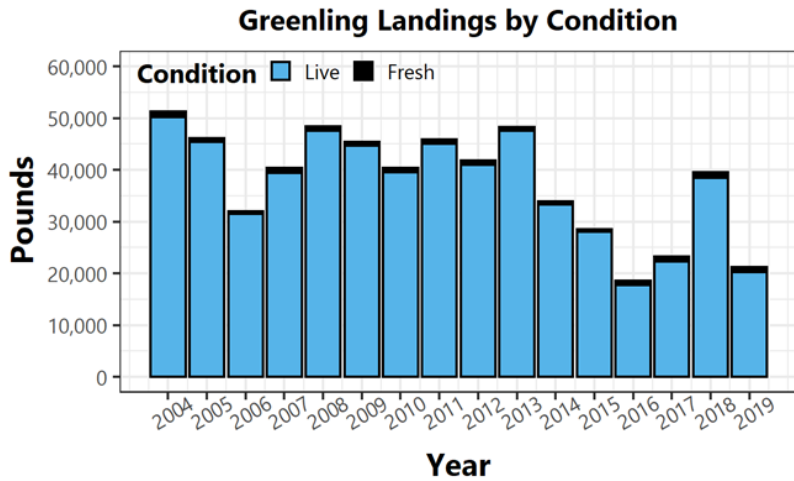
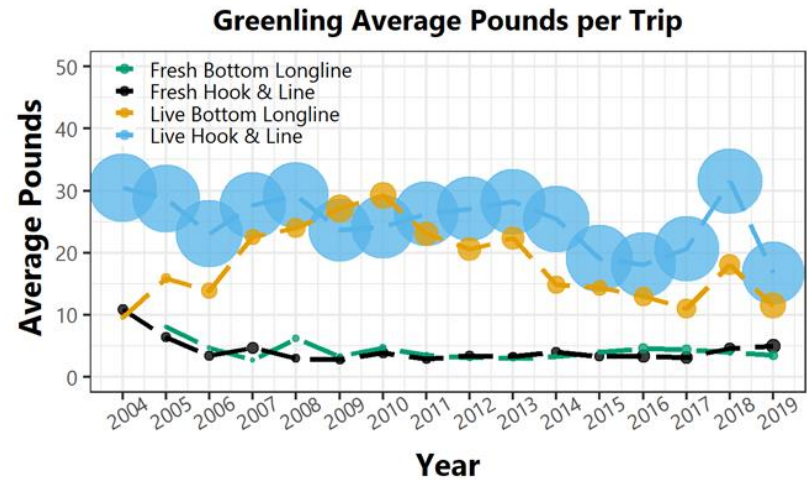


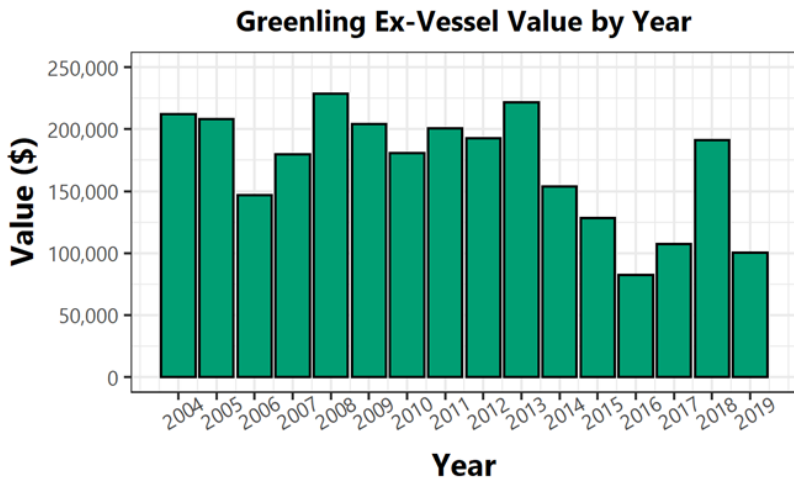
Figure 41. Greenling landings (pounds) by year and bimonthly period.



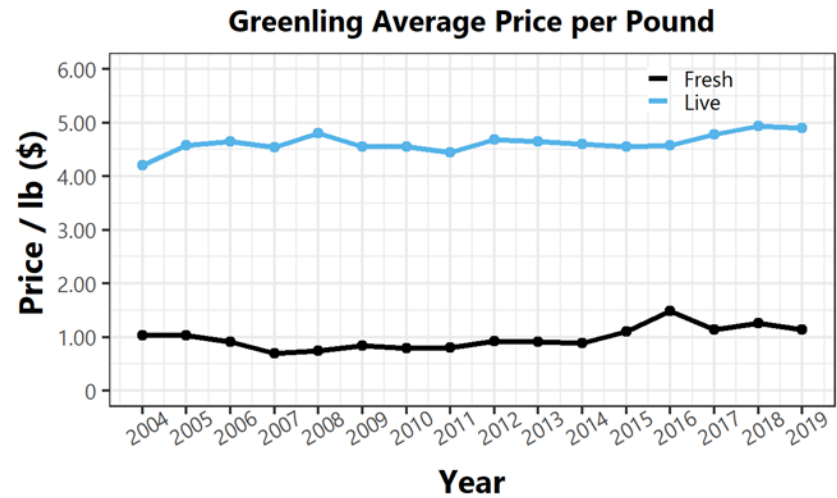
**Figure 42.** Greenling landings (pounds) by year and market condition.



**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

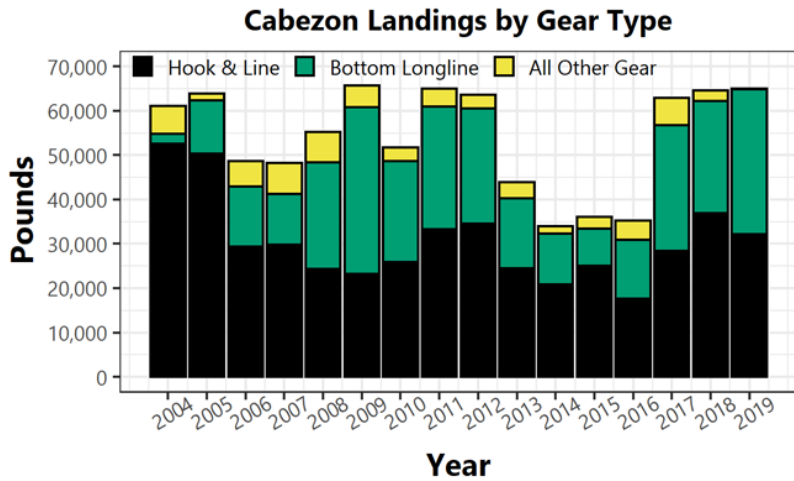


Figure 46. Cabezon landings (pounds) by year and gear type.

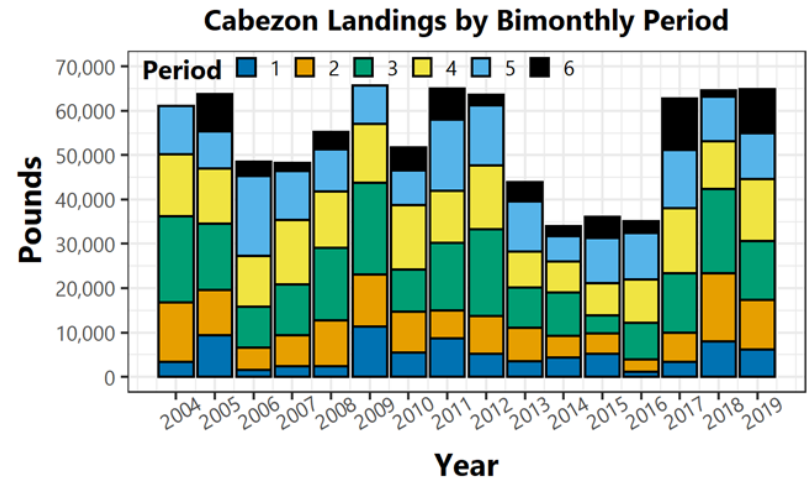


Figure 48. Cabezon landings (pounds) by year and bimonthly period.

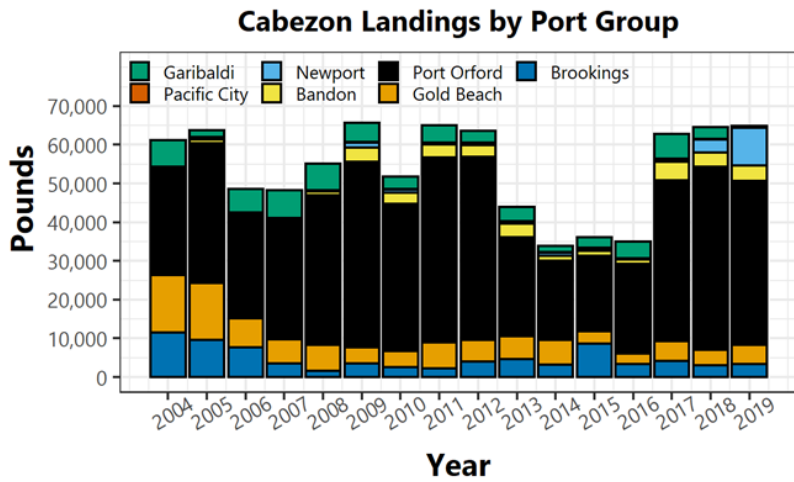


Figure 47. Cabezon landings (pounds) by year and port group.

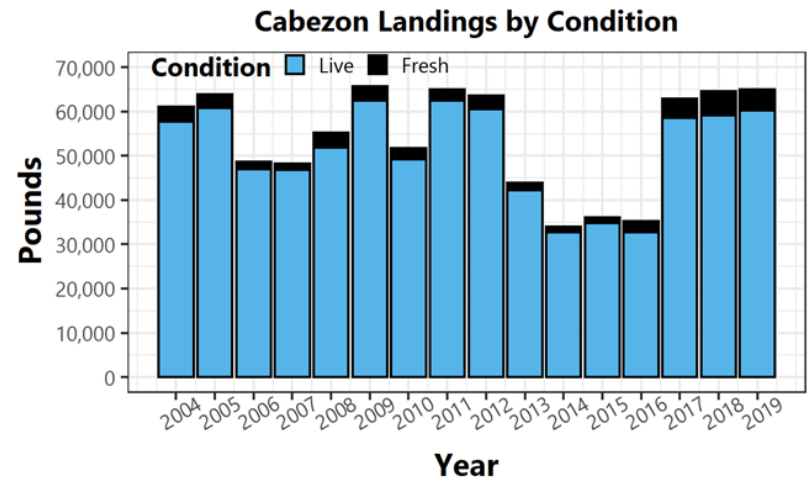


Figure 49. Cabezon landings (pounds) by year and condition.

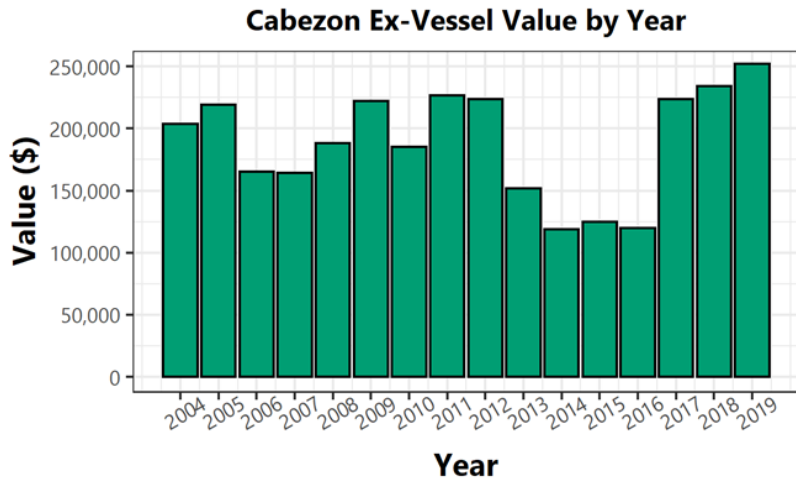


Figure 50. Cabezon ex-vessel value (\$) by year.

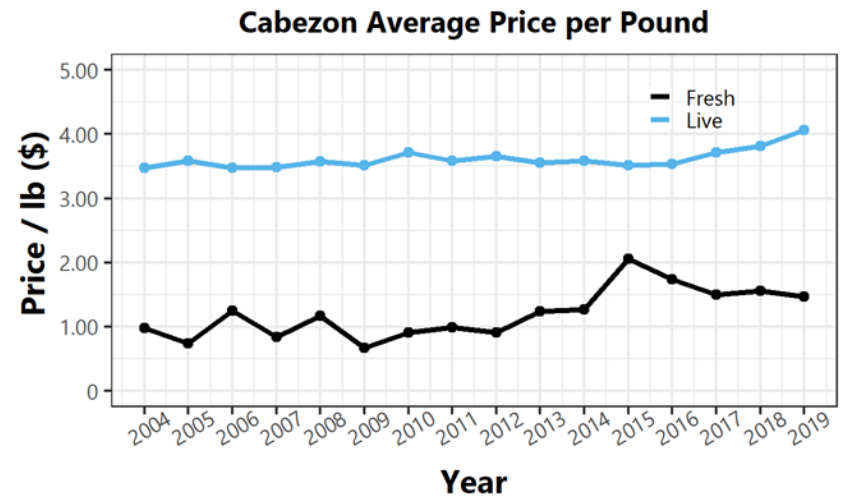


Figure 52. Cabezon average ex-vessel price per pound by year and market condition.

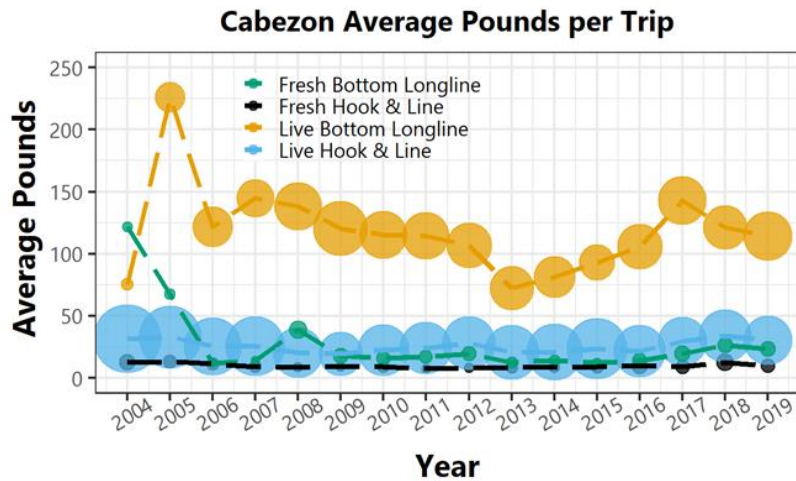


Figure 51. Average pounds landed per trip for Cabezon by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed by each sector.

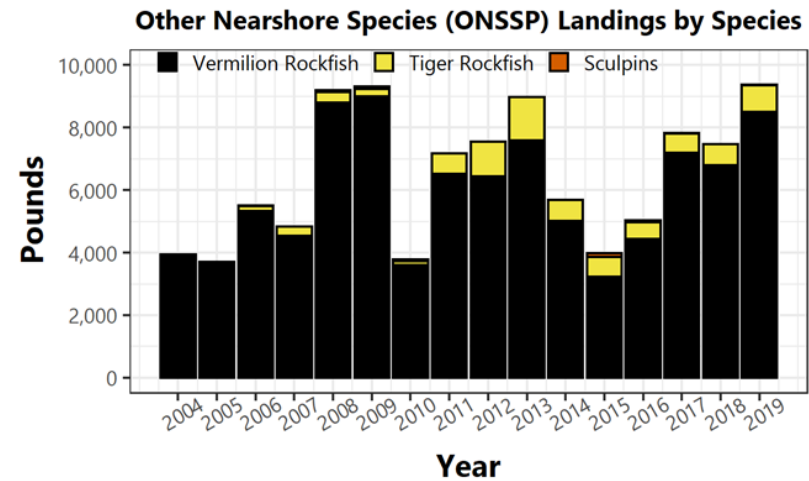
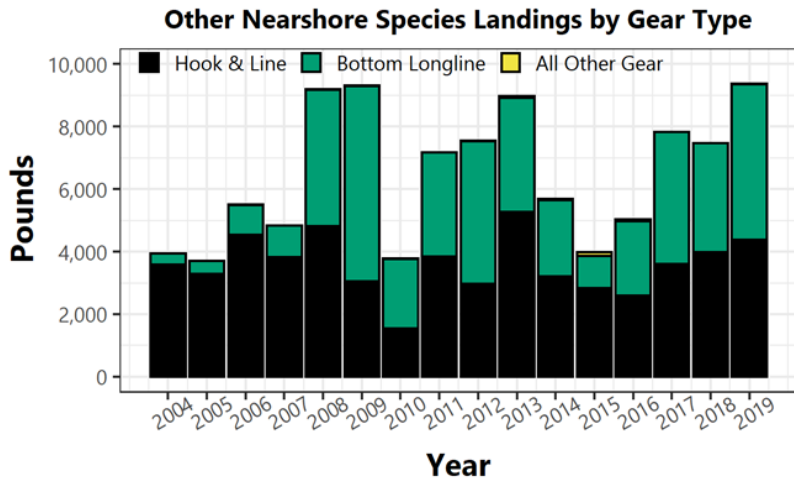
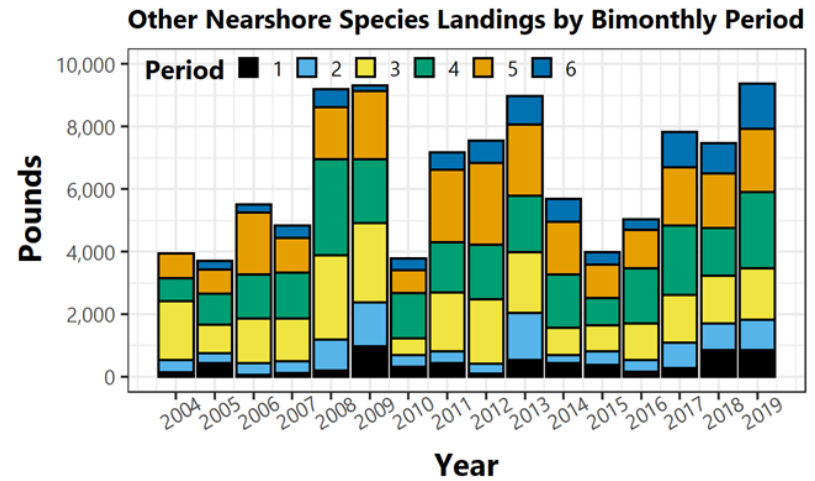


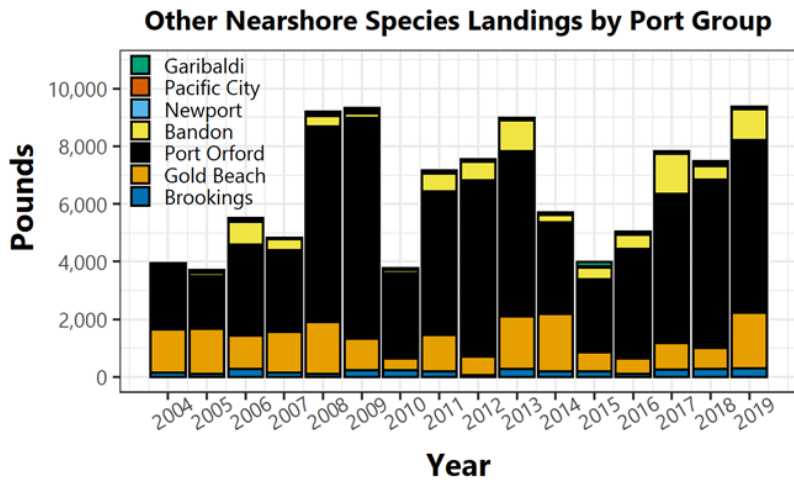
Figure 53. Other Nearshore Species landings (pounds) by year and species group.



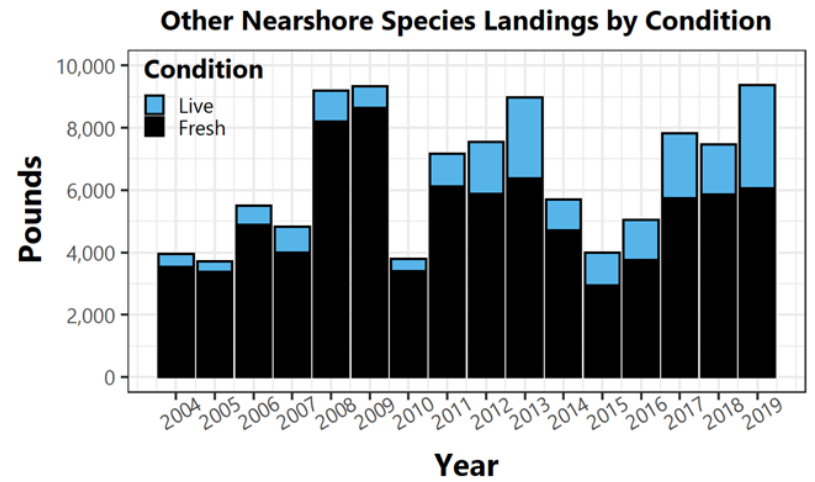
**Figure 54.** Other Nearshore Species landings (pounds) by year and gear type.



**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.

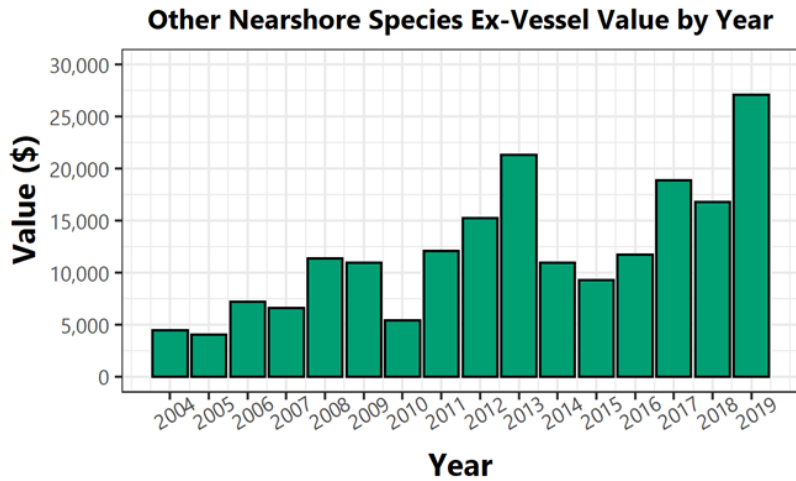


Figure 58. Ex-vessel value of Other Nearshore Species by year.

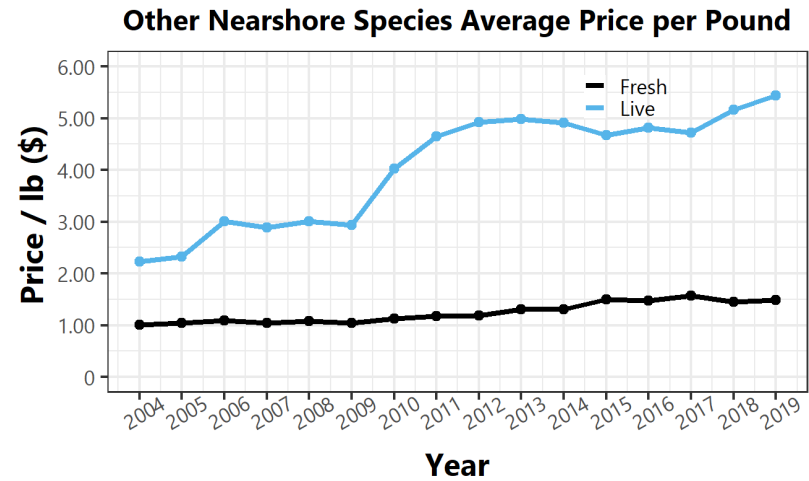


Figure 60. Other Nearshore Species average ex-vessel price per pound by year and market condition.

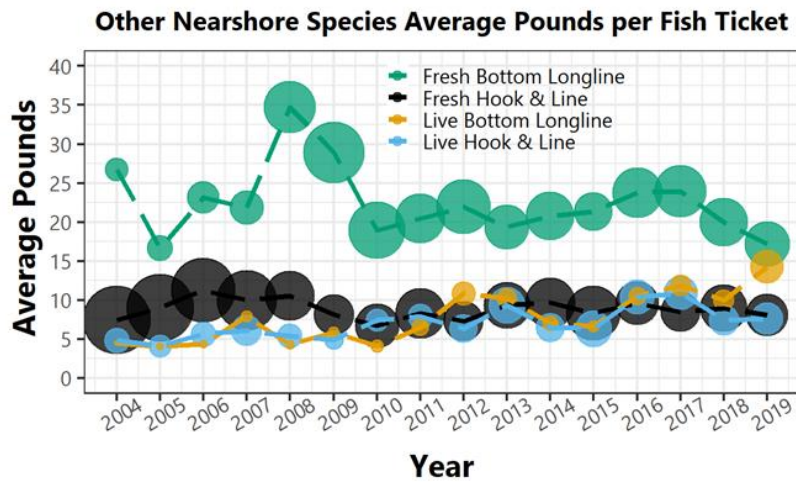


Figure 59. Average pounds landed per trip for Other Nearshore Species by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed per sector.

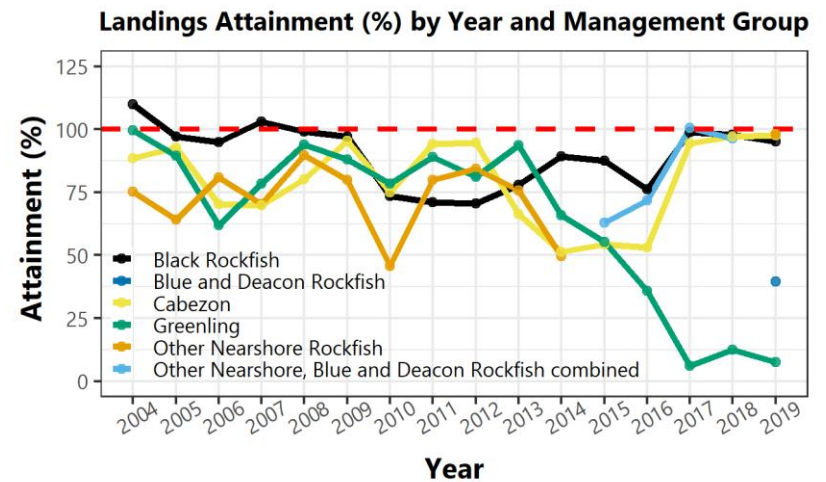


Figure 61. Percent attainment of harvest quota by species group through time. Management quotas have been landing caps and harvest guidelines. Percentages here represent total pounds landed divided by values found in Table 2 and Appendix A.



## Appendices

**Appendix A.** Annual landing caps, harvest caps and Harvest Guidelines (HGs) for state management groups for 2004 – 2018. Where applicable, harvest caps are indicated in footnotes. Harvest guidelines replaced landing and harvest caps beginning in 2015.

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

<sup>1</sup>values in parentheses are landing caps for Black Rockfish, alone.

<sup>2</sup>includes Vermilion and Tiger Rockfishes.

<sup>3</sup>first year both harvest caps were implemented; prior harvest cap equaled landing cap.

<sup>4</sup>harvest cap of 139.2 mt for Black Rockfish, alone.

<sup>5</sup>harvest cap of 30.8 mt.

<sup>6</sup>harvest 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

**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.** 2018 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black RF</b>	<b>Blue/Deacon RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B2.** 2017 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black RF</b>	<b>Blue/Deacon RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B3.** 2016 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black RF</b>	<b>Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B4.** 2015 bimonthly period trip limits (pounds). Blue and Deacon Rockfish had a separate trip limit beginning this year.

<b>Period</b>	<b>Black RF</b>	<b>Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B5.** 2014 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B6.** 2013 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabazon</b>	<b>Greenling</b>
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 B7.** 2012 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabazon</b>	<b>Greenling</b>
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 B8.** 2011 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabazon</b>	<b>Greenling</b>
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 B9.** 2010 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B10.** 2009 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B11.** 2008 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B12.** 2007 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF</b>	<b>Cabezon</b>	<b>Greenling</b>
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 B13.** 2006 monthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF<sup>1</sup></b>	<b>Cabezon</b>	<b>Greenling</b>
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)

<sup>1</sup> - sub-limit of Black & Blue RF; included Vermilion and Tiger RF

**Table B14.** 2005 bimonthly period trip limits (pounds).

<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF<sup>1</sup></b>	<b>Cabezon</b>	<b>Greenling</b>
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)

<sup>1</sup> - sub-limit of Black & Blue RF; included Vermilion and Tiger RF

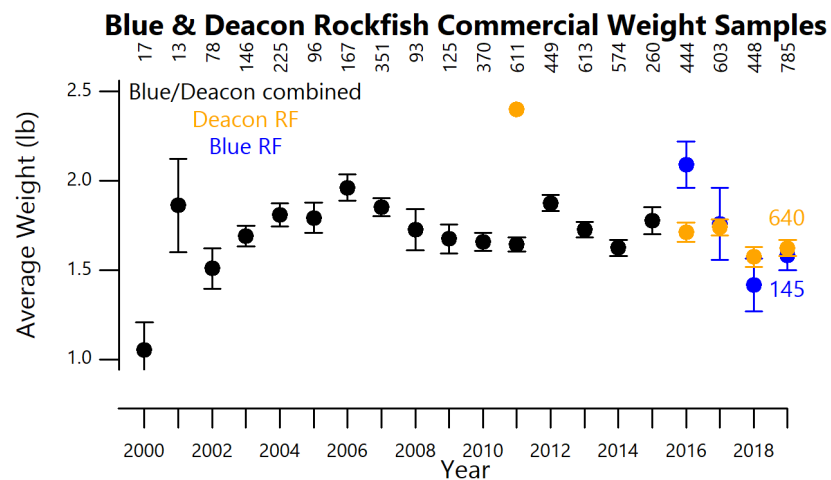
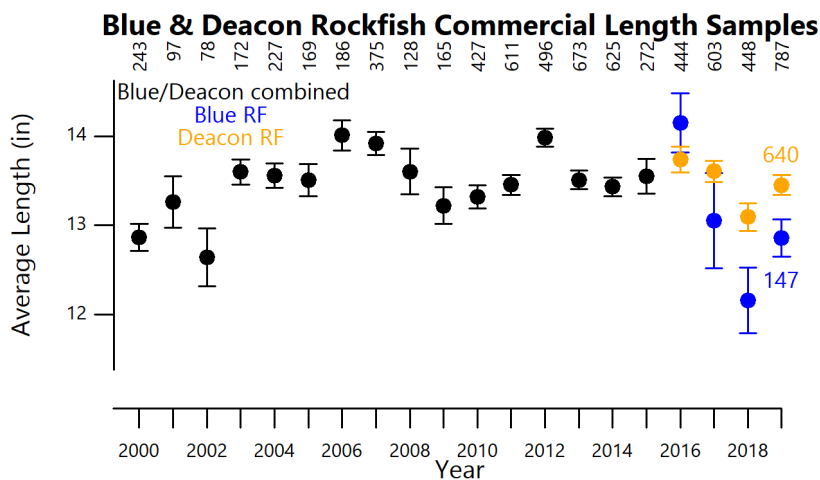
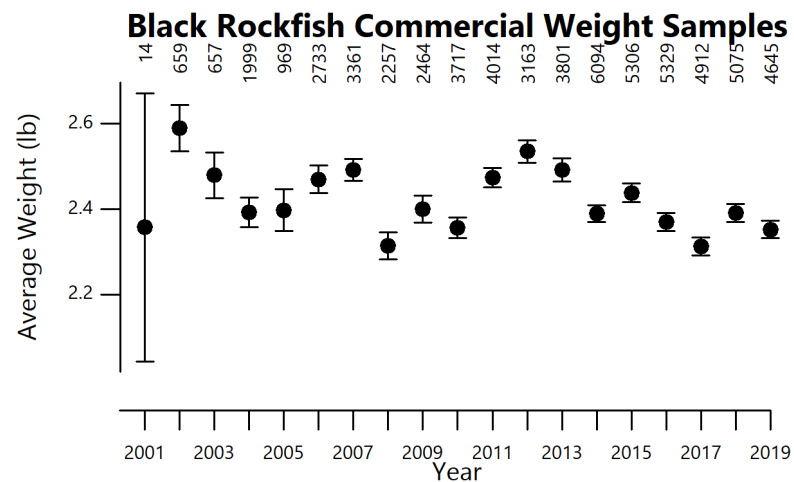
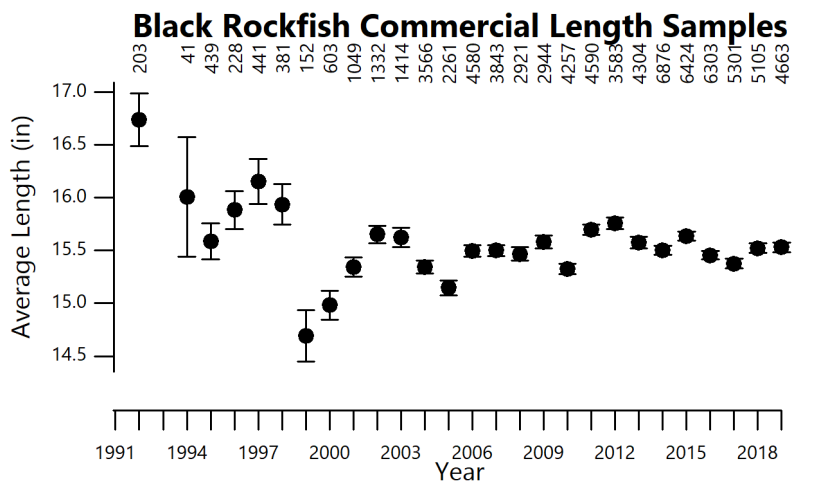
**Table B15.** 2004 bimonthly period trip limits (pounds).

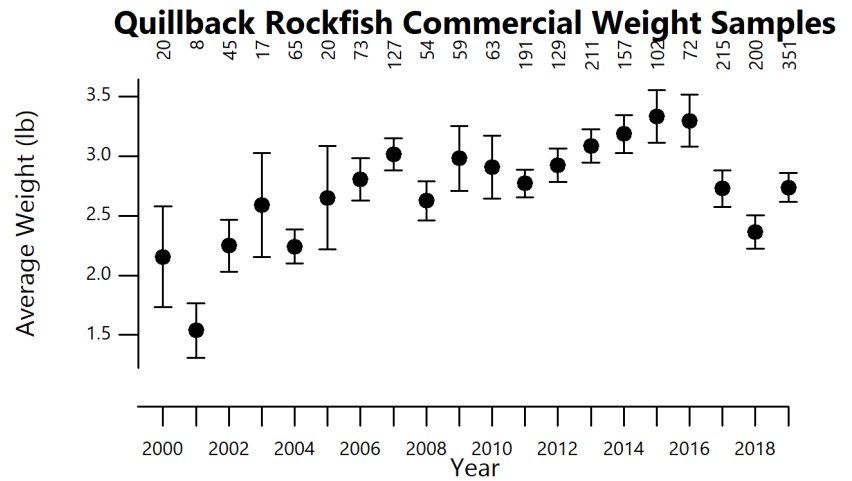
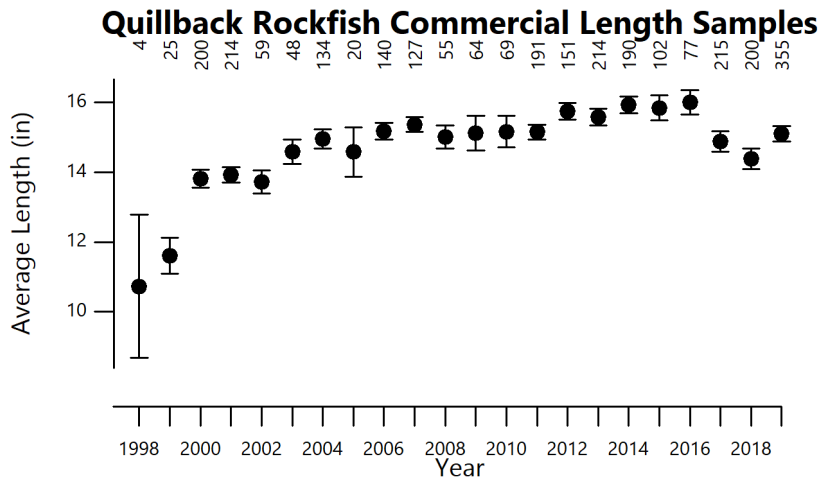
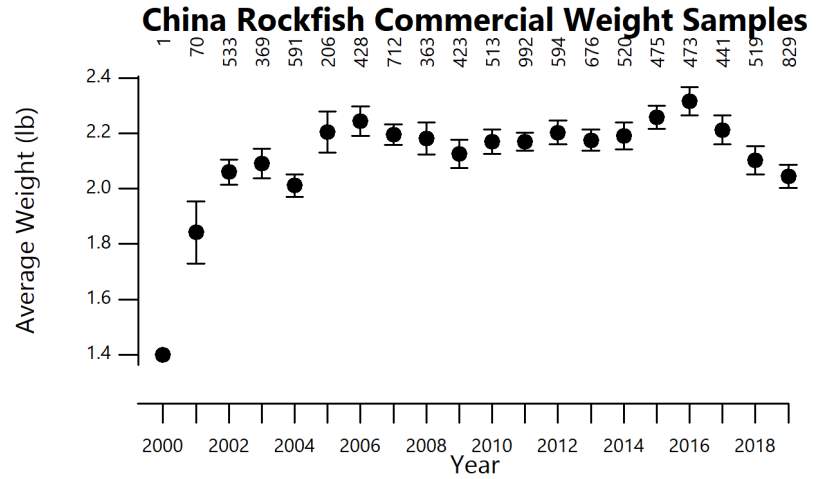
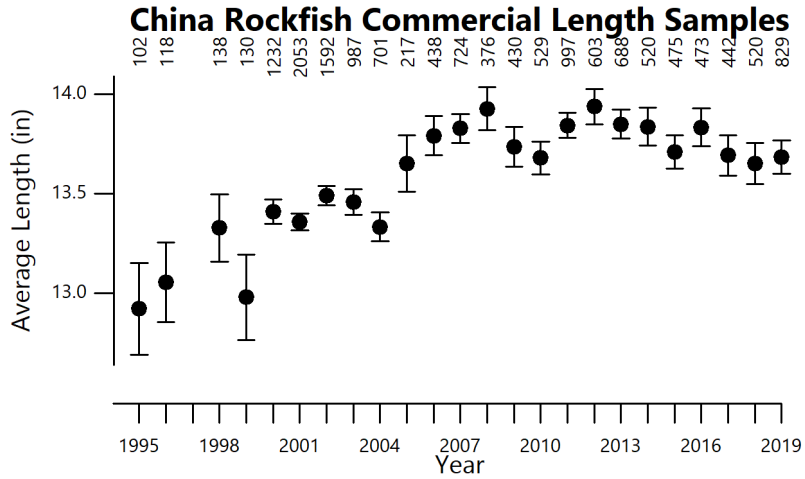
<b>Period</b>	<b>Black &amp; Blue RF</b>	<b>Other Nearshore RF<sup>1</sup></b>	<b>Cabezon</b>	<b>Greenling</b>
Period 1	3,000	900	2,000	350
Period 2	3,000	900	2,000	350
Period 3	3,000	900	2,000	350
Period 4	3,000	900	2,000	350
<i>July 27</i>	(1,500)	-	-	(600)
Period 5	3,000	900	2,000	350
<i>Sept 1</i>	(1,500)	-	-	(600)
<i>Sept 27</i>	(Closed)	(100)	-	(Closed)
Period 6	3,000	900	2,000	350
<i>Nov 1</i>	-	(Closed)	-	(Closed)

<sup>1</sup> - sub-limit of Black & Blue RF; included Vermilion and Tiger RF

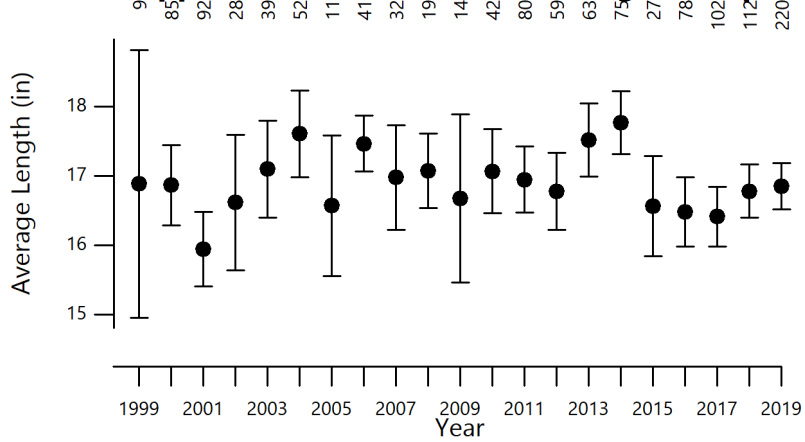


**Appendix C.** Nearshore species commercial length and weight sample averages by year with sample sizes (top) and 95% confidence intervals.

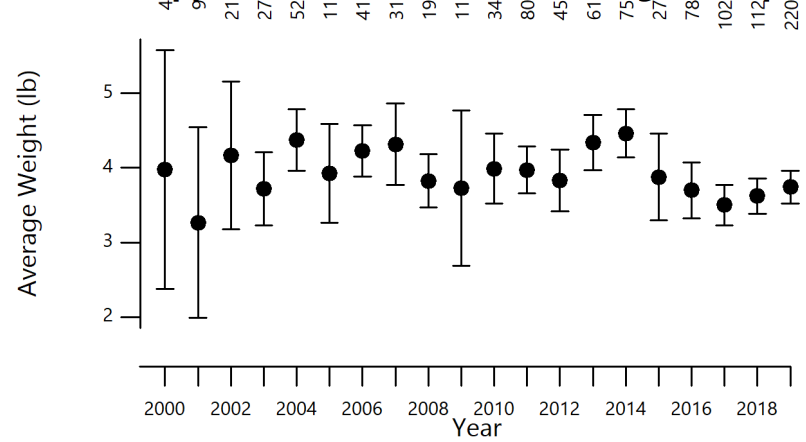




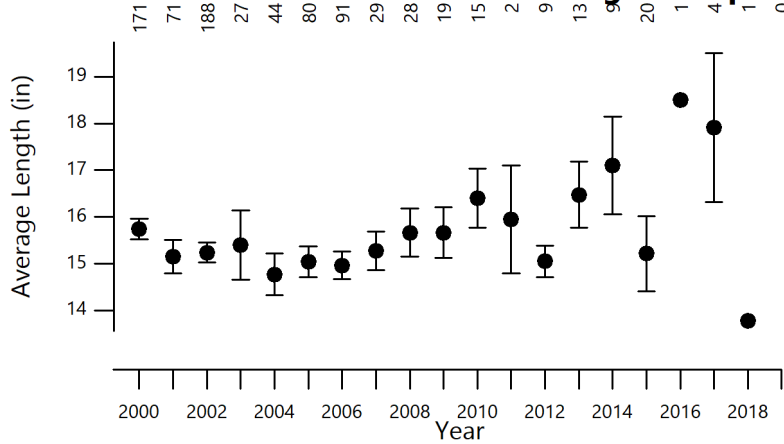
**Copper Rockfish Commercial Length Samples**



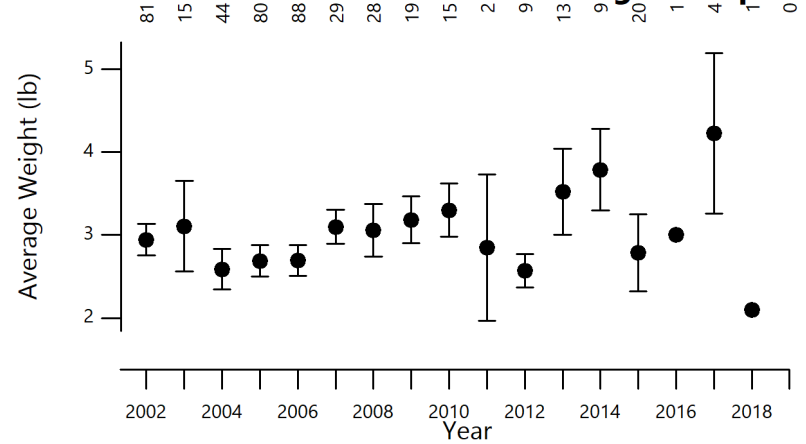
**Copper Rockfish Commercial Weight Samples**



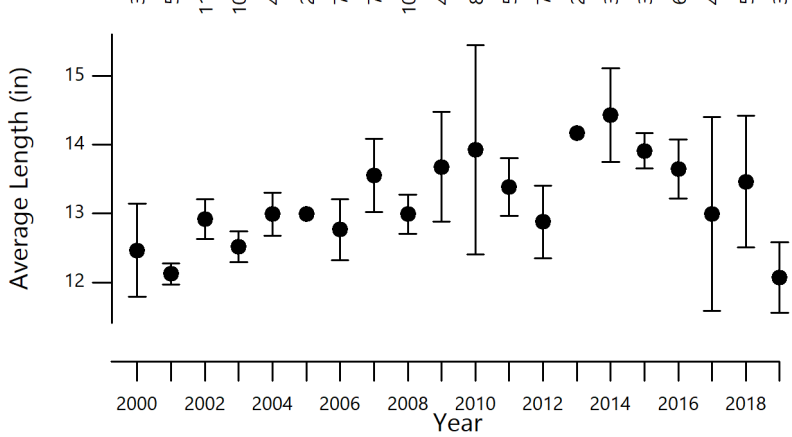
**Grass Rockfish Commercial Length Samples**



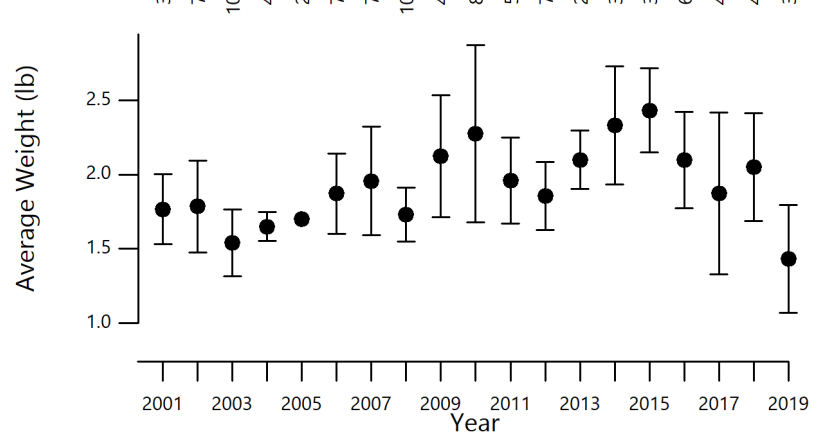
**Grass Rockfish Commercial Weight Samples**



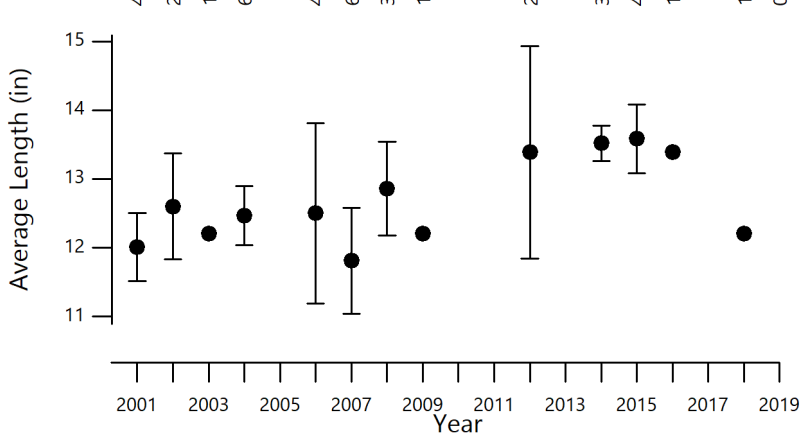
**Gopher Rockfish Commercial Length Samples**



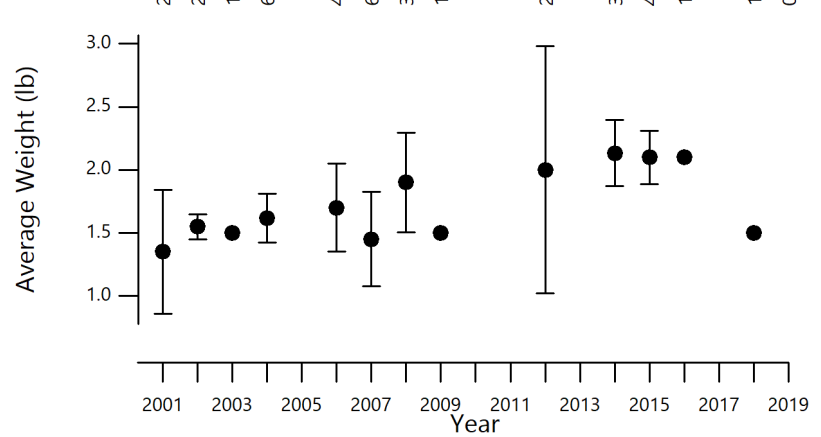
**Gopher Rockfish Commercial Weight Samples**

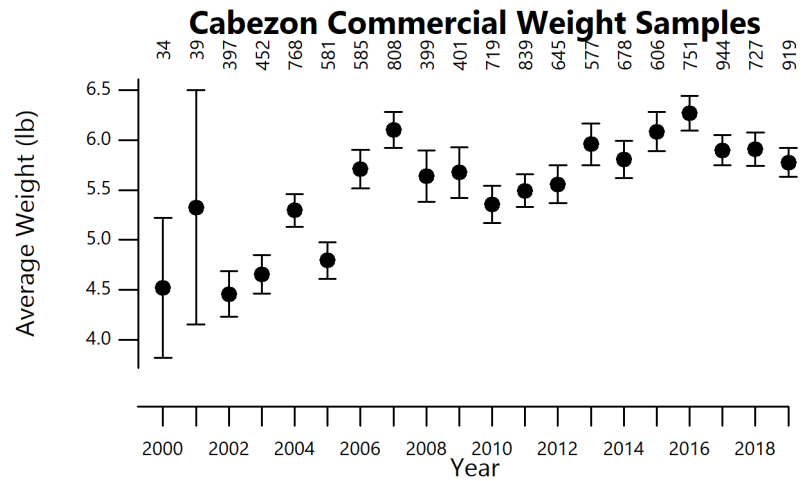
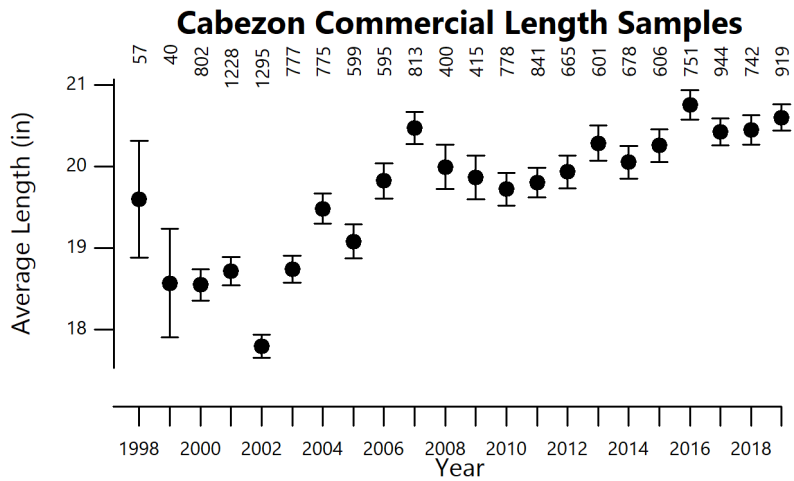
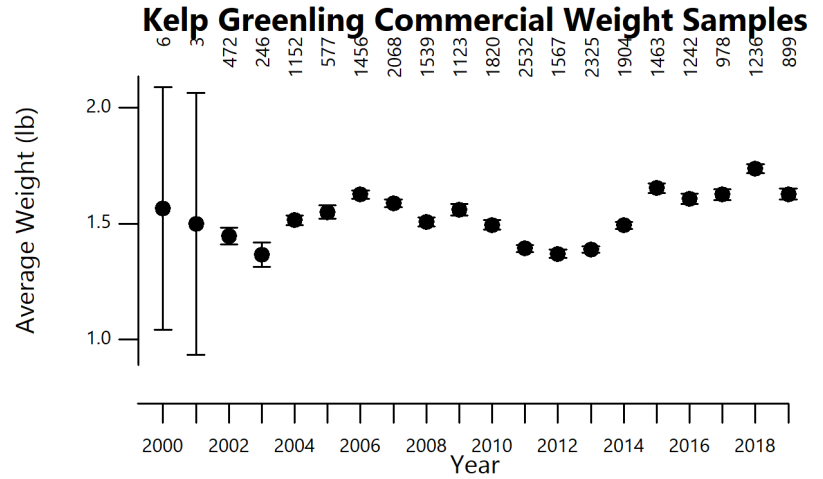
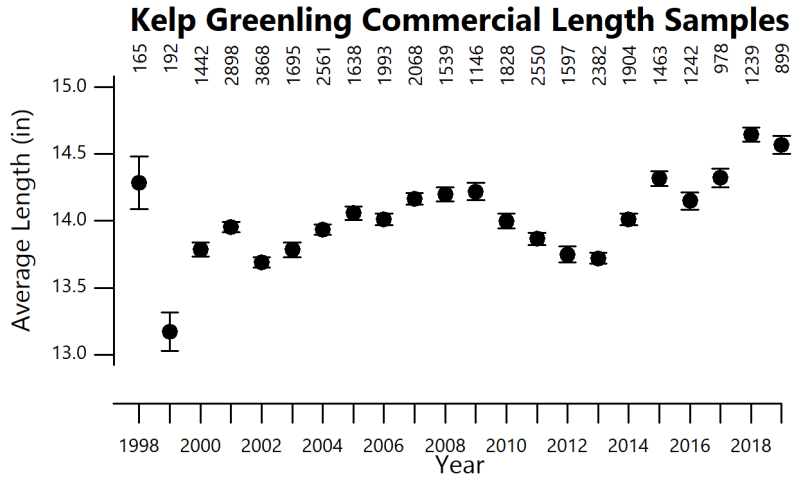


**Black & Yellow Rockfish Commercial Length Samples**

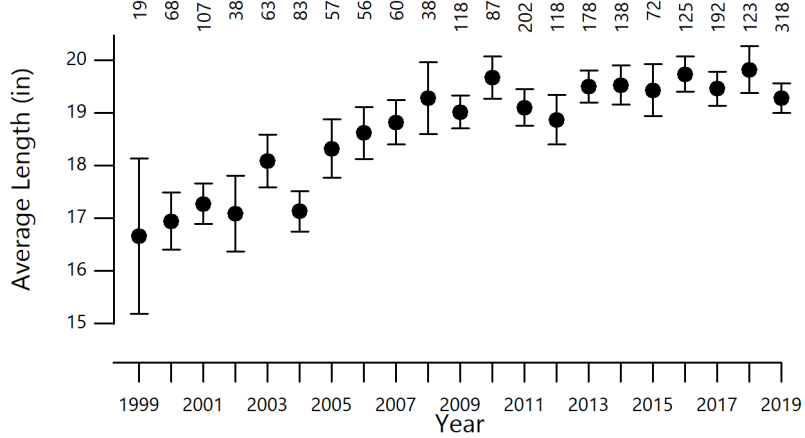


**Black & Yellow Rockfish Commercial Weight Samples**

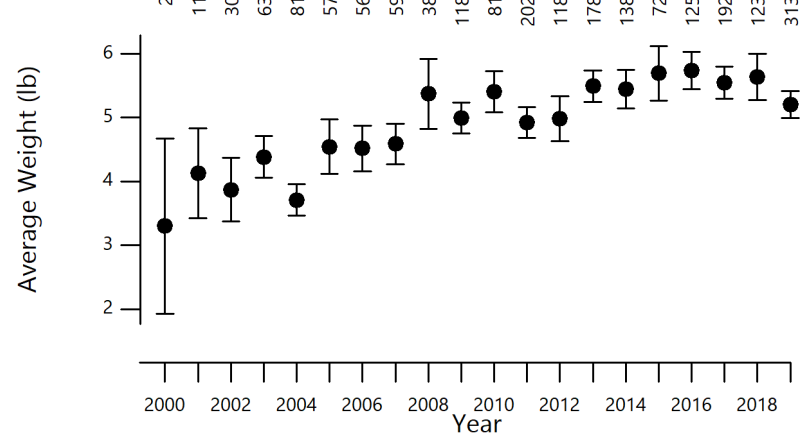




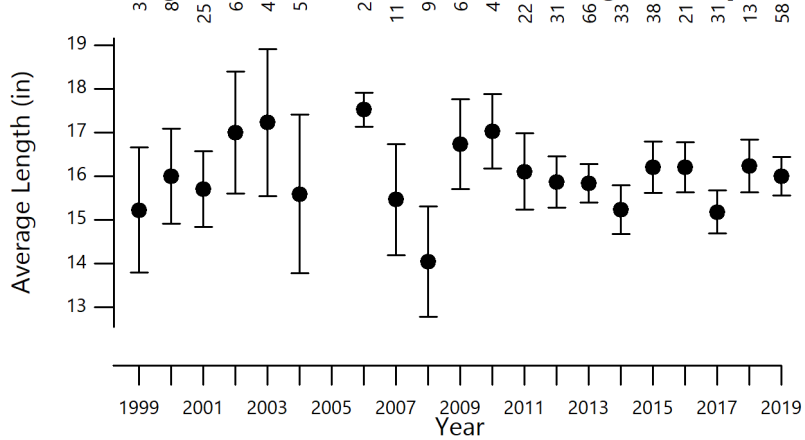
**Vermilion Rockfish Commercial Length Samples**



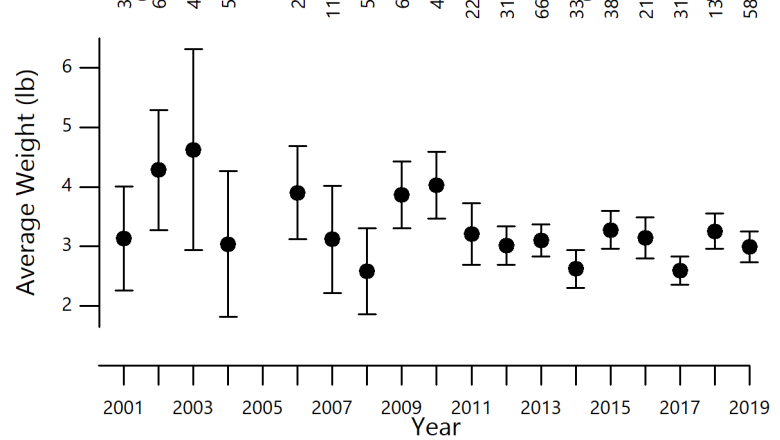
**Vermilion Rockfish Commercial Weight Samples**



**Tiger Rockfish Commercial Length Samples**

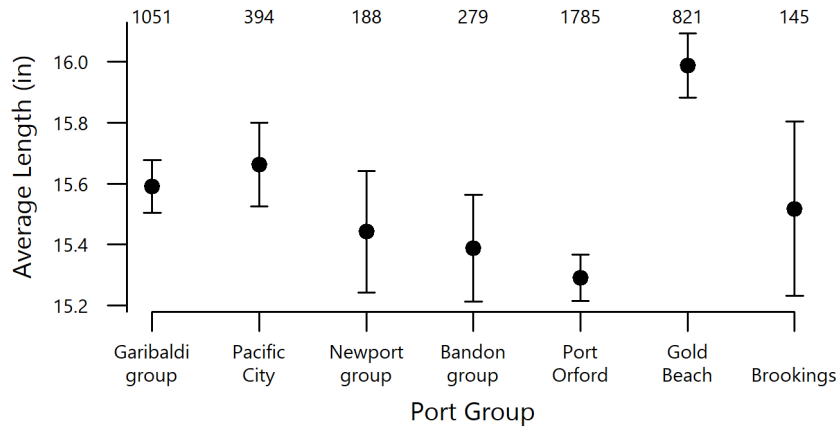


**Tiger Rockfish Commercial Weight Samples**

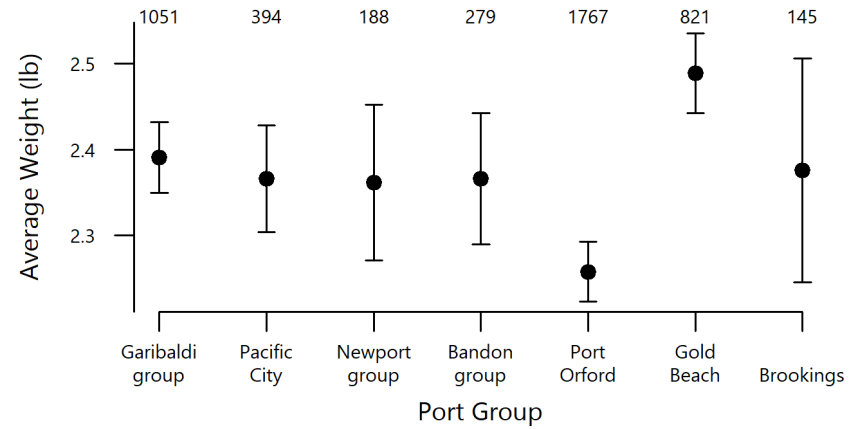


**Appendix D.** 2019 nearshore species commercial length and weight sample averages by port with sample sizes and 95% confidence intervals.

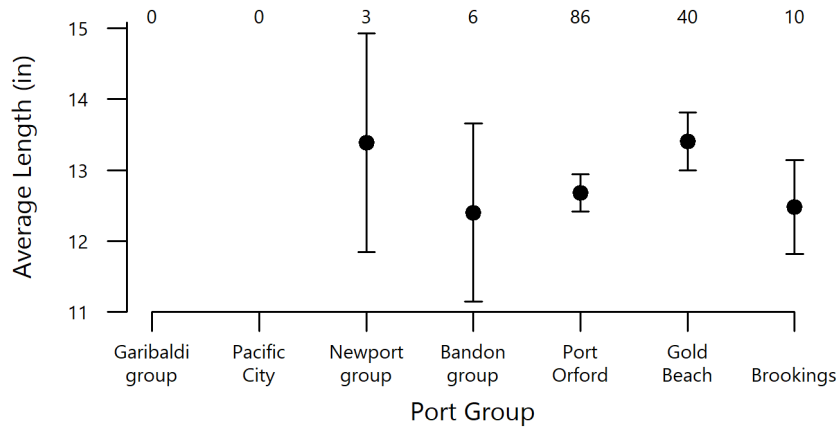
**2019 Black Rockfish Commercial Lengths by Port**



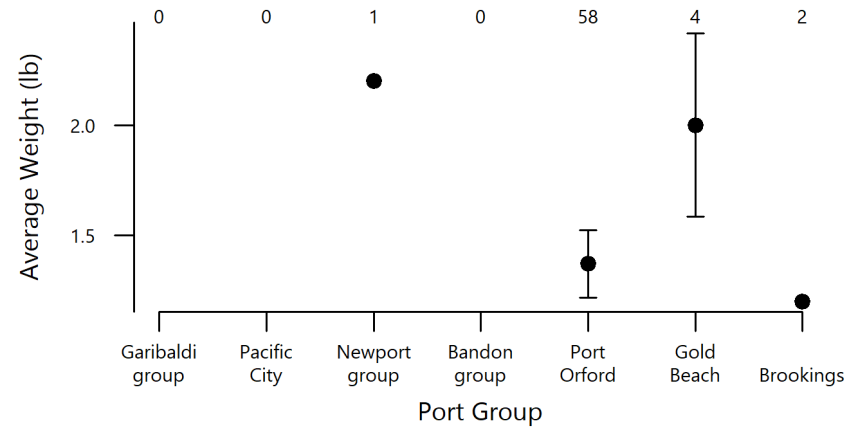
**2019 Black Rockfish Commercial Weights by Port**



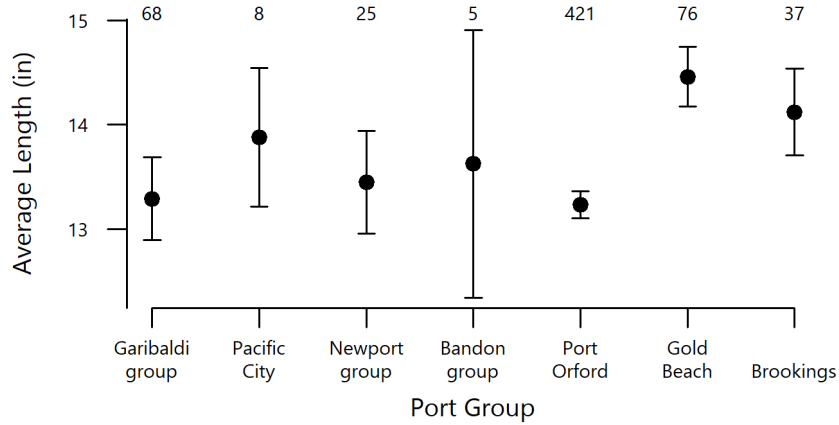
**2019 Blue Rockfish Commercial Lengths by Port**



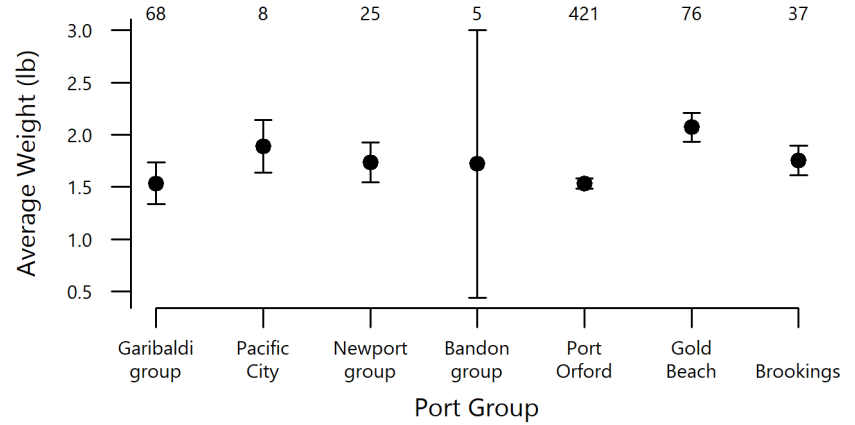
**2019 Blue Rockfish Commercial Weights by Port**



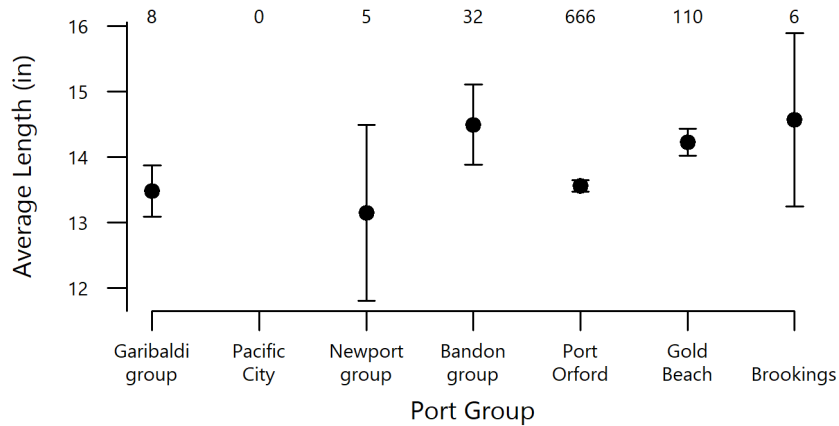
**2019 Deacon Rockfish Commercial Lengths by Port**



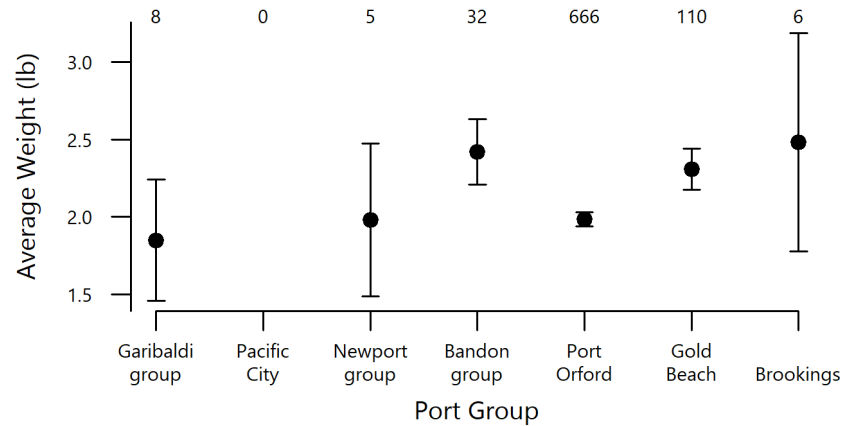
**2019 Deacon Rockfish Commercial Weights by Port**



**2019 China Rockfish Commercial Lengths by Port**

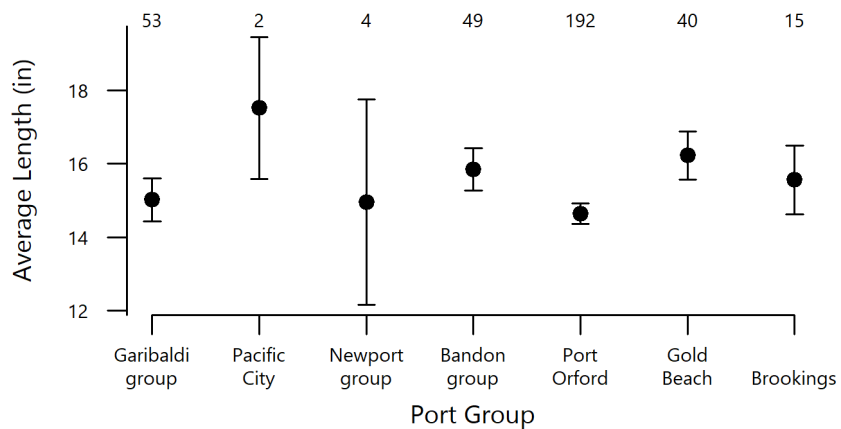


**2019 China Rockfish Commercial Weights by Port**

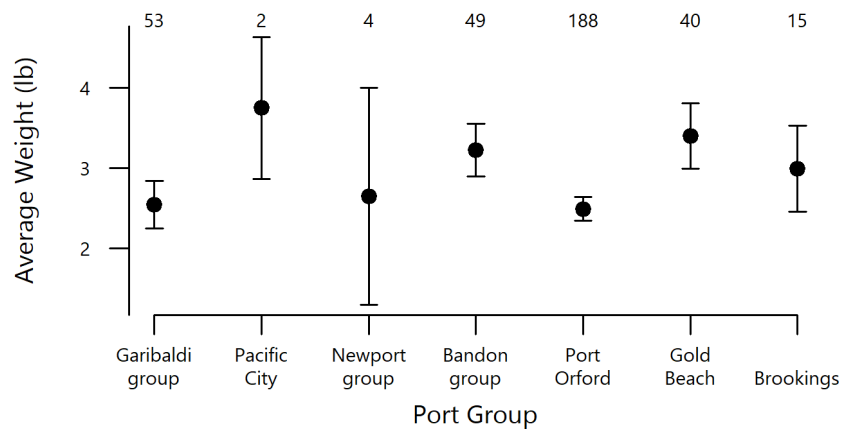




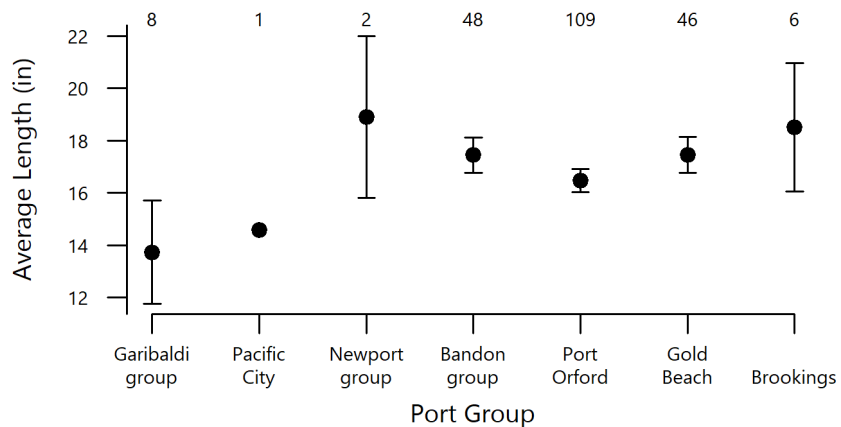
**2019 Quillback Rockfish Commercial Lengths by Port**



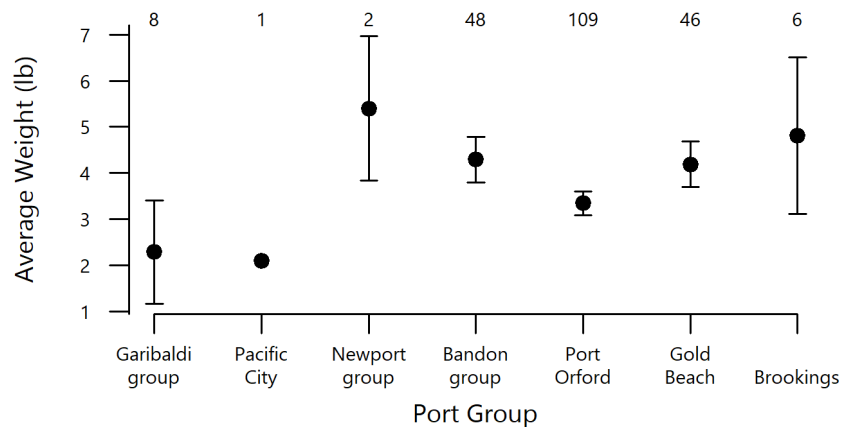
**2019 Quillback Rockfish Commercial Weights by Port**



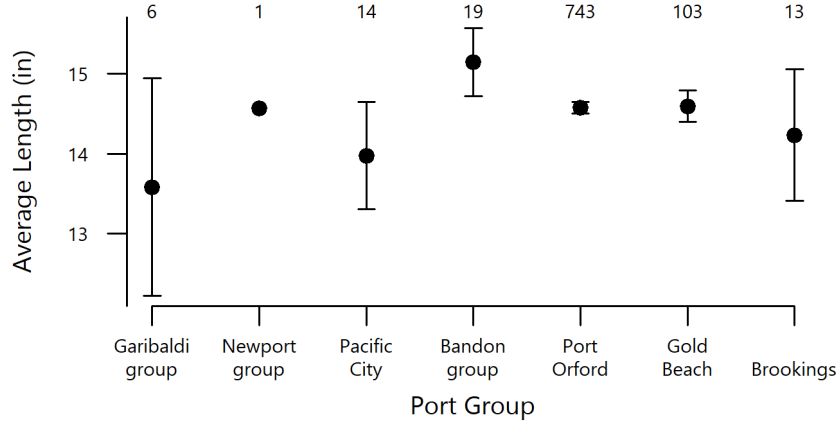
**2019 Copper Rockfish Commercial Lengths by Port**



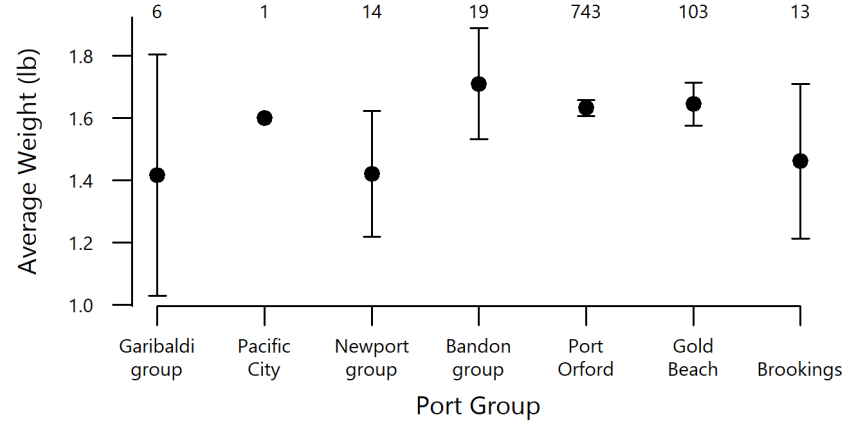
**2019 Copper Rockfish Commercial Weights by Port**



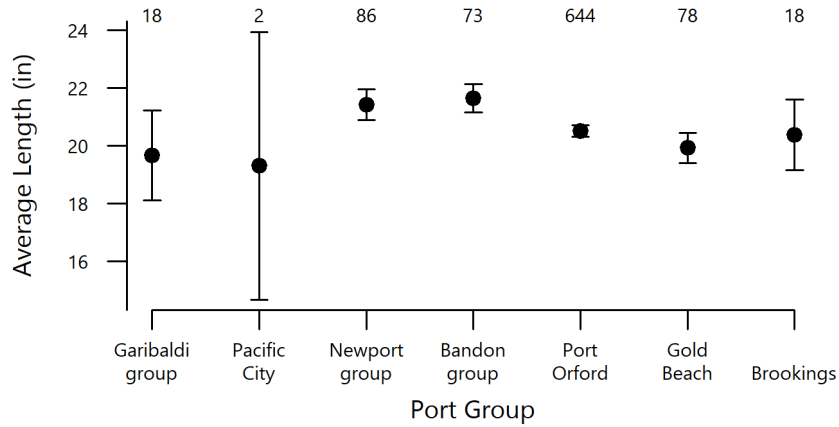
**2019 Kelp Greenling Commercial Lengths by Port**



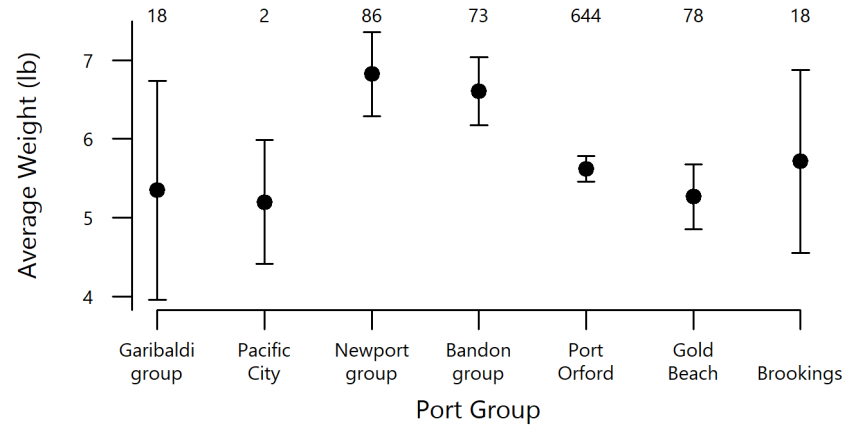
**2019 Kelp Greenling Commercial Weights by Port**



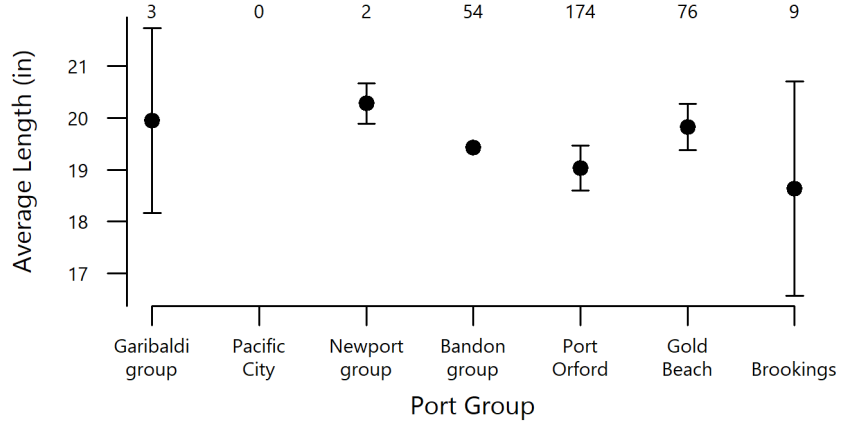
**2019 Cabezon Commercial Lengths by Port**



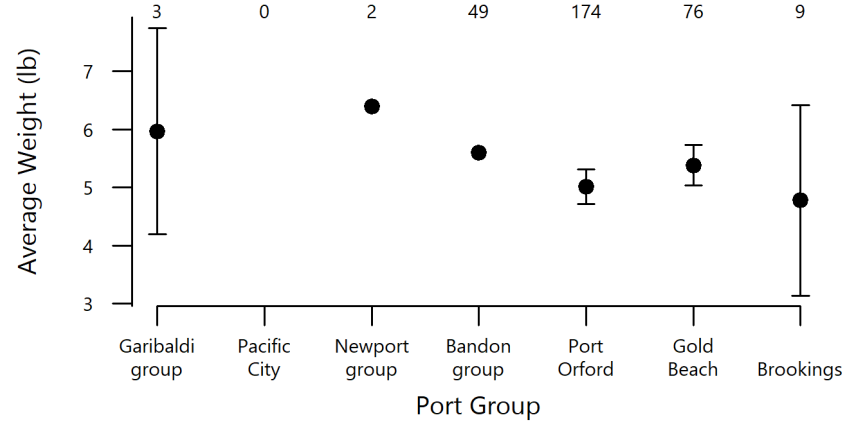
**2019 Cabezon Commercial Weights by Port**



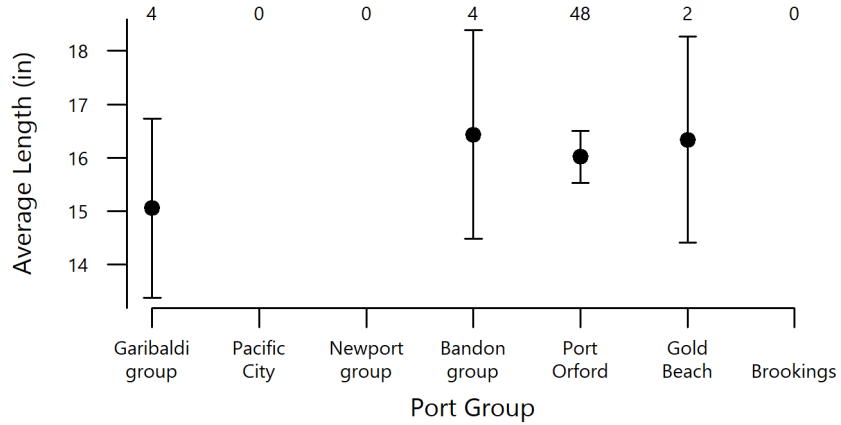
**2019 Vermilion Rockfish Commercial Lengths by Port**



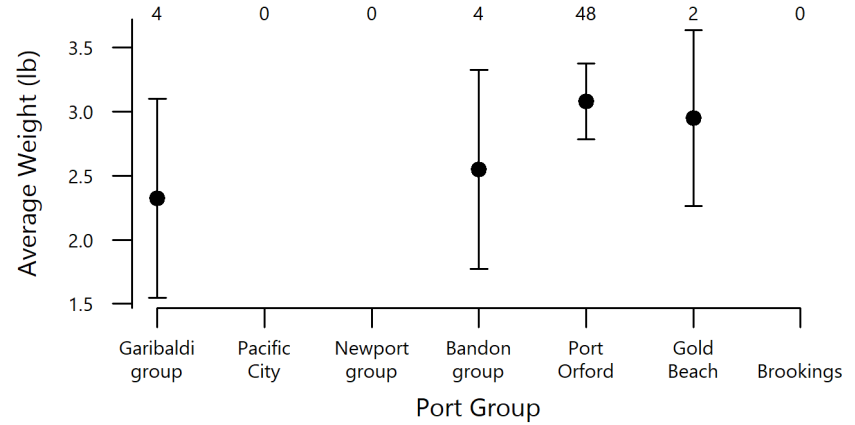
**2019 Vermilion Rockfish Commercial Weights by Port**



**2019 Tiger Rockfish Commercial Lengths by Port**

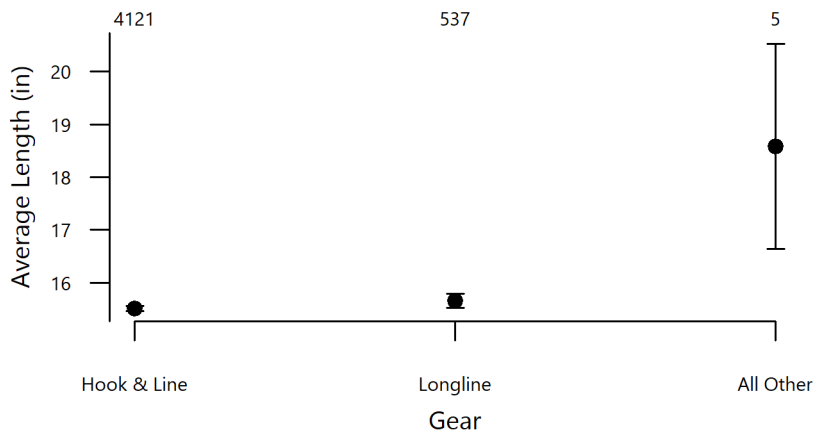


**2019 Tiger Rockfish Commercial Weights by Port**

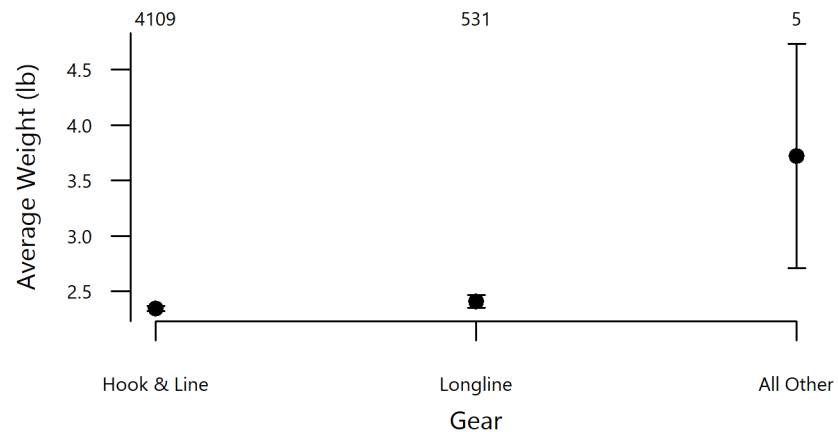


**Appendix E.** 2019 nearshore species commercial length and weight sample averages by gear with sample sizes (top) and 95% confidence intervals.

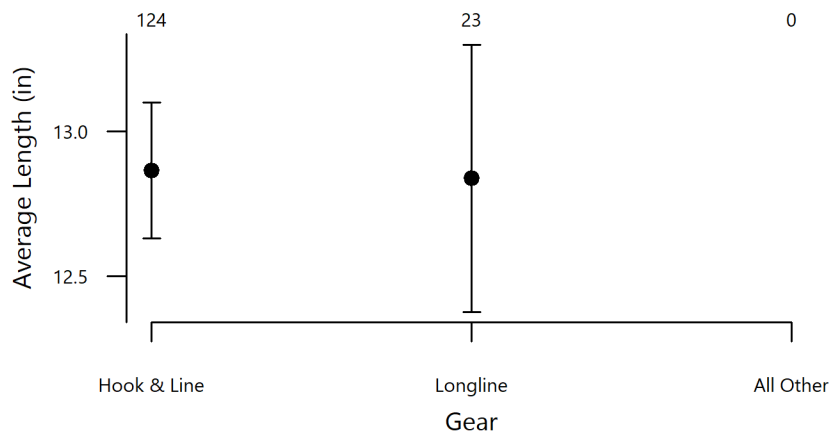
**2019 Black Rockfish Commercial Lengths by Gear Type**



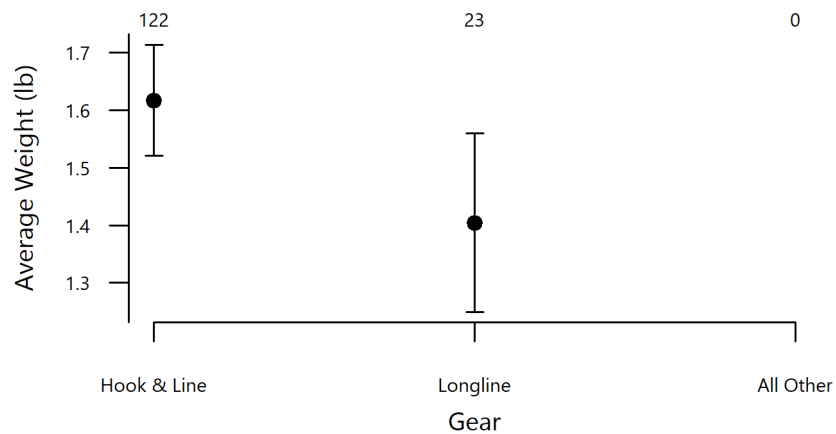
**2019 Black Rockfish Commercial Weights by Gear Type**

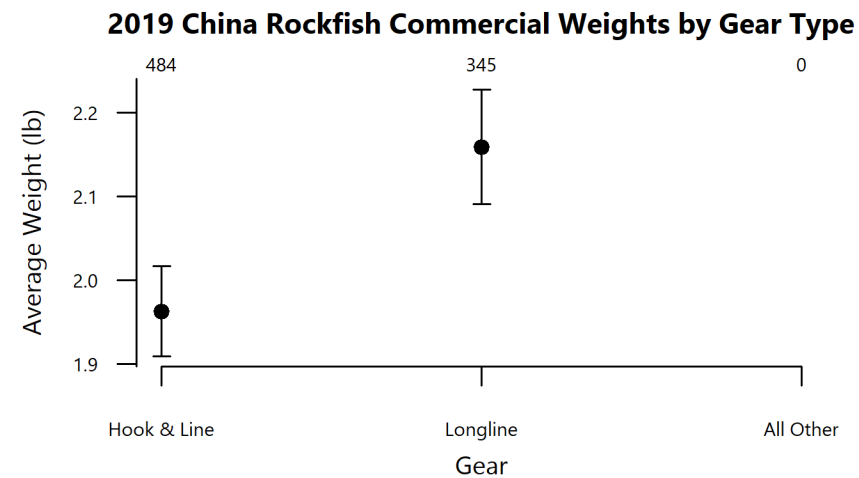
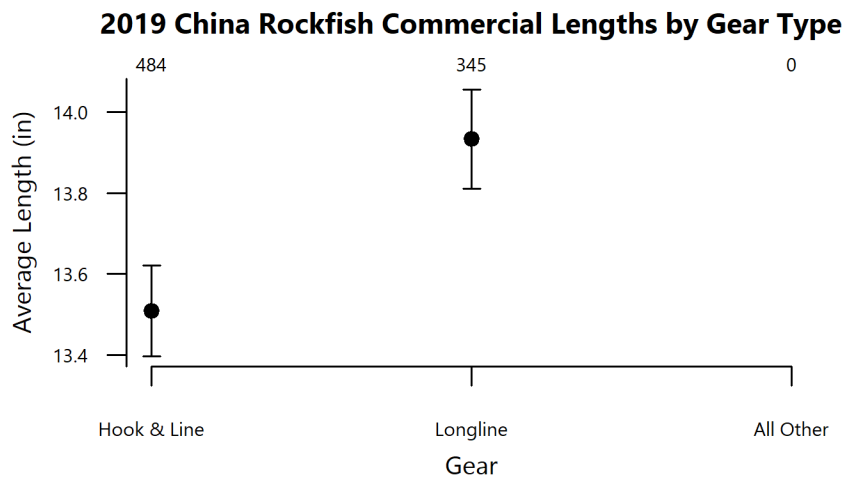
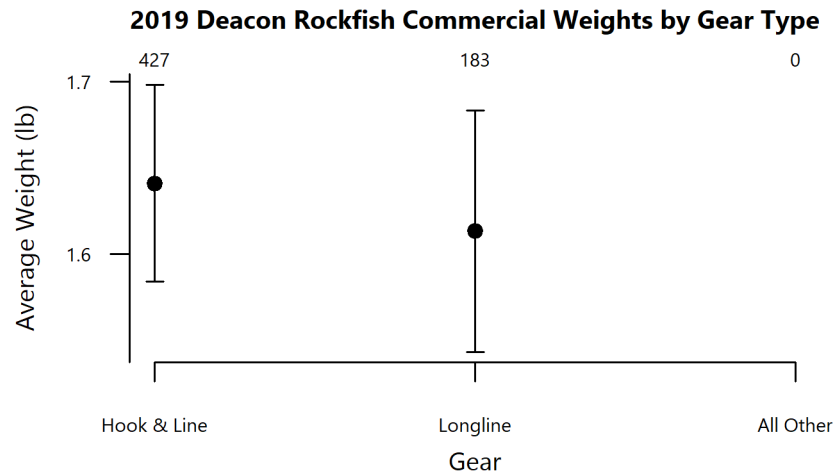
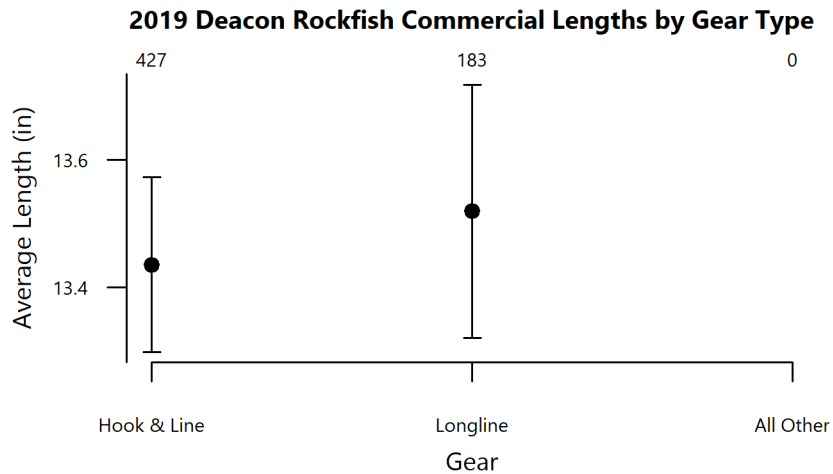


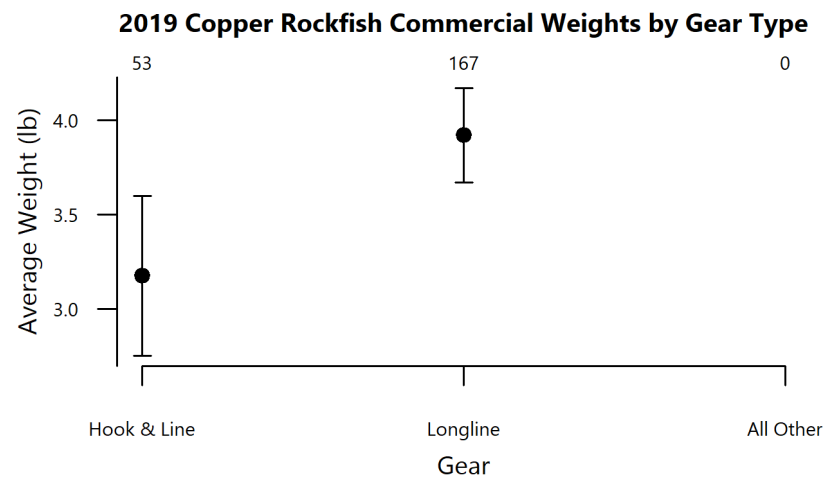
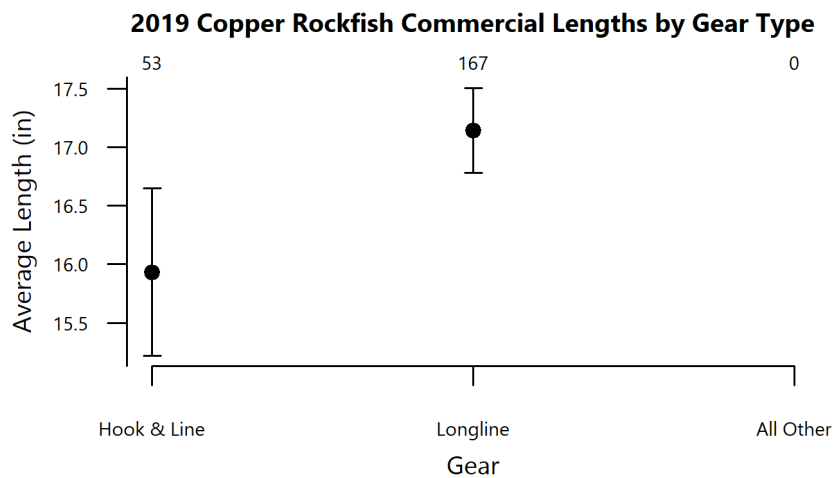
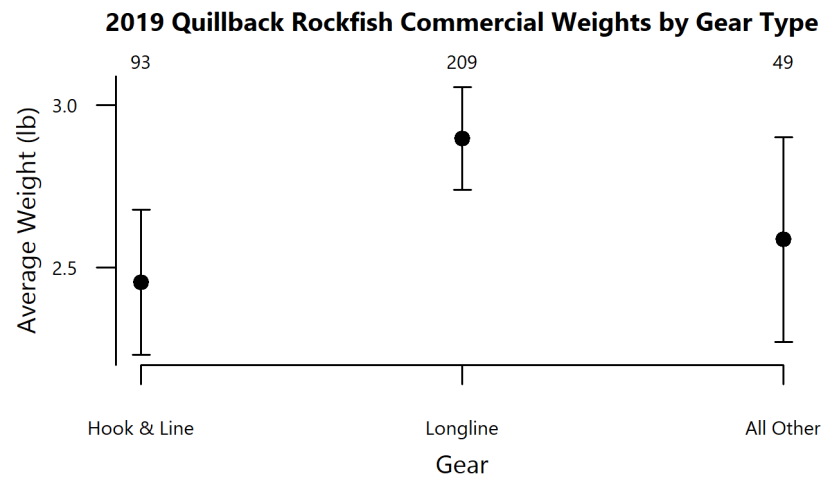
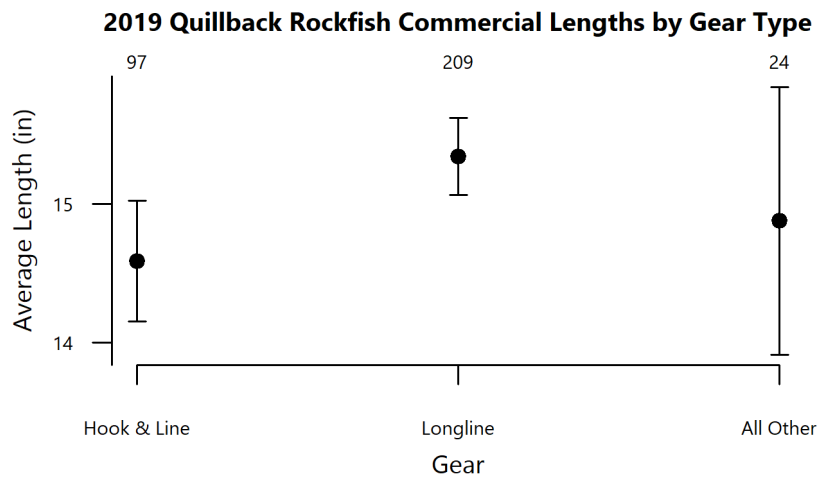
**2019 Blue Rockfish Commercial Lengths by Gear Type**



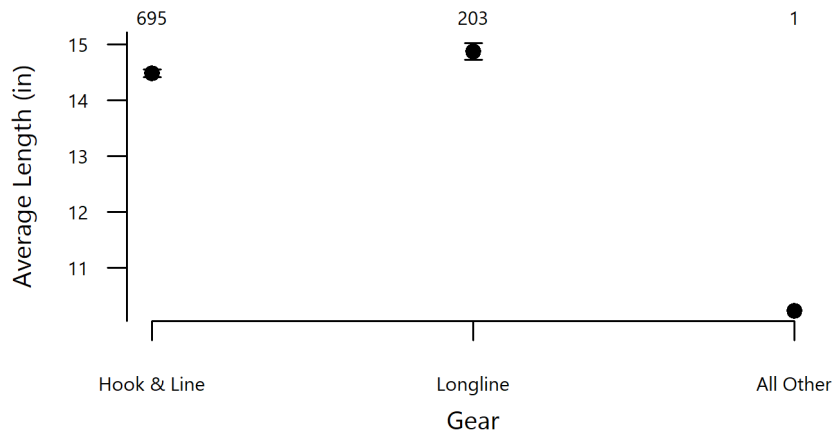
**2019 Blue Rockfish Commercial Weights by Gear Type**



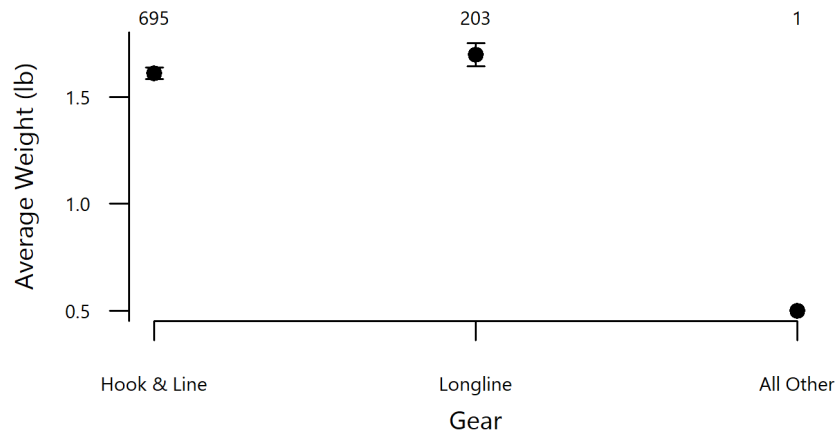




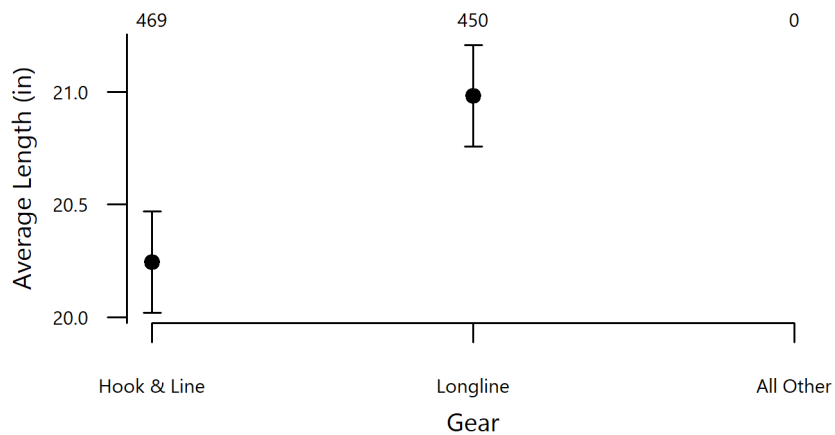
**2019 Kelp Greenling Commercial Lengths by Gear Type**



**2019 Kelp Greenling Commercial Weights by Gear Type**



**2019 Cabezon Commercial Lengths by Gear Type**



**2019 Cabezon Commercial Weights by Gear Type**

