

2017

The Oregon Commercial Nearshore Fishery Data Update



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Photo: ODFW's Research Lander

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Background

This document updates the 2016 Commercial Nearshore Fishery Summary (Rodomsy and Calavan 2016) with data and management details from 2017. 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: <https://www.dfw.state.or.us/MRP/publications/>.

Oregon's nearshore waters support a limited-entry commercial fishery that targets rocky reef associated groundfish species. Summarized here is information from the 2017 commercial nearshore fishery including management goals, harvest specifications, fishing effort, landed poundage, ex-vessel value, fishery-dependent biological data, and compliance with the commercial nearshore logbook requirement. Also included is a brief narrative on 2017 fishery management. 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.

The commercial nearshore fishery first developed as an open access fishery in the early 1990's and transitioned to a State limited-entry permit system in 2004. The commercial nearshore fleet is composed of small vessels, averaging 25 ft., that target shallow (< 180 ft.) nearshore rocky reefs. Vessels use mostly hook & line jig or bottom longline fishing gear, but fish pots may also be utilized if a Developmental Fisheries Permit for nearshore species for this gear type was issued in 2003. A variety of groundfish species are harvested and managed in this fishery including Black Rockfish, Blue Rockfish, Deacon Rockfish and the 21 "nearshore species" (Table 1) defined in Oregon Revised Statutes and Oregon Administrative Rules (OARs). These species are managed in six State management groups: Black Rockfish, Blue and Deacon Rockfish, Other Nearshore Rockfish, Greenling, Cabezon, and Other Nearshore Species.

The Oregon Fish and Wildlife Commission (Commission) adopts rules for this fishery at Commission meetings. Many but not all of the species in these groups are also included in the federal Pacific Coast Groundfish Fishery Management Plan (GFMP) and are subject to federal fishery regulations. The Commission has the authority to adopt concurrent or more conservative rules, but not more liberal regulations for species included in the GFMP. In practice, federal regulations primarily set Annual Catch Limits (ACLs) for groundfish species or management groups, while the Commission adopts regulations intended to maintain total fishery mortality (harvest and discard) within the federal limits.

Rules adopted by the Commission are implemented by the Oregon Department of Fish and Wildlife (Department) and are found on the Department website in Divisions 004 and 006 at <http://dfw.state.or.us/OARs/oars.asp#Fish>. They include annual harvest guidelines (Appendix A), cumulative bimonthly trip limits (hereafter, bimonthly limits; Appendix B), daily trip limits, incidental landing limits and fish minimum length limits. A daily trip limit for commercial harvest of Black Rockfish of 300 pounds is also in effect in specific geographic areas where extensive recreational harvest occurs (Figure 1).

Two separate permit types exist for Oregon's limited-entry commercial nearshore fishery. These two permits allow access to different harvest allocations. The first permit type, the Black and Blue Rockfish permit, allows for the harvest of Black and Blue Rockfishes in amounts up to the bimonthly limits set by the Commission for those State management groups (Appendix B), while allowing for only incidental harvest of the daily trip limit of 15 pounds per day of all other nearshore fish species, combined. The second permit type, the Black and Blue Rockfish permit with a Nearshore Endorsement, allows for harvest up to the maximum bimonthly limits specified by the Commission for Black and Blue Rockfishes, Other Nearshore Rockfish, Greenling, and Cabezon. The nearshore endorsement is also required to catch the federal monthly landing limit of Tiger and Vermilion Rockfishes, both of which are on Oregon's nearshore species list.

Ordered from most to least pounds landed, fishers in this fishery harvest primarily Black Rockfish, Cabezon, Kelp Greenling, China Rockfish, Blue Rockfish, Vermilion Rockfish, Quillback Rockfish, and Copper Rockfish. The remaining nearshore species (Table 1) make up a very small portion of the catch. Lingcod (*Ophiodon elongatus*) is also frequently landed by vessels participating in this fishery and this species is included in the federal GFMP. However, Lingcod is not included on Oregon's nearshore species list, and is not managed under the State limited-entry permit system. Little information on commercial Lingcod harvest is included in this report.

Each fishing "season" consists of the calendar year with boats fishing year-round as weather and quotas allow. A small amount of nearshore species are harvested as incidental catch in other fisheries. These other fisheries use primarily troll or trawl gear. Fish caught in the commercial nearshore fishery supply both live and fresh (dead) fish markets, though the live fishery largely occurs on the southern Oregon coast. Oregon's commercial nearshore fishery has a diverse group of participants; many fishers participate in several fisheries, others solely participate in this fishery.

Fishery Management and Harvest Specification Updates

Fishery managers from the Oregon Department of Fish and Wildlife (Department) set specific management goals at the outset of 2017 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 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 (Commission) when regulations are adopted. Largely based on public input, the primary goal for 2017 was to provide fishing opportunities throughout the calendar year without exceeding State annual commercial harvest guidelines or allowable impacts to Yelloweye Rockfish (*Sebastes ruberrimus*), a stock that is rebuilding after being declared overfished.

Commercial harvest guidelines are specified numerical harvest limits that are not quotas but serve to control fleet impacts in the fishery. The attainment of a harvest guideline does not necessarily cap impacts to the fishery. 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 federal Annual Catch Limits (ACL), a harvest allocation derived from a stock assessment, among Oregon's commercial and recreational sectors based on historical catch. For 2017, the State adopted commercial harvest guidelines for Black Rockfish, Greenling, Cabezon and Other Nearshore/Blue/Deacon Rockfish

combined. Harvest guidelines were implemented to provide flexibility in management under the reduced Minor Nearshore Rockfish ACL without exceeding the catch limit.

Commercial harvest guidelines for 2017 are listed in Table 2. Fishery quotas from 2016 and prior are in Appendix A. No harvest guideline exists for Other Nearshore Species though daily trip limits apply. In general, harvest allocations remain unchanged unless new information, such as a stock assessment, suggests harvest levels should be adjusted. State commercial harvest guidelines for 2017 Black Rockfish, Blue/Deacon/Other Nearshore Rockfish and Greenling management groups were set based off information from 2015 stock assessments. The Black Rockfish harvest guideline dropped ~10% due to the latest assessment model reducing the overall scale of the stock's biomass. The 2017 harvest guideline for Blue/Deacon/Other Nearshore Rockfish rose 25% due to the increased China Rockfish contribution from the 2015 assessment. The Greenling harvest guideline likewise increased 625% due to an optimistic assessment. Discard mortality for this fishery was quantified by the Federal West Coast Groundfish Observer Program and summarized in National Oceanic and Atmospheric Administration Fisheries annual reports. Oregon's Blue and Deacon Rockfish stocks were assessed in 2017 (Dick *et al.* 2017) for the first time in a single benchmark model. Harvest allocations from that model were higher than current levels and those new allocations will be implemented in the fishery in 2019 regulations.

The Department implements six bimonthly periods (Table 3) for which bimonthly trip limits for species management groups are set for individual vessels (Table 4; Figures 2 - 6; Appendix B). Bimonthly limits facilitate management of commercial harvest relative to harvest guidelines and are intended to balance the tradeoff of early attainment and fishery closure with providing year-round fishery access. Initial bimonthly limits for 2017 were set higher than initial 2016 levels for all species groups. Bimonthly trip limits were increased (Table 4; Appendix B) to encourage opportunity for attaining a larger percent of these harvest guidelines which were significantly under attainment in 2016.

Public input regarding bimonthly limits and other management measures for 2017 was sought both at the annual commercial nearshore fishery meetings held in September 2016 and at the December 2016 Commission meeting. Based on input from both meetings and recommendations from the Department, the Commission adopted annual harvest guidelines, bimonthly limits, and other fishery regulations for 2017 at the December 2016 Commission meeting. The bimonthly limits put into effect at the outset of 2017 were intended to require few or no in-season changes and to provide predictable bimonthly limits, season lengths, and market supply.

Bimonthly limits can be adjusted up or down, in season, to allow greater opportunity for reaching harvest guidelines or to slow harvest to stay within harvest guidelines. In 2017, bimonthly limits were raised in-season for only Black Rockfish in periods 4-6. No bimonthly limits exist for the Other Nearshore Species group although federal limits exist and the State incidental daily trip limit for nearshore species applies.

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Tables

Table 1. Fish species on Oregon's nearshore species list, including the State commercial 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 serriiceps</i> |
| Greenling | Kelp Greenling | <i>Hexagrammos decagrammus</i> |
| | Rock Greenling | <i>Hexagrammos lagocephalus</i> |
| | Whitespotted Greenling | <i>Hexagrammos stelleri</i> |
| | Painted Greenling | <i>Oxylebius pictus</i> |
| 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, mt) for State management groups for 2017.

| Black Rockfish | Blue, Deacon, & Other Nearshore Rockfish, combined | Cabazon | Greenling | Other Nearshore Species |
|-----------------------|---|----------------|------------------|--------------------------------|
| 126.3 | 13.0 | 30.2 | 169.9 | N/A |

Table 3. Bimonthly cumulative period durations.

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

Table 4. Bimonthly trip limits from commercial nearshore State management groups at the outset of 2017. In-season management changes are depicted in *italics*.

| Management Group | Period(s) | 2017 Outset Limit - pounds (<i>in-season change</i>) |
|--------------------------|------------------|---|
| Black Rockfish | 1 | 1,200 |
| | 2 | 1,500 |
| | 3 | 1,800 |
| | 4 | 1,800 (<i>2,400</i>) |
| | 5 | 1,500 (<i>2,100</i>) |
| | 6 | 1,200 (<i>1,800</i>) |
| Blue & Deacon Rockfish | 1 - 6 | 300 |
| Other Nearshore Rockfish | 1 - 6 | 450 |
| Greenling | 1 - 6 | 600 |
| Cabazon | 1 - 6 | 2,000 |

Table 5. Summary of 2017 length samples (inches) from the Oregon commercial nearshore fishery.

| Species | Sample Size | Average Length (in) | Range | 95% C.I. (±) |
|--------------------|--------------------|----------------------------|--------------|---------------------|
| Black Rockfish | 5,303 | 15.4 | 7.5 - 38.6 | 0.0 |
| Blue Rockfish | 45 | 13.3 | 10.2 - 29.1 | 0.9 |
| Brown Rockfish | 1 | 20.5 | 20.5 | N/A |
| Cabezon | 944 | 20.4 | 11.8 - 28.3 | 0.2 |
| China Rockfish | 442 | 13.7 | 11.0 - 16.5 | 0.1 |
| Copper Rockfish | 102 | 16.4 | 11.4 - 20.5 | 0.4 |
| Deacon Rockfish | 558 | 13.6 | 9.1 - 17.3 | 0.1 |
| Gopher Rockfish | 4 | 13.0 | 11.4 - 14.6 | 1.4 |
| Grass Rockfish | 4 | 17.9 | 15.7 - 19.7 | 1.6 |
| Kelp Greenling | 979 | 14.3 | 10.2 - 23.6 | 0.1 |
| Olive Rockfish | 3 | 15.5 | 14.6 - 16.5 | 1.1 |
| Quillback Rockfish | 215 | 14.9 | 8.7 - 18.9 | 0.3 |
| Tiger Rockfish | 31 | 15.2 | 12.6 - 17.7 | 0.5 |
| Vermilion Rockfish | 192 | 19.4 | 13.4 - 24.8 | 0.3 |

Table 6. Summary of 2017 weight samples (pounds) from the Oregon commercial nearshore fishery.

| Species | Sample Size | Average Weight (lbs) | Range | 95% C.I. (±) |
|--------------------|--------------------|-----------------------------|--------------|---------------------|
| Black Rockfish | 4,914 | 2.3 | 0.6 - 6.2 | 0.0 |
| Blue Rockfish | 45 | 1.8 | 0.7 - 3.3 | 0.2 |
| Brown Rockfish | 1 | 7.0 | 7.0 | N/A |
| Cabezon | 944 | 5.9 | 2.0 - 15.8 | 0.1 |
| China Rockfish | 441 | 2.2 | 1.0 - 3.9 | 0.1 |
| Copper Rockfish | 102 | 3.5 | 1.1 - 7.2 | 0.3 |
| Deacon Rockfish | 558 | 1.7 | 0.7 - 3.6 | 0.0 |
| Gopher Rockfish | 4 | 1.9 | 1.3 - 2.4 | 0.5 |
| Grass Rockfish | 4 | 4.2 | 3.0 - 5.4 | 1.0 |
| Kelp Greenling | 979 | 1.6 | 0.5 - 2.9 | 0.0 |
| Olive Rockfish | 3 | 2.1 | 1.9 - 2.4 | 0.3 |
| Quillback Rockfish | 215 | 2.7 | 0.4 - 5.7 | 0.2 |
| Tiger Rockfish | 31 | 2.6 | 1.3 - 3.7 | 0.2 |
| Vermilion Rockfish | 192 | 5.5 | 1.9 - 10.0 | 0.3 |

Table 7. 2017 logbook program compliance by port group including open access lingcod trip logs.

| Port | Trips Fished | Trips with no Log | Compliance |
|-----------------|---------------------|--------------------------|-------------------|
| Garibaldi group | 244 | 16 | 93.4% |
| Pacific City | 268 | 16 | 94.0% |
| Newport group | 190 | 22 | 88.4% |
| Bandon group | 209 | 16 | 92.3% |
| Port Orford | 777 | 196 | 74.8% |
| Gold Beach | 266 | 9 | 96.6% |
| Brookings | 236 | 3 | 98.7% |
| Total | 2,190 | 278 | 87.3% |

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

| Species | Period 1 | | Period 2 | | Period 3 | | Period 4 | | Period 5 | | Period 6 | | Annual Totals | |
|-----------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|---------------|--------|
| | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. |
| Big Skate | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 |
| Black-and-Yellow RF | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 1 | 1 | 0 | 3 | 0 | 9 | 1 |
| Black RF | 11,378 | 566 | 30,442 | 947 | 74,557 | 2,230 | 84,110 | 1,100 | 39,765 | 639 | 27,823 | 226 | 268,075 | 5,708 |
| Blue & Deacon RF | 323 | 213 | 1,615 | 247 | 1,815 | 801 | 2,184 | 986 | 3,486 | 1,399 | 1,564 | 478 | 10,987 | 4,124 |
| Bocaccio | 0 | 0 | 0 | 0 | 134 | 0 | 227 | 0 | 181 | 0 | 0 | 0 | 542 | 0 |
| Buffalo Sculpin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Cabezon | 3,447 | 71 | 6,873 | 222 | 18,205 | 1,306 | 18,283 | 346 | 14,866 | 1,091 | 10,172 | 241 | 71,846 | 3,277 |
| Calico RF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Canary RF | 112 | 15 | 313 | 16 | 1,471 | 168 | 1,350 | 143 | 1,474 | 39 | 622 | 59 | 5,342 | 440 |
| China RF | 609 | 32 | 792 | 74 | 1,194 | 116 | 2,583 | 223 | 2,056 | 141 | 1,616 | 162 | 8,850 | 748 |
| Chinook Salmon | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 31 | 0 | 0 | 0 | 1 | 0 | 52 |
| Coho Salmon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 122 | 0 | 32 | 0 | 0 | 0 | 154 |
| Copper RF | 199 | 18 | 193 | 5 | 807 | 24 | 897 | 9 | 556 | 3 | 300 | 3 | 2,952 | 62 |
| Giant Pacific Octopus | 0 | 0 | 285 | 0 | 2,662 | 0 | 1,441 | 0 | 1,350 | 0 | 0 | 0 | 5,738 | 0 |
| Gopher RF | 8 | 0 | 2 | 0 | 2 | 0 | 29 | 0 | 11 | 0 | 16 | 0 | 68 | 0 |
| Grass RF | 5 | 0 | 19 | 0 | 26 | 0 | 37 | 0 | 63 | 0 | 4 | 0 | 154 | 0 |
| Greenspotted RF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 |
| Kelp Greenling | 2,358 | 44 | 2,721 | 80 | 4,836 | 104 | 4,685 | 93 | 2,589 | 104 | 4,360 | 114 | 21,549 | 539 |
| Lingcod | 5,399 | 4,108 | 8,090 | 7,433 | 58,552 | 5,985 | 49,851 | 4,532 | 37,372 | 2,490 | 21,541 | 6,676 | 180,805 | 31,224 |
| Longnose Skate | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 6 | 0 | 46 | 0 |
| Olive RF | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 16 | 0 |
| Pacific Halibut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 50 |
| Petrale Sole | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 2 | 3 |
| Quillback RF | 142 | 4 | 312 | 14 | 777 | 41 | 1,232 | 52 | 629 | 45 | 463 | 15 | 3,555 | 171 |
| Red Irish Lord | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 6 | 1 | 0 | 0 | 6 | 7 |
| RF (Other) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rock Sole | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| Table 8 cont. Species | Period 1 | | Period 2 | | Period 3 | | Period 4 | | Period 5 | | Period 6 | | Annual Totals | |
|--------------------------|----------|-------|----------|-------|----------|--------|----------|-------|----------|-------|----------|-------|---------------|--------|
| | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. | Ret. | Rel. |
| Sand Sole | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpins | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skates | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 |
| Starry Flounder | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tiger RF | 4 | 0 | 55 | 0 | 7 | 0 | 80 | 0 | 40 | 0 | 65 | 0 | 251 | 0 |
| Unknown Species | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermilion RF | 231 | 0 | 521 | 0 | 1,224 | 0 | 1,582 | 22 | 1,486 | 0 | 674 | 9 | 5,718 | 31 |
| Widow RF | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 14 | 0 | 1 | 0 | 22 | 0 |
| Wolf-Eel | 0 | 0 | 7 | 0 | 37 | 0 | 238 | 0 | 142 | 0 | 3 | 0 | 427 | 0 |
| Yelloweye RF | 0 | 4 | 0 | 0 | 0 | 77 | 6 | 310 | 0 | 114 | 0 | 26 | 6 | 531 |
| Yellowtail RF | 40 | 3 | 139 | 8 | 903 | 128 | 574 | 136 | 559 | 120 | 57 | 489 | 2,272 | 884 |
| Period Totals | 24,255 | 5,078 | 52,379 | 9,047 | 167,270 | 11,000 | 169,433 | 8,166 | 106,646 | 6,218 | 69,403 | 8,499 | 589,386 | 48,008 |

Table 9. Number of trips landing nearshore species, and landings in pounds for State management groups per bimonthly period in 2017. Periods with the highest totals are in *italics*.

| Period | Trip Count | Black Rockfish | Blue Rockfish | Other Nearshore Rockfish | Greenling | Cabezon | Other Nearshore Species |
|-----------------------|------------|----------------|---------------|--------------------------|--------------|---------------|-------------------------|
| 1 | 165 | 13,503 | 407 | 1,090 | 2,486 | 3,364 | 271 |
| 2 | 226 | 29,843 | 1,534 | 1,470 | 2,500 | 6,630 | 816 |
| 3 | 577 | 73,480 | 1,790 | 3,506 | <i>5,249</i> | 13,446 | 1,525 |
| 4 | <i>632</i> | <i>82,262</i> | 1,955 | <i>5,070</i> | 5,103 | <i>14,706</i> | 2,225 |
| 5 | 470 | 44,386 | <i>3,293</i> | 4,014 | 3,114 | 13,120 | 1,860 |
| 6 | 337 | 31,008 | 1,689 | 3,016 | 4,684 | 11,576 | 1,178 |
| Total | 2,407 | 274,482 | 10,668 | 18,166 | 23,136 | 62,842 | 7,875 |
| Attainment (%) | | 98.6 | | 100.6 | 6.2 | 94.4 | N/A |

The Oregon Commercial Nearshore Fishery Data Update: 2017

Table 10. Total pounds landed, total value, and average prices of live and fresh fish by species in 2017.

| Species | Live lbs. | Fresh lbs. | Live Value \$ | Fresh Value \$ | Avg. Live Price \$ | Avg. Fresh Price \$ |
|-------------------------|------------------|-------------------|----------------------|-----------------------|---------------------------|----------------------------|
| Black Rockfish | 143,000 | 131,335 | 343,122.00 | 225,599.47 | 2.40 | 1.72 |
| Blue & Deacon Rockfish | 979 | 9,689 | 3,158.50 | 14,455.27 | 3.23 | 1.49 |
| Cabezon | 58,490 | 4,338 | 196,179.15 | 6,490.05 | 3.35 | 1.50 |
| Greenling | 22,177 | 959 | 106,191.00 | 1,019.20 | 4.79 | 1.06 |
| Black & Yellow Rockfish | 7 | 2 | 47.50 | 3.00 | 6.79 | 1.50 |
| Brown Rockfish | 15 | 35 | 71.25 | 61.25 | 4.75 | 1.75 |
| China Rockfish | 8,231 | 1,337 | 56,206.80 | 2,070.83 | 6.83 | 1.55 |
| Copper Rockfish | 2,943 | 1,161 | 12,883.50 | 1,841.61 | 4.38 | 1.59 |
| Gopher Rockfish | 71 | 12 | 341.00 | 29.50 | 4.80 | 2.46 |
| Grass Rockfish | 120 | 51 | 826.25 | 143.25 | 6.89 | 2.81 |
| Olive Rockfish | 10 | 9 | 22.00 | 10.50 | 2.20 | 1.17 |
| Quillback Rockfish | 2,902 | 1,257 | 13,596.75 | 1,929.36 | 4.69 | 1.53 |
| Brown Irish Lord | 2 | N/A | 9.00 | N/A | 4.50 | N/A |
| Red Irish Lord | 3 | 8 | 9.00 | 32.00 | 3.00 | 4.00 |
| Tiger Rockfish | 346 | 274 | 1,689.25 | 429.00 | 4.88 | 1.57 |
| Vermilion Rockfish | 1,735 | 5,507 | 8,148.75 | 8,628.60 | 4.70 | 1.57 |

Figures

Oregon Black Rockfish Management Areas

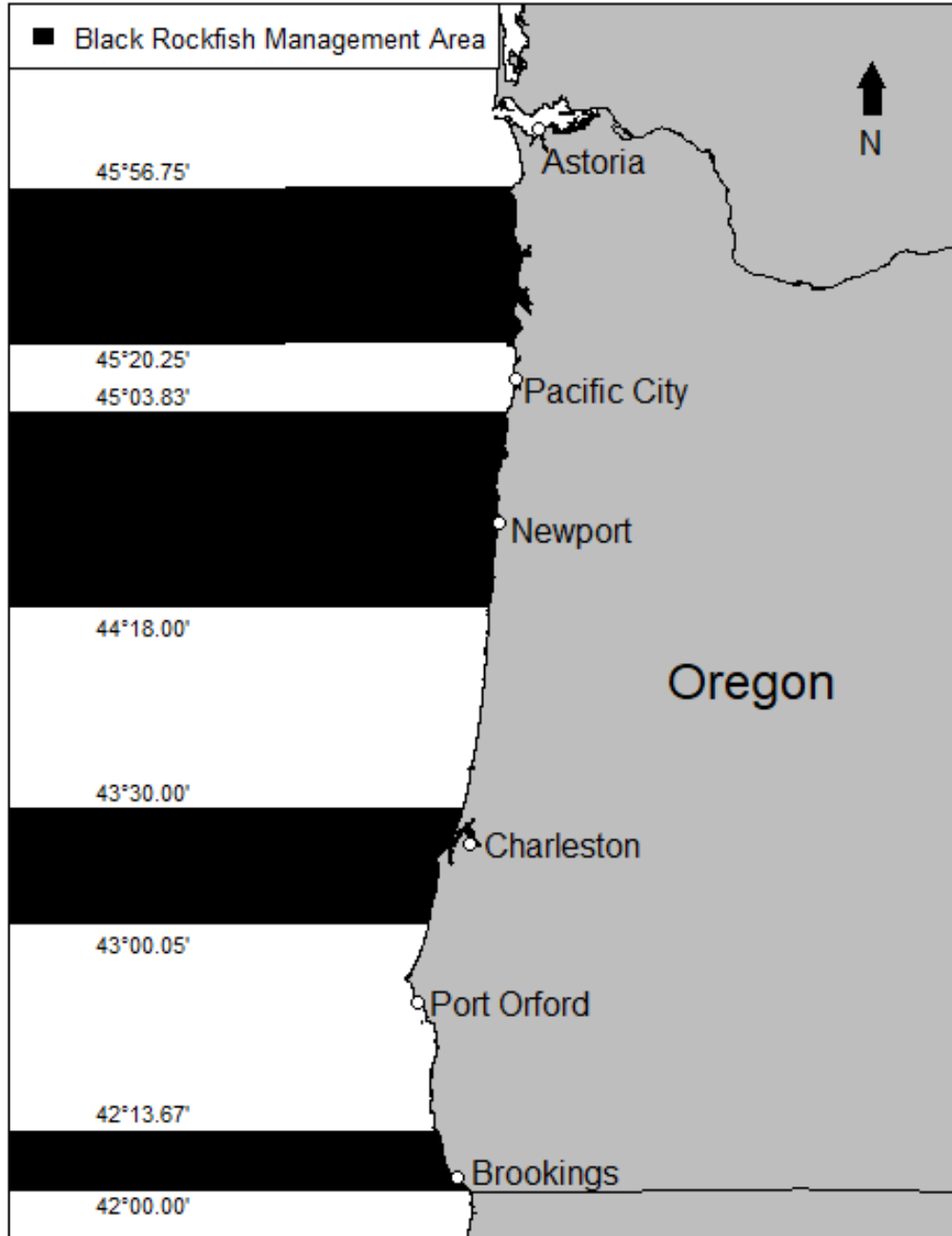


Figure 1. Black Rockfish Management Areas off Oregon.

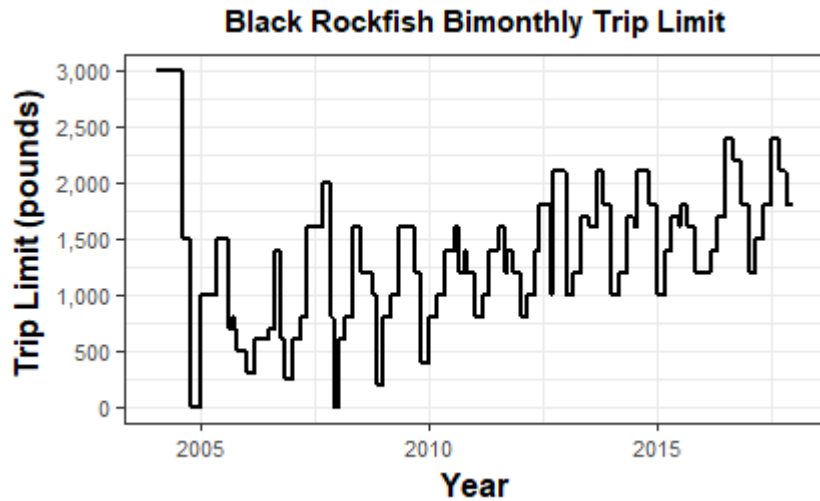


Figure 2. Black Rockfish bimonthly trip limit history. Daily trip limits of 15 lbs per day limited catch at the end of 2008 and 2009.

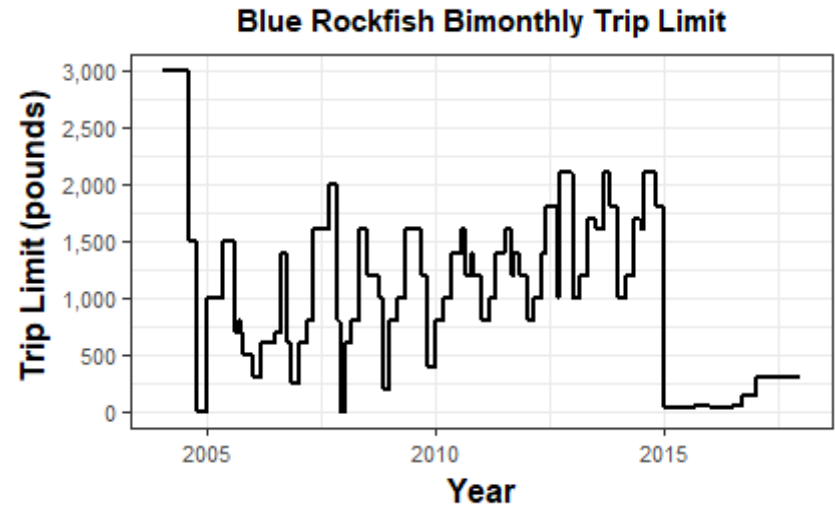


Figure 3. Blue Rockfish bimonthly trip limit history. Prior to 2015 this limit was a combined Black and Blue Rockfish trip limit.

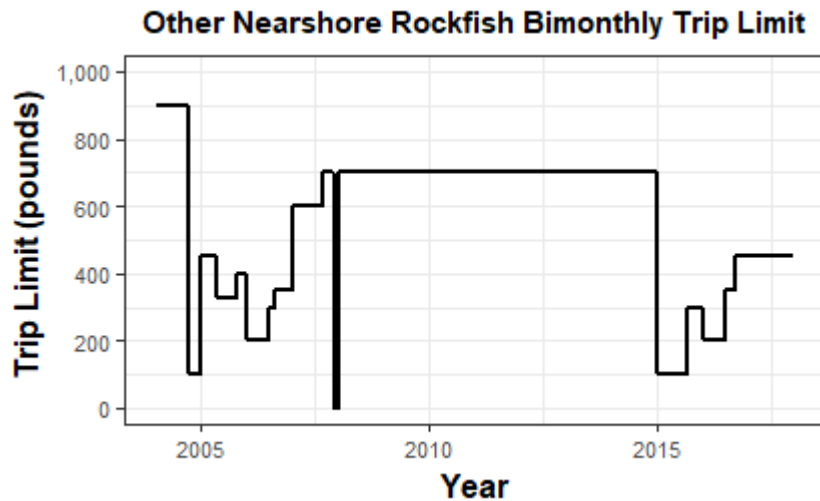


Figure 4. Other Nearshore Rockfish bimonthly trip limit history.

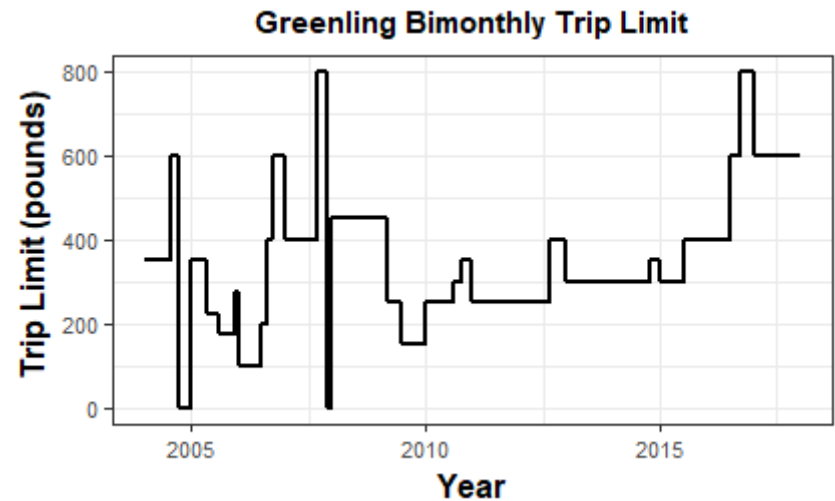


Figure 5. Greenling bimonthly trip limit history.

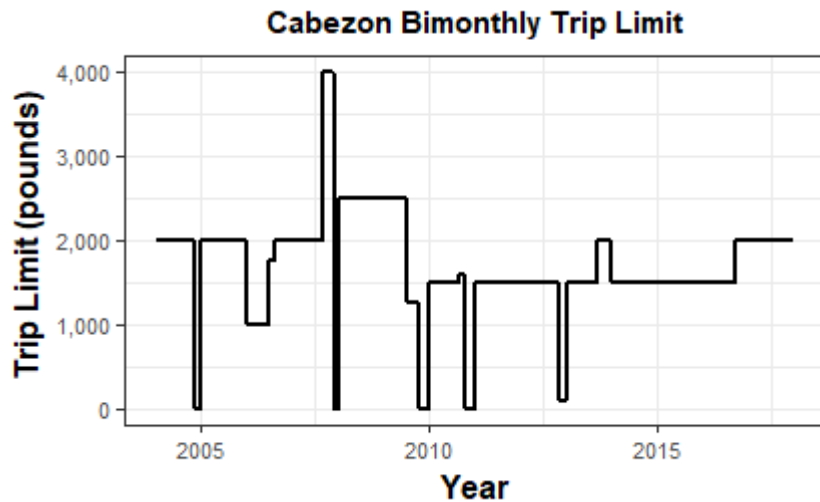


Figure 6. Cabezon bimonthly trip limit history.

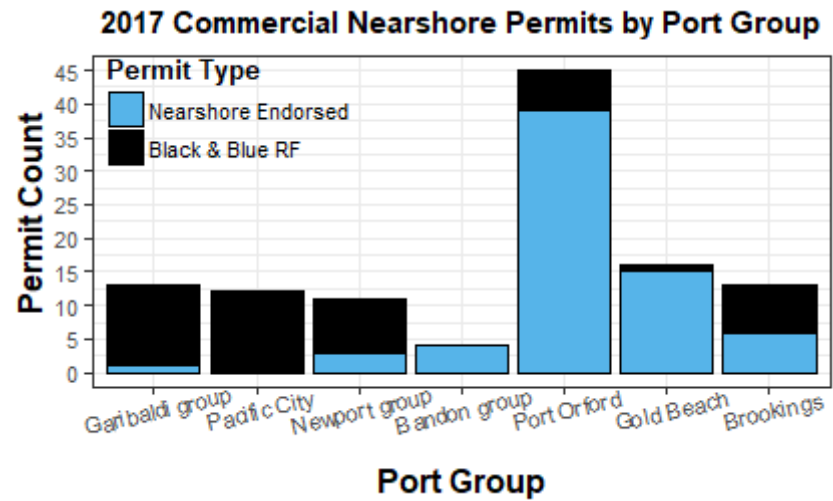


Figure 7. 2017 Commercial nearshore Black and Blue Rockfish permits.

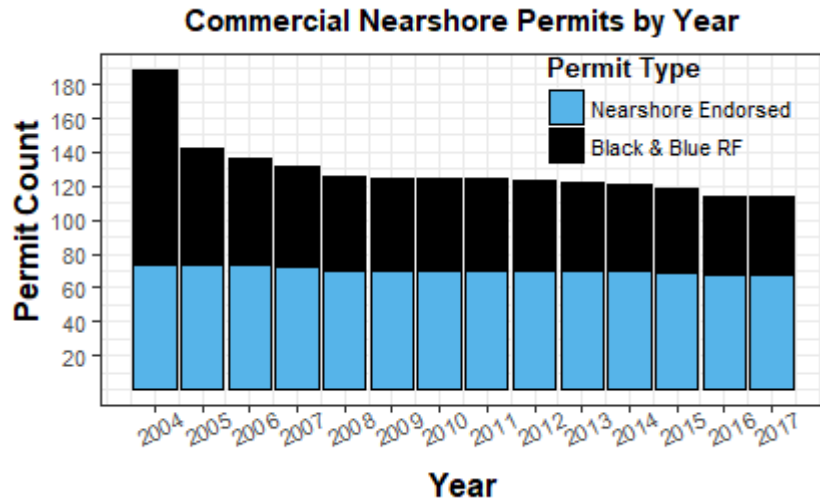


Figure 8. Commercial nearshore Black and Blue Rockfish permits from 2004 - 2017.

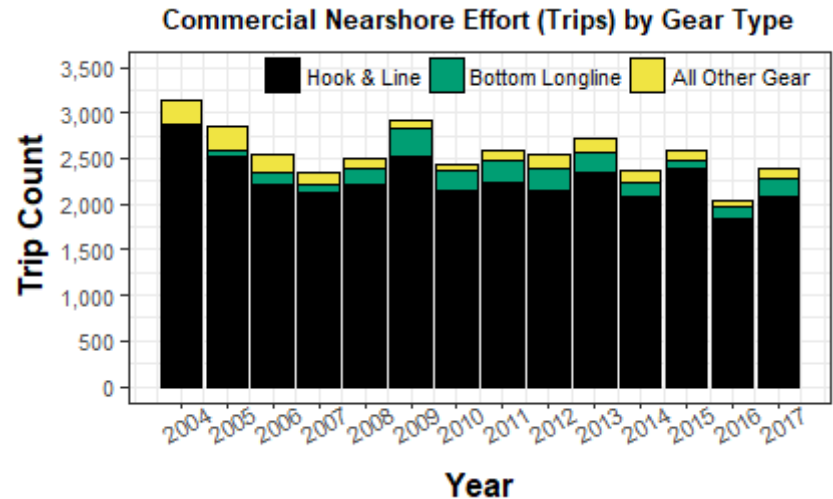


Figure 9. Commercial nearshore fishery effort (day trip) by year and gear type.

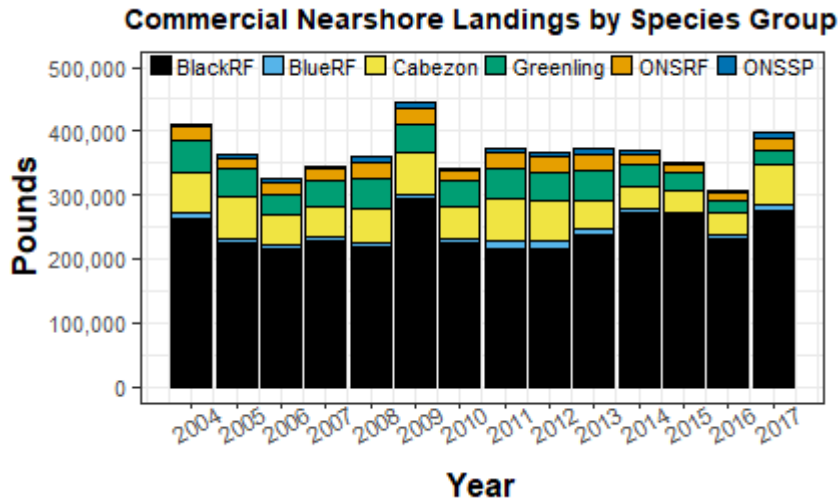


Figure 10. Commercial nearshore landings (pounds) by year and management group.

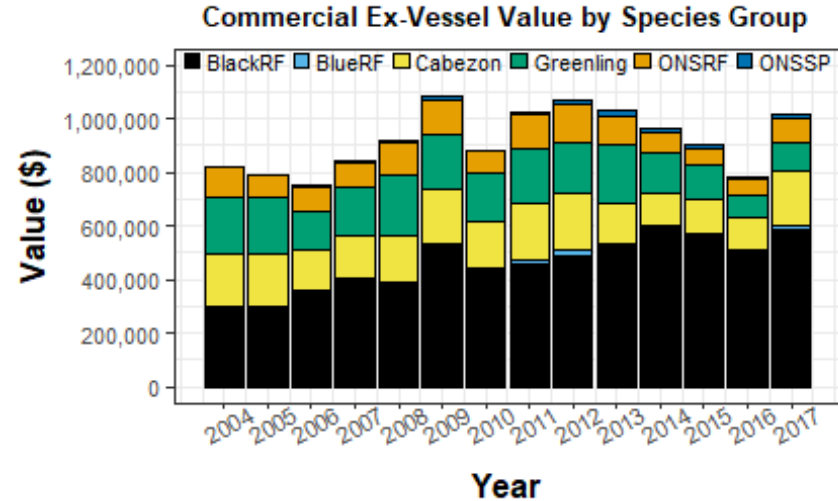


Figure 11. Commercial nearshore landings ex-vessel value (\$) by year and management group.

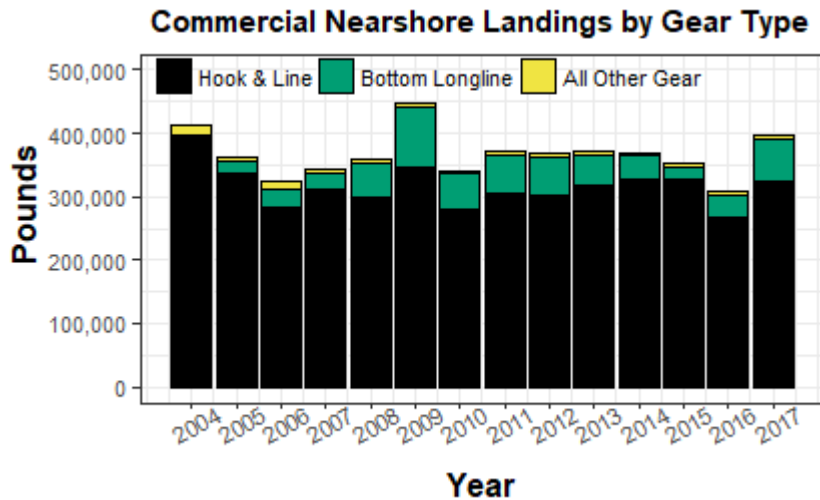


Figure 12. Commercial nearshore landings (pounds) by year and gear type.

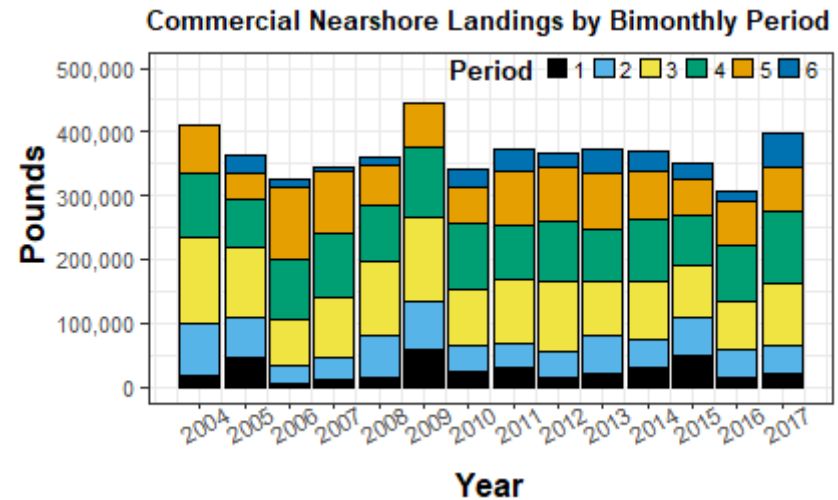


Figure 13. Commercial nearshore landings (pounds) by year and bimonthly period.

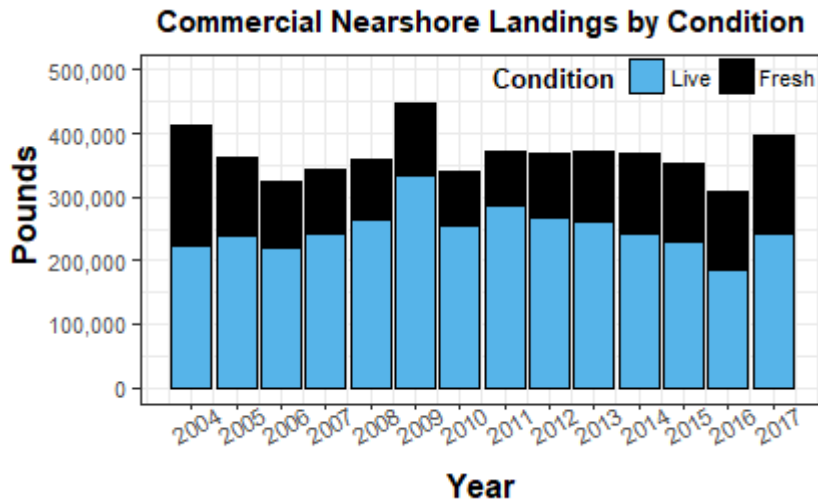


Figure 14. Commercial nearshore landings (pounds) by year and market condition.

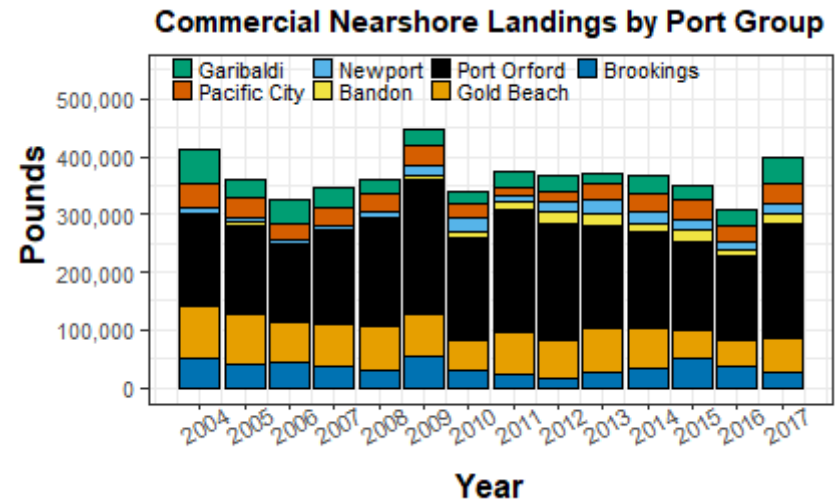


Figure 15. Commercial nearshore landings (pounds) by year and port group.

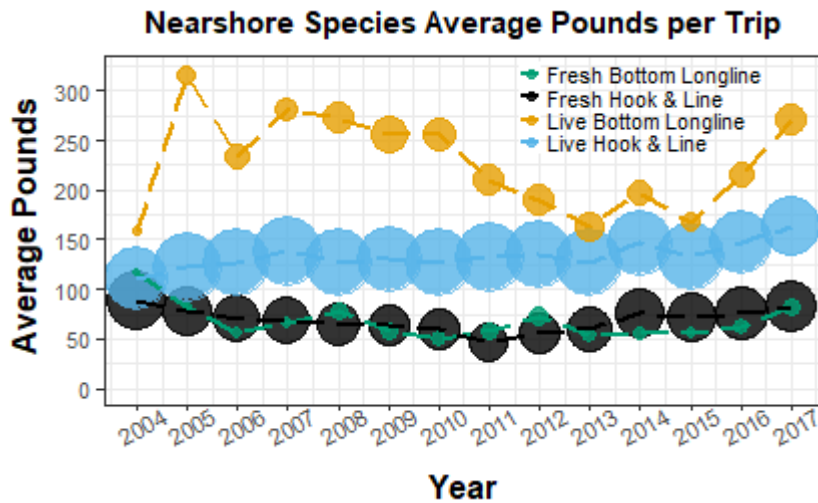


Figure 16. Average pounds landed per trip for all nearshore species combined by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed per sector.

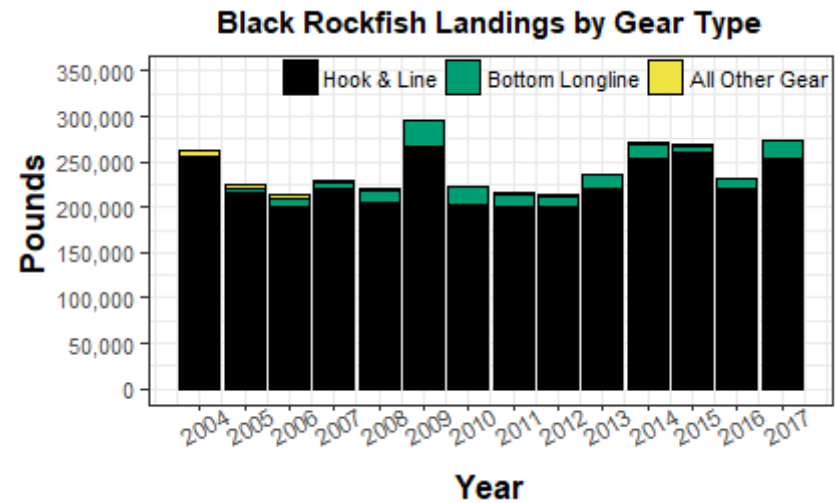


Figure 17. Black Rockfish landings (pounds) by year and gear type.

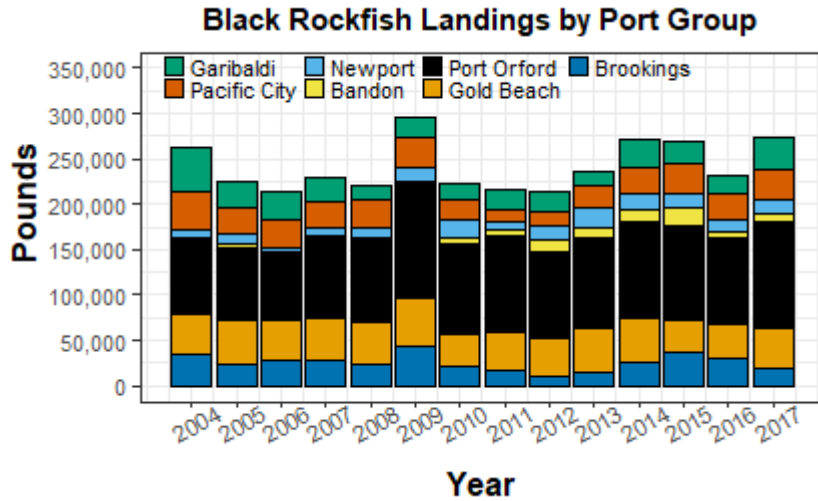


Figure 18. Black Rockfish landings (pounds) by year and port group.

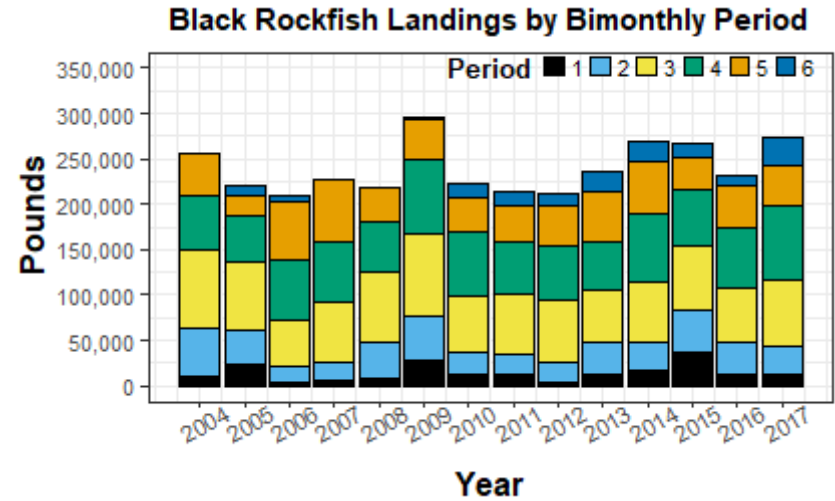


Figure 19. Black Rockfish landings (pounds) by year and bimonthly period.

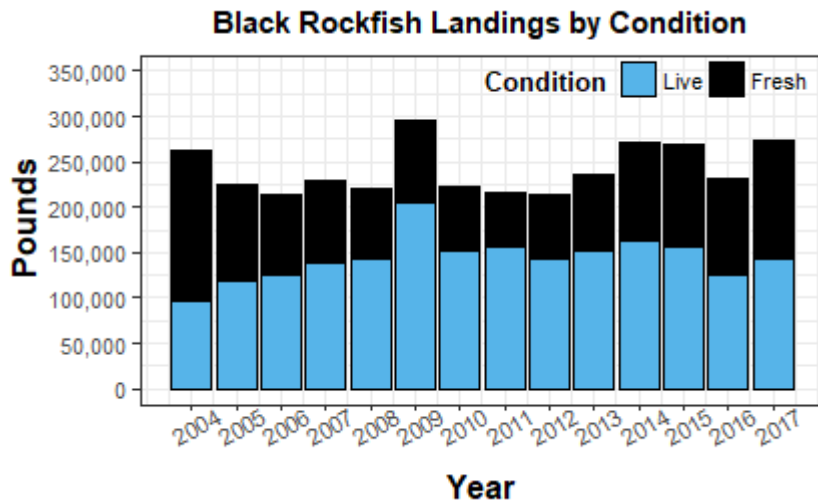


Figure 20. Black Rockfish landings by year and market condition.

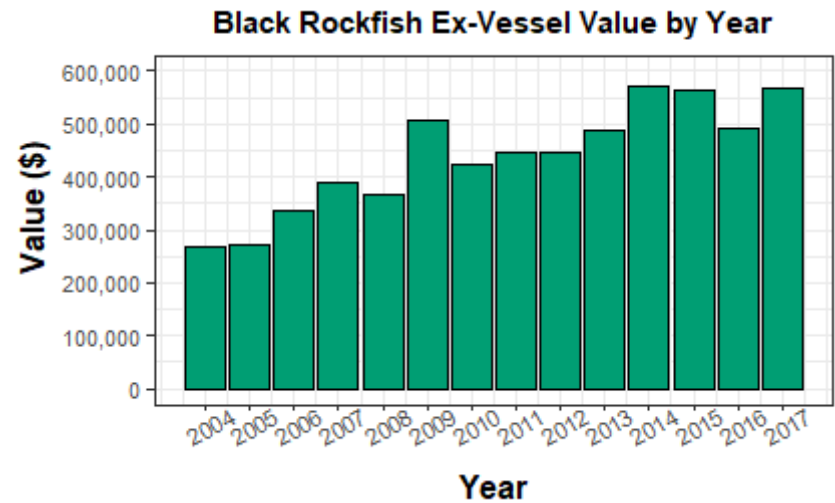


Figure 21. Ex-vessel value (\$) of Black Rockfish by year.

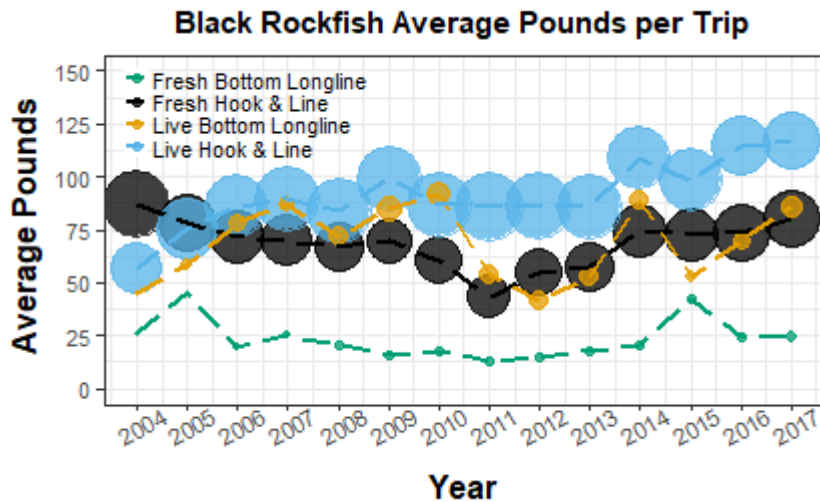


Figure 22. Average Black Rockfish pounds landed per trip by year, gear type, and market condition. The area of each bubble is weighted by the percentage of pounds landed per sector.

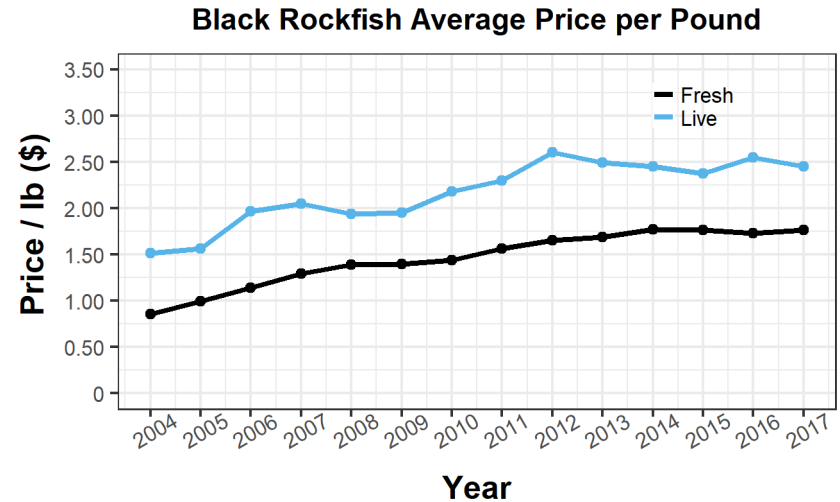


Figure 23. Average ex-vessel price per pound for live and fresh Black Rockfish by year.

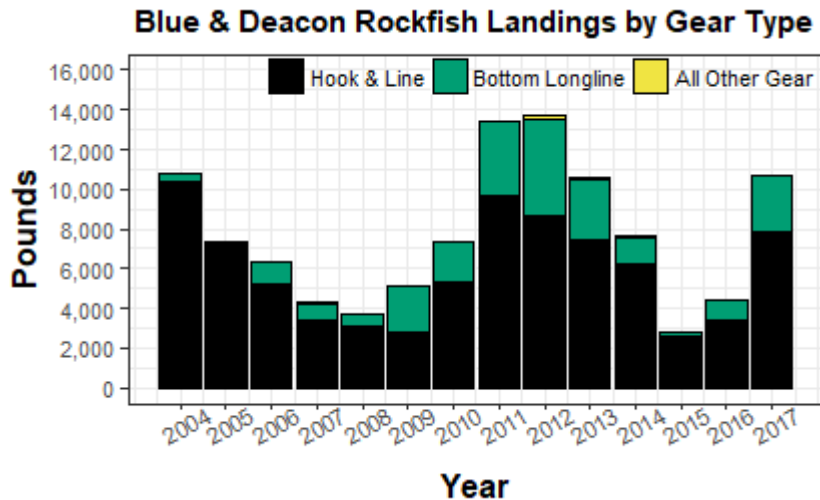


Figure 24. Blue and Deacon Rockfish landings (pounds) by year and gear type.

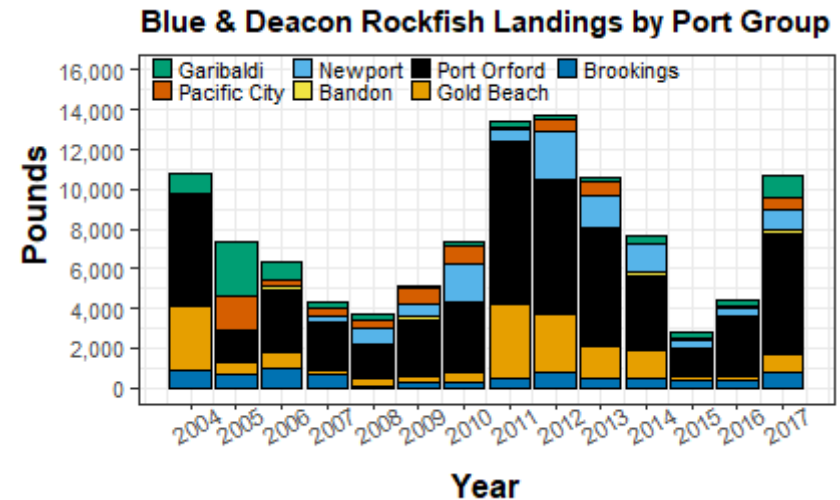


Figure 25. Blue and Deacon Rockfish landings (pounds) by year and port group.

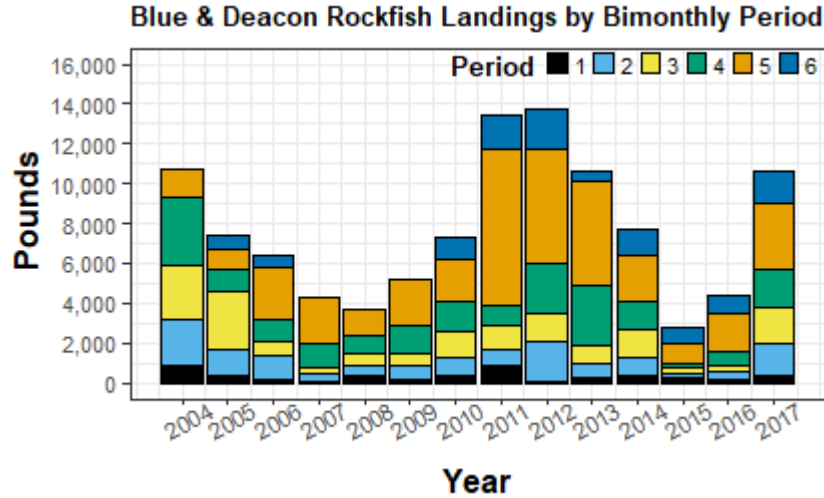


Figure 26. Blue and Deacon Rockfish landings (pounds) by year and bimonthly period.

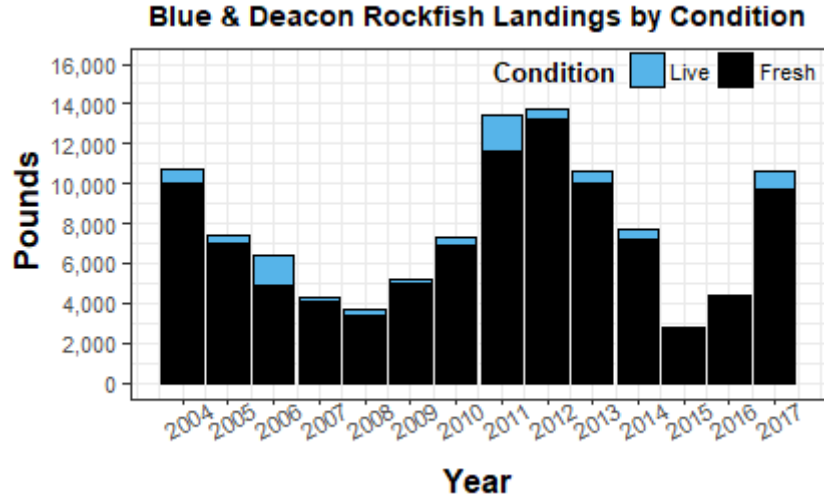


Figure 27. Blue and Deacon Rockfish landings by year and market condition.

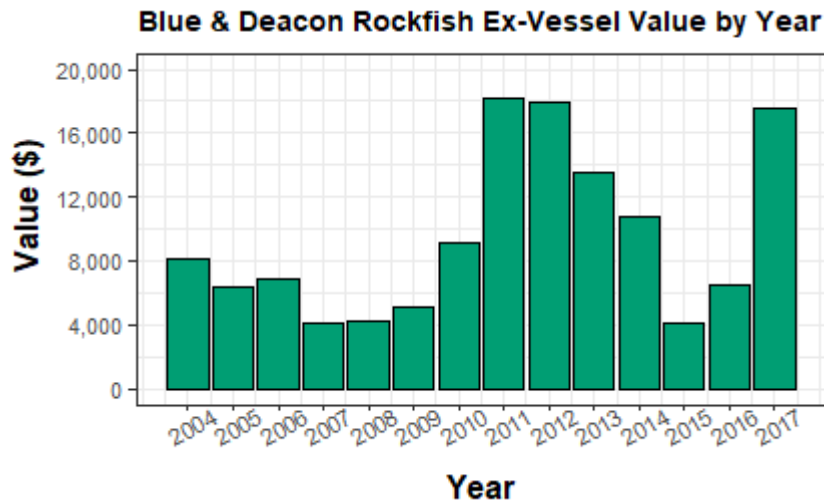


Figure 28. Blue and Deacon Rockfish ex-vessel value (\$) by year.

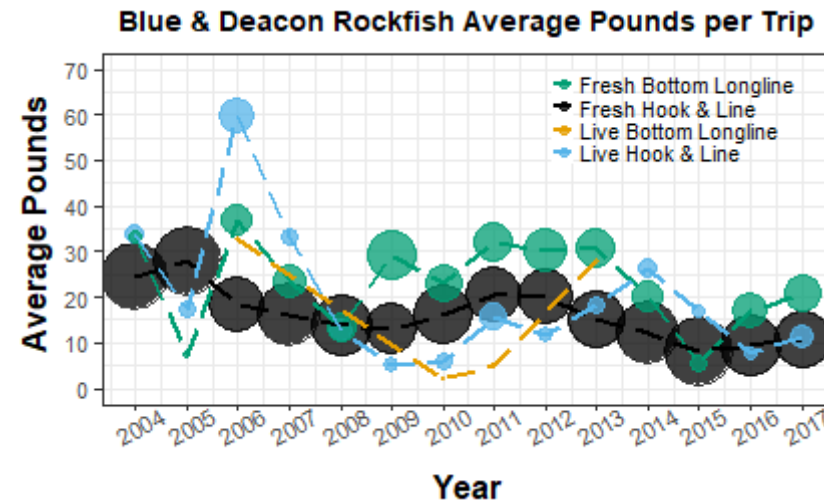


Figure 29. Average pounds landed per trip for Blue and Deacon Rockfish by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed per sector.

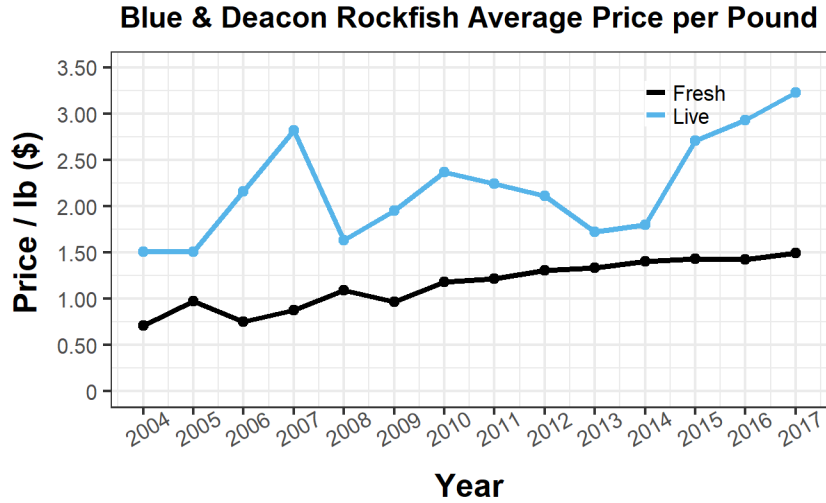


Figure 30. Average ex-vessel price per pound for live and fresh Blue and Deacon Rockfish by year.

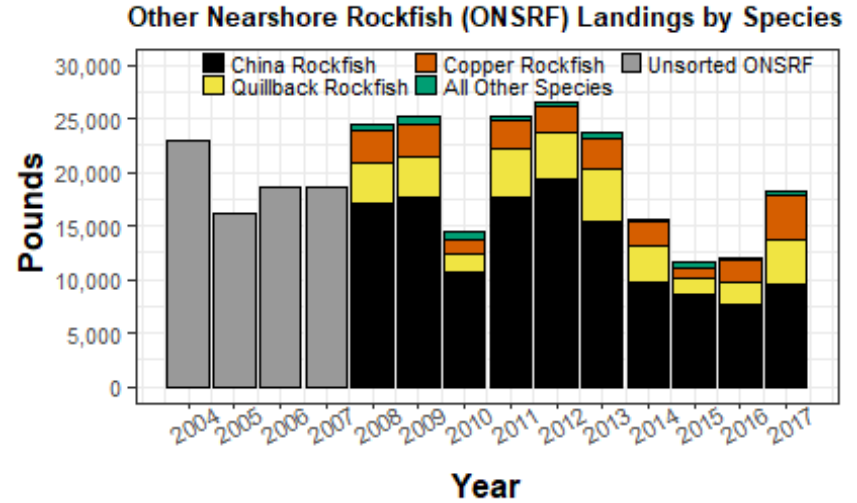


Figure 31. Other Nearshore Rockfish landings (pounds) by year and species. Fishes landed in this group prior to 2008 were unsorted.

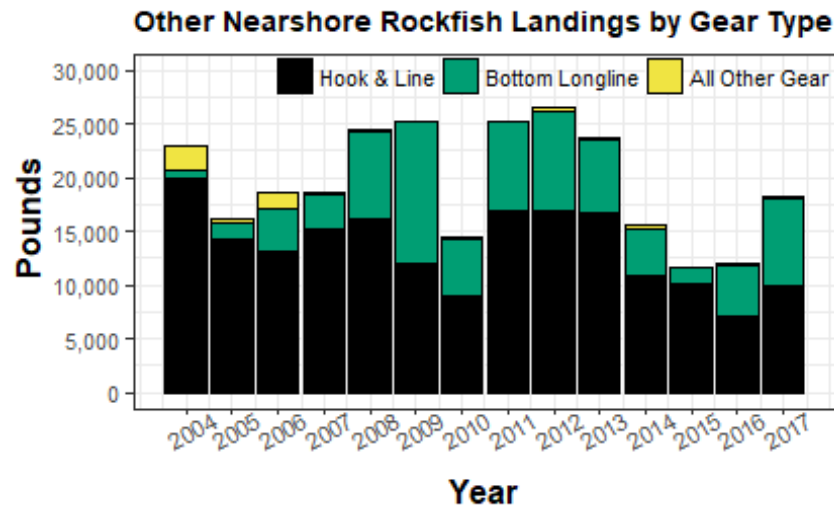


Figure 32. Other Nearshore Rockfish landings (pounds) by year and gear type.

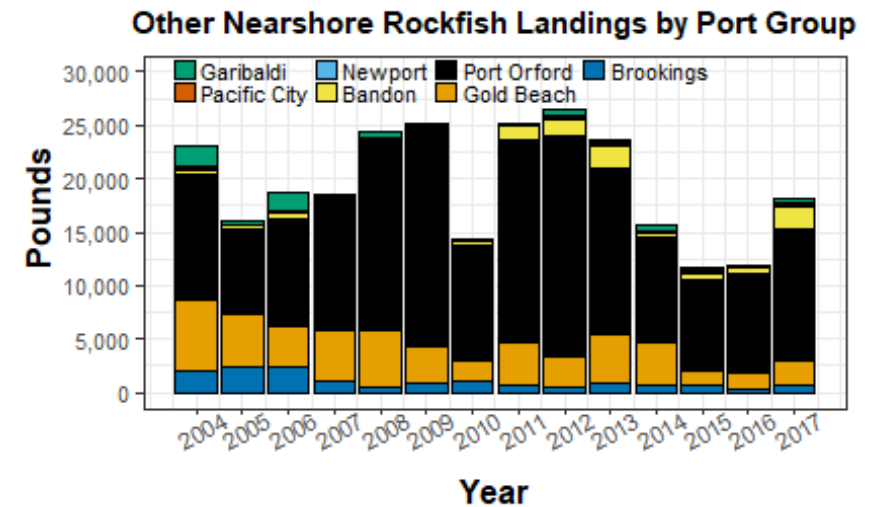


Figure 33. Other Nearshore Rockfish landings (pounds) by year and port group.

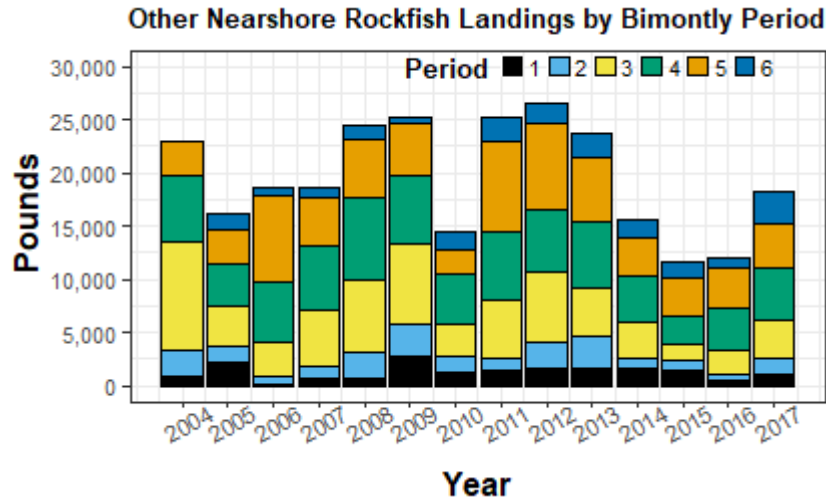


Figure 34. Other Nearshore Rockfish landings (pounds) by year and bimonthly period.

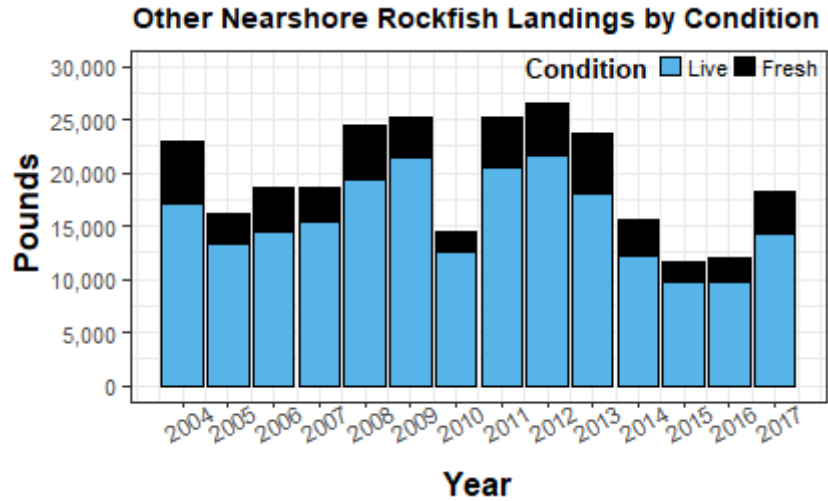


Figure 35. Other Nearshore Rockfish landings (pounds) by year and market condition.

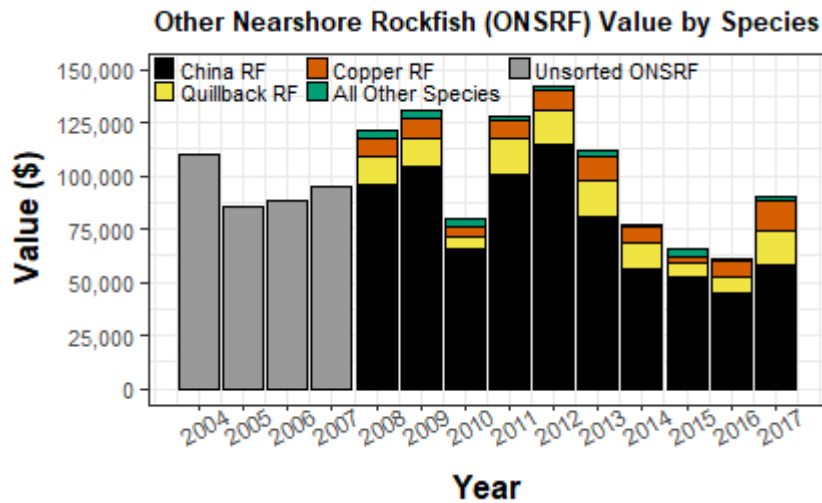


Figure 36. Other Nearshore Rockfish landings ex-vessel value (\$) by year and species. Fishes landed in this species group prior to were unsorted.

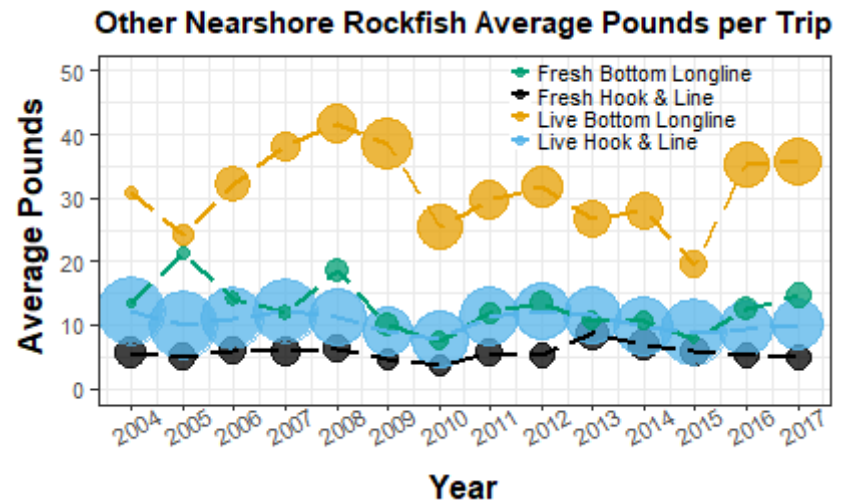


Figure 37. Average pounds landed per trip for Other Nearshore Rockfish by year, gear type and market condition. The area of 2008 each bubble is weighted by the percentage of pounds landed.

Other Nearshore Rockfish Average Price per Pound

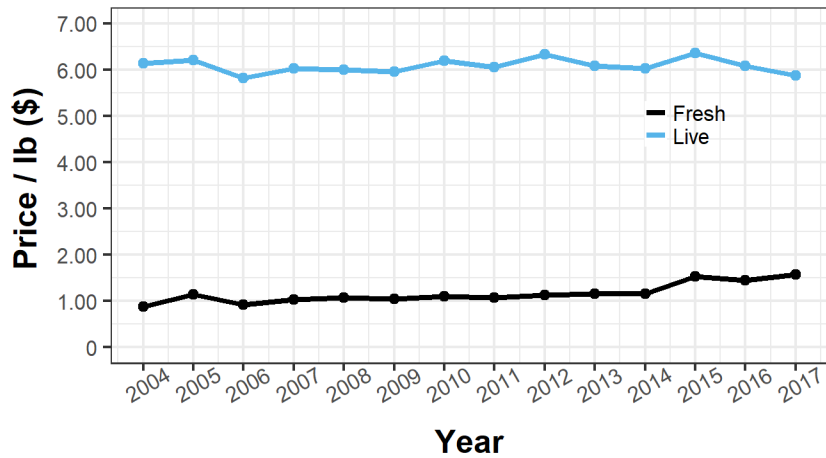


Figure 38. Average ex-vessel price per pound for live and fresh Other Nearshore Rockfish.

Greenling Landings by Gear Type

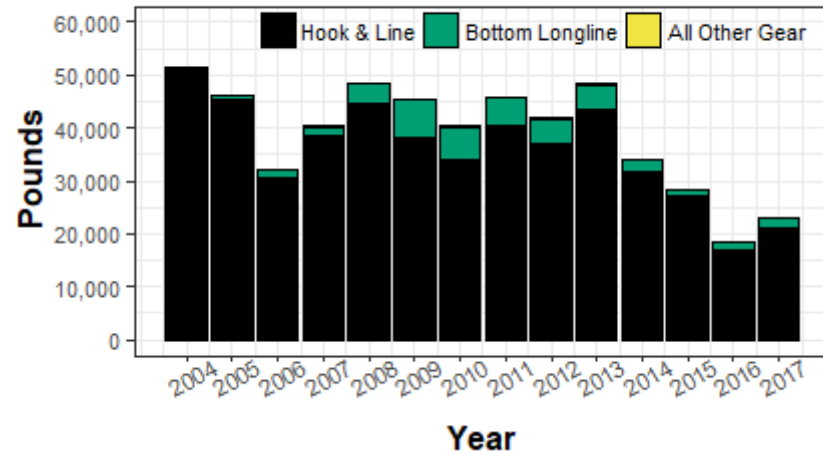


Figure 39. Greenling landings (pounds) by year and gear type.

Greenling Landings by Port Group

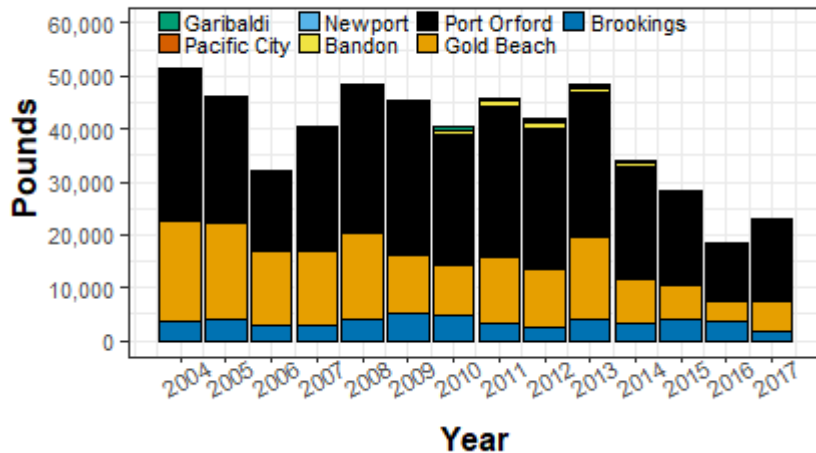


Figure 40. Greenling landings (pounds) by year and port group.

Greenling Landings by Bimonthly Period

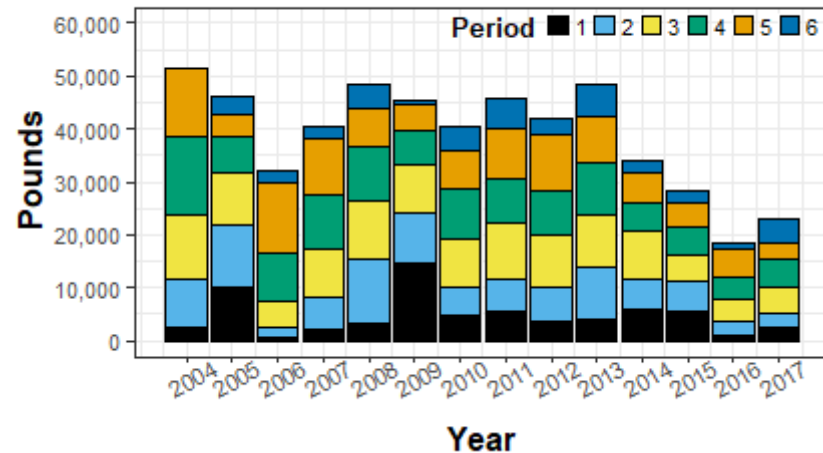


Figure 41. Greenling landings (pounds) by year and bimonthly period.

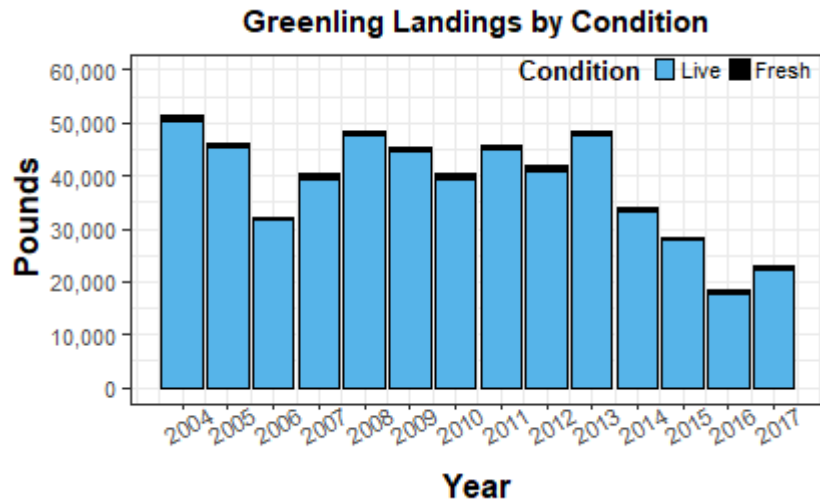


Figure 42. Greenling landings (pounds) by year and market condition.

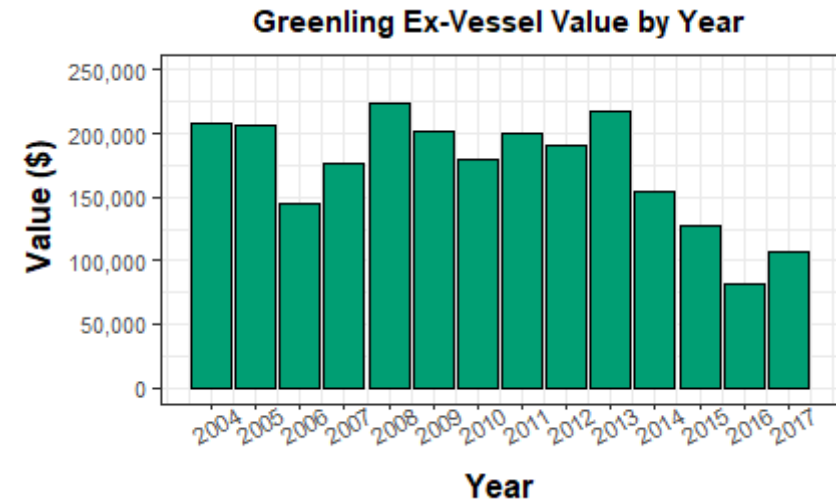


Figure 43. Greenling landings ex-vessel value (\$) by year.

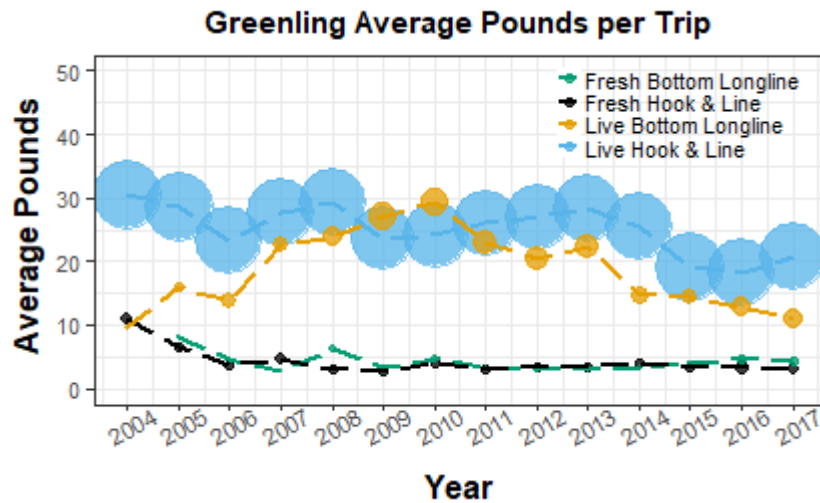


Figure 44. Average pounds landed per trip Greenling by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed per sector.

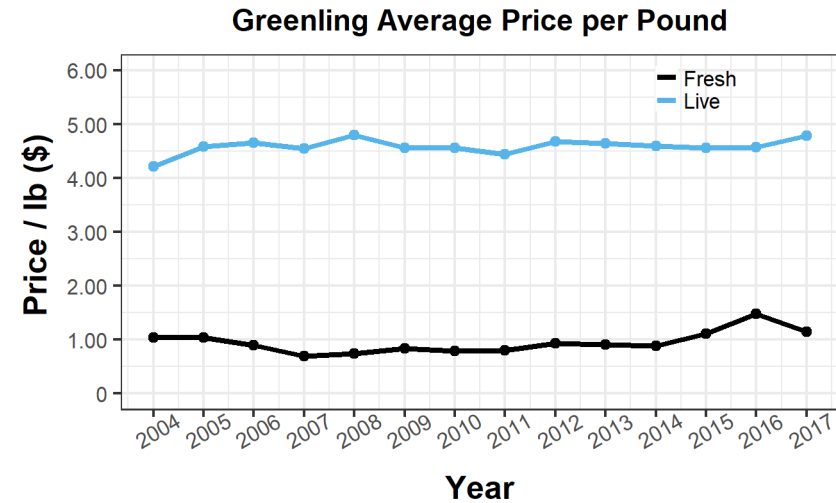


Figure 45. Average ex-vessel price per pound for live and fresh Greenling.

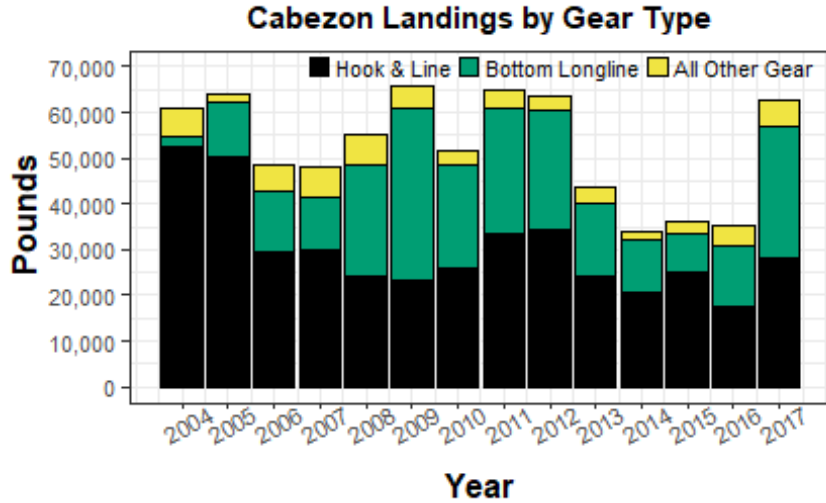


Figure 46. Cabezon landings (pounds) by year and gear type.

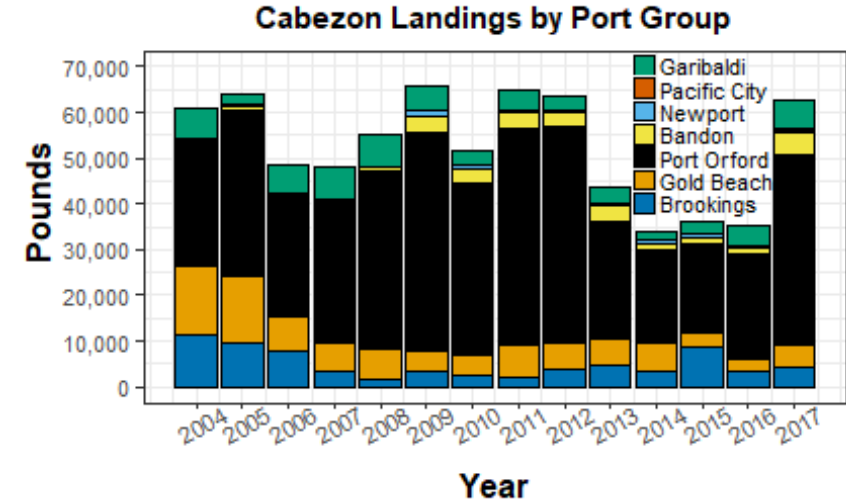


Figure 47. Cabezon landings (pounds) by year and port group.

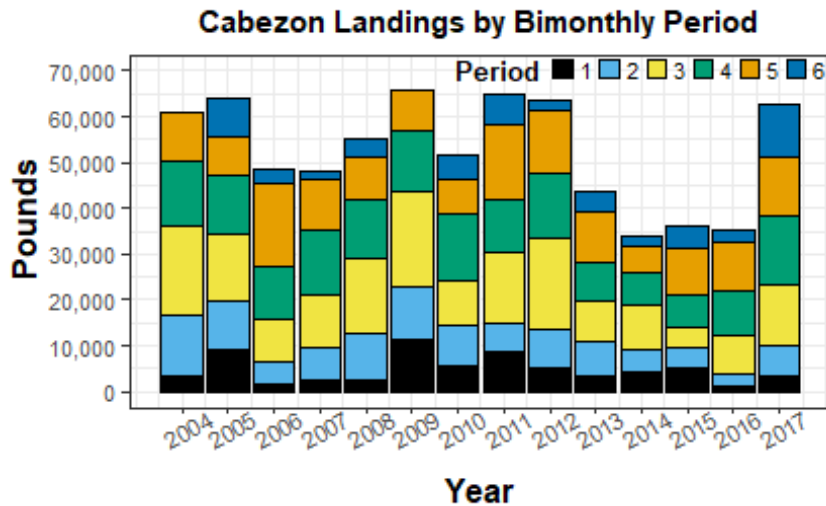


Figure 48. Cabezon landings (pounds) by year and bimonthly period.

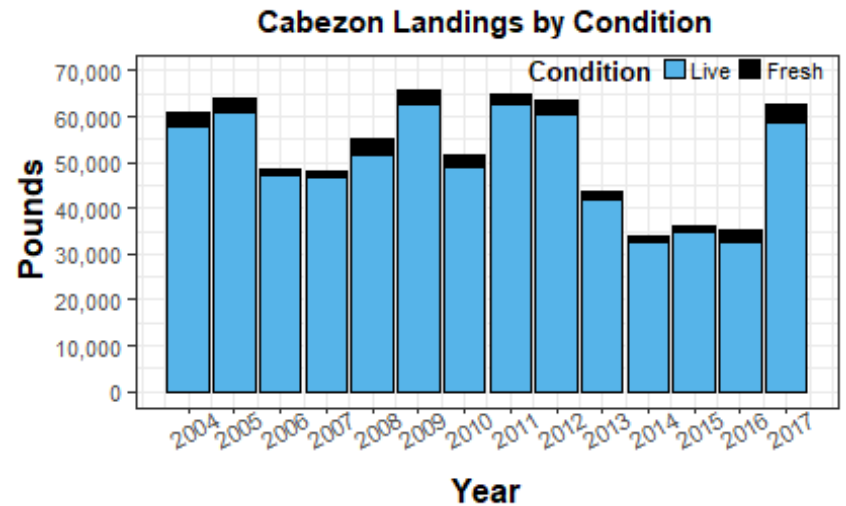


Figure 49. Cabezon landings (pounds) by year and market condition.

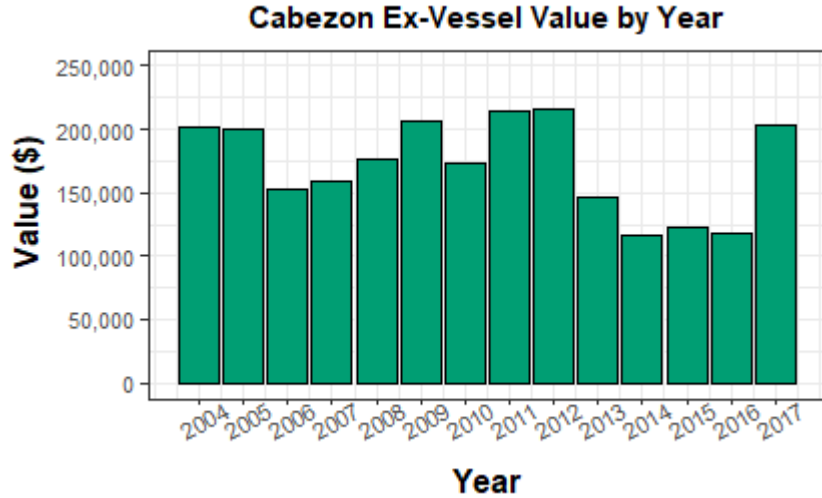


Figure 50. Cabezon landings ex-vessel value (\$) by year.

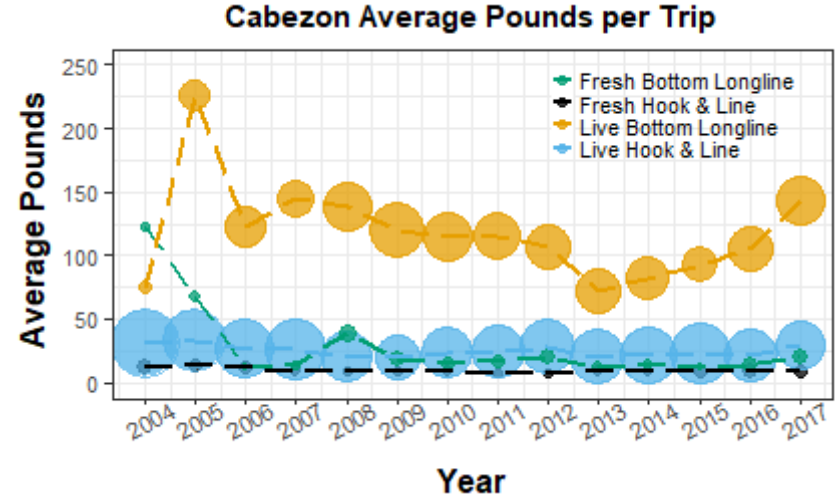


Figure 51. Average pounds landed per trip for Cabezon by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed per sector.

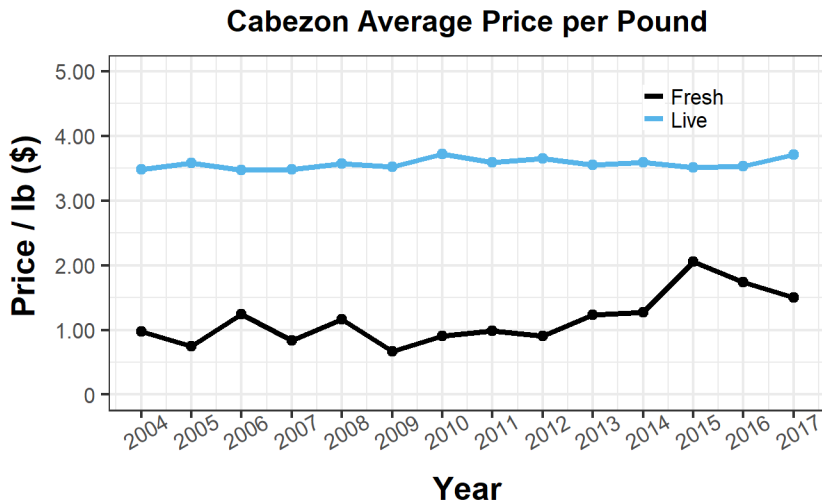


Figure 52. Average ex-vessel price per pound for live and fresh Cabezon.

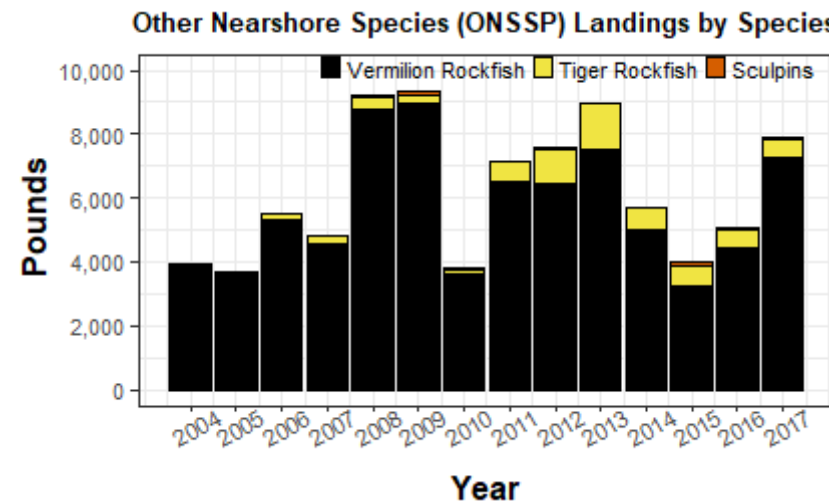


Figure 53. Other Nearshore Species landings by year and species or species group.

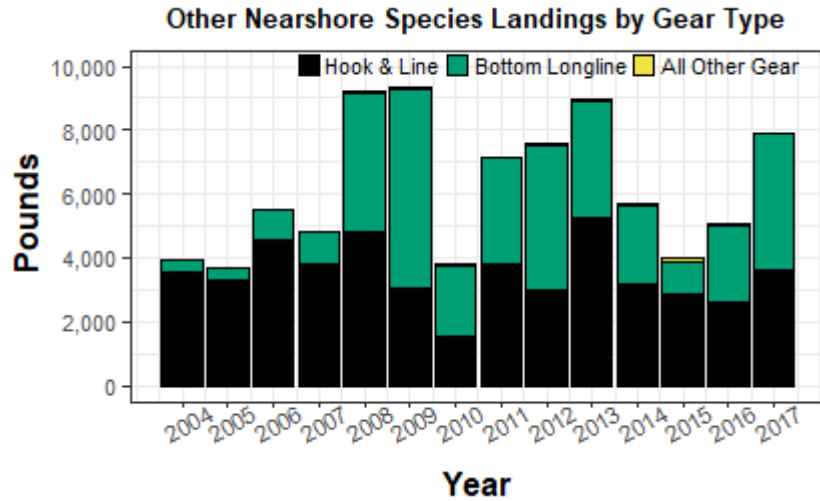


Figure 54. Other Nearshore Species landings (pounds) by year and gear type.

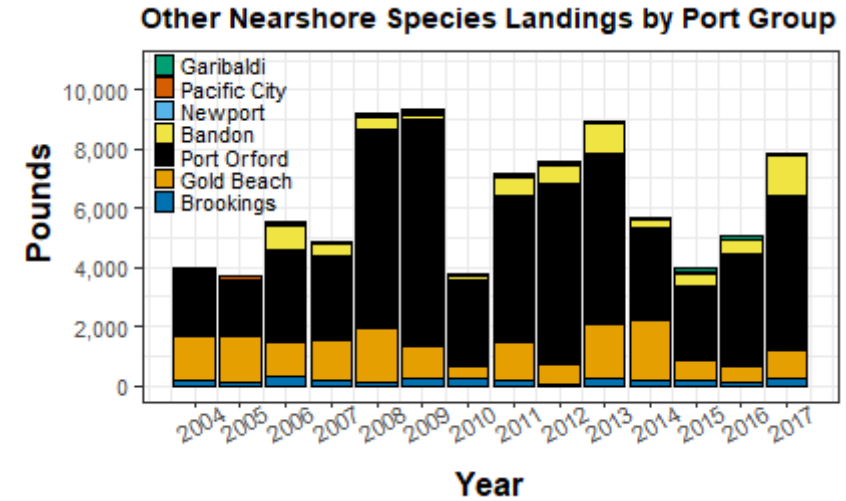


Figure 55. Other Nearshore Species landings by year and port group.

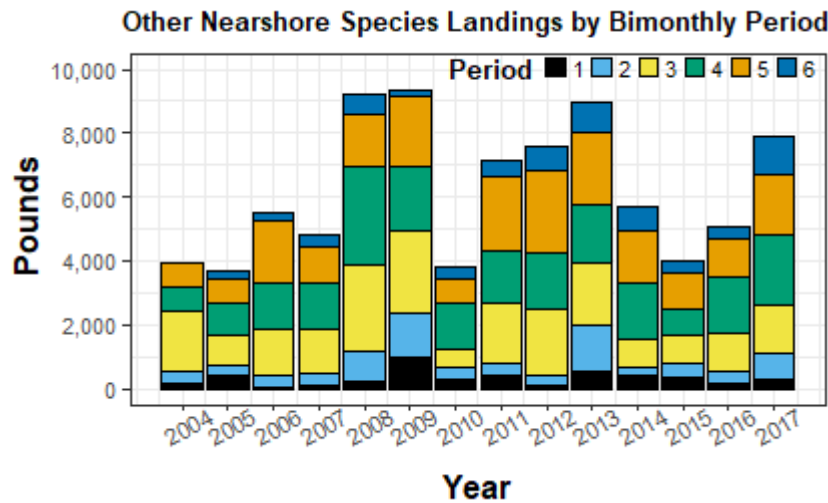


Figure 56. Other Nearshore Species landings (pounds) by year and bimonthly period.

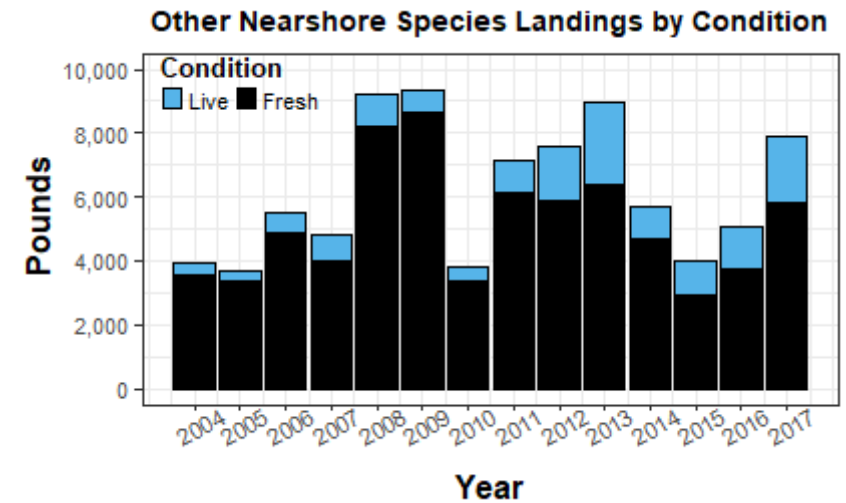


Figure 57. Other Nearshore Species landings (pounds) by year and market condition.

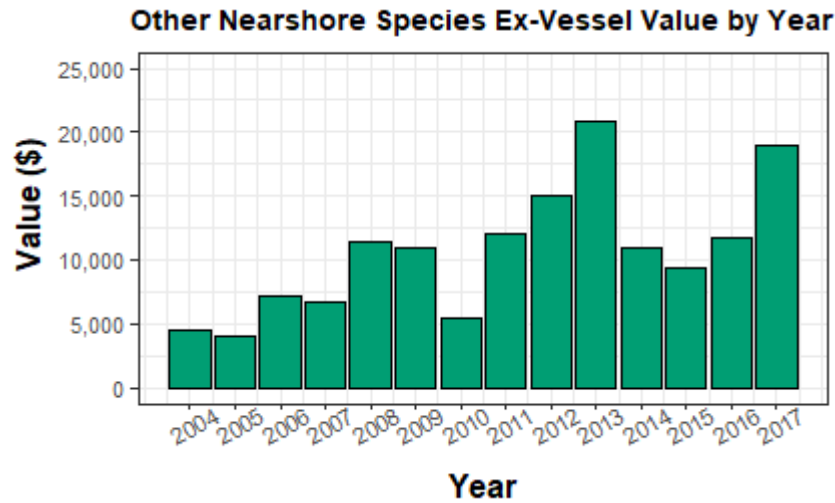


Figure 58. Ex-vessel value of Other Nearshore Species (\$) by year.

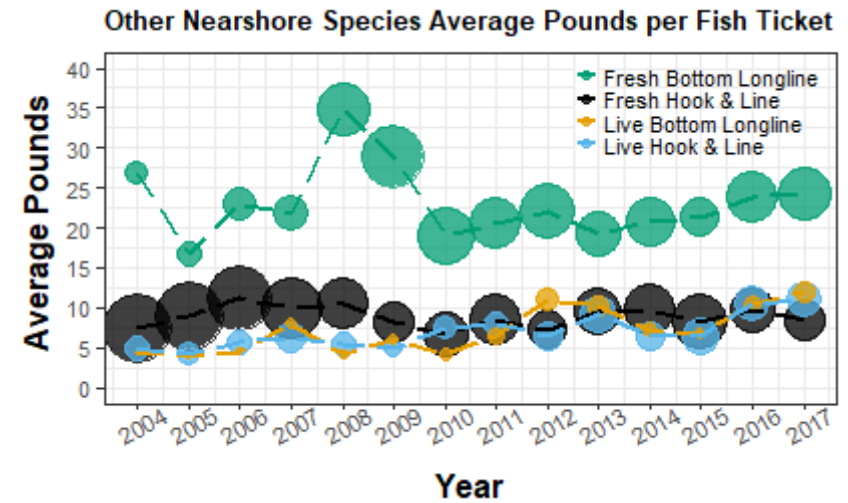


Figure 59. Average pounds landed per trip for Other Nearshore Species by year, gear type and market condition. The area of each bubble is weighted by the percentage of pounds landed per sector.

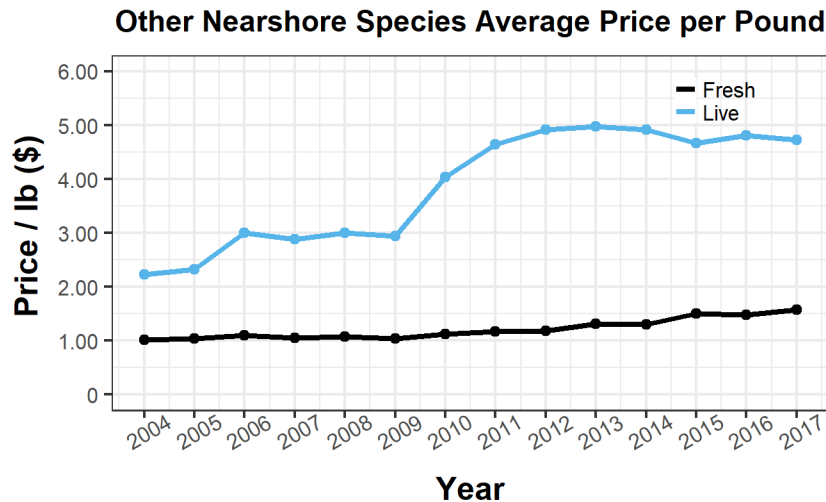


Figure 60. Average ex-vessel price per pound for live and fresh Other Nearshore Species.

Appendices

Appendix A. Annual landing caps, harvest caps, and harvest guidelines (metric tons, mt) for state management groups for 2004 - 2016. 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 | 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 and landing caps were implemented; prior harvest cap equaled landing cap.

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

⁵harvest cap of 30.8 mt.

⁶harvest cap of 30.2 mt.

| Year | Black Rockfish | Blue, Deacon & Other Nearshore Rockfish, combined | Cabezon | Greenling | Other Nearshore Species |
|------|----------------|---|---------|-----------|-------------------------|
| 2015 | 139.2 | 10.4 | 30.2 | 23.4 | N/A |
| 2016 | 139.2 | 10.4 | 30.2 | 23.4 | N/A |

Appendix B. History of cumulative 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. Season outset limits set for each period are in normal text without parentheses. In-season changes effective for each period are dated with amended limits in parentheses. Dates with multiple increases listed on a single day indicate the bimonthly limit was increased multiple times throughout the year with the same effective date. A dash indicates no change. RF = Rockfish.

Table B1. 2016 cumulative bimonthly period trip limits (pounds).

| Period | Black RF | Blue RF | Other Nearshore RF | Cabezon | Greenling |
|---------------|-----------------|----------------|---------------------------|----------------|------------------|
| Period 1 | 1,200 | 30 | 200 | 2,000 | 600 |
| Period 2 | 1,400 | 30 | 200 | 2,000 | 600 |
| Period 3 | 1,700 | 30 | 200 | 2,000 | 600 |
| Period 4 | 1,600 | 30 | 200 | 2,000 | 600 |
| <i>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 B2. 2015 cumulative bimonthly period trip limits (pounds). Blue Rockfish had a separate trip limit beginning this year.

| Period | Black RF | Blue RF | Other Nearshore RF | Cabezon | Greenling |
|---------------|-----------------|----------------|---------------------------|----------------|------------------|
| Period 1 | 1,200 | 15 | 100 | 1,500 | 300 |
| Period 2 | 1,400 | 15 | 100 | 1,500 | 300 |
| Period 3 | 1,700 | 15 | 100 | 1,500 | 300 |
| Period 4 | 1,600 | 15 | 100 | 1,500 | 300 |
| <i>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 B3. 2014 cumulative bimonthly period trip limits (pounds).

| Period | Black & Blue RF | Other Nearshore RF | Cabezon | Greenling |
|---------------|----------------------------|---------------------------|----------------|------------------|
| Period 1 | 1,000 | 700 | 1,500 | 300 |
| Period 2 | 1,400 | 100 | 1,500 | 300 |
| Period 3 | 1,700 | 100 | 1,500 | 300 |
| Period 4 | 1,600 | 100 | 1,500 | 300 |
| Period 5 | 1,400 | 100 | 1,500 | 300 |
| <i>Oct 13</i> | (1,600) | (300) | - | (350) |
| Period 6 | 1,000 | 100 | 1,500 | 300 |
| <i>Nov 1</i> | (1,200) | (300) | - | (350) |

Table B4. 2013 cumulative 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 B5. 2012 cumulative 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 | 300 |
| <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> | - | - | - | (400) |
| <i>Sept 11</i> | (2,100) | - | - | - |
| Period 6 | 800 | 700 | 1,500 | 250 |
| <i>Nov 1</i> | (2,100) | - | (100) | (400) |

Table B6. 2011 cumulative 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 B7. 2010 cumulative 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> | - | - | (1,600) | - |
| <i>Nov 1</i> | (1,200) | - | (100) | (350) |

Table B8. 2009 cumulative 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 |
| <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 per day/1,200 per month) | - | (Closed) | (150) |
| Period 6 | 1,000 | 700 | 2,500 | 450 |
| <i>Nov 1</i> | - | - | - | (250) |
| <i>Nov 1</i> | (15 per day/400 per month) | - | (Closed) | (150) |

Table B9. 2008 cumulative 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 per day/1,200 per month) | - | - | - |
| Period 6 | 800 | 700 | 2,500 | 450 |
| <i>Nov 1</i> | (15 per day/400 per month) | - | - | - |

Table B10. 2007 cumulative 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 per day/400 per month) | (700) | (4,000) | (800) |
| <i>Nov 28</i> | (Closed) | (Closed) | (Closed) | (Closed) |

Table B11. 2006 cumulative monthly period trip limits (pounds).

| Period | Black & Blue RF | Other Nearshore RF ¹ | Cabezon | Greenling |
|---------------|----------------------------|---------------------------------|----------|-----------|
| January | 600 | 600 | 2,000 | 400 |
| February | 800 | 600 | 2,000 | 400 |
| March | 1,600 | 600 | 2,000 | 400 |
| April | 1,600 | 600 | 2,000 | 400 |
| May | 1,600 | 600 | 2,000 | 400 |
| June | (2,000) | (700) | (4,000) | (800) |
| July | 800 | 600 | 2,000 | 400 |
| <i>Nov 1</i> | (15 per day/400 per month) | (700) | (4,000) | (800) |
| August | (Closed) | (Closed) | (Closed) | (Closed) |
| <i>Aug 1</i> | (15 per day/400 per month) | (700) | (4,000) | (800) |
| <i>Aug 11</i> | (15 per day/400 per month) | (700) | (4,000) | (800) |
| Sept | 1,600 | 600 | 2,000 | 400 |
| <i>Sept 1</i> | 1,600 | 600 | 2,000 | 400 |
| <i>Sept 1</i> | 1,600 | 600 | 2,000 | 400 |
| October | 1,600 | 600 | 2,000 | 400 |
| <i>Oct 1</i> | 1,600 | 600 | 2,000 | 400 |
| <i>Oct 1</i> | 1,600 | 600 | 2,000 | 400 |
| November | 1,600 | 600 | 2,000 | 400 |
| <i>Nov 1</i> | 1,600 | 600 | 2,000 | 400 |
| December | 1,600 | 600 | 2,000 | 400 |
| <i>Dec 1</i> | 1,600 | 600 | 2,000 | 400 |

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

Table B12. 2005 cumulative bimonthly period trip limits (pounds).

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

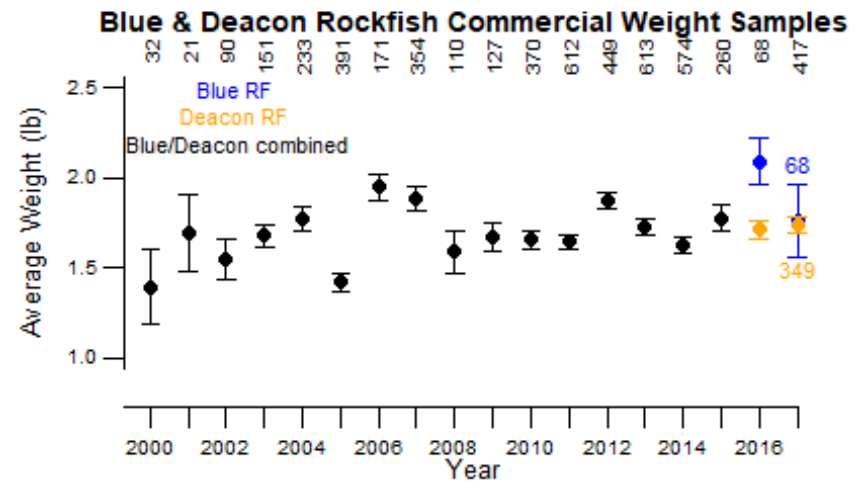
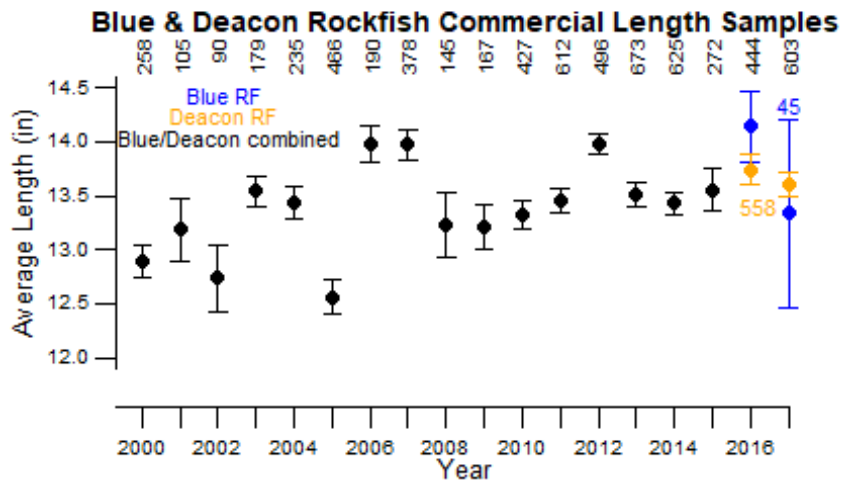
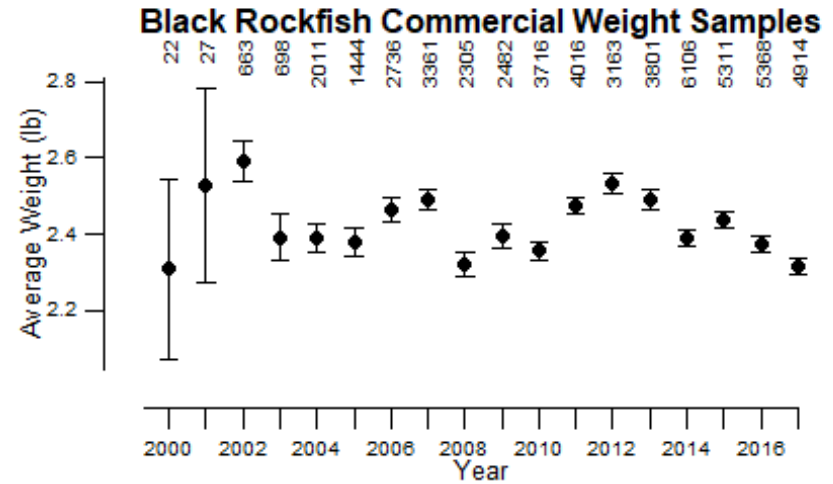
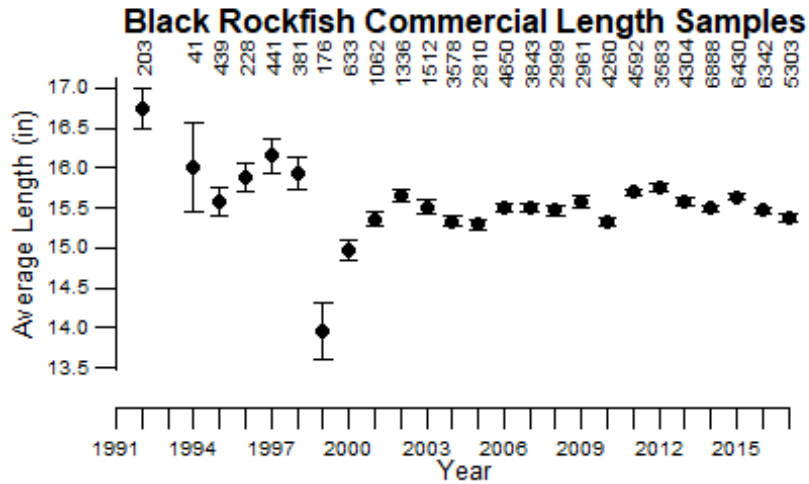
¹ - sub-limit of Black & Blue RF; included Vermilion and Tiger RF

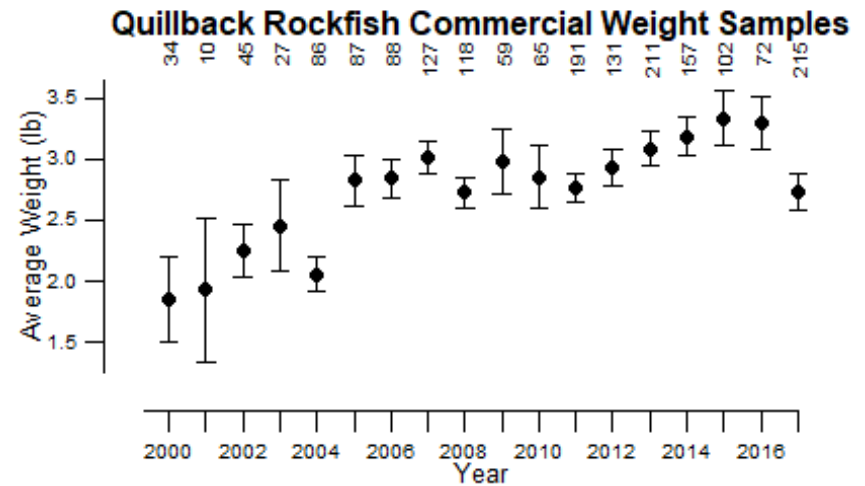
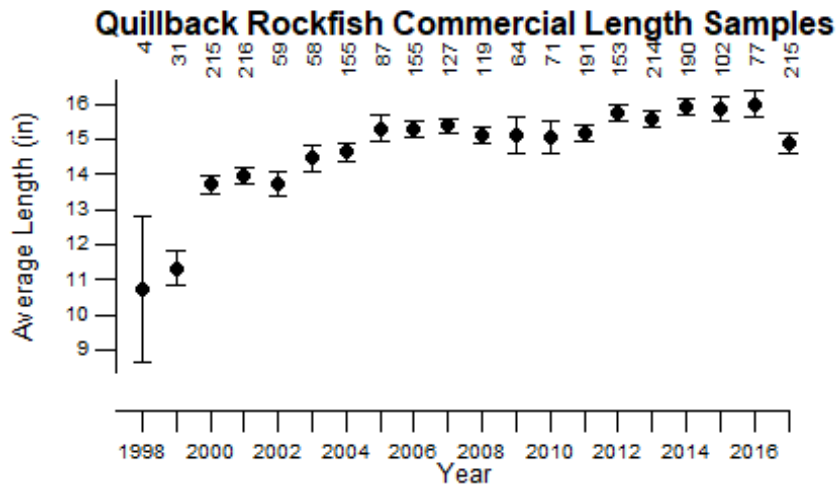
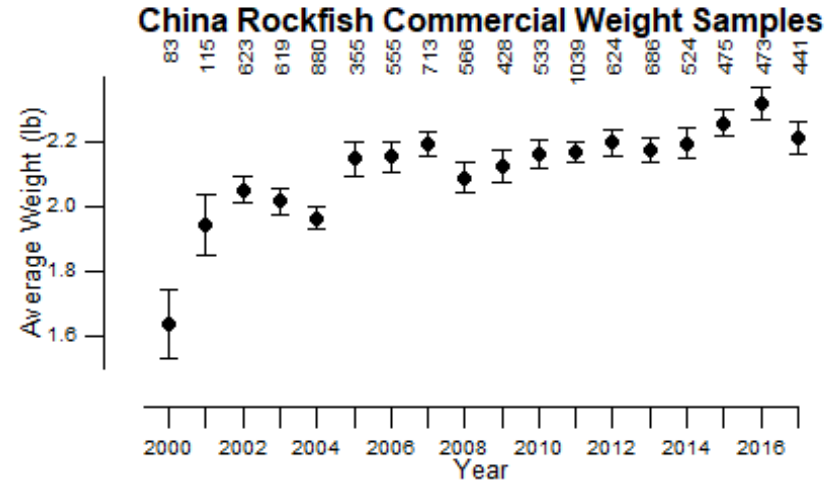
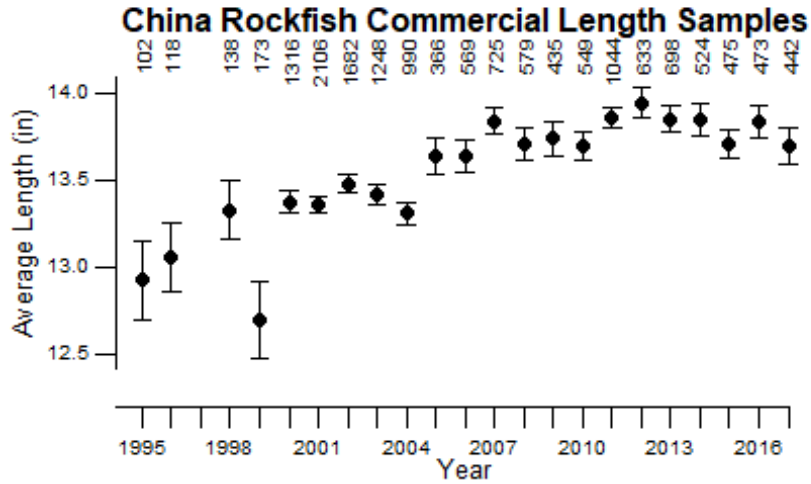
Table B13. 2004 cumulative bimonthly period trip limits (pounds).

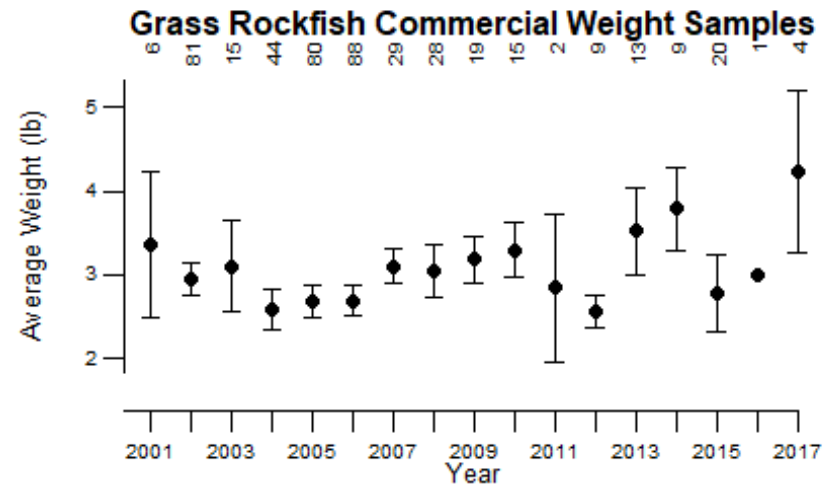
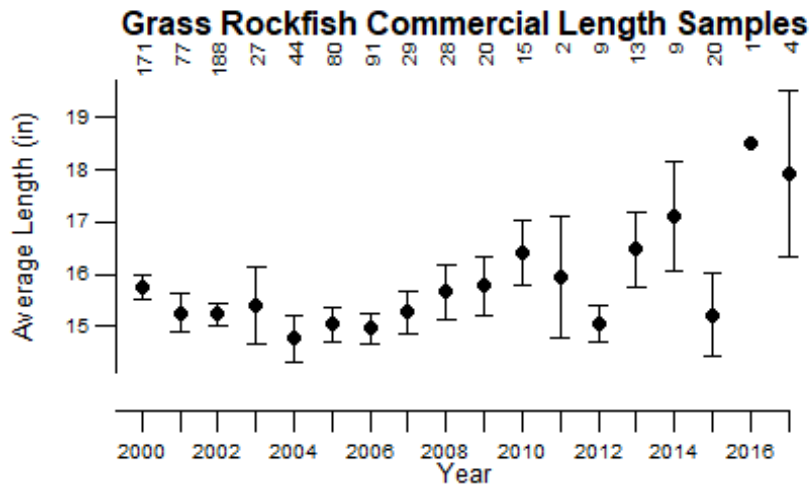
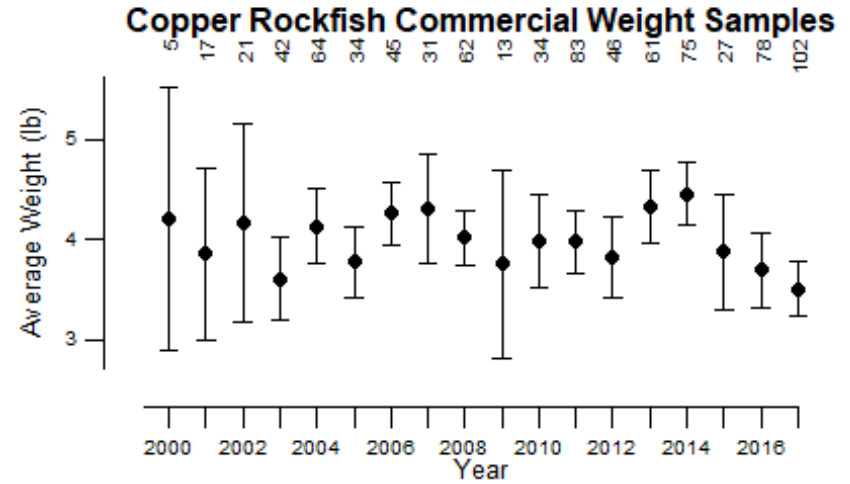
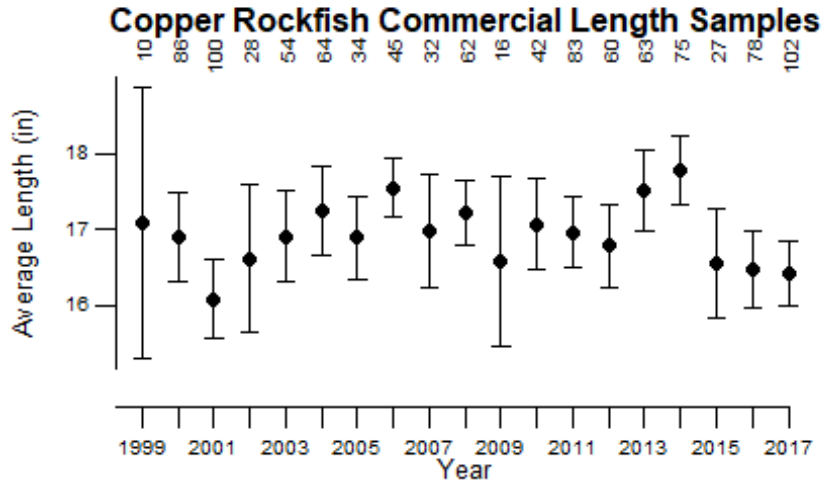
| Period | Black & Blue RF | Other Nearshore RF¹ | Cabezon | Greenling |
|----------------|----------------------------|---------------------------------------|----------------|------------------|
| Period 1 | 800 | 700 | 1,500 | 250 |
| Period 2 | 1,000 | 700 | 1,500 | 250 |
| Period 3 | 1,400 | 700 | 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) | - | - | - |

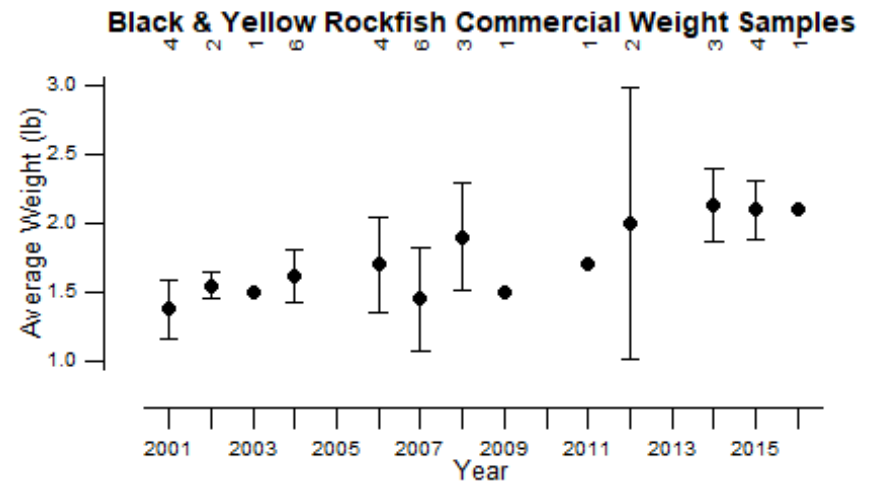
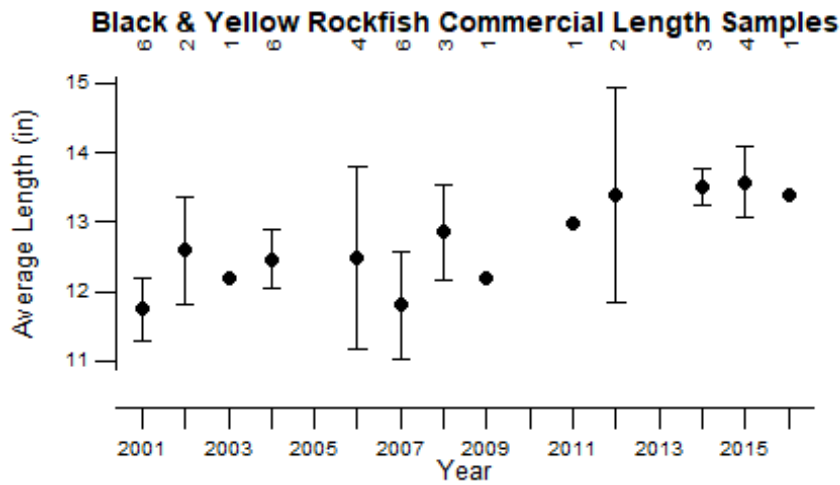
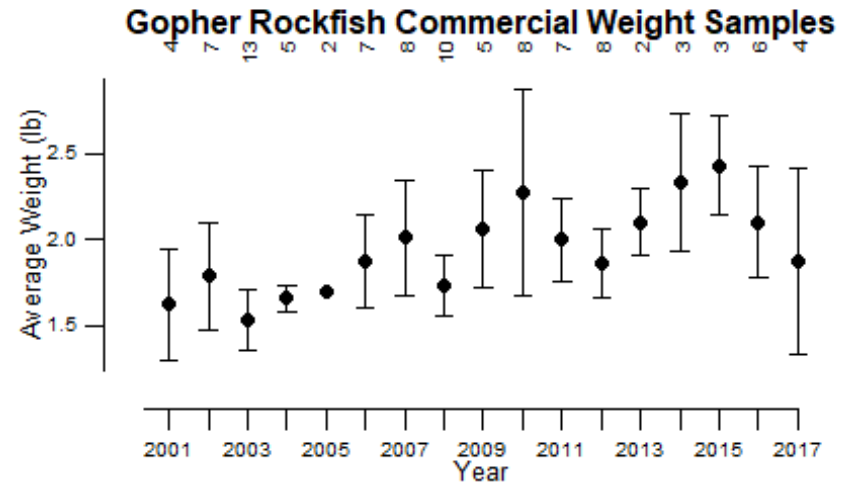
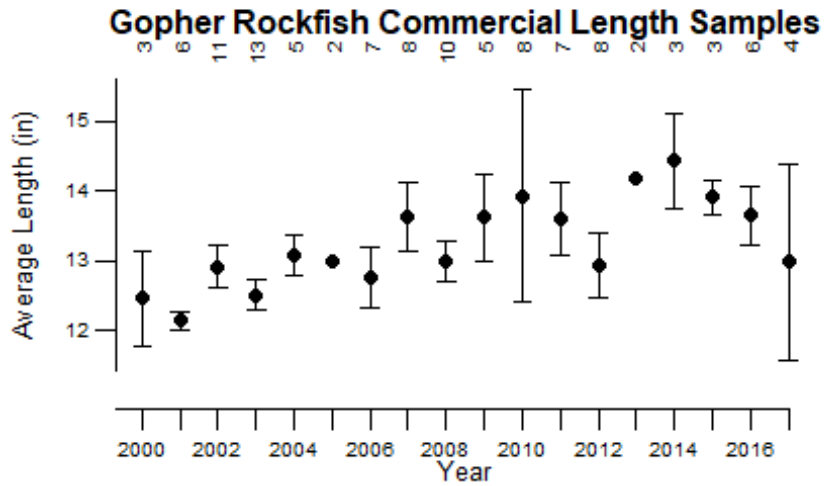
¹ - sub-limit of Black & Blue RF; included Vermilion and Tiger RF

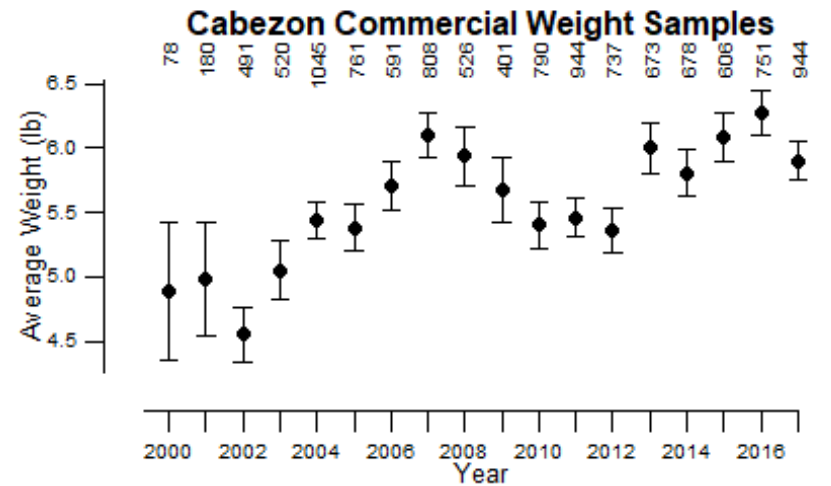
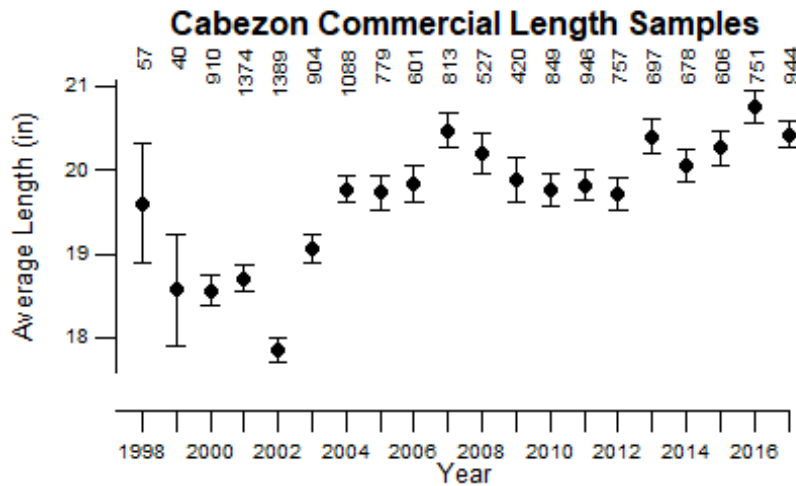
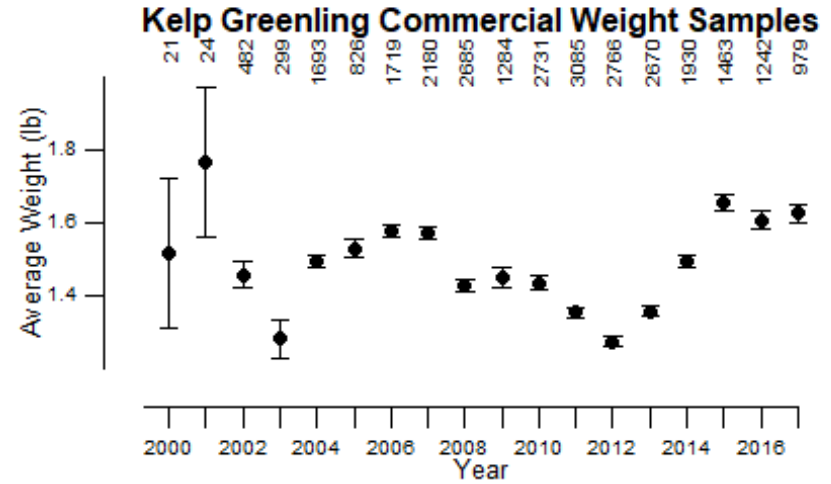
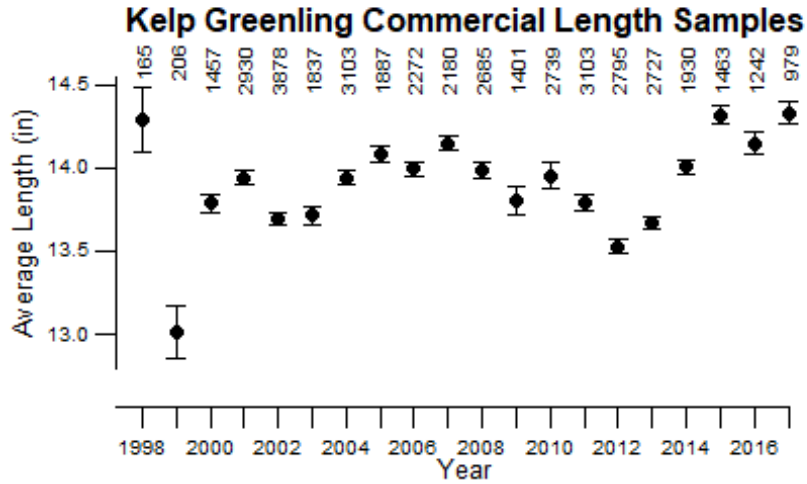
Appendix C. Nearshore species commercial length and weight sample averages by year with sample sizes (top) and 95% confidence intervals.

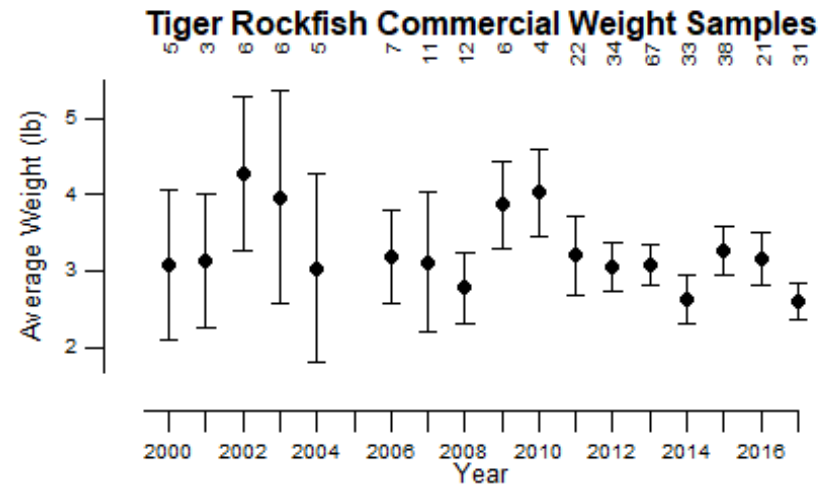
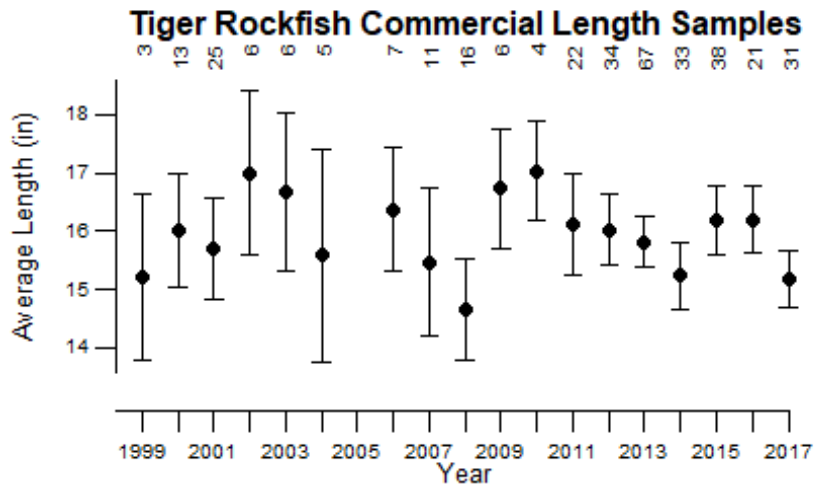
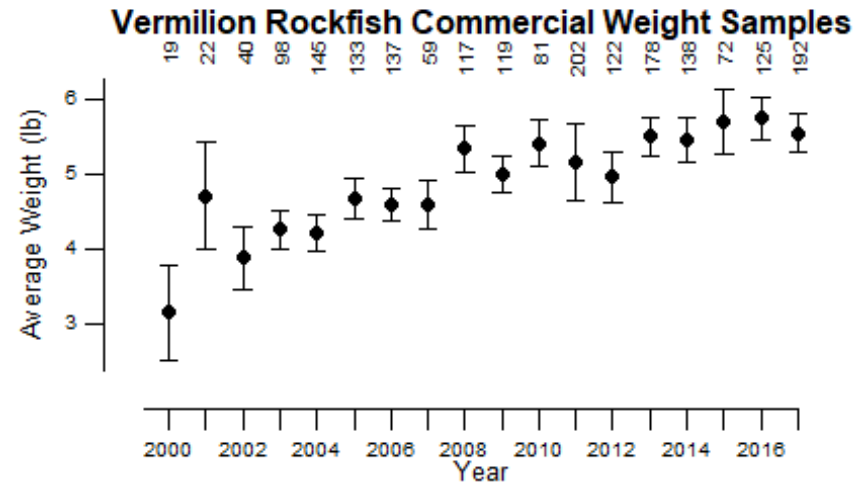
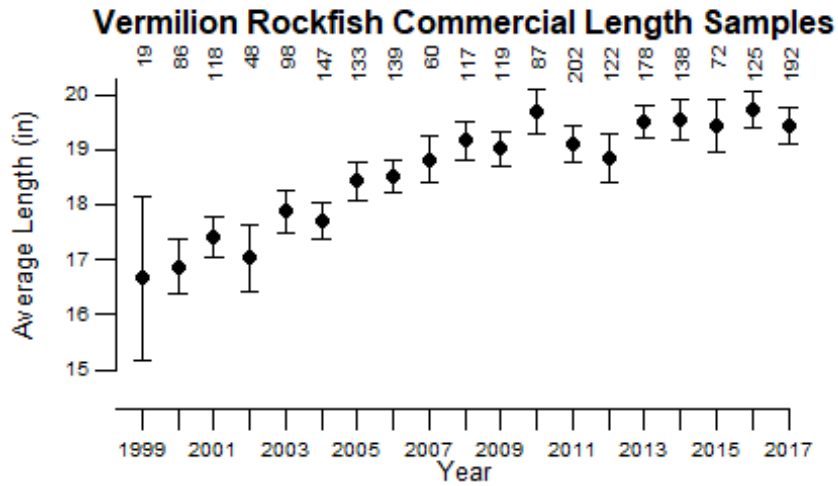




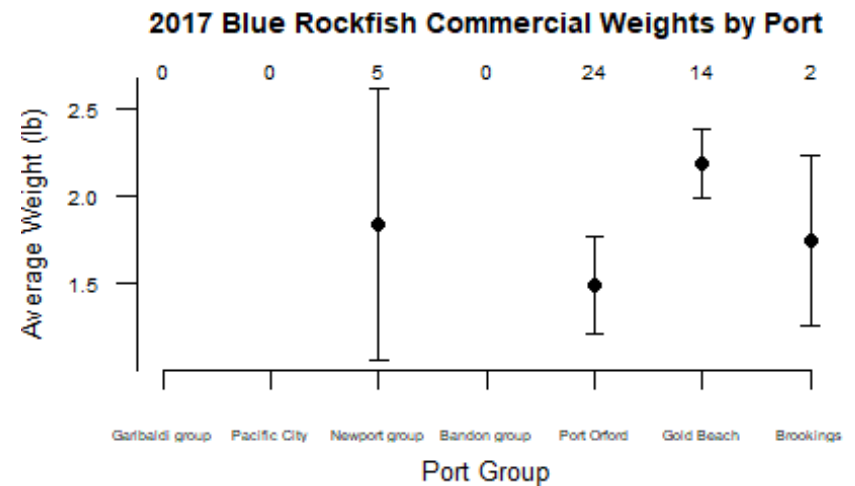
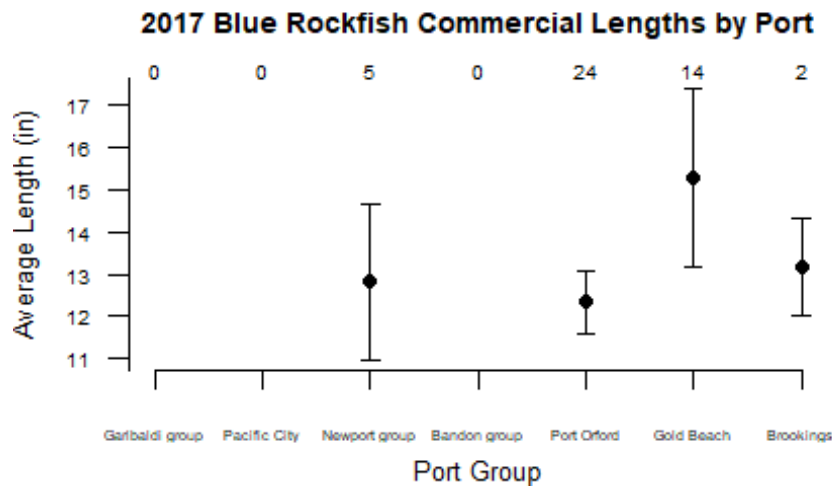
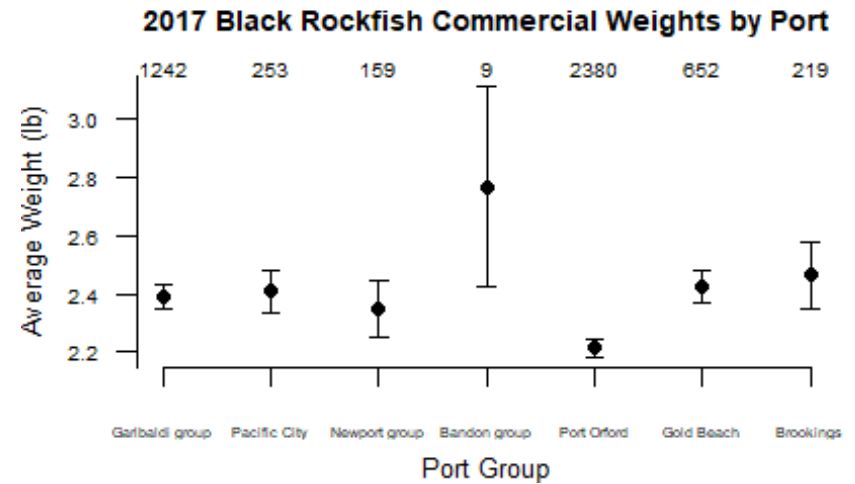
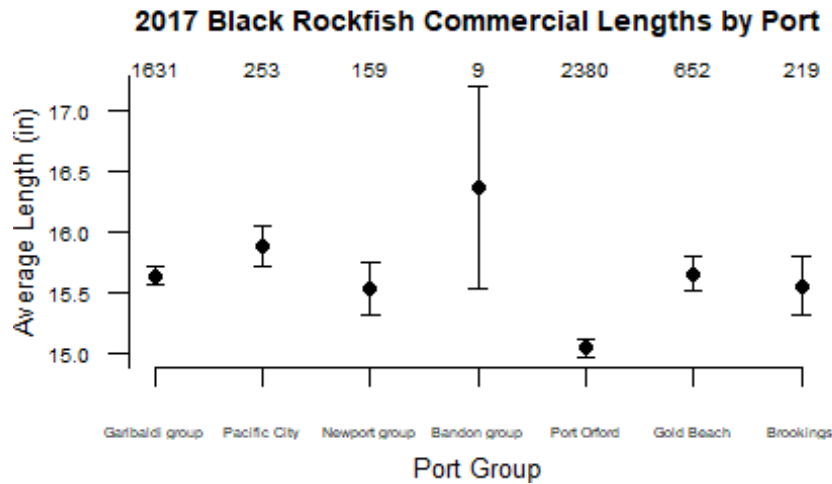


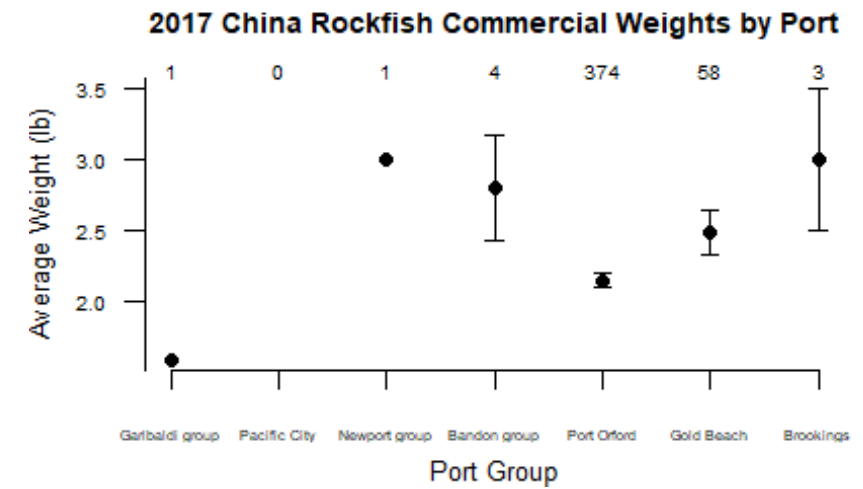
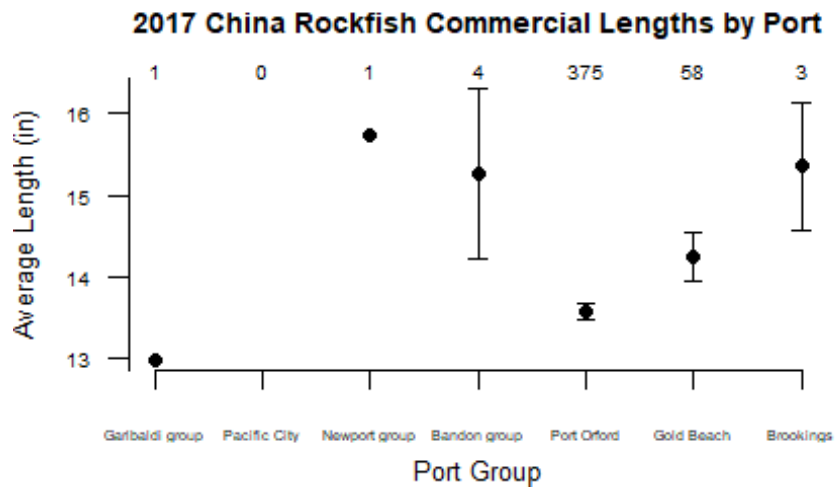
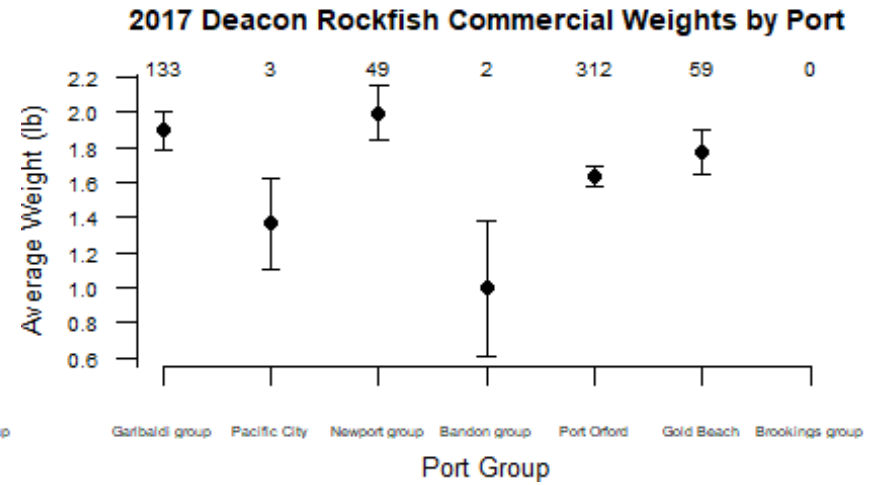
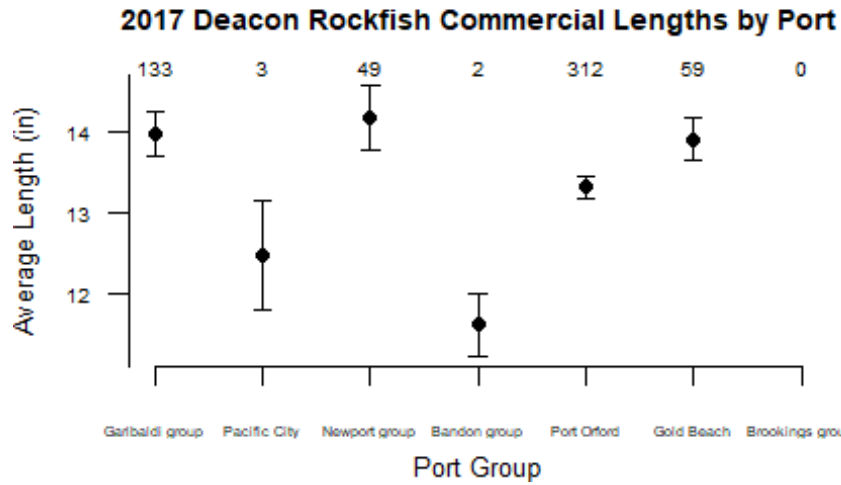


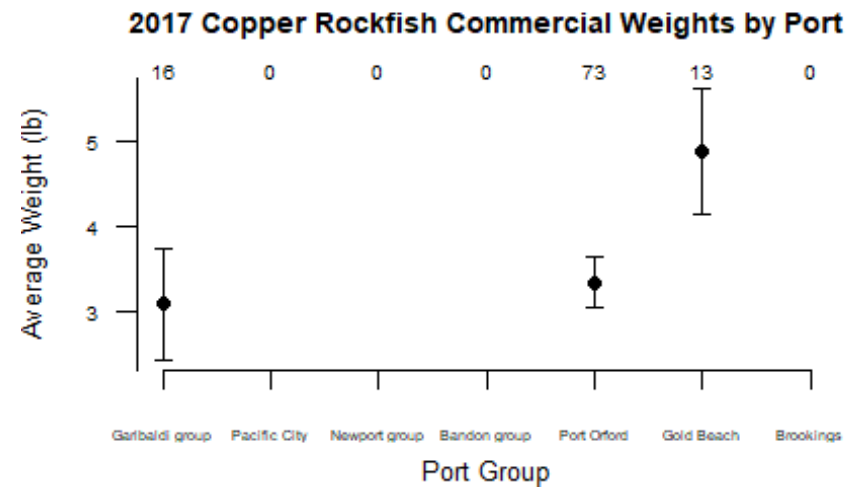
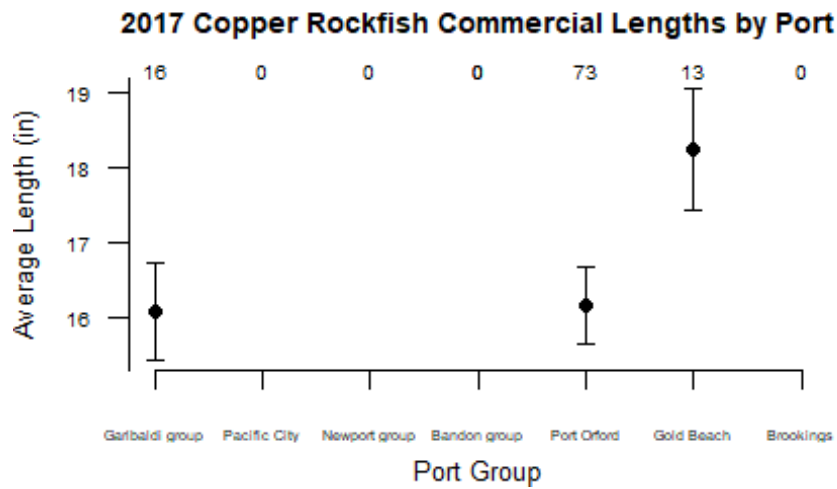
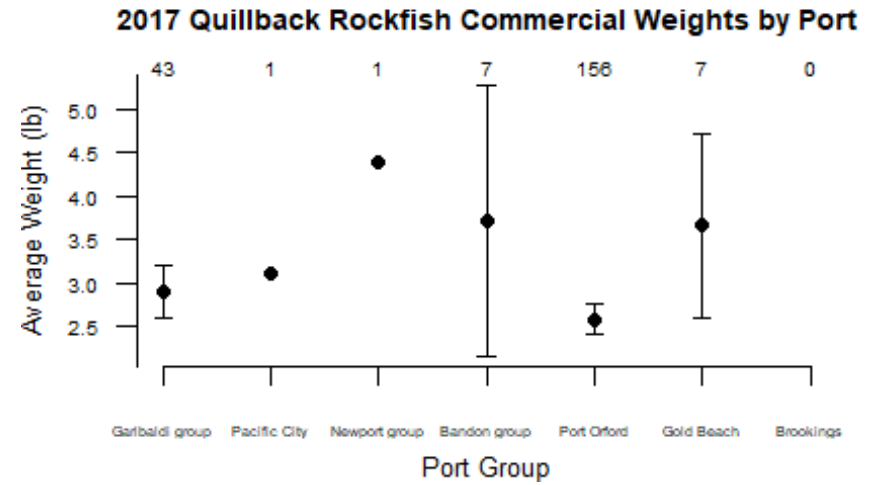
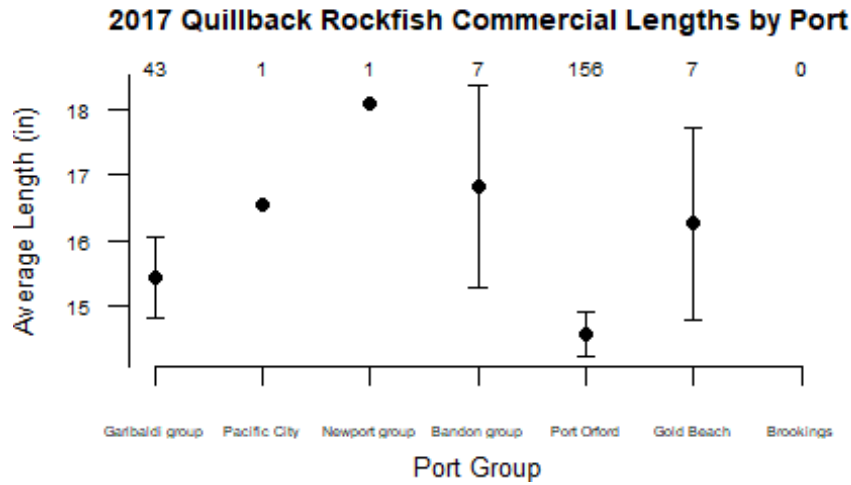


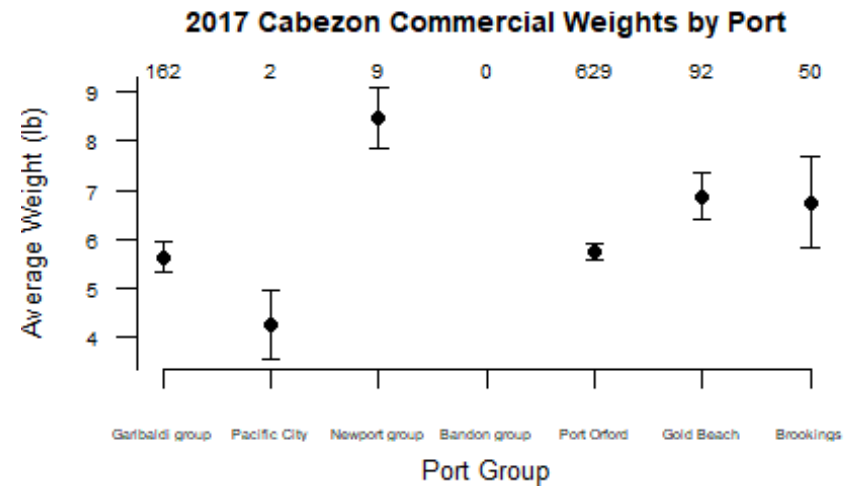
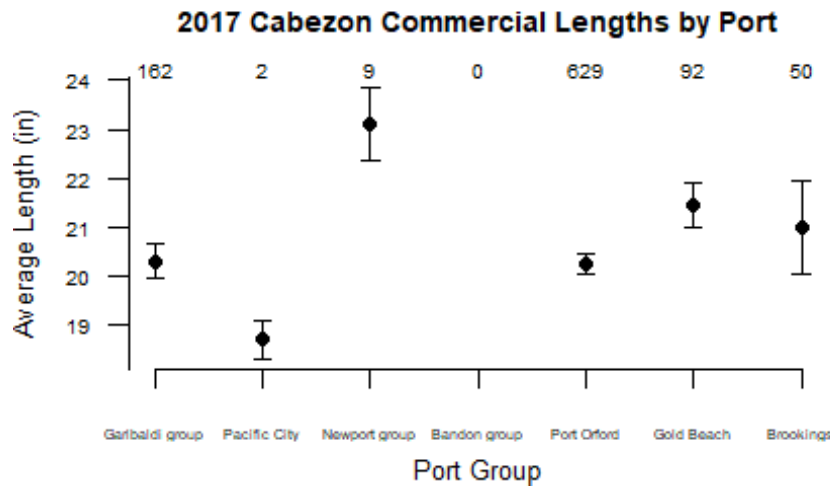
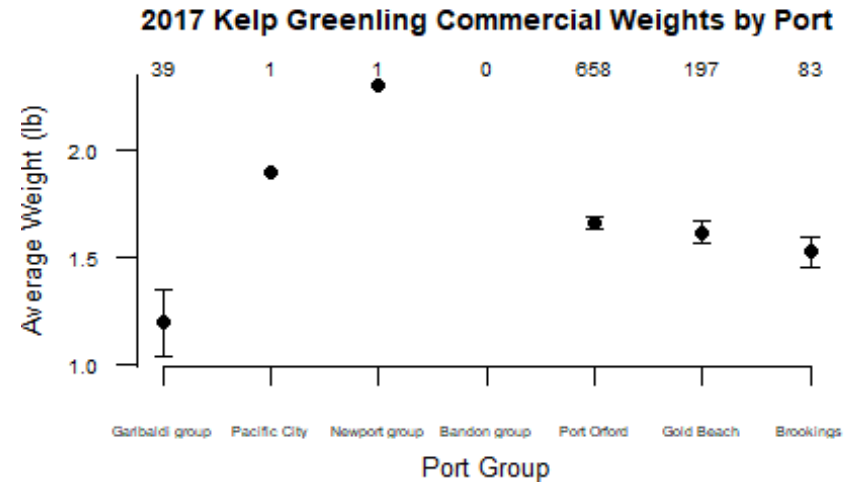
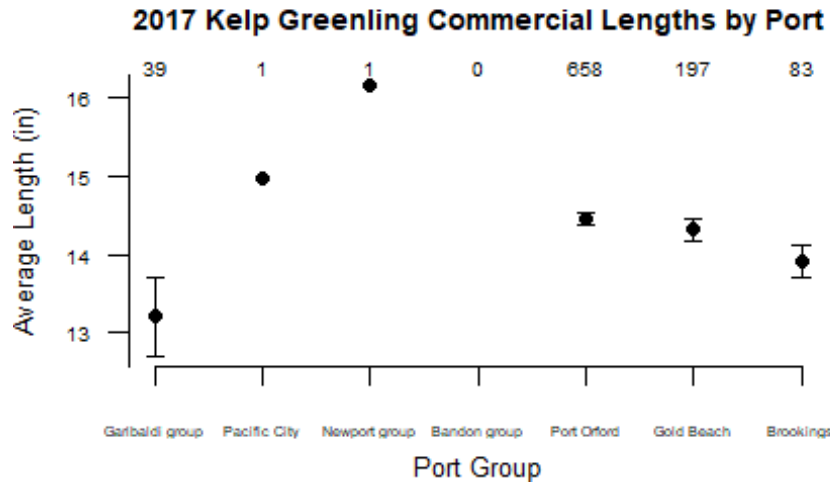


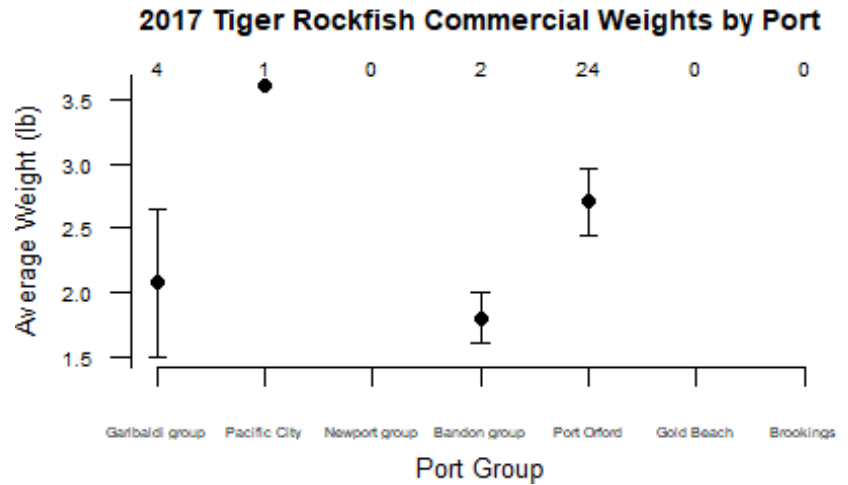
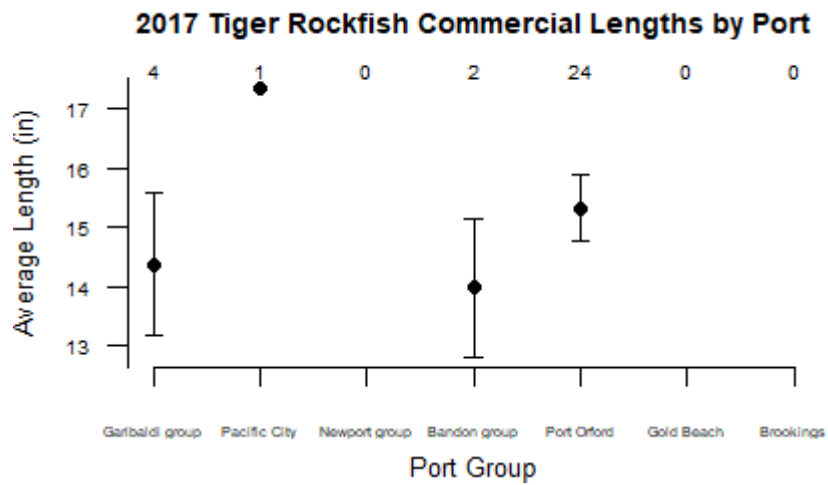
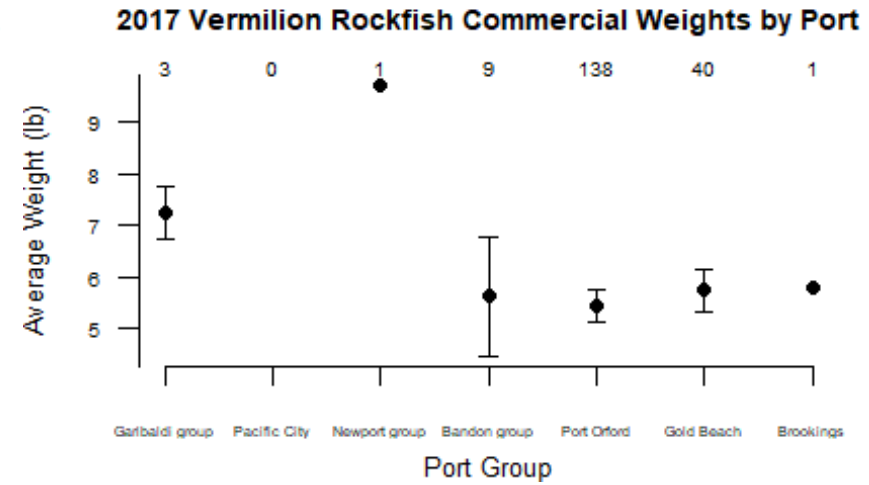
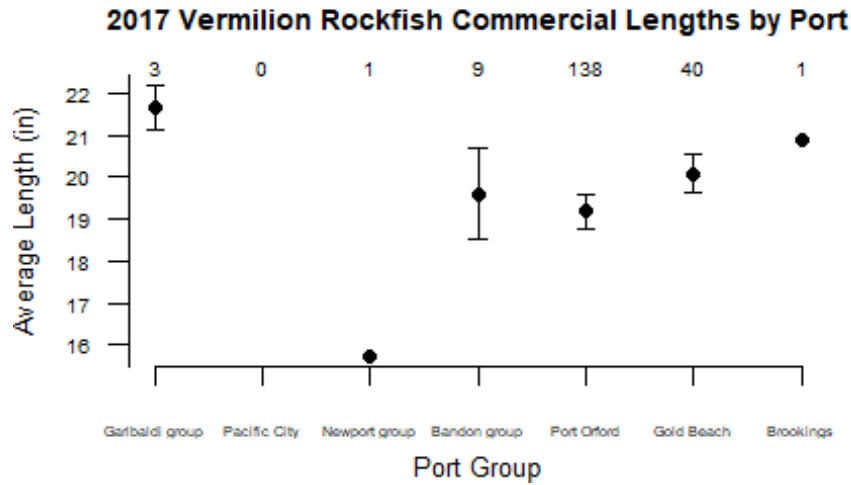
Appendix D. 2017 nearshore species commercial length and weight sample averages by port with sample sizes and 95% confidence intervals.











Appendix E. 2017 nearshore species commercial length and weight sample averages by gear type with sample sizes (top) and 95% confidence intervals.

